

NPR of AMERICA, INC



1973 ~ 2015

ESTABLISHED:	1973
PRODUCTS:	PISTON RINGS, PISTONS
ORGANIZATION:	Automotive Engine Rebuilder Association (AERA) Auto Care Association

TABLE OF CONTENTS

NOA YEAR 2015 CATALOG: Index

INTRODUCTION: i ~ xvii

The Most Important Functions of NPR Piston Rings	i
The Quality Advantages of NPR Steel Rings	ii
Piston Ring – Name of Parts	iii
Explanation of NPR Ring set Code	iv ~ vi
Installation Instruction of Oil Rings : Series 777	vii
Installation Instruction of Oil Rings : Series 777, EA Eng.	viii
Installation Instruction of Oil Rings : Series 555	ix
Installation Instruction of Compression Rings	x
End Gap Information	xi ~ xii
Cylinder Honing Information	xiii ~ xiv
Piston Surface Treatment	xv
Abbreviation & Words in this catalog.	xvi
Limited Warranty	xvii
New Item or New Part Number List	xviii ~ xix
Discontinued Item List	xx

US APPLICATION CATALOG: P1 ~ P273

MAIN CATALOG (ENGINE SIZE SEQUENCE):

<u>US APPLICATION</u>	
ACURA	P1
AUDI	P2 ~ P7
BUICK	P8 ~ P11
CADILLAC	P90 ~ P153
CHRYSLER	P90 ~ P153
CHEVROLET	P12 ~ P51
DAEWOO	P90 ~ P153
DAIHATSU	P52 ~ P53
DODGE	P54 ~ P55
EAGLE	P12 ~ P51
FORD	P12 ~ P51
GENERAL MOTORS	P56 ~ P89
GEO	P90 ~ P153
HINO	P90 ~ P153
HONDA	P154 ~ P155
	P156 ~ P165

NOA YEAR 2015 CATALOG: Index

HUMMER	P90 ~ P153
HYUNDAI	P166 ~ P171
INFINITI	P172 ~ P175
ISUZU	P176 ~ P181
JAGUAR	P182 ~ P183
JEEP	P12 ~ P51
KIA	P184 ~ P189
LAND ROVER	P190 ~ P191
LEXUS	P192 ~ P197
LINCOLN	P56 ~ P89
MAZDA	P198 ~ P207
MERCEDES-BENZ	P208 ~ P209
MERCURY	P56 ~ P89
MERKUR	P56 ~ P89
MINI	P210 ~ P219
NISSAN	P220 ~ P233
OLDSMOBILE	P90 ~ P153
PLYMOUTH	P12 ~ P51
PONTIAC	P90 ~ P153
SAAB	P234 ~ P235
SATURN	P90 ~ P153
SCION	P236 ~ P237
SUBARU	P238 ~ P247
SUZUKI	P248 ~ P251
TOYOTA	P252 ~ P265
UD TRUCKS	P266 ~ P267
VOLKSWAGEN	P268 ~ P271
VOLVO	P272 ~ P273

NEW PISTON BUYERS GUIDE: P275 ~ P352

NOA YEAR 2015 CATALOG: Index

FORKLIFT & MEDIUM SIZE DIESEL ENGINES: P355 ~ P393

MAIN CATALOG (ENGINE SIZE SEQUENCE):

CHRYSLER	P356 ~ P358
FORD	P359 ~ P361
GMC	P362 ~ P364
HINO	P365 ~ P367
ISUZU	P368 ~ P370
MAZDA	P371 ~ P372
MITSUBISHI	P373 ~ P379
NISSAN	P380 ~ P386
TOYOTA	P387 ~ P392
UD TRUCKS	P393

EXPORT PISTON RING: P395 ~ P549

MAIN CATALOG (ENGINE NUMBER SEQUENCE):

ASIA GASOLINE	P396
ASIA DIESEL	P397
AUDI GASOLINE	P398
CHRYSLER GASOLINE	P399 ~ P402
CHRYSLER DIESEL	P403
DAEWOO GASOLINE	P404
DAEWOO DIESEL	P405
DAIHATSU GASOLINE	P406 ~ P407
DAIHATSU DIESEL	P408
FORD GASOLINE	P409 ~ P411
FORD DIESEL	P412
GM GASOLINE	P413 ~ P418
GM DIESEL	P419
HINO DIESEL	P420 ~ P431

NOA YEAR 2015 CATALOG: Index

HONDA GASOLINE	P432 ~ P438
HYUNDAI GASOLINE	P439 ~ P441
HYUNDAI DIESEL	P442 ~ P443
ISUZU GASOLINE	P444 ~ P447
ISUZU DIESEL	P448 ~ P460
JAGUAR GASOLINE	P461
KIA GASOLINE	P462 ~ P463
KIA DIESEL	P464 ~ P465
KOMATSU DIESEL	P466 ~ P469
LAND ROVER	P470
MAZDA GASOLINE	P471 ~ P475
MAZDA DIESEL	P476 ~ P478
MERCEDES-BENZ GAS.	P479
MERCEDES-BENZ DSL.	P480
MITSUBISHI GASOLINE	P481 ~ P487
MITSUBISHI DIESEL	P488 ~ P497
NISSAN GASOLINE	P498 ~ P509
NISSAN DIESEL	P510 ~ P517
SAAB GASOLINE	P518
SUBARU GASOLINE	P519 ~ P520
SUZUKI GASOLINE	P521 ~ P523
TOYOTA GASOLINE	P524 ~ P536
TOYOTA DIESEL	P537 ~ P542
UD TRUCKS	P543 ~ P547
VOLKSWAGEN GAS.	P548
VOLKSWAGEN DIESEL	P549

EXPORT PISTON : P551 ~ P553

MAIN CATALOG (ENGINE NUMBER SEQUENCE):

DAEWOO GASOLINE	P552
HYUNDAI GASOLINE	P552
MITSUBISHI GASOLINE	P552
MITSUBISHI DIESEL	P552
NISSAN GASOLINE	P552

NOA YEAR 2015 CATALOG: Index

NISSAN DIESEL	P552
TOYOTA GASOLINE	P553
TOYOTA DIESEL	P553

NPR (Nippon Piston Ring) Piston Rings.

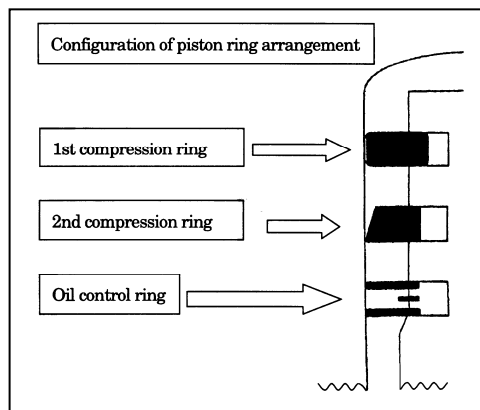
1. The most important functions of NPR Piston Rings.

NPR's most important principles of Piston Rings are:

- a. Function (Reliability).
- b. Reduced Weight.
- c. Low Friction.
- d. Low Production Cost.

Functions of each 1st, 2nd, and Oil Control Rings (please see below figures):

Function \ Type	1st compression ring	2nd compression ring	Oil control ring
Gas seal	⊙	○	—
Oil control	○	⊙	⊙
Heat conduction	⊙	○	—
Bearings	⊙	○	○



1) Gas Seal:

The seal must perform during both the compression stroke and expansion stroke to provide maximum performance. This is best achieved with the proper amount of lubricant oil film on the piston ring cylinder contact point and complete contact of the bottom of the piston ring against the piston groove. Therefore, the proper seal improves performance and decreases oil consumption.

2) Oil Control:

The function of the oil control ring is to assure the proper amount of lubricant film. By providing the correct lubricant film for all piston ring contact points on the cylinder, this will prevent scuffing and excessive wear. However, an excessive amount of lubricant film will force too much oil into the combustion chamber resulting in soot in the exhaust.

3) Heat Conduction:

The function of heat conduction is to allow heat to escape from the piston head to cylinder wall and then to cooling water and/or cooling fins. If the heat is not allowed to decrease, oil temperature will increase. These results in reduced oil viscosity and increased oil consumption.

4) Bearing:

Pistons have reciprocation motion in both expansion and compression strokes. Because of this the piston exerts a higher pressure against one side of the cylinder wall during the expansion stroke. The piston ring assures a proper clearance between the piston and the cylinder wall while maintaining complete contact around the entire circumference of the cylinder wall. This prevents both gas blow by and piston scoring.

2. The quality advantages of NPR Steel Rings.

NPR's unrivaled Piston Rings and Pistons will satisfy the needs of today's higher performance engine. All Piston Rings and Pistons listed in this catalog are the results of our hard bench engine tests taking into consideration material composition and surface treatment design. These tests on actual engines were conducted with the cooperation of the automobile manufacturer to assure a proper match to your engine's specifications.

Material – Steel vs. Cast Iron vs. Ductile Iron.

Today's modern engines have higher operating temperatures, higher compression, higher stress and higher restrictions on emissions. These conditions have put greater demands on piston rings. Steel rings outperform their cast iron predecessors in reduced oil consumption, reduced blow by, reduced wear, reduced breakage, and reduced friction.

Oil consumption

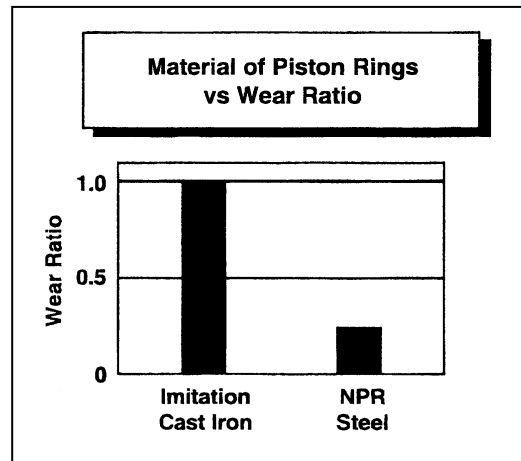
Steel piston rings allow for a reduction in the radial wall thickness. This (thinner) and lighter design seals more completely against the ring groove. Also, the steel ring with greater strength, reduced width conforms better to less than perfect cylinder bores. These two advantages reduce oil consumption by more than 30%.

Durability of Steel

The inherent strength of high alloy steel dramatically reduces the chance of ring breakage. Late model engines have reduced their ring thickness from 2.0 to 1.2 and 1.0 mm. Steel also provides for longer service life because ring wear is reduced by over 60%. Simply stated steel rings last 50% longer.

Steel Piston Rings

- Advantages:** Higher tensile strength.
Higher yield strength.
Greater fatigue life.
Greater hardness.
Lower ring mass.
- Benefits:** Better stress resistance.
Reduced rings side wear.
Reduced grooves pound out.
Longer service life.
Better conformability.
Superior oil economy.
Superior blow-by control.
Lower friction.



Surface Treatment

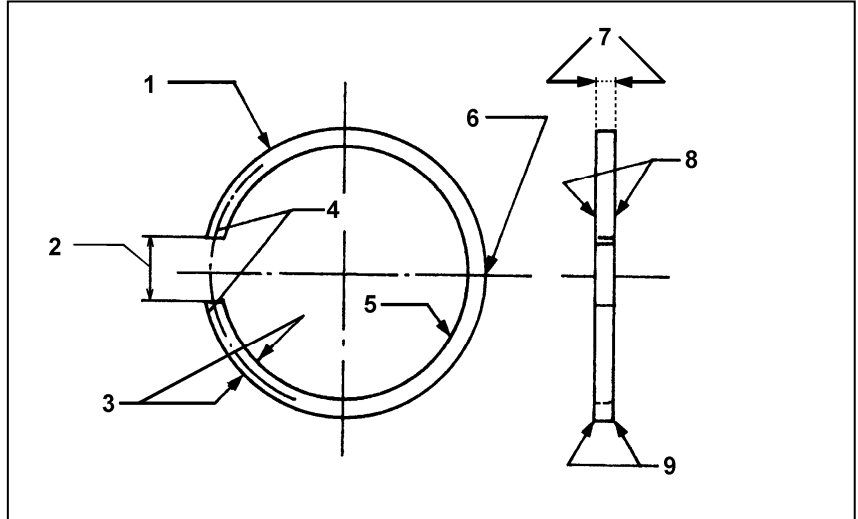
NPR's surface treatment is also very high quality, and the result of our technology. The chart below shows surface treatment comparison.

Surface Treatment	Anti Scuffing	Anti Wearing	Anti Damage to other parts.	Anti Corrosion	Cost
Chrome	Good	Good	Good	Good	Very Good
Moly	Good	Poor	Very Poor	Poor	Good
Gas Nitride	Good	Very Good	Very Good	Very Good	Good
PVD	Excellent	Excellent	Excellent	Excellent	High

3. Piston Ring – Name of Parts

Free (Unstressed) Ring

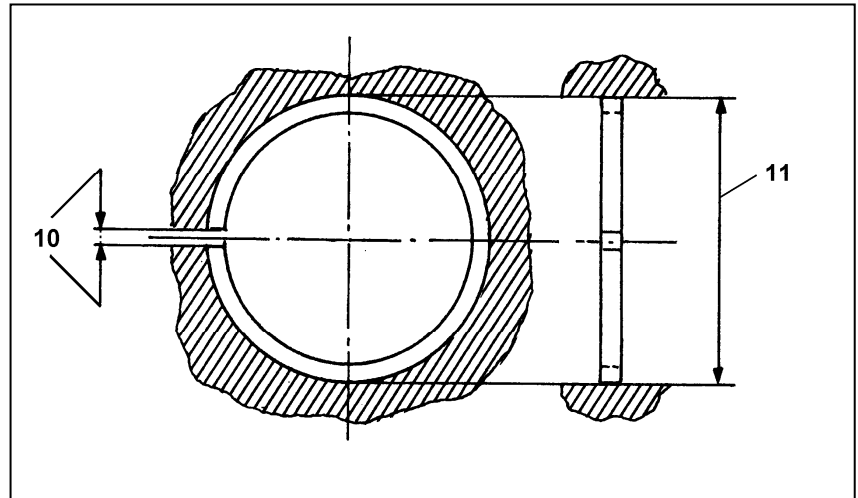
1. Ring face or Periphery.
2. Total free gap (m).
3. **T**: Radial wall thickness (ai).
4. Butt ends.
5. Inside Surface.
6. Back of the ring.
7. **B**: Ring width (h1)
8. Side Face.
9. Peripheral edges.



Closed Gap

10. Closed gap (S1).
11. Cylinder Bore (H).
Nominal ring diameter (d1).

Symbols in () are as given in :
ISO6621/1
SAE J1588
JIS B 8032



Recommended Closed Ring Gap

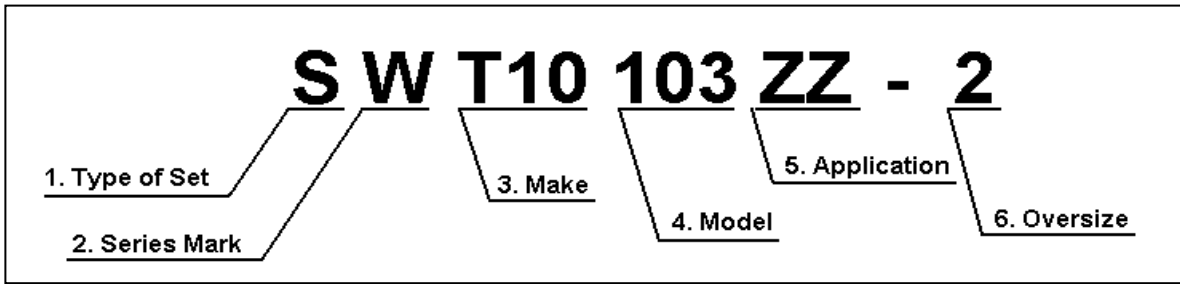
NPR generally manufacturers its rings to meet the JIS (Japanese Industrial Standard) B8032-6-1998. It is import to recognize that some end gaps for individual engines may vary from this standard because of the original engine manufacturer's requirements. The table appearing below is for reference only. All sizes are in millimeters. See page #xi for more information.

Recomendacion De Cierre Del Espacio Final Del Anillo (End Gap)

NPR generalmente fabrica sus anillos para piston siempre siguiendo las normas del FIS (El estandar industrial Japonese) B8032-6-1998. Es importante reconocer que en algunos motores, el espacio final del anillo puede variar del JIS a causa de los requerimientos del fabricante. La tabla que aparece debajo es de referencia solamente. Todas las medidas son en milimetros.

Cylinder Bore Size	Compression Ring Gap	2pc. Oil Ring Gap	3pc. Oil Ring Gap
40.00 ~ 59.00	0.15 ~ 0.35	0.15 ~ 0.35	-
60.00 ~ 74.00	0.20 ~ 0.40	0.20 ~ 0.40	0.20 ~ 0.95
75.00 ~ 89.00	0.25 ~ 0.50	0.25 ~ 0.50	0.25 ~ 1.00
90.00 ~ 109.00	0.30 ~ 0.55	0.30 ~ 0.50	0.30 ~ 1.05
110.00 ~ 120.00	0.35 ~ 0.60	0.35 ~ 0.60	0.35 ~ 1.10

4. Explanation of NPR Ring set Code.



1) Type of Set.

S: Eleven digits code started with S represents a complete set of piston rings for an engine model S assigned by Make and Model codes. For instance, TOYOTA 22RE (4 cylinder) has been assigned as T10103. In this case, SWT10103ZZ-2 represents four sets of each 1st, 2nd, and oil rings.

Y: Eleven digits code started with Y represents only one cylinder set of piston ring. In case of TOYOTA 22RE, YWT10103ZZ-2 represents one set of 1st, 2nd, and oil rings.

Note: NPR has both engine set (S-) and cylinder set (Y-) code in the same Make, Model and Application for some makes (HONDA / ISUZU / SUZUKI / YAMAHA etc.).

Note 2: Since a cylinder set code (Y-) represents a piston ring set for only one cylinder, an engine requires a cylinder set multiplied by the number of cylinders of the engine.

2) Series Marks

Series Mark	Series #	Series Mark	Series #
A	100	L	100X
B	300	M	300X
C	500	N	500X
D	555	R	Mt.100X
F	Mt.100	S	Mt.300X
G	Mt.300	T	Mt.500X
H	Mt.500	W	777
J	Mt.555	X	Mt.777

US Application

Most of Piston Rings for Gas Engine : Mt.777 or 777.

Most of Piston Rings for Diesel Engine : Mt.555 or 555.

Export Piston Rings

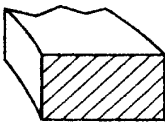
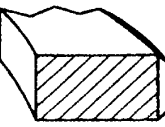
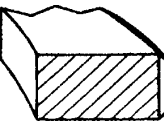
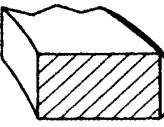
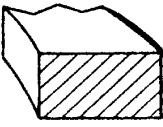
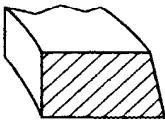
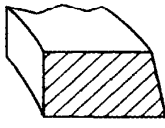
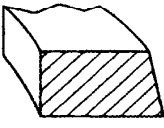
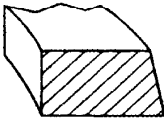
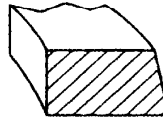
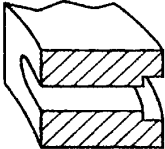
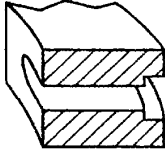
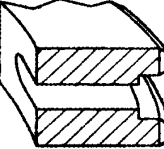
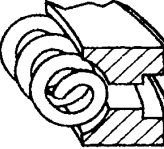
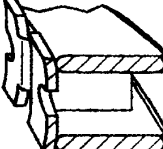
There are varieties of Piston Ring Series. Please see above.

Important Note!

From time to time the surface treatment specifications may be changed. Contact NPR, if you have questions on individual engine applications.

Explanation of Series #

There are various combinations of piston rings to make the set suitable to the engine. Using a ring set containing three rings per cylinder, we explain our basic Series #'s as under:

Series #	100	300	500	555	777
Top Ring					
2nd Ring					
Oil Ring					
Feature	Ring set without Chrome Plating.	1st Ring is Chrome Plated.	1st Ring and Oil Ring are Chrome Plated.	This ring set employs Dieselelex ring (incorporating a coil expander) as the oil control ring.	This ring set employs Nifflex ring (Consisting of combination of three pieces) as the oil control ring.

Mt. : Top and bottom sides of the ring are Chrome Plated.
 X : Plate expander is coupled with oil control ring.

Important Note!

Diesel Ring 555 Series:

Because Diesel Cylinders may have different inside Cylinder wall surfaces, NPR ring surface treatments on Top and Oil Control Ring will change:

Ring Type

Surface Treatment

555

Chrome on outside contact surface.

Mt.555

Chrome on Top, Bottom and Outside contact surface. There may be Chrome on the inside surface depending on individual application.

Mt.555F

Chrome on Top and Bottom surfaces, but no Chrome on outside contact surfaces. Typically used in Chromard Liner applications.

From time to time the surface treatment specifications may be changed. Contact NPR, if you have questions on individual engine applications.

3) **Make (Bold – New Part # Style)**

<u>Code</u>	<u>Make</u>
A10	ASIA
C10	CHRYSLER
D10	DAIHATSU
D20	DAWEOO
E10	EUROPAN APPLICATION
F30	FORD
F20	SUBARU
G10	GMC
G30	HYUNDAI
H20	HINO
H30	ACURA, HONDA
I10	ISUZU, (GM, CHEVROLET, GEO)
K02	KOMATSU
K30	KIA
M30	mitsubishi, (CHRYSLER, DODGE, EAGLE, PLYMOUTH, HYUNDAI)
M31	HYUNDAI, MAZDA, MITSUBISHI
N30	INFINITI, NISSAN, (FORD MERCURY)
N31	NISSAN DIESEL
S20	SUZUKI, (GM, CHEVROLET, GEO)
T10	LEXUS, TOYOTA, (GM, CHEVROLET, GEO)
T20	KIA, MAZDA (FORD, MERCURY)

NOTE:

EXPLANATION OF MAKES IN PARENTHESIS ()

When engines are out-sourced, you may find some set codes which have a make code assigned for an engine manufacturer other than the vehicle manufacturer (For example: SWM31047 is used for Chrysler engine).

4) **Model**

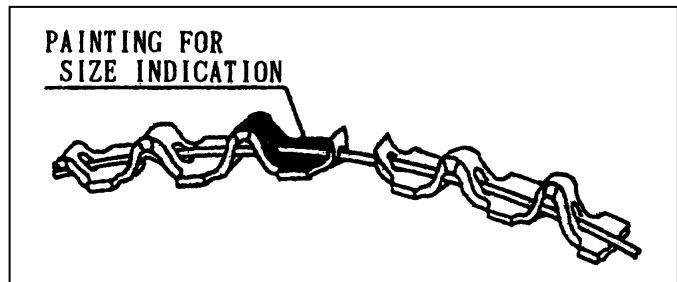
A three digit number is uniquely assigned by an engine model connected with a make code.

5) **Serial Code for Application**

Assigned by engineer.

6) **Oversize Code**

0:	Standard.	No Color
1:	Oversize (0.25mm).	White
2:	Oversize (0.50mm).	Blue
3:	Oversize (0.75mm).	Black
4:	Oversize (1.00mm).	Yellow
5:	Oversize (1.25mm).	Orange
6:	Oversize (1.50mm).	Green



* Indication is only for Nifflex type expander rings. *

* Please note that there may be some exceptions for this color code depending on the original manufacturers requirement. *

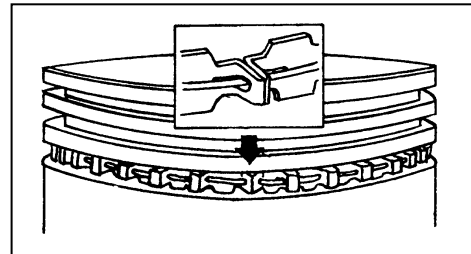
Installation Instruction of Oil Rings. (Instalacion del Anillo de Control de Aceite)



1. Series 777 Oil Rings. (Anillo de Aceite Serie 777)

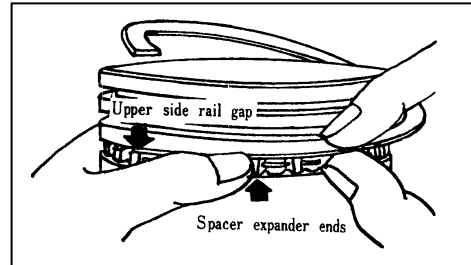
Fit the spacer expander into the ring groove, and ensure that the ends are butting as shown in the illustration.

Acomodar el espaciador dentro de la ranura y asegurarse que las orillas se lleguen a juntar, sin encimarse. Como se muestra en la ilustracion donde las orillas del espaciador se juntan.



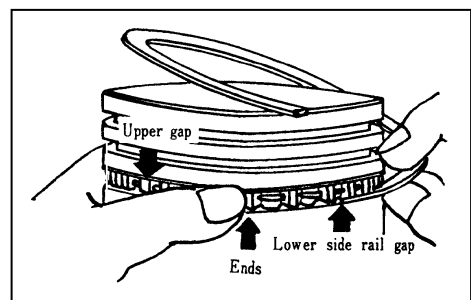
Hold with thumb the spacer expander with its ends completely butting. Install the upper side rail with its gap approximately 45 Degree left of Spacer Expander end.

Con el dedo pulgar sostener el espaciador donde se juntan ambas orillas. Instalar primero la lamina o riel superior con una distancia de una pulgada o 45 grados a la izquierda donde se juntaron las orillas del espaciador.



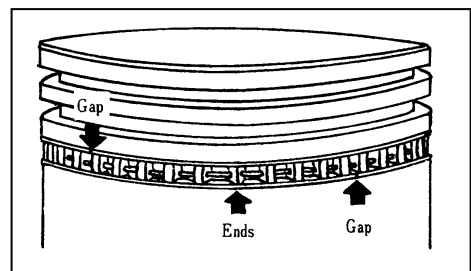
Install the lower side rail with its gap approximately 45 Degree right of the expander ends.

Posteriormente de la misma manera a como se menciono anteriormente se instala la lamina o riel inferior con una distancia de una pulgada o 45 grados hacia la derecha de donde se juntaron las orillas del espaciador.



If you have followed these instructions, this ring will Be installed as illustrated on the right. Make sure each gap is located as illustration to the right demonstrates.

Si usted ha seguido estas instrucciones como la ilustracion que aparece de lado derecho. Tiene que asegurarse que los huecos (Gap) sean colocados como se muestra en el dibujo.



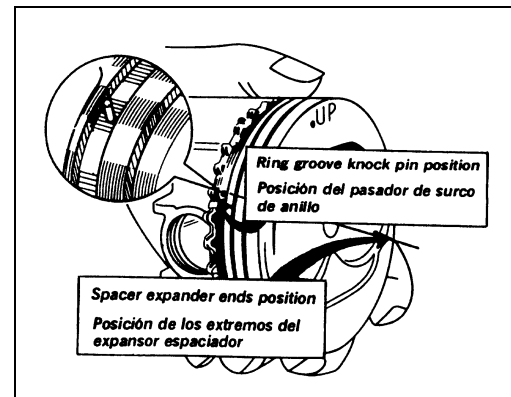
Installation Instruction of Oil Rings. (Instalacion del Anillo de Control de Aceite.)



2. Series 777 Oil Rings for Subaru EA Engine. (Serie 777 Anillo de Control de Aceite para Subaru Tipo de Maquina EA.)

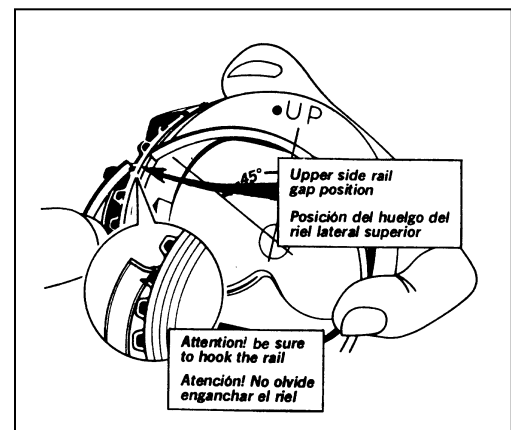
In EA Engine pistons, there is a knock pin in the oil ring groove. Install the spacer expander around the whole piston perimeter, placing its ends approximately 180 Degree from the knock pin.

Los pistones del motor EA tienen un pasador en el Surco del anillo aceitador. Instale el expansor Espaciador alrededor del perimetro total del piston, Ubicando sus extremos a unos 180 Grado de dicho pasador.



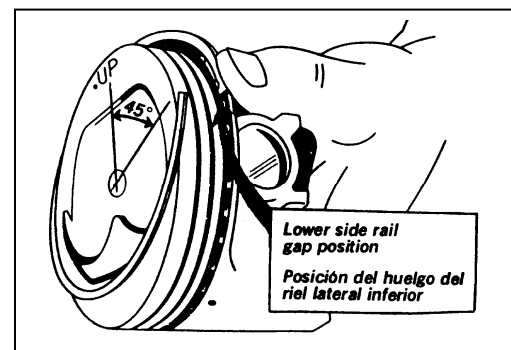
One of the two side rails has one of its ends slightly bent. Hook the bent part into the spacer expander, at a point located approximately 45 Degree left of the piston head “UP” mark, then install the rail around the whole piston perimeter (see figure).

Uno de los dos rieles laterales tiene uno de sus extremos ligeramente doblado. Enganche esta parte doblada en el expansor espaciador, en un punto ubicado a unos 45 Grado a la izquierda de la marca “UP” grabada en la cabeza del piston, e instale el riel alrededor del perimetro total del piston (ver figura).



Install the lower side rail with its gap approximately 45 Degree right of the piston head “UP” mark.

Instale el riel lateral inferior con su hueco ubicado a unos 45 Grado a la derecha de la marca “UP” grabada en la cabeza del piston.



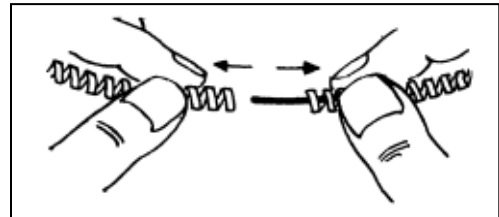
Installation Instruction of Oil Rings. (Instrucciones para Instalar el Anillo De Control de Aceite.)



3. Series 555 Oil Rings. (Anillo de Aceite Serie 555)

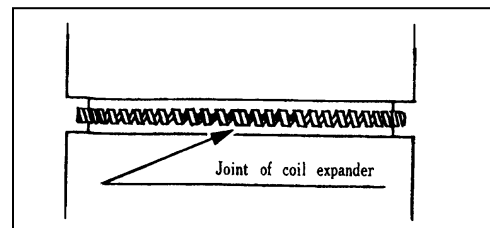
First, disconnect the joint of coil expander.

Primero, desconectar el alambriillo en forma de espiral del espaciador.



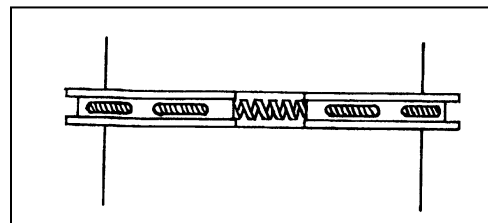
Next, encircle the 1st oil ring groove with coil expander and joint the ends of coil expander again.

Despues, instale el alambriillo en forma de espiral dentro de la ranura del piston en la ranura correspondiente y cerrar el circulo.



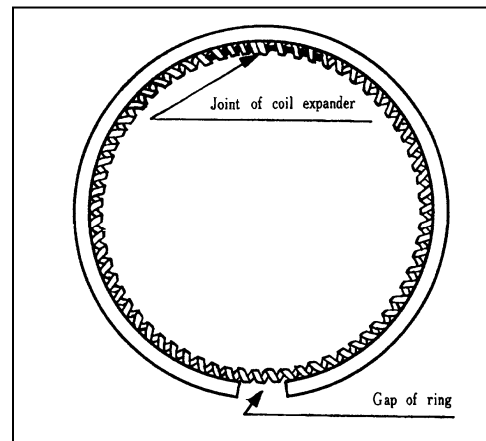
Last, install the ring outside of coil expander.
(Please use Piston Ring Installation Tool).

Finalmente, instalar el espaciador por fuera del alambriillo en forma de espiral.



The end of the ring must be placed on the opposite side of the joint of the coil expander.

Las orillas del anillo deben de ser colocadas del lado opuesto a la union del alambriillo en forma de espiral.

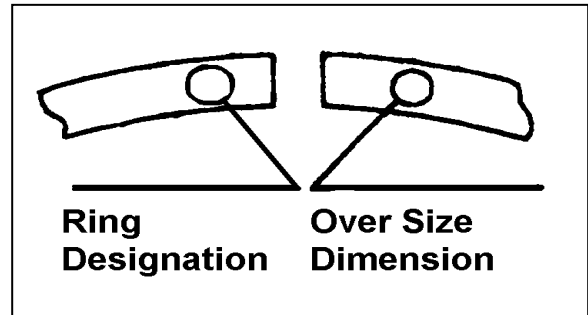


Installation Instruction of Compression Rings.



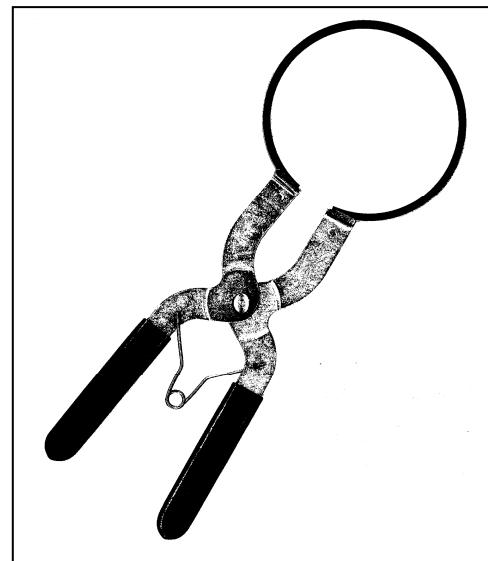
“N” or Number is facing upward when installed on the piston.

Siempre hay que asegurarse que al instalar el anillo de compresion para la primera ranura del piston, este debera notarse que la N y el numero 1 deberan estar siempre hacia arriba dentro la primera ranura del piston.



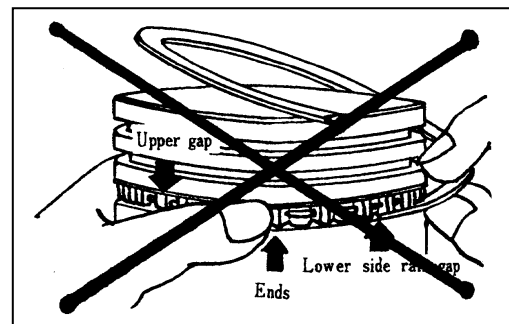
Use Piston Ring tool to expand the end gap. Then install 2nd and Top ring to Piston Ring Groove.

Siempre es recomendable usar herramienta especial, como Ensanchadores del Anillo de Piston. Para el segundo anillo de compresion se usa el mismo procedimiento del primer anillo de compresion, pero en este hay que notar que el numero 2 y la letra N, deberan estar siempre hacia arriba dentro de la segunda ranura del piston.



Do not install compression rings like rail rings.

Nunca hay que instalar los anillos de compresion de la misma manera que se instalan los anillos de control de aceite (rieles o laminas).



Piston Ring End Gaps / ABERTURA DE LUZ PARA ANILLOS

In the last 10 – 15 years engine and piston ring manufacturers have changed the dimensions of the TOP and second ring gaps. The general trend has been to reduce the top ring and enlarge the second ring gap.

The primary reason for this change was to reduce oil consumption in engines with low tension rings.

En los últimos 10 – 15 años los fabricantes de anillos para pistón han cambiado las dimensiones de abertura de luz para el primer y Segundo anillo. La tendencia general ha sido reducir la abertura de luz en la primera ranura y ampliar la Segunda ranura.

La principal razón de este cambio es reducir el consumo de aceite en máquinas con anillos de baja tensión.

This change in end gaps reduces oil consumption in two ways:

Este cambio en la abertura de luz reduce el consumo de aceite de dos maneras:

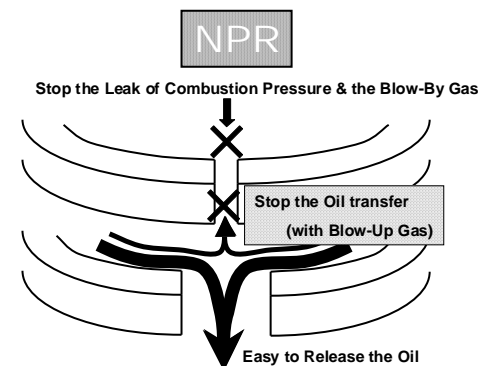
1. The reduced top ring gap helps reduce the flow of oil vapor from below the top ring to the combustion chamber (see “X” in diagram right)

El diseño de la abertura de luz en la primera ranura ayuda a reducir el flujo de vapor de aceite por debajo del anillo de la primera ranura a la cámara de combustión (vease “X” en el diagrama derecho).

2. The enlarged second ring gap increases gas flow from the piston land between the Top and Second ring to below the Second Ring, and avoids accumulation of the pressure between the Top and Second Ring. By doing so, this reduces the period of the pressure between the Top and Second ring higher than combustion chamber and reduces the flow of oil vapor from below the Top ring to the combustion chamber. A second advantage to this is that it will allow the top ring to seat better against the bottom of the piston ring groove, which will also reduce oil consumption.

La abertura de luz del segundo anillo al ser más amplia permite incrementar el pase de flujo de gases entre el primer anillo y el segundo anillo y evita acumulación de presión entre estos. Al suceder esto reduce el tiempo de presión que se acumula entre el primer anillo y el segundo evitando que haya escape de aceite a la cámara de combustión, a través del primer anillo. Una Segunda ventaja a esto es que permitira que el primer anillo asiente mejor contra el fondo del surco del pistón, que redujera también el consumo de aceite.

- CONTINUE



To use one standard for all end gaps is no longer correct. The correct end gap for each engine depends on many factors including tension, ring material, ring shape, piston shape and combustion pressure. As examples listed below are the correct end gaps for today's more popular engines:

Para utilizar un estandar para todas las aberturas de luz , no es correcto, La medida correcta por cada motor depende de Muchos factores incluyendo la tension , el material del anillo, la forma del anillo , la forma del piston y la presion del combustible . A continuacion mostraremos unos ejemplos de abertura de luz actualizados para las motores mas populares de hoy:

<i>Engine</i>	<i>Ring#</i>	<i>Top Ring Gap</i>	<i>2nd Ring Gap</i>
Isuzu 4ZDI	SWI10123	0.35-0.55mm	0.35-0.55mm
Isuzu 4ZEI	SWI10162	0.20-0.40mm	0.30-0.50mm
Mitsubishi G15B	SWM31063	0.20-0.40mm	0.20-0.40mm
Nissan E16	SWN30057	0.20-0.30mm	0.15-0.25mm
Nissan Z24	SWN30085	0.30-0.50mm	0.55-0.70mm
Suzuki G13A	SWS20141	0.15-0.35mm	0.20-0.40mm
Suzuki G13BA	SWS20143	0.20-0.40mm	0.20-0.40mm
Toyota 22R	SXT10077	0.22-0.40mm	0.18-0.33mm
Toyota 22R	SWT10103	0.25-0.45mm	0.60-0.75mm
Toyota 3E	SWT10143	0.25-0.45mm	0.15-0.30mm
Toyota 4AF	SWT10142	0.20-0.35mm	0.35-0.55mm
Toyota 4AL	SWT10108	0.20-0.35mm	0.15-0.30mm

NPR manufacturers each piston ring gap with the correct OEM specification for each individual engine. There is no need, nor do we recommend that you alter them in anyway as this might void our warranty. Also note these end gaps are set at exact bore dimensions. If the bore is slightly oversize (for example 92.52mm instead of 92.50mm) then the end gap will increase accordingly.

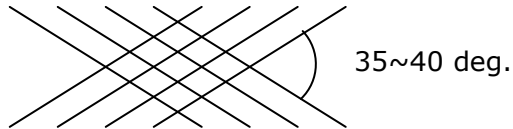
NPR fabrica sus anillos con la especificacion correcta de OEM(Equipo Original) para cada motor individual y es ello que la abertura de luz es diferente de un motor a otro aunque tengan el mismo diametro . .Por lo tanto no hay necesidad, ni recomendamos que usted los altere, haciendo esto puede anular la garantia del producto. Tambien notese que la abertura de luz en nuestros anillos estan diseñados exactamente a la medida del diametro interno del cilindro.. Por ejemplo si el diametro es levemente fuera de sobre medida(Ejemplo: 92.52mm en lugar de 92.50mm) la abertura de luz se incrementara por consiguiente.

Finalmente siempre instale anillos NPR, los mejores del mundo.

Cylinder Honing Recommendation

For use with our piston rings we recommend a Plateau Honing with a Cylinder Bore cross hatch angle of 35 – 40 degrees.

Para el uso de nuestros anillos nosotros recomendamos una meseta que afila con piedra Con un angulo de trampa de cruz de 35- 40 grados (Cross Hatch)



For NPR Piston Rings we recommend a roughness of:

NPR recomienda para sus anillos , una aspereza de :

$R_z = 59 - 138 \mu \text{ in } [= 1.5 - 3.5 \mu \text{m}]$ or

$R_a = 15 - 35 \mu \text{ in } [= 0.4 - 0.9 \mu \text{m}]$

To reach this roughness the manufacturers of honing machines & accessories recommend to use for a gray cast iron engine block

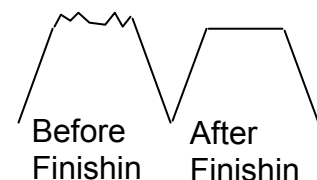
- Conventional stones #220 - #280 grit or
- Diamond stones #325 - #550 grit

Para alcanzar esta aspereza los fabricantes de maquinas de afilado y accesorios relacionados a la rectificacion de motores recomiendan usar para bloques de motor de hierro fundido grisaceo lo siguiente:

- Piedra convencional # 220 - # 280 o
- Piedra con diamante # 325 - # 550

After honing with either conventional or diamond stone, the same manufacturers suggest to finish your honing by smoothing the surface with a fine grit conventional abrasive (#400 - #600 grit) or to sweep the bores with a flexible brush or a nylon bristle plateau honing tool. This is necessary to get rid of jagged peaks and folded & torn material.

Despues del afilado convencional o si se uso la piedra con diamante, los mismos fabricantes sugieren para darle terminado final deben de hacer un afilado para suavizar la superficie con un abrasivo convencional (400- # 600) O cepillandolo con uno de nylon flexible. Esto es necesario para eliminar los picos dentados y de material doblado o rasgado.



- CONTINUE

Important Note –

Be sure to reconfirm with your honing equipment manufacturer that the recommended stone grit will produce our R_Z and R_a roughness recommendations.

Nota Importante.

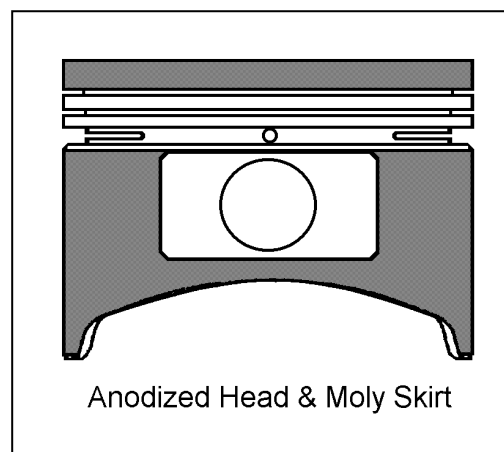
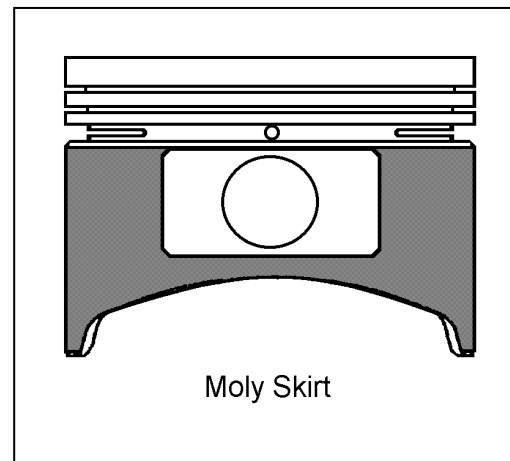
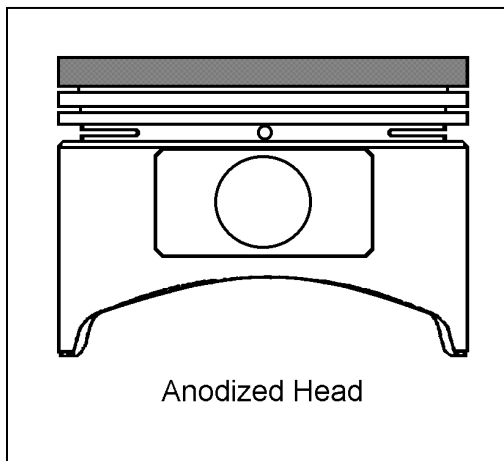
Estar seguro de reconfirmar con el fabricante del equipo de afilado que los granos de arena recomendados de piedra produzcan nuestro RZ y las recomendaciones de aspereza de RA

PISTON SURFACE TREATMENT

TRATAMIENTO SUPERFICIAL DEL PISTON

Pistons from many late model engines have added piston skirt coatings to reduce friction and cylinder wall clearance. Anodized piston heads to deflect heat are also becoming more common. Whenever original equipment pistons have these surface treatments for a specific application, NPR pistons will also have moly skirts and/or anodized heads. It is important to note that pistons with moly skirts require tighter cylinder wall clearances. Please refer to the piston “Piston Buyers Guide” beginning on page 267 for specific cylinder wall recommendations for each piston part number.

Pistones de modelos recientes han agregado capas a la falda del piston para reducir la friccion y la holgura de la pared del cilindro. Pistones con cabeza anodizado para disipar el calor tambien estan siendo mas comunes. Cuando el piston de equipo original tenga este tipo de tratamientos para una aplicacion en especifico, los pistones de NPR tambien tendran faldas de molibdeno y/o cabezas anodizadas. Es importante resaltar que pistones con faldas de molibdeno requieren una holgura mas apretada en la pared del cilindro. Por favor de referirse a la seccion “Piston Buyers Guide” iniciando en la pagina 267 Para recomendaciones especificas de la pared del cilindro para cada numero de piston en especifico.



Abbreviation & Words on this catalog.

1 Cyl Pkg	1 Cylinder Package.
1 Cyl Set	1 Cylinder is 1 Engine Set.
1 st Cr Plt	1 st ring is Chrome Plated.
1 st -Plt	1 st ring is Plated.
1 st -Steel	1 st ring is Steel.
1 st -GN	1 st ring is Gas Nitrided.
1 st -HKS	1 st ring is Half Keystone.
1 st -IB	1 st ring is Inner bevel.
1 st -KS	1 st ring is Keystone.
1 st -KSGN	1 st ring is Keystone & Gas Nitrided.
1 st -SPRYD	1 st ring is Sprayed
2 nd ESTUC	2 nd ring is Effective Seal Taper Under Cut.
2 nd ESUC	2 nd ring is Effective Seal Under Cut.
2 nd -IC	2 nd ring is Inner Cut.
2 nd -HKS	2 nd ring is Half Keystone.
2 nd -Plt	2 nd ring is Plated.
4WD	Four Wheel Drive.
All Plt	All Surface are Plated.
C & F	Engine is Carburetor or Fuel Injection.
CALIF. E.C.S.	California Emission Control System.
CARB.	Carburetor Engine.
CYL #1, 3	For Cylinders 1 and 3 only.
CYL #1,3,5	For Cylinders 1, 3 and 5 only.
CYL #2, 4	For Cylinders 2 and 4 only.
CYL #2,4,6	For Cylinders 2, 4, and 6 only.
D.O.H.C	Dual Over Head Cam.
Diesel	Diesel Engine.
F.I.	Fuel Injection Engine.
F.W.D	Front Wheel Drive.
FRONT	Front side of engine bank only.
FUEL Pkg	Fuel Package.
Left	Left-hand side of engine bank only.
O1	Oil Control Ring #1
O2	Oil Control Ring #2
O.H.V.	Over Head Valve.
R.W.D.	Rear Wheel Drive.
Right	Right hand side of engine bank only.
S.O.H.C.	Single Over Head Cam
TBA	To Be Announced
W/	With.
W/o	Without.
(Forklift)	This Piston Ring is used for Forklift engine, too.

Limited Warranty

1. NPR of AMERICA, Inc. warrants to the original owner that all engine products sold are free from any defects in material or workmanship for a period of 5 years or 60,000 miles from the date of purchase, whichever occurs first, subject to the following conditions:
 - a) NPR of America, Inc. warranty is only valid when NPR engine products are sold and installed as sets.
 - b) NPR of AMERICA, LLC disclaims all warranties, express or implied unless the customer receives authorization from NPR of AMERICA, LLC
 - c) Subject to the provisions of subparagraph (d), NPR of AMERICA, LLC. shall, at its option, repair or replace any parts within the warranty term. Authorized repairs will paid at the Mitchell Labor Estimating Guide rate of \$20.00 (Twenty Dollars) per hour or 3 (Three) times the purchase cost of the failed part, whichever is the least.
 - d) This warranty shall not apply to our include any of the following:
 - I) Repair or replacement following any accident, misuse, collision, upset or comprehensive insurance claim.
 - II) Any parts that have been subjected to speed trials, racing, competition time trials, and commercial application or off road use.
 - III) Any parts that have been modified or altered or to which a device or accessory not recommended by the **original manufacturer has been installed.**
 - e) To the extent permitted by the law, the parties agree that this warranty shall be IN LIEU OF WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No dealer, or any agent or employee thereof, is authorized to extend or enlarge this warranty. ANY STATEMENTS BY SUCH DEALERS, AGENTS OR EMPLOYEES DO NOT CONSTITUTE WARRANTIES, shall not be relied on by the buyer and are not part of the contract for sale. If notwithstanding this paragraph, a warranty is implied by law, such warranties shall be limited to the duration of this written warranty as set out in paragraph 1 above. Some states do not allow limitations on implied warranties, so the above limitation may not apply to you. Warranty shall cover the cost of the failed part, and not the replacement cost of the said part.
2. LIMITED LIABILITY: As stated previously, the liability of NPR of AMERICA, Inc. under this WARRANTY IS LIMITED SOLELY TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS OR WORKMANSHIP subject to the conditions described elsewhere within this warranty. NPR of AMERICA, Inc. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL, or EXEMPLARY DAMAGES, or for any service not expressly provided for, relating to the use from NPR of AMERICA, Inc. products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you special legal rights that vary from state to state.

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PISTON, RINGS - U.S. APPLICATIONS



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U.S. APPLICATIONS

PISTON RINGS

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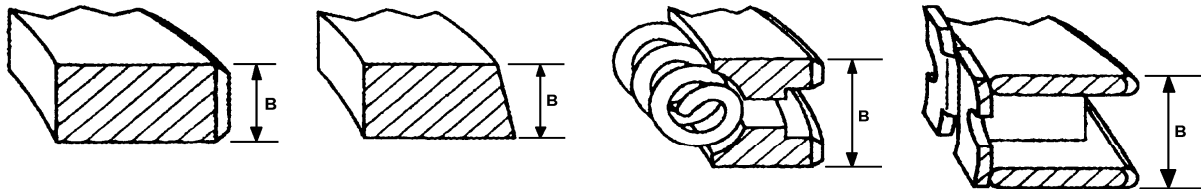
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PISTONS

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12	13	14	15	16	17	18	19	20	21
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Piston Ring B: Width



- 1: Engine Displacement by Cubic-Centimeter.
- 2: Engine Displacement by Liter.
- 3: Engine Displacement by Cubic-Inch.
- 4: Model Name (Application).
- 5: Year.
- 6: Number of Cylinder.
- 7: Engine Code Number.
- 8: Engine Type.
- 9: Cam Type.
- 10: Piston Ring Reference Number.
- 11: NOA's Piston Ring Part Number.
- 12: Piston Reference Number.
- 13: NOA's Piston Part Number.
- 14: Page # for Piston Buyer's Guide
- 15: Cylinder Diameter.
- 16: 1st Compression Ring - B = Width (h1).
- 17: 2nd Compression Ring - B = Width (h1).
- 18: 3rd Compression Ring - B = Width (h1).
- 19: 1st Oil Control Ring - B = Width (h1).
- 20: 2nd Oil Control Ring - B = Width (h1).
- 21: Remark (ex, Grade of Vehicle, Number of Valve, V-tech, Turbo, etc.).

On Domestic Vehicle pages (Chrysler, Ford, GMC) , you can see INCH size, too.

Important! This US Application Catalog is Organized in Engine Displacement Sequence.

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
ACURA										
1496	1.5L	91	ILX HYBRID	2013 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RW0-004	SWH30479
1590	1.6L	97	INTEGRA	1986 - 1987	4	D16A1, 8	F.I.	D.O.H.C.	13011-PJ1-752	SWH30365
1590	1.6L	97	INTEGRA	1988 - 1989	4	D16A1, 8	F.I.	D.O.H.C.	13011-PM6-G02	SWH30362
1678	1.7L	102	INTEGRA	1991 - 1993	4	B17A1	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1797	1.8L	110	INTEGRA	1994 - 2001	4	B18C5	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1797	1.8L	110	INTEGRA	1994 - 2001	4	B18C1	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1835	1.8L	112	INTEGRA	1990 - 1991	4	B18A1	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1835	1.8L	112	INTEGRA	1992 - 1993	4	B18A1	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1835	1.8L	112	INTEGRA	1994 - 1999	4	B18B1	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1997	2.0L	122	ILX	2013 - 2015	4	R20A3	F.I.	S.O.H.C.	13011-R9A-A01	SWH30484*
1998	2.0L	122	RSX	2002 - 2005	4	K20A2	F.I.	D.O.H.C.	13011-PNE-G02	SWH30454
1998	2.0L	122	RSX	2005 - 2006	4	K20Z1	F.I.	D.O.H.C.	13011-PNE-G02	SWH30454
2156	2.2L	132	CL	1997 ONLY	4	F22B1	F.I.	S.O.H.C.	13011-P0A-A04	SWH30383
2260	2.3L	138	CL	1998 - 1999	4	F23A1	F.I.	S.O.H.C.	13011-P8A-A01	SWH30443
2300	2.3L	140	RDX	2007 - 2012	4	K23A1	F.I.	D.O.H.C.	13011-RWC-A01	NA
2354	2.4L	144	TLX	2014 - 2016	4	K24W7	F.I.	D.O.H.C.	-	NA
2354	2.4L	144	TSX	2008 - 2011	4	K24Z3	F.I.	D.O.H.C.	13011-RL5-A02	SWH30467
2354	2.4L	144	ILX	2013 - 2015	4	K24Z7	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	TSX	2012 - 2015	4	K24Z3	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	TSX SPORT WAGON	2012 - 2015	4	K24Z3	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	TSX	2004 - 2008	4	K24A2	F.I.	D.O.H.C.	13011-RBB-006	SWH30435
2456	2.5L	150	VIGOR	1992 - 1994	5	G25A1	F.I.	S.O.H.C.	13011-PV1-003	SWH30367
2456	2.5L	150	TL	1996 ONLY	5	G25A4	F.I.	S.O.H.C.	13011-P1R-004	NA
2456	2.5L	150	TL	1997 - 1998	5	G25A4	F.I.	S.O.H.C.	13011-P1R-004	NA
2494	2.5L	152	LEGEND	1986 - 1987	V6	C25A1	F.I.	S.O.H.C.	13011-PH7-004	SWH30369
2675	2.7L	163	LEGEND	1987 - 1990	V6	C27A1	F.I.	S.O.H.C.	13011-P0G-A01	SWH30370

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
13010-RW0-000	NA		73.00	1.00	1.00		2.00		8 VALVE
13101-PG6-000	DISC. 11-501		75.00	1.20	1.50		2.80		16 VALVE
13101-P29-000	11-502	287	75.00	1.20	1.50		2.80		16 VALVE
13101-P61-A00	NA		81.00	1.00	1.20		2.80		GS-R, 16 VALVE
13010-P73-A00	11-743	318	81.00	1.00	1.20		2.80		TYPE-R MODELS, 16 VALVE
13010-P72-A00	11-754	320	81.00	1.00	1.20		2.80		GS-R+B120, w/ VTECH, 16 VALVE
13101-PR4-A00	NA		81.00	1.00	1.20		2.80		16 VALVE
13101-PR4-000	11-753	320	81.00	1.00	1.20		2.80		16 VALVE
13010-P54-000	11-733	315	81.00	1.00	1.20		2.80		GS, LS, RS, SE, w/o VTECH, 16 VALVE
13010-R1P-H00	NA		81.00	1.20	1.20		2.00		16 VALVE
13010-PNC-000	11-866	341	86.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-PNC-010	11-866	341	86.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-P1E-000	11-757	321	85.00	1.20	1.20		2.80		16 VALVE
13010-PAA-A00	11-781	325	86.00	1.20	1.20		2.80		16 VALVE
13010-RWC-A00	NA		86.00	1.50	1.20		2.00		w/ i-VTECH, w/ TURBO, 16 VALVE
-	NA		87.00						16 VALVE
13010-RL5-A00	NA		87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RL5-A10	NA		87.00	1.20	1.20		2.00		16 VALVE
13010-RL5-A10	NA		87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RL5-A10	NA		87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13011-RBB-A00	NA		87.00	1.20	1.20		2.50		w/ i-VTECH, 16 VALVE
13101-PV1-A00	NA		85.00	1.20	1.20		2.80		20 VALVE
13010-P1R-A00	DISC. 11-782		85.00	1.20	1.20		2.80		20 VALVE
13010-P1R-A01	DISC. 11-782		85.00	1.20	1.20		2.80		20 VALVE
13101-PH7-000	DISC. 11-506		84.00	1.20	1.20		4.00		24 VALVE
13101-PL2-000	DISC. 11-783		87.00	1.20	1.20		4.00		24 VALVE

ACURA

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
ACURA										
2977	3.0L	182	NSX	1991 - 2005	V6	C30A	F.I.	D.O.H.C.	13011-PR7-A02	SWH30368
2977	3.0L	182	NSX	1991 - 2005	V6	C30A	F.I.	D.O.H.C.	13011-PR7-A02	SWH30368
2977	3.0L	182	NSX-T	1991 - 2005	V6	C30A	F.I.	D.O.H.C.	13011-PR7-A02	SWH30368
2977	3.0L	182	NSX-T	1991 - 2005	V6	C30A	F.I.	D.O.H.C.	13011-PR7-A02	SWH30368
2997	3.0L	183	CL	1997 - 1999	V6	J30A1	F.I.	S.O.H.C.	13011-P8A-A01	SWH30432
3165	3.2L	193	SLX	1996 - 1997	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3179	3.2L	194	NSX	1997 - 2005	V6	C32B	F.I.	D.O.H.C.	-	NA
3179	3.2L	194	NSX	1997 - 2005	V6	C32B	F.I.	D.O.H.C.	-	NA
3179	3.2L	194	NSX-T	1997 - 2005	V6	C32B	F.I.	D.O.H.C.	-	NA
3179	3.2L	194	NSX-T	1997 - 2005	V6	C32B	F.I.	D.O.H.C.	-	NA
3206	3.2L	196	LEGEND	1991 - 1993	V6	C32A1	F.I.	S.O.H.C.	13011-PY3-003	SWH30371
3206	3.2L	196	LEGEND	1994 - 1995	V6	C32A1	F.I.	S.O.H.C.	13011-PY3-003	SWH30371
3206	3.2L	196	TL	1996 - 1998	V6	C32A1	F.I.	S.O.H.C.	13011-P5G-004	SWH30371
3210	3.2L	196	TL	1999 ONLY	V6	J32A1	F.I.	S.O.H.C.	13011-P8F-A01	SWH30438
3210	3.2L	196	CL	2000 - 2003	V6	J32A1	F.I.	S.O.H.C.	13011-P8F-A01	SWH30438
3210	3.2L	196	TL	2000 - 2008	V6	J32A2, 3	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3210	3.2L	196	CL-S	2000 - 2003	V6	J32A2	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3210	3.2L	196	TL-S	2002 - 2003	V6	J32A2	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	MDX	2001 - 2002	V6	J35A3	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	MDX	2003 - 2006	V6	J35A1	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	TL	2004 - 2008	V6	J35A3	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	MDX	2013 - 2015	V6	J35Y5	F.I.	S.O.H.C.	-	NA
3471	3.5L	212	RLX	2013 - 2015	V6	J35Y4	F.I.	S.O.H.C.	-	NA
3471	3.5L	212	TLX	2014 - 2016	V6	J35Y6	F.I.	S.O.H.C.	-	NA
3471	3.5L	212	RDX	2013 - 2015	V6	J35A6	F.I.	S.O.H.C.	13011-5G0-A01	SWH30438*
3471	3.5L	212	RL	2005 - 2008	V6	J35A8	F.I.	S.O.H.C.	13011-RJA-004	SWH30438
3471	3.5L	212	TL-S	2007 - 2008	V6	J35A8	F.I.	S.O.H.C.	13011-RJA-004	SWH30438
3471	3.5L	212	TL	2009 - 2011	V6	J35Z6	F.I.	S.O.H.C.	13011-R70-A02	SWH30438
3471	3.5L	212	TL	2012 - 2015	V6	J35Z6	F.I.	S.O.H.C.	13011-5G0-A01	SWH30438*
3471	3.5L	212	TSX	2009 - 2015	V6	J35Z6	F.I.	S.O.H.C.	13021-R70-A01	SWH30438
3471	3.5L	212	TSX SPORT WAGON	2012 - 2015	V6	J35Z6	F.I.	S.O.H.C.	13021-R70-A01	SWH30438
3474	3.5L	212	RL	1996 - 2004	V6	C35A1	F.I.	S.O.H.C.	13011-P5A-004	NA
3494	3.5L	213	SLX	1998 - 1999	V6	6VE1	F.I.	S.O.H.C.	8-97136-135-0	SWI10191

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
ACURA									
13200-PR7-A00	NA		90.00	1.20	1.20		2.80		FRONT, w/ VTECH, 24 VALVE
13250-PR7-A00	NA		90.00	1.20	1.20		2.80		REAR, w/ VTECH, 24 VALVE
13200-PR7-A00	NA		90.00	1.20	1.20		2.80		FRONT, w/ VTECH, 24 VALVE
13250-PR7-A00	NA		90.00	1.20	1.20		2.80		REAR, w/ VTECH, 24 VALVE
13010-P8A-000	11-791	326	86.00	1.20	1.20		2.80		24 VALVE
8-97104-386-0	11-685	307	93.40	1.50	1.50		4.00		24 VALVE
-	NA		93.00						FRONT, w/ VTECH, 24 VALVE
-	NA		93.00						REAR, w/ VTECH, 24 VALVE
-	NA		93.00						FRONT, w/ VTECH, 24 VALVE
-	NA		93.00						REAR, w/ VTECH, 24 VALVE
13101-PY3-A02	NA		90.00	1.20	1.20		2.80		24 VALVE
13102-PY3-A02	NA		90.00	1.20	1.20		2.80		24 VALVE
13010-PY3-A00	NA		90.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-P8E-A00	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-P8E-L00	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-P8E-L00	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-PGE-A01	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-PGE-A01	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-PGK-A01	11-836	334	89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13101-RGL-100	11-836	334	89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-RDA-A00	11-836*	334	89.00	1.20	1.20		2.80		24 VALVE
-	NA		89.00						w/ VTECH, 24 VALVE
-	NA		89.00						24 VALVE
-	NA		89.00						24 VALVE
13010-R70-A10	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RJA-000	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RJA-000	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RK1-A00	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RK1-A00	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RK1-A00	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-RK1-A00	NA		89.00	1.20	1.20		2.80		24 VALVE
13010-P5A-000	DISC. 11-796		90.00	1.50	1.20		2.80		24 VALVE
8-97136-315-3	11-793	326	93.40	1.50	1.50		3.00		24 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
AUDI										
1781	1.8L	109	A4	1997 - 1999	4	AEB	F.I.	D.O.H.C.	058 198 151 B	SWL03456
1781	1.8L	109	A4	2000 - 2006	4	AEB	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1781	1.8L	109	A4 AVANT	2000 - 2006	4	AEB	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1781	1.8L	109	TT	2000 - 2006	4	ATC, AMU	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1786	1.8L	109	4000	1985 - 1987	4	MG	CARB	S.O.H.C.	026 198 151 A	SWL02405
1984	2.0L	121	A3	2006 - 2012	4	ABK, AAD	F.I.	D.O.H.C.	06D 198 151 B	SWL03461
1984	2.0L	121	A4	2005 - 2012	4	ADY, ABA	F.I.	D.O.H.C.	06D 198 151 G	SWL03461
1984	2.0L	121	A4 AVANT	2005 - 2012	4	ADY, ABA	F.I.	D.O.H.C.	06D 198 151 G	SWL03461
1984	2.0L	121	A5	2010 - 2012	4	ADY, ABA	F.I.	D.O.H.C.	06D 198 151 G	SWL03461
1984	2.0L	121	Q5	2011 - 2012	4	ADY, ABA	F.I.	D.O.H.C.	06D 198 151 G	SWL03461
1984	2.0L	121	TT	2008 - 2012	4	ABK, AAD	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
2671	2.7L	163	A6	2000 - 2004	V6	APB	F.I.	D.O.H.C.	058 198 151 B*	SWL03340 6CYL
2671	2.7L	163	ALLROAD	2001 - 2005	V6	APB	F.I.	D.O.H.C.	058 198 151 B*	SWL03340 6CYL
2671	2.7L	163	S4	2000 - 2002	V6	APB	F.I.	D.O.H.C.	058 198 151 B*	SWL03340 6CYL
2771	2.8L	169	100	1992 - 1994	V6	AAH	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A6	1995 ONLY	V6	AAH	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A4	1996 - 1998	V6	AFC	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A6	1996 - 1997	V6	AFC	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	CABRIOLET	1996 - 1998	V6	AFC	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A4	1998 - 2001	V6	AHA	F.I.	D.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A4 AVANT	1998 - 2001	V6	AHA	F.I.	D.O.H.C.	06A 198 151 C	SWL03296 6CYL
2771	2.8L	169	A6	1998 - 2001	V6	AHA	F.I.	D.O.H.C.	06A 198 151 C	SWL03296 6CYL
2976	3.0L	182	A4	2002 - 2006	V6	AVK, BGN	F.I.	D.O.H.C.	06C 198 151 B	SWL03296 6CYL
2976	3.0L	182	A4 AVANT	2002 - 2006	V6	AVK, BGN	F.I.	D.O.H.C.	06C 198 151 B	SWL03296 6CYL
2976	3.0L	182	A6	2002 - 2004	V6	AVK	F.I.	D.O.H.C.	06C 198 151 B	SWL03296 6CYL
2976	3.0L	182	A6 AVANT	2002 - 2004	V6	AVK	F.I.	D.O.H.C.	06C 198 151 B	SWL03296 6CYL
3123	3.1L	191	A4	2005 - 2009	V6	AUK	F.I.	D.O.H.C.	06E 198 151 B	TBA
3123	3.1L	191	A4 AVANT	2005 - 2009	V6	AUK	F.I.	D.O.H.C.	06E 198 151 B	TBA
3123	3.1L	191	A6	2005 - 2008	V6	AUK	F.I.	D.O.H.C.	06E 198 151 B	TBA
3123	3.1L	191	A6 AVANT	2005 - 2008	V6	AUK	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
AUDI - CONTINUED										

PISTONS

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AUDI

PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
058 107 065 F	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
06A 107 065 J	X		81.00	1.50	1.75		2.00		20 VALVE
026 107 065 R	X		81.00	1.50	1.75		3.00		8 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		16 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		16 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		16 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
078 107 065 AN	X		81.00	1.20	1.50		2.00		30 VALVE
078 107 065 AN	X		81.00	1.20	1.50		2.00		30 VALVE
078 107 065 AN	X		81.00	1.20	1.50		2.00		30 VALVE
078 107 065 G	X		82.50	1.20	1.50		2.00		12 VALVE
078 107 065 G	X		82.50	1.20	1.50		2.00		12 VALVE
078 107 065 AH	X		82.50	1.20	1.50		2.00		12 VALVE
078 107 065 AH	X		82.50	1.20	1.50		2.00		12 VALVE
078 107 065 AH	X		82.50	1.20	1.50		2.00		12 VALVE
078 107 065 AF	X		82.50	1.20	1.50		2.00		30 VALVE
078 107 065 AF	X		82.50	1.20	1.50		2.00		30 VALVE
078 107 065 AF	X		82.50	1.20	1.50		2.00		30 VALVE
06C 107 065 M	X		82.50	1.20	1.50		2.00		30 VALVE
06C 107 065 M	X		82.50	1.20	1.50		2.00		30 VALVE
06C 107 065 M	X		82.50	1.20	1.50		2.00		30 VALVE
06C 107 065 M	X		82.50	1.20	1.50		2.00		30 VALVE
06E 107 065 M	X		84.50	1.20	1.50		2.00		CYL #1,2,3, 24 VALVE
06E 107 065 M	X		84.50	1.20	1.50		2.00		CYL #1,2,3, 24 VALVE
06E 107 065 M	X		84.50	1.20	1.50		2.00		CYL #1,2,3, 24 VALVE
06E 107 065 M	X		84.50	1.20	1.50		2.00		CYL #1,2,3, 24 VALVE
079 107 066 AS	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 AS	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 AS	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 AS	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE

AUDI - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
AUDI										
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
4163	4.2L	254	RS 4	2007 - 2008	V8	079.D	F.I.	D.O.H.C.	079 103 171 AH	TBA
4163	4.2L	254	S5	2009 - 2010	V8	079.D	F.I.	D.O.H.C.	077 198 151 L	TBA
4163	4.2L	254	S5	2009 - 2010	V8	079.D	F.I.	D.O.H.C.	077 198 151 L	TBA
4163	4.2L	254	A8	2007 - 2012	V8	079.D	F.I.	D.O.H.C.	077 198 151 K	TBA
4163	4.2L	254	A8	2007 - 2012	V8	079.D	F.I.	D.O.H.C.	077 198 151 K	TBA
4163	4.2L	254	Q7	2007 - 2010	V8	079.D	F.I.	D.O.H.C.	077 198 151 L	TBA
4163	4.2L	254	Q7	2007 - 2010	V8	079.D	F.I.	D.O.H.C.	077 198 151 L	TBA
4163	4.2L	254	R8	2008 - 2012	V8	079.D	F.I.	D.O.H.C.	077 198 151 M	TBA
4163	4.2L	254	R8	2008 - 2012	V8	079.D	F.I.	D.O.H.C.	077 198 151 M	TBA
4163	4.2L	254	A6	2005 - 2012	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	A6	2005 - 2012	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	A6 AVANT	2005 - 2012	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	A6 AVANT	2005 - 2012	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	ALLROAD	2003 - 2005	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	ALLROAD	2003 - 2005	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	S4	2004 - 2008	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
4163	4.2L	254	S4	2004 - 2008	V8	079.D	F.I.	D.O.H.C.	06E 198 151 B	TBA
AUDI - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
1368	1.4L	83	DART	2013 - 2015	4	FIRE 1.4	F.I.	S.O.H.C.	68149737AB	NA
1410	1.4L	86	CHAMP	1979 - 1982	4	G12B	CARB	S.O.H.C.	MD031700	SWM31027
1410	1.4L	86	COLT	1979 - 1984	4	G12B	CARB	S.O.H.C.	MD031700	SWM31027
1468	1.5L	90	COLT	1985 - 1986	4	G15B	CARB	S.O.H.C.	MD074725	SWM31063
1468	1.5L	90	COLT	1987 - 1990	4	G15B	CARB	S.O.H.C.	MD074725	SWM31063
1468	1.5L	90	SUMMIT	1989 - 1990	4	4G15	F.I.	S.O.H.C.	MD074725	SWM31063
1468	1.5L	90	COLT	1991 - 1994	4	4G15	F.I.	S.O.H.C.	MD180804	SWM31077
1468	1.5L	90	SUMMIT	1991 - 1995	4	4G15	F.I.	S.O.H.C.	MD180804	SWM31077
1468	1.5L	90	SUMMIT	1995 ONLY	4	4G15	F.I.	S.O.H.C.	MD180804	SWM31077
1468	1.5L	90	SUMMIT	1996 ONLY	4	4G15	F.I.	D.O.H.C.	MD180804	SWM31077
1597	1.6L	97	ARROW	1976 - 1977	4	G32B	CARB	S.O.H.C.	MD110632	SWM31005
1597	1.6L	97	CHALLENGER	1978 - 1980	4	G32B	CARB	S.O.H.C.	MD110632	SWM31005
1597	1.6L	97	CHAMP	1978 - 1982	4	G32B	CARB	S.O.H.C.	MD110632	SWM31005
1597	1.6L	97	COLT	1979 - 1984	4	G32B	CARB	S.O.H.C.	MD110632	SWM31005
1597	1.6L	97	COLT	1984 - 1986	4	G32B	F.I.	S.O.H.C.	MD012765	SWM31043
1597	1.6L	97	COLT	1987 - 1990	4	G32B	F.I.	S.O.H.C.	MD012765	SWM31043
1597	1.6L	97	COLT	1989 - 1990	4	4G61	F.I.	D.O.H.C.	MD133495	SWM31049
1597	1.6L	97	SUMMIT	1989 - 1990	4	4G61	F.I.	D.O.H.C.	MD133495	SWM31049
1715	1.7L	105	OMNI	1978 - 1983	4	VW 1.7	CARB	S.O.H.C.	4186268	SWL01402
1715	1.7L	105	HORIZON	1978 - 1984	4	VW 1.7	CARB	S.O.H.C.	4186268	SWL01402
1715	1.7L	105	TC3	1982 ONLY	4	VW 1.7	CARB	S.O.H.C.	4186268	SWL01402
1715	1.7L	105	TURISMO	1983 ONLY	4	VW 1.7	CARB	S.O.H.C.	4186268	SWL01402
1755	1.8L	107	COLT	1989 - 1990	4	4G37	F.I.	S.O.H.C.	MD040465	SWM31041
1755	1.8L	107	LASER	1989 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	SWM31041
1755	1.8L	107	TALON	1993 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	SWM31041
1798	1.8L	110	CALIBER	2006 - 2009	4	GEMA 1.8	F.I.	D.O.H.C.	5191418AB	SWG30042
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
68149734AA	X		72.00						FIAT Engine, w/ TURBO, Multiair, 16 VALVE
			2.835	0.000	0.000		0.000		
MD030322	11-020	276	74.00	1.50	1.50		4.00		12 VALVE
MD030322	11-020	276	2.913	0.059	0.059		0.157		12 VALVE
MD074715	11-529	290	75.50	1.50	1.50		4.00		12 VALVE
			2.972	0.059	0.059		0.157		
MD099770	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
MD099770	11-530	290	2.972	0.059	0.059		0.157		8 VALVE
MD144901	11-531	290	75.50	1.20	1.50		3.00		12 VALVE
MD144901	11-531	290	2.972	0.047	0.059		0.118		12 VALVE
MD314825	NA		75.50	1.20	1.50		3.00		w/CALIF E.C.S.
			2.972	0.047	0.059		0.118		
MD320441	NA		75.50	1.20	1.50		3.00		12 VALVE
			2.972	0.047	0.059		0.118		
MD009521	DISC. 11-023		76.90	2.00	2.00		4.00		
MD009521	DISC. 11-023		3.028	0.079	0.079		0.157		
MD009521	DISC. 11-023								
MD009521	DISC. 11-023								AUTO TRANS
MD074471	DISC. 11-024		76.90	1.50	1.50		4.00		STD TRANS, w/ TURBO
			3.028	0.059	0.059		0.157		
MD100254	DISC. 11-532		76.90	1.50	1.50		4.00		w/ TURBO
			3.028	0.059	0.059		0.157		
MD129932	DISC. 11-546		82.30	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD129932	DISC. 11-546		3.240	0.047	0.059		0.118		w/ TURBO, 16 VALVE
4186275	X		79.50	1.75	2.00		4.00		
4186275	X		3.130	0.069	0.079		0.157		
4186275	X								
4186275	X								
MD100416	11-545	292	80.60	1.50	1.50		4.00		8 VALVE
MD100416	11-545	292	3.173	0.059	0.059		0.157		8 VALVE
MD100416	11-545	292							8 VALVE
-	X		86.00	1.20	1.20		2.00		16 VALVE
			3.386	0.047	0.047		0.079		
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1834	1.8L	112	SUMMIT	1991 - 1992	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	COLT VISTA	1992 ONLY	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	SUMMIT	1991 - 1992	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	COLT	1994 ONLY	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	COLT VISTA	1993 - 1994	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	SUMMIT	1993 - 1996	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1994	2.0L	122	ARROW	1976 - 1978	4	G52B	CARB	S.O.H.C.	MD021070	SWM30074
1994	2.0L	122	ARROW PICKUP	1979 - 1982	4	G52B	CARB	S.O.H.C.	MD021070	SWM30074
1994	2.0L	122	RAM 50	1979 - 1982	4	G52B	CARB	S.O.H.C.	MD021070	SWM30074
1996	2.0L	122	NEON	1995 ONLY	4	420A	F.I.	D.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	1995 - 1996	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	STRATUS	1995 - 1996	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	AVENGER	1995 - 2000	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	CIRRUS	1995 - 2000	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	NEON	1995 - 2000	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	SEBRING	1995 - 2000	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	STRATUS	1995 - 2000	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	TALON	1995 - 1998	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1996	2.0L	122	TALON	1995 - 1998	4	420A	F.I.	D.O.H.C.	4741401	SWM31120
1996	2.0L	122	BREEZE	1995 - 2000	4	A588	F.I.	S.O.H.C.	M04741401	SWM31120
1996	2.0L	122	CIRRUS	2000 ONLY	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	1995 - 2000	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	BREEZE	2000 ONLY	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	CIRRUS	2000 ONLY	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	2001 - 2002	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	STRATUS	1995 - 2000	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	STRATUS	1998 - 2000	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	2002 ONLY	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	2003 - 2006	4	A588	F.I.	S.O.H.C.	4741401	SWM31120
1996	2.0L	122	NEON	2003 - 2006	4	A588	F.I.	S.O.H.C.	4741401	SWM31120

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
JEEP, PLYMOUTH, RAM									
MD174995	NA		81.00	1.20	1.20		2.80		WAGON, - 5/1/91
			3.189	0.047	0.047		0.110		
MD183457	DISC. 11-548		81.00	1.20	1.20		2.80		16 VALVE
MD183457	DISC. 11-548		3.189	0.047	0.047		0.110		WAGON, 5/1/91 -
MD318097	11-767	322	81.00	1.20	1.20		2.80		16 VALVE
MD318097	11-767	322	3.189	0.047	0.047		0.110		16 VALVE
MD318097	11-767	322							Inc. Wagon
MD021192	DISC. 11-026		84.00	2.00	2.00		4.00		
MD021192	DISC. 11-026		3.307	0.079	0.079		0.157		
MD021192	DISC. 11-026								
4741372	X		87.50	1.20	1.20		3.00		
			3.445	0.047	0.047		0.118		
4796059	X		87.50	1.20	1.20		3.00		w/ CALIF E.C.S.
4796059	X		3.445	0.047	0.047		0.118		w/ CALIF E.C.S.
M04797613	11-735	316	87.50	1.20	1.20		3.00		16 VALVE
M04797613	11-735	316	3.445	0.047	0.047		0.118		16 VALVE
M04797613	11-735	316							16 VALVE
M04797613	11-735	316							16 VALVE
M04797613	11-735	316							16 VALVE
M04797613	11-735	316							16 VALVE
4797613	11-735	316							Normally Aspirated, 16 VALVE
M04773975	X		87.50	1.20	1.20		3.00		16 VALVE
			3.445	0.047	0.047		0.118		
4773975	X		87.50	1.20	1.20		3.00		16 VALVE
4773975	X		3.445	0.047	0.047		0.118		16 VALVE
4897642AB	X		87.50	1.20	1.20		3.00		w/ CALIF E.C.S.
4897642AB	X		3.445	0.047	0.047		0.118		w/ CALIF E.C.S.
4897642AB	X								w/ CALIF E.C.S.
4897642AB	X								w/ CALIF E.C.S.
4897642AB	X								w/ CALIF E.C.S.
5018767AA	X		87.50	1.20	1.20		3.00		
			3.445	0.047	0.047		0.118		
5086925AA	X		87.50	1.20	1.20		3.00		SE, SXT
			3.445	0.047	0.047		0.118		
5086926AA	X		87.50	1.20	1.20		3.00		R/T
			3.445	0.047	0.047		0.118		

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1997	2.0L	122	COLT VISTA	1984 - 1986	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	OMNI	1984 - 1985	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	RAM 50	1983 - 1986	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	COLT VISTA	1987 - 1991	4	G63B	F.I.	S.O.H.C.	MD100467	SWM31044
1997	2.0L	122	RAM 50	1987 - 1989	4	G63B	F.I.	S.O.H.C.	MD100467	SWM31044
1997	2.0L	122	LASER	1989 - 1994	4	4G63	F.I.	D.O.H.C.	MD144245	SWM31048
1997	2.0L	122	TALON	1990 - 1992	4	4G63	F.I.	D.O.H.C.	MD144245	SWM31048
1997	2.0L	122	LASER	1989 - 1994	4	4G63	F.I.	D.O.H.C.	MD140923	SWM31048
1997	2.0L	122	TALON	1990 - 1992	4	4G63	F.I.	D.O.H.C.	MD140923	SWM31048
1997	2.0L	122	LASER	1992 - 1994	4	4G63	F.I.	D.O.H.C.	MD195867	SWM31071
1997	2.0L	122	TALON	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD195867	SWM31071
1997	2.0L	122	LASER	1992 - 1994	4	4G63	F.I.	D.O.H.C.	MD176437	SWM31071
1997	2.0L	122	TALON	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD176437	SWM31071
1997	2.0L	122	TALON	1995 - 1998	4	4G63	F.I.	D.O.H.C.	MD313405	SWM31103
1998	2.0L	122	CALIBER	2006 - 2012	4	GEMA 2.0	F.I.	D.O.H.C.	5191418AB	SWG30042
1998	2.0L	122	COMPASS	2007 - 2015	4	GEMA 2.0	F.I.	D.O.H.C.	5191418AB	SWG30042
1998	2.0L	122	PATRIOT	2007 - 2015	4	GEMA 2.0	F.I.	D.O.H.C.	5191418AB	SWG30042
1998	2.0L	122	DART	2013 - 2015	4	TIGERSHARK 2.0	F.I.	D.O.H.C.	68165801AA	NA
2212	2.2L	135	HORIZON	1984 ONLY	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	RELIANT	1981 - 1984	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	TC3	1982 ONLY	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	TURISMO	1984 ONLY	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	600	1984 - 1985	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	CARAVELLE	1985 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	CHARGER	1985 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	DAYTONA	1984 - 1985	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	E CLASS	1984 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LANCER	1985 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LASER	1984 - 1985	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LeBARON	1984 - 1985	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LeBARON GTS	1985 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	NEW YORKER	1984 - 1985	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	OMNI	1985 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
MD040591	11-027	276	85.00	2.00	2.00		4.00		12 VALVE
MD040591	11-027	276	3.346	0.079	0.079		0.157		12 VALVE
MD040591	11-027	276							12 VALVE
MD100372	11-539	291	85.00	1.50	1.50		4.00		12 VALVE
MD100372	11-539	291	3.346	0.059	0.059		0.157		12 VALVE
MD129922	11-540	291	85.00	1.20	1.50		3.00		16 VALVE
MD129922	11-540	291	3.346	0.047	0.059		0.118		16 VALVE
MD129923	11-546	292	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD129232	11-546	292	3.346	0.047	0.059		0.118		w/ TURBO, 16 VALVE
MD190262	11-718	312	85.00	1.20	1.50		3.00		16 VALVE
MD190262	11-718	312	3.346	0.047	0.059		0.118		16 VALVE
MD308200	11-719	312	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD308200	11-719	312	3.346	0.047	0.059		0.118		w/ TURBO, 16 VALVE
MD307820	11-758	321	85.00	1.20	1.50		2.80		w/ TURBO, 16 VALVE
			3.346	0.047	0.059		0.110		
5191337AA	11-909	351	86.00	1.20	1.20		2.00		16 VALVE
5191337AA	11-909	351	3.386	0.047	0.047		0.079		16 VALVE
5191337AA	11-909	351							16 VALVE
68165765AA	X		88.00						16 VALVE
			3.465	0.000	0.000		0.000		
4186275	X		87.50	1.50	1.50		4.00		
4186275	X		3.445	0.059	0.059		0.157		
4186275	X								
4186275	X								
4271928	X		87.50	1.50	1.50		4.00		w/ TURBO
4271928	X		3.445	0.059	0.059		0.157		w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
4271928	X								w/ TURBO
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

2212	2.2L	135	600	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	CARAVELLE	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	CHARGER	1986 - 1987	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	DAYTONA	1986 - 1988	4	K 2.2T	C & F	S.O.H.C.	4411977	SWC10003
2212	2.2L	135	LANCER	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LASER	1986 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LeBARON	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LeBARON GTS	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	NEW YORKER	1986 - 1988	4	K 2.2T	C & F	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	OMNI	1986 ONLY	4	K 2.2T	CARB	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	RELIANT	1988 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SHADOW	1987 - 1988	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SUNDANCE	1987 - 1988	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	400	1982 - 1983	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	600	1983 - 1988	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	ACCLAIM	1990 - 1992	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	ARIES	1981 - 1988	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	CARAVAN	1984 - 1987	4	K 2.2	C & F	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	CARAVELLE	1985 - 1988	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	CHARGER	1983 - 1987	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	DAKOTA	1987 - 1988	4	K 2.2	F.I.	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	DAYTONA	1984 - 1986	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	DAYTONA	1990 - 1993	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	DYNASTY	1990 - 1993	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	E CLASS	1983 - 1984	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	HORIZON	1985 - 1990	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LANCER	1985 - 1988	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LASER	1984 - 1986	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LeBARON	1982 - 1990	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LeBARON GTS	1985 - 1988	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	Mini Ram Van	1984 - 1987	4	K 2.2	C & F	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	NEW YORKER	1983 - 1985	4	K 2.2	CARB	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	OMNI	1981 - 1990	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	RELIANT	1985 - 1988	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SHADOW	1987 - 1993	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SPIRIT	1990 - 1993	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SUNDANCE	1987 - 1988	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SUNDANCE	1990 - 1992	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SUNDANCE	1993 - 1994	4	K 2.2	F.I.	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	TURISMO	1985 - 1987	4	K 2.2	C & F	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	VOYAGER	1984 - 1987	4	K 2.2	C & F	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	Grand Caraven	1987 - 1988	4	K 2.2	F.I.	S.O.H.C.	4626575	SWC10003*
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
2212	2.2L	135	600	1987 - 1988	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	CHARGER	1987 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	DAYTONA	1987 - 1990	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LANCER	1987 - 1988	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SHADOW	1987 - 1990	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SPIRIT	1990 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	ARIES	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	DAYTONA	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	HORIZON	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LANCER	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	LeBARON	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	OMNI	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	RELIANT	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SHADOW	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	SUNDANCE	1989 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626636	SWC10003
2212	2.2L	135	CARAVAN	1990 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LeBARON	1989 - 1992	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	VOYAGER	1990 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	DAYTONA	1991 - 1993	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SHADOW	1991 - 1992	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SPIRIT	1991 - 1992	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SHADOW	1994 ONLY	4	K 2.2	F.I.	S.O.H.C.	4626575	SWC10003*
2212	2.2L	135	CARAVAN	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	DAYTONA	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	Grand Voyager	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	LANCER	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SHADOW	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	SPIRIT	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2212	2.2L	135	VOYAGER	1989 ONLY	4	K 2.2T	F.I.	D.O.H.C.	4411977	SWC10003
2346	2.3L	143	RAM 50	1983 - 1985	4	4D55	DIESEL		MD103391	SDM31038
2350	2.4L	143	COLT VISTA	1990 - 1992	4	4G64	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	RAM 50	1990 - 1993	4	4G64	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	SUMMIT	1992 ONLY	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	COLT VISTA	1993 - 1994	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	SUMMIT	1993 - 1996	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	STRATUS	2001 - 2005	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	SEBRING	2001 - 2005	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
5241059	X		87.50	1.50	1.50		4.00		w/ TURBO, Intercooler
5241059	X		3.445	0.059	0.059		0.157		w/ TURBO, Intercooler
5241059	X								w/ TURBO, Intercooler
5241059	X								w/ TURBO, Intercooler
5241059	X								w/ TURBO, Intercooler
5241059	X								w/ TURBO, Intercooler
4425207	X		87.50	1.50	1.50		4.00		
4425207	X		3.445	0.059	0.059		0.157		
4425207	X								
4425207	X								
4425207	X								
4425207	X								
4425207	X								
4425207	X								
4637664	X		87.50	1.50	1.50		4.00		w/ TURBO
4637664	X		3.445	0.059	0.059		0.157		w/ TURBO
4637664	X								w/ TURBO
4442960	X		87.50	1.50	1.50		4.00		w/ TURBO
4442960	X		3.445	0.059	0.059		0.157		w/ TURBO
4442960	X								w/ TURBO
4773796	X		87.50	1.50	1.50		4.00		
			3.445	0.059	0.059		0.157		
5241089	X		87.50	1.50	1.50		4.00		w/ TURBO
5241089	X		3.445	0.059	0.059		0.157		w/ TURBO
5241089	X								w/ TURBO
5241089	X								w/ TURBO
5241089	X								w/ TURBO
5241089	X								w/ TURBO
5241089	X								w/ TURBO
MD103308	11-028	277	91.10	2.50	2.00		4.00		
			3.587	0.098	0.079		0.157		
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD105377	11-538	291	3.406	0.059	0.059		0.157		12 VALVE
MD105377	11-538	291							WAGON, 12 VALVE
MD188115	11-709	311	86.50	1.20	1.50		2.80		
MD188115	11-709	311	3.406	0.047	0.059		0.110		WAGON
MD357066	11-804	328	86.50	1.20	1.50		2.80		COUPE, 16 VALVE
MD357067	11-804	328	3.406	0.047	0.059		0.110		COUPE, 16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

2359	2.4L	144	200	2011 - 2014	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	AVENGER	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	CALIBER	2006 - 2012	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	COMPASS	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	JOURNEY	2009 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	PATRIOT	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	SEBRING	2007 - 2010	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	SWG30041
2359	2.4L	144	200	2015 - 2016	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	NA
2359	2.4L	144	CHEROKEE	2014 - 2015	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	NA
2359	2.4L	144	DART	2013 - 2015	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	NA
2360	2.4L	144	CALIBER	2007 - 2009	4	GEMA 2.4T	F.I.	D.O.H.C.	68032259AB	NA
2429	2.4L	148	BREEZE	1998 - 1999	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	CARAVAN	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	CIRRUS	2000 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	SEBRING	1998 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	STRATUS	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	VOYAGER	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	Liberty	2002 - 2004	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	PT CRUISER	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	SEBRING	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	STRATUS	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	SWC10004
2429	2.4L	148	BREEZE	1997 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	CARAVAN	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	CIRRUS	1995 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	Grand Caraven	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	Grand Voyager	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	SEBRING	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	STRATUS	1995 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	CARAVAN	2001 - 2004	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	PT CRUISER	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	SEBRING	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	SEBRING	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	SEBRING	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007
2429	2.4L	148	SEBRING	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007
2429	2.4L	148	STRATUS	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	VOYAGER	2001 - 2003	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	SWC10007
2429	2.4L	148	WRANGLER	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007
2429	2.4L	148	Liberty	2005 ONLY	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007
2429	2.4L	148	PT CRUISER	2003 - 2008	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007
2429	2.4L	148	STRATUS	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	SWC10007

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
5191340AA	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
5191340AA	11-908	351	3.465	0.047	0.047		0.079		16 VALVE
5191340AA	11-908	351							16 VALVE
5191340AA	11-908	351							16 VALVE
5191340AA	11-908	351							16 VALVE
5191340AA	11-908	351							16 VALVE
5191340AA	11-908	351							16 VALVE
68191814AA	X		88.00						16 VALVE
68191814AA	X		3.465	0.000	0.000		0.000		16 VALVE
68191814AA	X								16 VALVE
-	X		88.00						w/ TURBO, 16 VALVE
			3.465	0.000	0.000		0.000		
4897660AA	DISC. 11-813		87.50	1.20	1.50		3.00		16 VALVE
4897660AA	DISC. 11-813		3.445	0.047	0.059		0.118		16 VALVE
4897660AA	DISC. 11-813								16 VALVE
4897660AA	DISC. 11-813								16 VALVE
4897660AA	DISC. 11-813								16 VALVE
4897660AA	DISC. 11-813								16 VALVE
5017799AA	X		87.50	1.20	1.50		3.00		16 VALVE
5017799AA	X		3.445	0.047	0.059		0.118		16 VALVE
5017799AA	X								SEDAN, 16 VALVE
5017799AA	X								SEDAN, 16 VALVE
4796212	X		87.50	1.50	1.50		3.00		16 VALVE
4796212	X		3.445	0.059	0.059		0.118		16 VALVE
4796212	X								16 VALVE
4796212	X								16 VALVE
4796212	X								16 VALVE
4796212	X								16 VALVE
4796212	X								16 VALVE
5066565AA	11-814	330	87.50	1.50	1.50		3.00		16 VALVE
5066565AA	11-814	330	3.445	0.059	0.059		0.118		16 VALVE
5066565AA	11-814	330							CONVERTIBLE, 16 VALVE
5066565AA	11-814	330							SEDAN, 16 VALVE
5066565AA	11-814	330							CONVERTIBLE. 16 VALVE
5066565AA	11-814	330							SEDAN, 16 VALVE
5066565AA	11-814	330							SEDAN, 16 VALVE
5066565AA	11-814	330							16 VALVE
5066565AA	11-814	330							16 VALVE
5066565AB	11-814	330							16 VALVE
5066565AB	11-814	330							16 VALVE
5066565AB	11-814	330							16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

2429	2.4L	148	NEON	2003 - 2006	4	EDT 2.4	F.I.	D.O.H.C.	5093441AA	SWC10010
2429	2.4L	148	PT CRUISER	2003 - 2009	4	EDT 2.4	F.I.	D.O.H.C.	5093441AA	SWC10010
2429	2.4L	148	SRT-4	2005 - 2006	4	EDT 2.4	F.I.	D.O.H.C.	5093441AA	SWC10010
2464	2.5L	150	CJ7	1983 - 1986	4	AMC 150	CARB	O.H.V.	83501987	SWC10014
2464	2.5L	150	CHEROKEE	1984 - 1993	4	AMC 150	CARB	O.H.V.	83501987	SWC10014
2464	2.5L	150	COMANCHE	1986 - 1987	4	AMC 150	C & F	O.H.V.	83501987	SWC10014
2464	2.5L	150	COMANCHE	1988 - 1992	4	AMC 150	C & F	O.H.V.	83501987	SWC10014
2464	2.5L	150	EAGLE	1983 - 1984	4	AMC 150	CARB	O.H.V.	83501987	SWC10014
2464	2.5L	150	PREMIER	1988 - 1989	4	AMC 150	F.I.	O.H.V.	83501987	SWC10014
2464	2.5L	150	SCRAMBLER	1984 - 1985	4	AMC 150	CARB	O.H.V.	83501987	SWC10014
2464	2.5L	150	WAGONEER	1984 - 1990	4	AMC 150	C & F	O.H.V.	83501987	SWC10014
2464	2.5L	150	WRANGLER	1987 - 1993	4	AMC 150	F.I.	O.H.V.	83501987	SWC10014
2464	2.5L	150	CHEROKEE	1994 - 1995	4	AMC 150	F.I.	O.H.V.	4762461	SWC10014*
2464	2.5L	150	WRANGLER	1997 - 2000	4	AMC 150	F.I.	O.H.V.	4762461	SWC10014*
2464	2.5L	150	CHEROKEE	1993 - 2000	4	AMC 150	F.I.	O.H.V.	4798324	SWC10011
2464	2.5L	150	DAKOTA	2001 - 2002	4	AMC 150	F.I.	O.H.V.	4798324	SWC10011
2464	2.5L	150	DAKOTA	1996 - 2000	4	AMC 150	F.I.	O.H.V.	4798324	SWC10011
2464	2.5L	150	WRANGLER	2001 - 2002	4	AMC 150	F.I.	O.H.V.	4798324	SWC10011
2497	2.5L	152	AVENGER	1995 - 1999	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	AVENGER	1995 - 1999	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	CIRRUS	1995 - 1997	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	CIRRUS	1995 - 1997	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	SEBRING	1995 - 1997	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	SEBRING	1995 - 1997	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	STRATUS	1995 - 1999	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	STRATUS	1995 - 1999	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	AVENGER	2000 ONLY	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	AVENGER	2000 ONLY	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	CIRRUS	1998 - 2000	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	CIRRUS	1998 - 2000	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	SEBRING	1998 - 2000	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	SEBRING	1998 - 2000	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	STRATUS	2000 ONLY	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2497	2.5L	152	STRATUS	2000 ONLY	V6	6G73	F.I.	S.O.H.C.	MD310258	SWC10009
2499	2.5L	152	CARAVAN	2005 - 2008	4	152 cbi eng.	F.I.	D.O.H.C.	-	NA
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
4884247AC	X		87.50	1.20	1.50		2.50		SRT-4, 16 VALVE
4884247AC	X		3.445	0.047	0.059		0.098		w/ TURBO, 16 VALVE
4884247AC	X								NEON, 16 VALVE
83500251	X		98.43	1.98	1.98		4.76		
83500251	X		3.875	0.078	0.078		0.188		
83500251	X								
83500251	X								
83500251	X								
83500251	X								
83500251	X								
83500251	X								
4897010AA	X		98.43	1.98	1.98		4.76		8 VALVE
4897010AA	X		3.875	0.078	0.078		0.188		8 VALVE
4798329AC	X		98.43	1.50	1.50		4.00		8 VALVE
4798329AC	X		3.875	0.059	0.059		0.157		8 VALVE
4798329	X		98.43	1.50	1.50		4.00		8 VALVE
4798329	X		3.875	0.059	0.059		0.157		8 VALVE
MD309393	11-808	329	83.50	1.20	1.50		3.00		RIGHT
MD309399	11-808	329	83.50	1.20	1.50		3.00		LEFT
MD309393	11-808	329	3.287	0.047	0.059		0.118		RIGHT
MD309399	11-808	329	3.287	0.047	0.059		0.118		LEFT
MD309393	11-808	329							RIGHT
MD309399	11-808	329							LEFT
MD309393	11-808	329							RIGHT
MD309399	11-808	329							LEFT
MD344294	NA		83.50	1.20	1.50		3.00		RIGHT
MD344288	NA		83.50	1.20	1.50		3.00		LEFT
MD344294	NA		3.287	0.047	0.059		0.118		RIGHT
MD344288	NA		3.287	0.047	0.059		0.118		LEFT
MD344294	NA								RIGHT
MD344288	NA								LEFT
MD344294	NA								RIGHT
MD344288	NA								LEFT
-	X		87.50						16 VALVE
			3.445	0.000	0.000		0.000		
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
2507	2.5L	153	ACCLAIM	1995 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	CARAVAN	1994 - 1995	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	DAKOTA	1994 - 1995	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	SHADOW	1994 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	SPIRIT	1994 - 1995	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	SUNDANCE	1993 - 1994	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2507	2.5L	153	VOYAGER	1994 - 1995	4	K 2.5	F.I.	S.O.H.C.	4626636	SWC10003
2555	2.6L	156	ARROW	1979 - 1980	4	G54B	CARB	S.O.H.C.	MD025080	SWM31047
2555	2.6L	156	ARROW PICKUP	1979 - 1980	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	ARROW PICKUP	1981 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	CHALLENGER	1978 - 1980	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	COLT	1978 - 1980	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	RAM 50	1979 - 1980	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	RAM 50	1981 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	SAPPORO	1978 - 1980	4	G54B	CARB	S.O.H.C.	MD025080	SWM31047
2555	2.6L	156	400	1982 - 1983	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	600	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	ARIES	1981 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	ARROW PICKUP	1982 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	CARAVAN	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	CHALLENGER	1981 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	CONQUEST	1984 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	E CLASS	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	EXECUTIVE	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	LeBARON	1982 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	Mini Ram Van	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	NEW YORKER	1983 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	RAM 50	1982 - 1985	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	RELIANT	1981 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	SAPPORO	1978 - 1983	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	TOWN & COUNTRY	1982 - 1984	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	VOYAGER	1984 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	600	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	ARIES	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	CARAVAN	1983 - 1987	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	CARAVAN	1984 - 1987	4	G54B	CARB	S.O.H.C.	MD076170	SWM31039
2555	2.6L	156	EXECUTIVE	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	Grand Voyager	1987 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	LeBARON	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	Mini Ram Van	1983 - 1987	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	Mini Ram Van	1984 - 1987	4	G54B	CARB	S.O.H.C.	MD076170	SWM31039
2555	2.6L	156	NEW YORKER	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
									SWM31039 CONTINUED	
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
4728945	X		87.50	1.50	1.50		4.00		Normally Aspirated, 8 VALVE
4728945	X		3.445	0.059	0.059		0.157		Normally Aspirated, 8 VALVE
4728945	X								Normally Aspirated, 8 VALVE
4728945	X								Normally Aspirated, 8 VALVE
4728945	X								Normally Aspirated, 8 VALVE
4728945	X								Normally Aspirated, 8 VALVE
4728945	X								Normally Aspirated, 8 VALVE
MD024947	DISC. 11-029		91.10	2.00	2.00		4.00		12 VALVE
MD024947	DISC. 11-029		3.587	0.079	0.079		0.157		12 VALVE
MD026861	DISC. 11-029								12 VALVE
MD024947	DISC. 11-029								
MD024947	DISC. 11-029								
MD024947	DISC. 11-029								
MD026861	DISC. 11-029								
MD024947	DISC. 11-029								
MD026921	11-031	277	91.10	2.00	2.00		4.00		12 VALVE
MD026921	11-031	277	3.587	0.079	0.079		0.157		12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD026921	11-031	277							12 VALVE
MD071172	11-035	277	91.10	1.50	1.50		4.00		12 VALVE
MD071172	11-035	277	3.587	0.059	0.059		0.157		12 VALVE
MD071172	11-035	277							w/ CALIF E.C.S., 12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							w/ CALIF E.C.S., 12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
11-035 CONTINUED									
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
2555	2.6L	156	RAIDER	1987 - 1989	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	RAM 50	1983 - 1993	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	RELIANT	1985 - 1988	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	TOWN & COUNTRY	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	VOYAGER	1984 - 1987	4	G54B	CARB	S.O.H.C.	MD076170	SWM31039
2555	2.6L	156	VOYAGER	1985 - 1987	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	CARAVELLE	1985 ONLY	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	CONQUEST	1985 - 1989	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2687	2.7L	164	SPRINTER 2500	2004 - 2007	5	OM612	DIESEL	D.O.H.C.	5138004AA	TBA
2687	2.7L	164	SPRINTER 3500	2004 - 2007	5	OM612	DIESEL	D.O.H.C.	5138004AA	TBA
2736	2.7L	167	300	2004 - 2010	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	AVENGER	2007 - 2008	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	CHARGER	2007 - 2008	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	CONCORDE	1998 - 2000	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	CONCORDE	2001 - 2004	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	INTERPID	1998 - 2000	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	INTERPID	2001 - 2002	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	MAGNUM	2005 - 2010	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	SEBRING	2001 - 2010	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2736	2.7L	167	STRATUS	2001 - 2006	V6	EER 2.7	F.I.	D.O.H.C.	4897027AA	SWC10001
2972	3.0L	181	ACCLAIM	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	ACCLAIM	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	CARAVAN	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	CARAVAN	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	DAYTONA	1988 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	DAYTONA	1988 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	DYNASTY	1988 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	DYNASTY	1988 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Grand Caraven	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Grand Caraven	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Grand Voyager	1987 - 1989	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Grand Voyager	1987 - 1989	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	LeBARON	1990 - 1995	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	LeBARON	1990 - 1995	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Mini Ram Van	1987 - 1988	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	Mini Ram Van	1987 - 1988	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	NEW YORKER	1988 - 1990	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	NEW YORKER	1988 - 1990	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	RAIDER	1989 ONLY	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	RAIDER	1989 ONLY	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
									SWM31080 CONTINUED	
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							12 VALVE
MD071172	11-035	277							w/ CALIF E.C.S., 12 VALVE
MD128450	DISC. 11-544		91.10	1.50	1.50		4.00		w/ TURBO
MD128450	DISC. 11-544		3.587	0.059	0.059		0.157		w/ TURBO
5117317AA	X		88.00	2.50	2.00		3.00		Mercedes-Benz Engine, 20 VALVE
5117317AA	X		3.465	0.098	0.079		0.118		Mercedes-Benz Engine, 20 VALVE
5018627AB	11-780	325	86.00	1.50	1.50		3.00		24 VALVE
5018627AB	11-780	325	3.386	0.059	0.059		0.118		24 VALVE
5018627AB	11-780	325							24 VALVE
5003427AA*	11-780	325							24 VALVE
5018627AA*	11-780	325							24 VALVE
5003427AA	11-780	325							24 VALVE
5018627AA	11-780	325							24 VALVE
5018627AB	11-780	325							24 VALVE
5018627AA	11-780	325							CONVERTIBLE & SEDAN, 24 VALVE
5018627AA	11-780	325							SEDAN. 24 VALVE
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	3.587	0.059	0.059		0.157		RIGHT, 12 VALVE
MD152563	11-549	292	3.587	0.059	0.059		0.157		LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
11-549 CONTINUED									
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
2972	3.0L	181	RAM 50	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	RAM 50	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SHADOW	1992 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SHADOW	1992 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SPIRIT	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104936	SWM31080
2972	3.0L	181	SPIRIT	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	STEALTH	1991 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	STEALTH	1991 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SUNDANCE	1992 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SUNDANCE	1992 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	VOYAGER	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	VOYAGER	1987 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	STEALTH	1991 - 1993	V6	6G72	F.I.	D.O.H.C.	MD158334	SWM31078
2972	3.0L	181	STEALTH	1994 - 1996	V6	6G72	F.I.	D.O.H.C.	MD158334	SWM31078
2972	3.0L	181	STEALTH	1991 - 1996	V6	6G72	F.I.	D.O.H.C.	MD158334	SWM31078
2972	3.0L	181	ACCLAIM	1994 - 1995	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	ACCLAIM	1994 - 1995	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	CARAVAN	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	CARAVAN	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	Grand Caraven	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	Grand Caraven	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	Grand Voyager	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	Grand Voyager	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	SHADOW	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	SHADOW	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	SPIRIT	1994 - 1996	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	SPIRIT	1994 - 1996	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	STEALTH	1994 - 1996	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	STEALTH	1994 - 1996	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	SUNDANCE	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD158334	SWM31078
2972	3.0L	181	SUNDANCE	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD158334	SWM31078
2972	3.0L	181	VOYAGER	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	VOYAGER	1994 - 2000	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	STRATUS	2001 - 2006	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	SEBRING	2001 - 2006	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
JEEP, PLYMOUTH, RAM									
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	3.587	0.059	0.059		0.157		RIGHT, 12 VALVE
MD152563	11-549	292	3.587	0.059	0.059		0.157		LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD119671	11-549	292							RIGHT, 12 VALVE
MD152563	11-549	292							LEFT, 12 VALVE
MD307972	11-547	292	91.10	1.20	1.50		3.00		24 VALVE
			3.587	0.047	0.059		0.118		
MD307958	11-543	291	91.10	1.20	1.50		3.00		24 VALVE
			3.587	0.047	0.059		0.118		
MD194347	NA		91.10	1.20	1.50		3.00		w/ TURBO, 24 VALVE
			3.587	0.047	0.059		0.118		
MD197808	11-707	310	91.10	1.20	1.50		3.00		RIGHT, 12 VALVE
MD197814	11-707	310	91.10	1.20	1.50		3.00		LEFT, 12 VALVE
MD197808	11-707	310	3.587	0.047	0.059		0.118		RIGHT, 12 VALVE
MD197814	11-707	310	3.587	0.047	0.059		0.118		LEFT, 12 VALVE
MD197808	11-707	310							RIGHT, 12 VALVE
MD197814	11-707	310							LEFT, 12 VALVE
MD197808	11-707	310							RIGHT, 12 VALVE
MD197814	11-707	310							LEFT, 12 VALVE
MD197808	11-707	310							RIGHT, 12 VALVE
MD197814	11-707	310							LEFT, 12 VALVE
MD197808	11-707	310							RIGHT, 12 VALVE
MD197814	11-707	310							LEFT, 12 VALVE
MD197808	11-707	310							RIGHT, 12 VALVE
MD197814	11-707	310							LEFT, 12 VALVE
MD367088	11-817	331	91.10	1.20	1.50		3.00		COUPE, 24 VALVE
MD367089	11-817	331	3.587	0.047	0.059		0.118		COUPE, 24 VALVE
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

2987	3.0L	182	Grand Cherokee	2007 - 2008	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	Grand Cherokee	2007 - 2008	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	SPRINTER 2500	2008 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	SPRINTER 2500	2008 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	SPRINTER 3500	2008 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	SPRINTER 3500	2008 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
3195	3.2L	195	CONCORDE	1998 - 2001	V6	EGW 3.2	F.I.	S.O.H.C.	4897032AA	SWC10008
3195	3.2L	195	INTERPID	1998 - 2001	V6	EGW 3.2	F.I.	S.O.H.C.	4897032AA	SWC10008
3239	3.2L	198	CHEROKEE	2014 - 2015	V6	PENTASTAR 3.2	F.I.	D.O.H.C.	-	NA
3293	3.3L	201	CARAVAN	1990 - 1991	V6	EGA 3.3	F.I.	O.H.V.	5241051	SWC10002
3293	3.3L	201	CARAVAN	1992 - 1996	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	CONCORDE	1993 - 1996	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	Grand Caraven	1990 - 1991	V6	EGA 3.3	F.I.	O.H.V.	5241051	SWC10002
3293	3.3L	201	Grand Caraven	1992 - 1996	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	Grand Voyager	1990 - 1991	V6	EGA 3.3	F.I.	O.H.V.	5241051	SWC10002
3293	3.3L	201	INTERPID	1993 - 1995	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	TOWN & COUNTRY	1990 - 1993	V6	EGA 3.3	F.I.	O.H.V.	5241051	SWC10002
3293	3.3L	201	TOWN & COUNTRY	1996 ONLY	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	VISION	1993 - 1995	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	VOYAGER	1991 ONLY	V6	EGA 3.3	F.I.	O.H.V.	5241051	SWC10002
3293	3.3L	201	VOYAGER	1992 - 1996	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	CARAVAN	1997 - 2000	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	Grand Caraven	1997 - 2000	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	Grand Voyager	1992 - 2000	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	INTERPID	1996 - 1997	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	TOWN & COUNTRY	1997 - 2000	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	VISION	1996 ONLY	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	VOYAGER	1997 - 2000	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	CARAVAN	2001 - 2008	V6	EGA 3.3	F.I.	O.H.V.	4897033AA	SWC10002
3293	3.3L	201	DYNASTY	1990 - 1993	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	Grand Caraven	2001 - 2005	V6	EGA 3.3	F.I.	O.H.V.	4897033AA	SWC10002
3293	3.3L	201	Grand Caraven	2008 - 2010	V6	EGA 3.3	F.I.	O.H.V.	4897033AA	SWC10002
3293	3.3L	201	IMPERIAL	1990 - 1991	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	NEW YORKER	1991 - 1993	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	NEW YORKER 5	1990 - 1993	V6	EGA 3.3	F.I.	O.H.V.	5241052	SWC10002
3293	3.3L	201	TOWN & COUNTRY	2001 - 2010	V6	EGA 3.3	F.I.	O.H.V.	4897033AA	SWC10002
3293	3.3L	201	VOYAGER	2001 - 2003	V6	EGA 3.3	F.I.	O.H.V.	4897033AA	SWC10002
3498	3.5L	213	SPRINTER 2500	2008 ONLY	6	M272 E35	F.I.	D.O.H.C.	-	TBA
3498	3.5L	213	SPRINTER 3500	2008 ONLY	6	M272 E35	F.I.	D.O.H.C.	-	TBA
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
645 030 25 17	X		83.00	2.00	2.00		2.00		Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		Mercedes-Benz Engine, RIGHT, 24 VALVE
645 030 25 17	X		3.268	0.079	0.079		0.079		Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X		3.268	0.079	0.079		0.079		Mercedes-Benz Engine, RIGHT, 24 VALVE
645 030 25 17	X								Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X								Mercedes-Benz Engine, RIGHT, 24 VALVE
5010332AA*	X		92.00	1.20	1.50		3.00		
5010332AA	X		3.622	0.047	0.059		0.118		
-	X		91.00						24 VALVE
			3.583	0.000	0.000		0.000		
4778836	X		93.00	1.50	1.50		3.00		12 VALVE
4778836	X		3.661	0.059	0.059		0.118		SH. Oil, 12 VALVE
4778836*	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4798744	X		93.00	1.50	1.50		3.00		SH. Oil, 12 VALVE
4798744	X		3.661	0.059	0.059		0.118		SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4897772AA	11-863	340	93.00	1.50	1.50		3.00		SH. Oil, 12 VALVE
5241057	11-863	340	3.661	0.059	0.059		0.118		SH. Oil
4897772AA	11-863	340							SH. Oil, 12 VALVE
4897772AA	11-863	340							12 VALVE
5241057	11-863	340							SH. Oil
5241057	11-863	340							SH. Oil
5241057	11-863	340							FIFTH AVENUE, SH Oil
4897772AA	11-863	340							12 VALVE
4897772AA	11-863	340							12 VALVE
-	X		92.90	1.50	1.75		2.50		Mercedes-Benz Engine, 24 VALVE
-	X		3.657	0.059	0.069		0.098		Mercedes-Benz Engine, 24 VALVE
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
3507	3.5L	214	CONCORDE	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	CONCORDE	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	INTERPID	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	INTERPID	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	LHS	1994 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	LHS	1994 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	NEW YORKER	1994 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	NEW YORKER	1994 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	VISION	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3507	3.5L	214	VISION	1993 - 1994	V6	EGJ 3.5	F.I.	S.O.H.C.	4626660	SWC10005
3518	3.5L	215	300	2004 - 2006	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	300M	1999 - 2004	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	CONCORDE	2002 - 2004	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	INTERPID	2000 - 2002	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	LHS	1999 - 2001	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	PROWLER	1999 - 2002	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	300	2007 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	AVENGER	2007 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	CHALLENGER	2009 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	CHARGER	2006 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	JOURNEY	2009 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	MAGNUM	2005 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	SEBRING	2007 - 2010	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3518	3.5L	215	PACIFICA	2004 - 2006	V6	EGG 3.5	F.I.	S.O.H.C.	4897035AA	SWC10013
3523	3.5L	215	CONCORDE	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	CONCORDE	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	INTERPID	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	INTERPID	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	LHS	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	LHS	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	NEW YORKER	1995 - 1996	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	NEW YORKER	1995 - 1996	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	PROWLER	1997 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	PROWLER	1997 ONLY	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	VISION	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
3523	3.5L	215	VISION	1995 - 1997	V6	EGJ 3.5	F.I.	S.O.H.C.	4773023	SWC10015
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
JEEP, PLYMOUTH, RAM									
4728709*	X		96.00	1.50	1.50		3.00		RIGHT
4728726*	X		96.00	1.50	1.50		3.00		LEFT
4728709	X		3.780	0.059	0.059		0.118		RIGHT
4728726	X		3.780	0.059	0.059		0.118		LEFT
4728709	X								RIGHT
4728726	X								LEFT
4728709	X								RIGHT
4728726	X								LEFT
4728709	X								RIGHT
4728726	X								LEFT
5010335AA	11-875	343	96.00	1.20	1.50		3.00		24 VALVE
5010335AB*	11-875	343	3.780	0.047	0.059		0.118		24 VALVE
5010335AB*	11-875	343							24 VALVE
5010335AB*	11-875	343							24 VALVE
5010335AB*	11-875	343							24 VALVE
5010335AB*	11-875	343							24 VALVE
4892194AB	X		96.00	1.20	1.50		3.00		24 VALVE
4892194AB	X		3.780	0.047	0.059		0.118		24 VALVE
4892194AB	X								24 VALVE
4892194AB	X								24 VALVE
4892194AB	X								24 VALVE
4892194AB	X								SXT MODEL, 24 VALVE
4892194AB	X								24 VALVE
5102235AA	X		96.00	1.20	1.50		3.00		24 VALVE
			3.780	0.047	0.059		0.118		
4883222*	X		96.00	1.20	1.50		3.00		RIGHT
4883223*	X		96.00	1.20	1.50		3.00		LEFT
4883222	X		3.780	0.047	0.059		0.118		RIGHT
4883223	X		3.780	0.047	0.059		0.118		LEFT
4883222	X								RIGHT
4883223	X								LEFT
4883222	X								RIGHT
4883223	X								LEFT
4883222	X								RIGHT, 24 VALVE
4883223	X								LEFT, 24 VALVE
4883222	X								RIGHT
4883223	X								LEFT
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

3604	3.6L	220	200	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	300	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	AVENGER	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	CHALLENGER	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	CHARGER	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	DURANGO	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	Grand Caraven	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	Grand Cherokee	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	JOURNEY	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	RAM 1500	2013 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	RAM CARGO VAN	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	RAM PROMASTER	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	RAM PROMASTER CITY	2015 - 2016	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	TOWN & COUNTRY	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3604	3.6L	220	WRANGLER	2012 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	TBA
3687	3.7L	225	ASPEN	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	CORDOBA	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	DIPLOMAT	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	Fifth Avenue	1983 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	GRAN FURY	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	LeBARON	1980 - 1981	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	MIRADA	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	NEW YORKER	1982 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	NEWPORT	1980 - 1981	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	PICKUP	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	PICKUP	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3687	3.7L	225	RAM VAN	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	RAM VAN	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3687	3.7L	225	RAM WAGON	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	RAM WAGON	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3687	3.7L	225	RAMCHARGER	1975 - 1980	V6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	RAMCHARGER	1975 - 1980	V6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3687	3.7L	225	St. Regis	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	TRAILDUSTER	1975 - 1980	L6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	TRAILDUSTER	1975 - 1980	L6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3687	3.7L	225	VOLARE	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	SWC10017
3687	3.7L	225	VOYAGER	1974 - 1983	L6	SLANT 6	CARB	O.H.V.	4131205	SWC10017
3687	3.7L	225	VOYAGER	1974 - 1983	L6	SLANT 6	CARB	O.H.V.	4131214	SWC10017
3701	3.7L	226	COMMANDER	2006 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	DAKOTA	2004 - 2011	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	DURANGO	2004 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	Grand Cherokee	2005 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	Liberty	2002 - 2012	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	NITRO	2007 - 2011	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	PICKUP	2002 ONLY	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3701	3.7L	226	RAM 1500	2002 - 2012	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
5184347AG	X		96.00	1.20	1.20		2.00		24 VALVE
5184347AG	X		3.780	0.047	0.047		0.079		24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
5184347AG	X								24 VALVE
2084384	X		86.36	1.98	1.98		4.76		w/ Tin
2084384	X		3.400	0.078	0.078		0.188		w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2084384	X								w/ Tin
2484384	X								w/ Tin
2484384	X								w/ Tin
5019316AA	11-806	329	93.00	1.50	1.50		3.00		12 VALVE
5019316AA	11-806	329	3.661	0.059	0.059		0.118		12 VALVE
5019316AA	11-806	329							12 VALVE
5019316AA	11-806	329							12 VALVE
5019316AA	11-806	329							12 VALVE
5019316AA	11-806	329							12 VALVE
5019316AA	11-806	329							12 VALVE
5019316AA	11-806	329							12 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

3778	3.8L	231	CARAVAN	2000 - 2008	V6	EGH 3.8	F.I.	O.H.V.	4773023	SWC10015
3778	3.8L	231	Grand Caraven	2001 - 2002	V6	EGH 3.8	F.I.	O.H.V.	4773023	SWC10015
3778	3.8L	231	Grand Caraven	2008 - 2010	V6	EGH 3.8	F.I.	O.H.V.	4773023	SWC10015
3778	3.8L	231	PACIFICA	2005 - 2010	V6	EGH 3.8	F.I.	O.H.V.	68001386AA	SWC10015
3778	3.8L	231	TOWN & COUNTRY	2001 - 2010	V6	EGH 3.8	F.I.	O.H.V.	4773023	SWC10015
3778	3.8L	231	WRANGLER	2007 - 2011	V6	EGH 3.8	F.I.	O.H.V.	4773023	SWC10015
3802	3.8L	232	CARAVAN	1996 - 1999	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3802	3.8L	232	Grand Caraven	1994 - 2000	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3802	3.8L	232	Grand Voyager	1994 - 2000	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3802	3.8L	232	IMPERIAL	1991 - 1993	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3802	3.8L	232	NEW YORKER 5	1991 - 1993	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3802	3.8L	232	TOWN & COUNTRY	1994 - 2000	V6	EGH 3.8	F.I.	O.H.V.	4626388	SWC10005
3917	3.9L	239	DAKOTA	1987 - 1991	V6	LA 239	F.I.	O.H.V.	3780007	SWC10018
3917	3.9L	239	PICKUP	1988 - 1991	V6	LA 239	F.I.	O.H.V.	3780007	SWC10018
3917	3.9L	239	RAM VAN	1988 - 1991	V6	LA 239	F.I.	O.H.V.	3780007	SWC10018
3917	3.9L	239	RAM WAGON	1988 - 1991	V6	LA 239	F.I.	O.H.V.	3780007	SWC10018
3917	3.9L	239	RAMCHARGER	1988 - 1991	V6	LA 239	F.I.	O.H.V.	3780007	SWC10018
3917	3.9L	239	DAKOTA	1992 - 1993	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	PICKUP	1992 - 1993	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM VAN	1992 - 1993	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM WAGON	1992 - 1993	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAMCHARGER	1992 - 1993	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	DAKOTA	1994 - 1996	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	PICKUP	1994 - 1996	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM 1500	1994 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM VAN	1994 - 1996	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM WAGON	1994 - 1996	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	DAKOTA	1997 - 2003	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	DAKOTA	1997 - 2003	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	DURANGO	1998 - 1999	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	DURANGO	1998 - 1999	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	PICKUP	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	PICKUP	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM VAN	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM VAN	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM WAGON	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3917	3.9L	239	RAM WAGON	1997 - 2001	V6	MAGNUM 3.9	F.I.	O.H.V.	4720653	SWC10006
3952	4.0L	241	Grand Caraven	2008 - 2010	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4897035AB	SWC10013
3952	4.0L	241	NITRO	2007 - 2011	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4897035AB	SWC10013
3952	4.0L	241	PACIFICA	2007 - 2010	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4897035AB	SWC10013
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
5019338AA*	11-864*	340	96.00	1.20	1.50		3.00		12 VALVE
5019338AA*	11-864*	340	3.780	0.047	0.059		0.118		12 VALVE
5019338AA*	11-864*	340							12 VALVE
4666129AA*	11-864*	340							12 VALVE
5019338AA*	11-864*	340							12 VALVE
5019338AA*	11-864*	340							12 VALVE
4797692	DISC. 11-815		96.00	1.50	1.50		3.00		12 VALVE
4797692	DISC. 11-815		3.780	0.059	0.059		0.118		12 VALVE
4797692	DISC. 11-815								12 VALVE
4797692	DISC. 11-815								12 VALVE
4797692	DISC. 11-815								FIFTH AVENUE, 12 VALVE
4797692	DISC. 11-815								12 VALVE
4397779	11-855	338	99.31	1.98	1.98		4.76		
4397779	11-855	338	3.910	0.078	0.078		0.188		
4397779	11-855	338							
4397779	11-855	338							
4397779	11-855	338							
4762947	X		99.31	2.00	2.00		4.00		
4762947	X		3.910	0.079	0.079		0.157		
4762947	X								
4762947	X								
4762947	X								
4773392	X		99.31	2.00	2.00		4.00		12 VALVE
4773392	X		3.910	0.079	0.079		0.157		12 VALVE
4773392	X								12 VALVE
4773392	X								12 VALVE
4773392	X								12 VALVE
4778861AB	X		99.31	2.00	2.00		4.00		CYL #1,3,5, 12 VALVE
4778862AB	X		99.31	2.00	2.00		4.00		CYL #2,4,6, 12 VALVE
4778861AB	X		3.910	0.079	0.079		0.157		CYL #1,3,5, 12 VALVE
4778862AB	X		3.910	0.079	0.079		0.157		CYL #2,4,6, 12 VALVE
4778861AB	X								CYL #1,3,5, 12 VALVE
4778862AB	X								CYL #2,4,6, 12 VALVE
4778861AB	X								CYL #1,3,5, 12 VALVE
4778862AB	X								CYL #2,4,6, 12 VALVE
4778861AB	X								CYL #1,3,5, 12 VALVE
4778862AB	X								CYL #2,4,6, 12 VALVE
4593589AA	X		96.00	1.20	1.50		3.00		24 VALVE
4593589AA	X		3.780	0.047	0.059		0.118		24 VALVE
4593589AA	X								24 VALVE
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
3952	4.0L	241	TOWN & COUNTRY	2008 - 2010	V6	SMPI 4.0	F.I.	S.O.H.C.	4773023	SWC10015
3966	4.0L	242	CHEROKEE	1994 - 1995	6	AMC 242	F.I.	O.H.V.	4762462	SWC10014 6CYL
3966	4.0L	242	Grand Cherokee	1994 - 1995	6	AMC 242	F.I.	O.H.V.	4762462	SWC10014 6CYL
3966	4.0L	242	WRANGLER	1994 - 1995	6	AMC 242	F.I.	O.H.V.	4762462	SWC10014 6CYL
3966	4.0L	242	CHEROKEE	1996 - 2001	L6	Power Tech 4.0	F.I.	O.H.V.	4798878	SWC10012
3966	4.0L	242	Grand Cherokee	1996 - 2005	L6	Power Tech 4.0	F.I.	O.H.V.	4798878	SWC10012
3966	4.0L	242	WRANGLER	1997 - 2000	L6	Power Tech 4.0	F.I.	O.H.V.	4798878	SWC10012
3966	4.0L	242	WRANGLER	2001 - 2006	L6	Power Tech 4.0	F.I.	O.H.V.	4798878	SWC10012
3982	4.0L	243	PICKUP	1978 - 1979	V6	243 cbi eng.	DIESEL		ME007221	NA
3982	4.0L	243	RAM VAN	1979 ONLY	V6	243 cbi eng.	DIESEL		ME007221	NA
4703	4.7L	287	ASPEN	2007 ONLY	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	COMMANDER	2006 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	DAKOTA	2000 ONLY	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	DAKOTA	2000 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	DURANGO	2000 ONLY	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	DURANGO	2001 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	Grand Cherokee	1999 - 2000	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	Grand Cherokee	2001 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	PICKUP	2002 ONLY	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	RAM 1500	2002 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4703	4.7L	287	ASPEN	2008 - 2010	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
4703	4.7L	287	COMMANDER	2008 - 2010	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
4703	4.7L	287	DAKOTA	2008 - 2011	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
4703	4.7L	287	DURANGO	2008 - 2010	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
4703	4.7L	287	Grand Cherokee	2008 ONLY	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
4703	4.7L	287	RAM 1500	2008 - 2013	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
5211	5.2L	318	ASPEN	1980 ONLY	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	CORDOBA	1980 - 1983	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	DIPLOMAT	1980 - 1985	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	Fifth Avenue	1983 - 1985	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	GRAN FURY	1980 - 1985	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	IMPERIAL	1981 - 1983	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	LeBARON	1980 - 1981	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	MIRADA	1980 - 1983	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
										SWC10019 CONTINUED
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
-	X		96.00	1.20	1.50		3.00		24 VALVE
			3.780	0.047	0.059		0.118		
4798329	X		98.43	1.98	1.98		4.76		12 VALVE
			3.875	0.078	0.078		0.188		
4897010AA	X		98.43	1.98	1.98		4.76		12 VALVE
4897010AA	X		3.875	0.078	0.078		0.188		12 VALVE
4798878	X		98.43	1.50	1.50		4.00		12 VALVE
			3.875	0.059	0.059		0.157		
4798329AC	X		98.43	1.50	1.50		4.00		12 VALVE
4798329AC	X		3.875	0.059	0.059		0.157		12 VALVE
4798329AC	X								12 VALVE
ME007362	NA								
ME007362	NA								
5012362AB	11-807	329	93.00	1.50	1.50		3.00		16 VALVE
5012362AB	11-807	329	3.661	0.059	0.059		0.118		16 VALVE
5012362AB	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AB	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AB	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
5012362AC	11-807	329							16 VALVE
68031605AD	11-902	350	93.00	1.20	1.50		2.50		16 VALVE
68031605AD	11-902	350	3.661	0.047	0.059		0.098		16 VALVE
68031605AD	11-902	350							16 VALVE
68031605AD	11-902	350							16 VALVE
68031605AD	11-902	350							16 VALVE
68031605AD	11-902	350							16 VALVE
3685751	X		99.31	1.98	1.98		4.76		
3685751	X		3.910	0.078	0.078		0.188		
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
5211	5.2L	318	NEW YORKER	1980 - 1982	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	NEWPORT	1980 - 1981	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	PICKUP	1974 - 1984	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM VAN	1974 - 1984	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM WAGON	1974 - 1984	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAMCHARGER	1974 - 1984	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	St. Regis	1980 - 1981	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	TRAILDUSTER	1974 - 1981	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	VOLARE	1980 ONLY	V8	LA 318	CARB	O.H.V.	2808550	SWC10019
5211	5.2L	318	VOYAGER	1974 - 1983	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	PICKUP	1985 ONLY	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM VAN	1985 ONLY	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM WAGON	1985 ONLY	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAMCHARGER	1985 ONLY	V8	LA 318	CARB	O.H.V.	3780007	SWC10019
5211	5.2L	318	DAKOTA	1989 ONLY	V8	MAGNUM 5.2	F.I.	O.H.V.	3780007	SWC10019
5211	5.2L	318	DAKOTA	1991 ONLY	V8	MAGNUM 5.2	F.I.	O.H.V.	3780007	SWC10019
5211	5.2L	318	DIPLOMAT	1986 - 1989	V8	MAGNUM 5.2	C & F	O.H.V.	2808553	SWC10019
5211	5.2L	318	Fifth Avenue	1986 - 1989	V8	MAGNUM 5.2	C & F	O.H.V.	2808553	SWC10019
5211	5.2L	318	GRAN FURY	1986 - 1989	V8	MAGNUM 5.2	C & F	O.H.V.	2808553	SWC10019
5211	5.2L	318	PICKUP	1985 - 1991	V8	MAGNUM 5.2	C & F	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM VAN	1985 - 1991	V8	MAGNUM 5.2	C & F	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAM WAGON	1985 - 1991	V8	MAGNUM 5.2	C & F	O.H.V.	3780007	SWC10019
5211	5.2L	318	RAMCHARGER	1985 - 1991	V8	MAGNUM 5.2	C & F	O.H.V.	3780007	SWC10019
5211	5.2L	318	DAKOTA	1992 - 1993	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	Grand Cherokee	1993 ONLY	V8	MAGNUM 5.2	F.I.	O.H.V.	4638060	SWC10020
5211	5.2L	318	PICKUP	1992 - 1993	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM VAN	1992 - 1993	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	1992 - 1993	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAMCHARGER	1992 - 1993	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	DAKOTA	1994 - 1996	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	PICKUP	1994 - 1996	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM 1500	1994 - 2001	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM 2500	1994 - 1996	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM VAN	1994 - 1996	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	1994 - 1996	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	DAKOTA	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	DAKOTA	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	DURANGO	1998 - 2000	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	DURANGO	1998 - 2000	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
									SWC10020 CONTINUED	
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
3685751	X								
2808650	X		99.31	1.98	1.98		4.76		Low Compression
2808650	X		3.910	0.078	0.078		0.188		Low Compression
2808650	X								Low Compression
2808650	X								Low Compression
4397779	11-821	331	99.31	1.98	1.98		4.76		
4397779	11-821	331	3.910	0.078	0.078		0.188		
4397779	11-821	331							Normally Aspirated
4397779	11-821	331							Normally Aspirated
4397779	11-821	331							Normally Aspirated
4397779	11-821	331							High Compression
4397779	11-821	331							High Compression
4397779	11-821	331							High Compression
4397779	11-821	331							High Compression
4762947	X		99.31	2.00	2.00		4.00		
4762947	X		3.910	0.079	0.079		0.157		
4762947	X								
4762947	X								
4762947	X								
4773392	X		99.31	2.00	2.00		4.00		16 VALVE
4773392	X		3.910	0.079	0.079		0.157		16 VALVE
4773392	X								16 VALVE
4773392	X								16 VALVE
4773392	X								16 VALVE
4773392	X								16 VALVE
4778855AB	X		99.31	2.00	2.00		4.00		CYL #1,3,5,7, 16 VALVE
4778856AB	X		99.31	2.00	2.00		4.00		CYL #2,4,6,8, 16 VALVE
4778855AB	X		3.910	0.079	0.079		0.157		CYL #1,3,5,7, 16 VALVE
4778856AB	X		3.910	0.079	0.079		0.157		CYL #2,4,6,8, 16 VALVE
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

CHRYSLER, DODGE, EAGLE,

5211	5.2L	318	Grand Cherokee	1994 - 1998	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	Grand Cherokee	1994 - 1998	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM VAN	1997 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM VAN	1997 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	2000 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5211	5.2L	318	RAM WAGON	2000 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	SWC10020
5654	5.7L	345	300	2004 - 2006	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	300	2004 - 2006	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO	2004 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO	2004 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 1500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 1500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 2500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 2500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	300	2007 - 2009	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	300	2007 - 2009	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	ASPEN	2007 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	ASPEN	2007 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	ASPEN HYBRID	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	ASPEN HYBRID	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	CHARGER	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	CHARGER	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	COMMANDER	2006 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	COMMANDER	2006 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO HYBRID	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	DURANGO HYBRID	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	Grand Cherokee	2005 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	Grand Cherokee	2005 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	MAGNUM	2005 - 2010	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	MAGNUM	2005 - 2010	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 1500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 1500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 2500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 2500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500 Chassis Cab	2007 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016
5654	5.7L	345	RAM 3500 Chassis Cab	2007 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	SWC10016

CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
JEEP, PLYMOUTH, RAM									
4778855AB	X		99.31	2.00	2.00		4.00		CYL #1,3,5,7, 16 VALVE
4778856AB	X		99.31	2.00	2.00		4.00		CYL #2,4,6,8, 16 VALVE
4778855AB	X		3.910	0.079	0.079		0.157		CYL #1,3,5,7, 16 VALVE
4778856AB	X		3.910	0.079	0.079		0.157		CYL #2,4,6,8, 16 VALVE
4778855AB	X								CYL #1,3,5,7, 16 VALVE
4778856AB	X								CYL #2,4,6,8, 16 VALVE
4778855AB	X								CYL #1,3,5,7, 16 VALVE
4778856AB	X								CYL #2,4,6,8, 16 VALVE
5086011AB	11-873	343	99.50	1.50	1.50		3.00		RIGHT, 16 VALVE
5086010AB	11-873	343	99.50	1.50	1.50		3.00		LEFT, 16 VALVE
5086011AB	11-873	343	3.917	0.059	0.059		0.118		RIGHT, 16 VALVE
5086010AB	11-873	343	3.917	0.059	0.059		0.118		LEFT, 16 VALVE
5086011AB	11-873	343							RIGHT, 16 VALVE
5086010AB	11-873	343							LEFT, 16 VALVE
5086011AB	11-873	343							RIGHT, 16 VALVE
5086010AB	11-873	343							LEFT, 16 VALVE
5086011AB	11-873	343							RIGHT, 16 VALVE
5086010AB	11-873	343							LEFT, 16 VALVE
53021538AD	11-861	340	99.50	1.50	1.50		3.00		RIGHT, 16 VALVE
53021539AD	11-861	340	99.50	1.50	1.50		3.00		LEFT, 16 VALVE
53021538AD	11-861	340	3.917	0.059	0.059		0.118		RIGHT, 16 VALVE
53021539AD	11-861	340	3.917	0.059	0.059		0.118		LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
53021538AD	11-861	340							RIGHT, 16 VALVE
53021539AD	11-861	340							LEFT, 16 VALVE
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
5654	5.7L	345	300	2010 - 2015	V8	EZB HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	300	2010 - 2015	V8	EZB HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	CHALLENGER	2009 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	CHALLENGER	2009 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	CHARGER	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	CHARGER	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	DURANGO	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	DURANGO	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	Grand Cherokee	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	Grand Cherokee	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 1500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 1500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 2500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 2500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 3500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 3500	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 3500 Chassis Cab	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5654	5.7L	345	RAM 3500 Chassis Cab	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	TBA
5899	5.9L	360	PICKUP	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM VAN	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM WAGON	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAMCHARGER	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	TRAILDUSTER	1974 - 1981	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	VOYAGER	1974 - 1983	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	ASPEN	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	CORDOBA	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	GRAN FURY	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	MIRADA	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	NEW YORKER	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	NEWPORT	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	PICKUP	1974 - 1991	V8	LA 360	C & F	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM VAN	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM VAN	1986 - 1987	V8	LA 360	C & F	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM WAGON	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAM WAGON	1986 - 1987	V8	LA 360	C & F	O.H.V.	3780016	SWF80016
5899	5.9L	360	RAMCHARGER	1974 - 1991	V8	LA 360	C & F	O.H.V.	3780016	SWF80016
5899	5.9L	360	St. Regis	1980 - 1981	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	TRAILDUSTER	1974 - 1981	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	VOLARE	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	SWF80016
5899	5.9L	360	VOYAGER	1974 - 1983	V8	LA 360	CARB	O.H.V.	3780016	SWF80016
5899	5.9L	360	PICKUP	1992 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	SWF80016
5899	5.9L	360	RAM VAN	1988 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	SWF80016
5899	5.9L	360	RAM WAGON	1988 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	SWF80016
5899	5.9L	360	RAMCHARGER	1992 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	SWF80016

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
JEEP, PLYMOUTH, RAM									
53022257AE	X		99.50	1.20	1.20		2.00		RIGHT, 16 VALVE
53022257AE	X		99.50	1.20	1.20		2.00		LEFT, 16 VALVE
53022257AE	X		3.917	0.047	0.047		0.079		RIGHT, 16 VALVE
53022257AE	X		3.917	0.047	0.047		0.079		LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
53022257AE	X								RIGHT, 16 VALVE
53022257AE	X								LEFT, 16 VALVE
4026472	X		101.60	1.98	1.98		4.76		Low Compression
4026472	X		4.000	0.078	0.078		0.188		Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4494480	X		101.60	1.98	1.98		4.76		
4494480	X		4.000	0.078	0.078		0.188		
4494480	X								
4494480	X								
4494480	X								
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X		101.60	1.98	1.98		4.76		
4494480	X		4.000	0.078	0.078		0.188		
4494480	X								
4494480	X								

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
CHRYSLER, DODGE, EAGLE,										
5899	5.9L	360	PICKUP	1989 - 1993	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	RAMCHARGER	1989 - 1993	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	PICKUP	1989 - 1993	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	RAMCHARGER	1989 - 1993	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	PICKUP	1994 - 1998	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	PICKUP	1997 - 1998	6	6BT	DIESEL	O.H.V.	4638644	SDC10022
5899	5.9L	360	RAM 2500	1997 ONLY	6	6BT	DIESEL	O.H.V.	5011858AA	SDC10022
5899	5.9L	360	RAM 3500	1997 ONLY	6	6BT	DIESEL	O.H.V.	5011858AA	SDC10022
5899	5.9L	360	PICKUP	1998 - 2002	6	ISB 5.9	DIESEL	O.H.V.	5011858AA	SDC10022
5899	5.9L	360	RAM 2500	1998 - 2002	6	ISB 5.9	DIESEL	O.H.V.	5011858AA	SDC10022
5899	5.9L	360	RAM 3500	1998 - 2002	6	ISB 5.9	DIESEL	O.H.V.	5011858AA	SDC10022
5899	5.9L	360	RAM 2500	2003 - 2008	6	ISB 5.9	DIESEL	O.H.V.	4089258	SDC10022
5899	5.9L	360	RAM 3500	2003 - 2008	6	ISB 5.9	DIESEL	O.H.V.	4089258	SDC10022
6424	6.4L	392	300	2012 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	300	2012 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	CHALLENGER	2011 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	CHALLENGER	2011 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	CHARGER	2011 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	CHARGER	2011 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	Grand Cherokee	2012 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6424	6.4L	392	Grand Cherokee	2012 - 2015	V8	HEMI 6.4	F.I.	O.H.V.	68092206AA	NA
6690	6.7L	408	RAM 2500	2007 - 2015	L6	B6.7	DIESEL	O.H.V.	4955366	SDC10023
6690	6.7L	408	RAM 3500	2009 - 2015	L6	B6.7	DIESEL	O.H.V.	4955366	SDC10023
6690	6.7L	408	RAM 4500 Chassis Cab	2007 - 2015	L6	B6.7	DIESEL	O.H.V.	4955366	SDC10023
6690	6.7L	408	RAM 5500 Chassis Cab	2007 - 2015	L6	B6.7	DIESEL	O.H.V.	4955366	SDC10023
7997	8.0L	488	VIPER	1992 - 1994	V10	CID 488	F.I.	O.H.V.	-	NA
7997	8.0L	488	VIPER	1995 - 1996	V10	CID 488	F.I.	O.H.V.	-	NA
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

1322	1.3L	81	ASPIRE	1994 - 1995	4	1.3L	F.I.	S.O.H.C.	F4BZ 6149 A	SWT20052
1322	1.3L	81	ASPIRE	1996 - 1997	4	1.3L	F.I.	S.O.H.C.	F4BZ 6149 A	SWT20052
1324	1.3L	81	FESTIVA	1988 - 1993	4	1.3L	CARB	S.O.H.C.	E9BZ 6149 A	SWT20052
1499	1.5L	91	FUSION	2014 - 2015	4	EcoBoost 15T	F.I.	D.O.H.C.	CJ5Z 6148 A	NA
1596	1.6L	97	FIESTA	2011 - 2015	4	DURATEC 16	F.I.	D.O.H.C.	BE8Z 6148 A	NA
1596	1.6L	97	ESCAPE	2013 - 2015	4	EcoBoost 16T	F.I.	D.O.H.C.	CJ5Z 6148 A	NA
1596	1.6L	97	FUSION	2013 - 2015	4	EcoBoost 16T	F.I.	D.O.H.C.	CJ5Z 6148 A	NA
1596	1.6L	97	TRANSIT CONNECT	2014 - 2015	4	EcoBoost 16T	F.I.	D.O.H.C.	CJ5Z 6148 A	NA
1597	1.6L	97	TRACER	1987 - 1989	4	B6	F.I.	S.O.H.C.	E8GY 6149 A	SWT20060
1597	1.6L	97	CAPRI	1991 - 1994	4	B6	F.I.	S.O.H.C.	E8GY 6149 A	SWT20060
1597	1.6L	97	CAPRI	1991 - 1994	4	B6	F.I.	S.O.H.C.	E8GY 6149 A	SWT20060
1839	1.8L	112	ESCORT	1990 - 1996	4	BP05	F.I.	D.O.H.C.	FOCZ 6149 A	SWT20066
1839	1.8L	112	TRACER	1990 - 1996	4	BP05	F.I.	D.O.H.C.	FOCZ 6149 A	SWT20066
1901	1.9L	116	COUGER	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	ESCORT	1987 - 1990	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	ESCORT EXP	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	Grand Marquis	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	LTD Crown Victoria	1987 - 1988	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	LYNX	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	MUSTANG	1987 - 1988	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	SABLE	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	TEMPO	1988 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	THUNDERBIRD	1987 - 1988	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F4BZ 6108 A	X		71.00	1.20	1.50		3.00		8 VALVE
			2.795	0.047	0.059		0.118		
F6BZ 6108 AA	X		71.00	1.20	1.50		3.00		8 VALVE
			2.795	0.047	0.059		0.118		
E8BZ 6108 A	11-589	295	71.00	1.20	1.50		3.00		8 VALVE
			2.795	0.047	0.059		0.118		
-	X		79.00						w/ TURBO, 16 VALVE
			3.110	0.000	0.000		0.000		
BE8Z 6108 F	X		79.00						16 VALVE
			3.110	0.000	0.000		0.000		
CJ5Z 6108 B	X		79.00						w/ TURBO, 16 VALVE
CJ5Z 6108 B	X		3.110	0.000	0.000		0.000		w/ TURBO, 16 VALVE
CJ5Z 6108 B	X								w/ TURBO, 16 VALVE
E9GZ 6108 A	DISC. 11-577		78.00	1.50	1.50		4.00		MAZDA Engine, 8 VALVE
			3.071	0.059	0.059		0.157		
F1JY 6108 A	X		78.00	1.50	1.50		4.00		MAZDA Engine, w/ TURBO
			3.071	0.059	0.059		0.157		
FOJY 6108 A	X		78.00	1.50	1.50		4.00		MAZDA Engine, Normally Aspirated
			3.071	0.059	0.059		0.157		
F4CZ 6108 A	X		83.00	1.50	1.50		3.00		MAZDA Engine, 16 VALVE
F4CZ 6108 A	X		3.268	0.059	0.059		0.118		MAZDA Engine, 16 VALVE
E7FZ 6108 DB	X		81.94	1.50	1.50		3.00		TBI, RED, 8 VALVE
E7FZ 6108 DB	X		3.226	0.059	0.059		0.118		TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
E7FZ 6108 DB	X								TBI, RED, 8 VALVE
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
FORD, LINCOLN, MERCURY, MERKER										
1901	1.9L	116	COUGER	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	ESCORT	1987 - 1996	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	ESCORT EXP	1987 - 1988	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	LYNX	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	TEMPO	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	THUNDERBIRD	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	TOPAZ	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1901	1.9L	116	TRACER	1991 - 1996	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	SWF30010
1970	2.0L	120	COURIER PICKUP	1979 - 1982	4	MA	CARB	S.O.H.C.	-	SWT20031
1986	2.0L	121	ESCORT	1997 - 2002	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	SWF30005
1986	2.0L	121	TRACER	1997 - 1999	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	SWF30005
1986	2.0L	121	FOCUS	2000 - 2005	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	SWF30005
1986	2.0L	121	FOCUS	2003 - 2008	4	CVH 2.0	F.I.	S.O.H.C.	2MGZ 6135 AA	NA
1991	2.0L	121	PROBE	1993 - 1997	4	FS	F.I.	D.O.H.C.	E62Z 6149 AA	SWF30001
1991	2.0L	121	CONTOUR	1995 - 1997	4	ZETEC-E 2.0	F.I.	D.O.H.C.	F5RZ 6148 A	SWF30007
1991	2.0L	121	MYSTIQUE	1995 - 1997	4	ZETEC-E 2.0	F.I.	D.O.H.C.	F5RZ 6148 A	SWF30007
1991	2.0L	121	CONTOUR	1998 - 2000	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	COUGER	1999 ONLY	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	ESCORT	1998 - 1999	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	MYSTIQUE	1998 - 2000	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	COUGER	2001 - 2002	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	ESCAPE	2001 - 2004	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	FOCUS	2000 - 2004	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1991	2.0L	121	FOCUS	2003 - 2005	4	ZETEC-R 2.0	F.I.	D.O.H.C.	YS4Z 6135 AA	SWF30002
1991	2.0L	121	ZX2	2000 - 2003	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	SWF30002
1999	2.0L	122	FOCUS	2005 - 2010	4	DURATEC 20 LF	F.I.	D.O.H.C.	8S7Z 6312 A	SWT20090
1999	2.0L	122	TRANSIT CONNECT	2010 - 2013	4	DURATEC 20 LF	F.I.	D.O.H.C.	3S4Z 6148 BA	SWT20090
1999	2.0L	122	FOCUS	2011 - 2015	4	DURATEC 20 HE	F.I.	D.O.H.C.	CM5Z 6148 AB	TBA
1999	2.0L	122	C-MAX ENERGI	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	TBA
1999	2.0L	122	C-MAX HYBRID	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	TBA
1999	2.0L	122	FUSION HYBRID	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	TBA
1999	2.0L	122	MKZ HYBRID	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	TBA

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
FORD, LINCOLN, MERCURY, MERKER									
F1CZ 6108 A	X		81.94	1.50	1.50		3.00		TBI, RED, 8 VALVE
F1CZ 6108 A	X		3.226	0.059	0.059		0.118		TBI, RED, 8 VALVE
F1CZ 6108 A	X								TBI, RED, 8 VALVE
F1CZ 6108 A	X								TBI, RED, 8 VALVE
F1CZ 6108 A	X								TBI, RED, 8 VALVE
F1CZ 6108 A	X								TBI, RED, 8 VALVE
F1CZ 6108 A	X								TBI, RED, 8 VALVE
-	DISC. 11-130		80.00	1.20	1.50		4.00		MAZDA Engine, 8 VALVE
			3.150	0.047	0.059		0.157		
1S4Z 6100 AA	11-822	331	84.86	1.50	1.50		3.00		VIN-P, 8 VALVE
1S4Z 6100 AB	11-822	331	3.341	0.059	0.059		0.118		VIN-P, 8 VALVE
2M5Z 6100 AAA	X		84.86	1.50	1.50		3.00		LX, SE Models, VIN-P, 8 VALVE
			3.341	0.059	0.059		0.118		
2M50 6100 AA	X		84.86	1.20	1.50		3.00		LX, SE Models, VIN-5, 8 VALVE
			3.341	0.047	0.059		0.118		
F72Z 6108 AA	11-706	310	83.00	1.20	1.50		3.00		MAZDA Engine, 16 VALVE
			3.268	0.047	0.059		0.118		
F5RZ 6108 A	X		84.86	1.50	1.75		3.00		VIN-Z, 16 VALVE
F5RZ 6108 A	X		3.341	0.059	0.069		0.118		VIN-Z, 16 VALVE
F8CZ 6108 AA	X		84.80	1.50	1.75		3.00		16 VALVE
F8CZ 6108 AA	X		3.339	0.059	0.069		0.118		RED, 16 VALVE
F8CZ 6108 AA	X								16 VALVE
F8CZ 6108 AA	X								16 VALVE
XS7Z 6100 AA	11-865	341	84.80	1.50	1.75		3.00		16 VALVE
XS7Z 6100 AA	11-865	341	3.339	0.059	0.069		0.118		16 VALVE
XS7Z 6100 AA	11-865	341							ZX3, ZX5, ZTS Models, 16 VALVE
XS7Z 6100 AA	11-865	341							SVT Model, 16 VALVE
XS7Z 6100 AA	11-865	341							16 VALVE
4S4Z 6108 A	X		87.50	1.20	1.20		2.50		Mk.I, 16 VALVE
4S4Z 6108 A	X		3.445	0.047	0.047		0.098		16 VALVE
CP9Z 6108 A	X		87.50	1.20	1.20		2.00		Mk.II, 16 VALVE
			3.445	0.047	0.047		0.079		
DS7Z 6108 A	X		87.50	1.20	1.20		2.00		Atkinson Cycle, HYBRID, 16 VALVE
DS7Z 6108 A	X		3.445	0.047	0.047		0.079		Atkinson Cycle, 16 VALVE
DS7Z 6108 A	X								Atkinson Cycle, 16 VALVE
DS7Z 6108 A	X								Atkinson Cycle, 16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1999	2.0L	122	EDGE	2011 - 2012	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	EXPLORER	2011 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	EDGE	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	ESCAPE	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	FOCUS	2010 - 2013	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	FUSION	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	MKC	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	MKZ	2010 - 2013	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	TAURUS	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	TBA
1999	2.0L	122	EDGE	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	ESCAPE	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	EXPLORER	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	FOCUS	2014 - 2015	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	FUSION	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	MKZ	2014 - 2015	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
1999	2.0L	122	TAURUS	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	TBA
2184	2.2L	133	PROBE	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	SWT20048
2184	2.2L	133	PROBE	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	SWT20048
2184	2.2L	133	PROBE	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	SWT20048
2261	2.3L	138	ESCAPE	2005 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	FOCUS	2004 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	FUSION	2006 - 2009	4	DURATEC 23EW	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	MARINER	2005 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	MILAN	2006 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	ESCAPE HYBRID	2005 - 2008	4	DURATEC 23H	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	MARINER HYBRID	2006 - 2008	4	DURATEC 23H	F.I.	D.O.H.C.	-	SWT20090
2261	2.3L	138	RANGER	2001 - 2011	4	DURATEC 23NS	F.I.	D.O.H.C.	-	SWT20090
2295	2.3L	140	ESCORT EXP	1986 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	MARQUIS	1984 - 1986	4	OHC 2.3	CARB	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	MUSTANG	1984 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	TEMPO	1985 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	THUNDERBIRD	1984 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	AEROSTAR	1986 - 1987	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	RANGER	1985 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
FORD, LINCOLN, MERCURY, MERKER									
AG9Z 6108 D	X		87.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
AG9Z 6108 D	X		3.445	0.047	0.047		0.079		w/ TURBO, 16 VALVE
AG9Z 6108 L	X		87.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
AG9Z 6108 L	X		3.445	0.047	0.047		0.079		w/ TURBO, 16 VALVE
AG9Z 6108 L	X								ST, w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
AG9Z 6108 L	X								ST, w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
-	X		87.50	1.20	1.00		2.00		w/ TURBO, 16 VALVE
-	X		3.445	0.047	0.039		0.079		w/ TURBO, 16 VALVE
-	X								w/ TURBO, 16 VALVE
-	X								ST, w/ TURBO, 16 VALVE
-	X								w/ TURBO, 16 VALVE
-	X								ST, w/ TURBO, 16 VALVE
-	X								
E92Z 6108 D	11-573	294	86.00	1.50	1.50		4.00		MAZDA Engine, w/ TURBO, 12 VALVE
			3.386	0.059	0.059		0.157		
E92Z 6108 G	11-582	295	86.00	1.50	1.50		4.00		MAZDA Engine, 16 VALVE
			3.386	0.059	0.059		0.157		
-	11-583	295	86.00	1.50	1.50		4.00		MAZDA Engine, 12 VALVE
			3.386	0.059	0.059		0.157		
-	11-843		87.50	1.20	1.20		2.50		16 VALVE
-	11-843		3.445	0.047	0.047		0.098		16 VALVE
-	11-843								16 VALVE
-	11-843								16 VALVE
-	11-843								16 VALVE
-	11-843		87.50	1.20	1.20		2.50		Atkinson Cycle, 16 VALVE
-	11-843		3.445	0.047	0.047		0.098		16 VALVE
-	X		87.50	1.20	1.20		2.50		16 VALVE
			3.445	0.047	0.047		0.098		
E3ZZ 6108 A	X		96.00	1.50	1.50		4.00		
E3ZZ 6108 A	X		3.780	0.059	0.059		0.157		RED
E3ZZ 6108 A	X								
E3ZZ 6108 A	X								
E3ZZ 6108 A	X								
E9TZ 6108 BB	X		96.00	1.50	1.50		4.00		
E9TZ 6108 BB	X		3.780	0.059	0.059		0.157		

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

2295	2.3L	140	CAPRI	1985 ONLY	4	OHC 2.3	CARB	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	MUSTANG	1989 - 1993	4	OHC 2.3	C & F	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	RANGER	1989 - 1994	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2295	2.3L	140	TEMPO	1986 - 1987	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	SWT20071
2298	2.3L	140	RANGER	1995 - 1997	4	OHC 2.3	F.I.	S.O.H.C.	F67Z 6148 AA	SWT20076
2300	2.3L	140	MKC	2015 - 2016	4	EcoBoost 23T	F.I.	D.O.H.C.	-	NA
2300	2.3L	140	MUSTANG	2015 - 2016	4	EcoBoost 23T	F.I.	D.O.H.C.	-	NA
2311	2.3L	141	TEMPO	1984 - 1988	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	SWF30011
2311	2.3L	141	TEMPO	1989 - 1994	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	SWF30011
2311	2.3L	141	TOPAZ	1984 - 1988	4	HSC 2.3	CARB	O.H.V.	E63Z 6148 A*	SWF30011
2311	2.3L	141	TOPAZ	1989 - 1994	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	SWF30011
2346	2.3L	143	BRONCO II	1985 ONLY	4	4D55	DIESEL	S.O.H.C.	E5TZ 6149 A	SDM31038
2346	2.3L	143	RANGER	1985 - 1987	4	4D55	DIESEL	S.O.H.C.	E5TZ 6149 A	SDM31038
2488	2.5L	152	ESCAPE	2009 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	FUSION	2010 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	MARINER	2009 - 2010	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	MILAN	2010 - 2010	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	TRANSIT CONNECT	2014 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	ESCAPE HYBRID	2009 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	FUSION HYBRID	2010 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	MARINER HYBRID	2009 - 2010	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	MILAN HYBRID	2010 ONLY	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2488	2.5L	152	MKZ HYBRID	2011 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	TBA
2496	2.5L	152	SABLE	1986 ONLY	4	HSC 2.5	CARB	O.H.V.	E63Z 6148 A*	SWF30011
2496	2.5L	152	TAURUS	1986 - 1988	4	HSC 2.5	CARB	O.H.V.	E63Z 6148 A*	SWF30011
2496	2.5L	152	TAURUS	1989 - 1991	4	HSC 2.5	F.I.	O.H.V.	E63Z 6148 A*	SWF30011
2507	2.5L	153	PROBE	1993 ONLY	V6	KL	F.I.	D.O.H.C.	E32Z 6149 D	SWT20073
2507	2.5L	153	PROBE	1993 ONLY	V6	KL	F.I.	D.O.H.C.	E32Z 6149 D	SWT20073
2507	2.5L	153	PROBE	1994 - 1997	V6	KL	F.I.	D.O.H.C.	E42Z 6149 D	SWT20073
2507	2.5L	153	PROBE	1994 - 1997	V6	KL	F.I.	D.O.H.C.	E42Z 6149 D	SWT20073
2507	2.5L	153	RANGER	1998 ONLY	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	SWT20076
2507	2.5L	153	RANGER	2000 - 2001	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	SWT20076
2507	2.5L	153	RANGER	1999 ONLY	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	SWT20076
2540	2.5L	155	CONTOUR	1995 ONLY	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
2540	2.5L	155	MYSTIQUE	1995 ONLY	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
E9TZ 6108 AB	X		96.00	1.50	1.50		4.00		RED
E9TZ 6108 AB	X		3.780	0.059	0.059		0.157		
E9TZ 6108 AB	X								
E9TZ 6108 AB	X								
F57Z 6108 AA	X		96.00	1.50	1.50		3.00		VIN-A
			3.780	0.059	0.059		0.118		
-	X		87.50						w/ TURBO, 16 VALVE
-	X		3.445	0.000	0.000		0.000		w/ TURBO, 16 VALVE
F23Z 6108 AB	X		93.47	2.00	2.00		4.76		
F23Z 6108 AB	X		3.680	0.079	0.079		0.187		
F23Z 6108 AB	X								RED
F23Z 6108 AB	X								
E5TZ 6108 A	X		91.10	2.50	2.00		4.00		mitsubishi Engine, include TURBO
E5TZ 6108 A	X		3.587	0.098	0.079		0.157		mitsubishi Engine, include TURBO
8E5Z 6108 AA	X		89.00	1.20	1.20		2.50		16 VALVE
8E5Z 6108 AA	X		3.504	0.047	0.047		0.098		16 VALVE
8E5Z 6108 AA	X								16 VALVE
8E5Z 6108 AA	X								16 VALVE
8E5Z 6108 AA	X								16 VALVE
9E5Z 6108 A	X		89.00	1.20	1.20		2.50		VVT, 16 VALVE
9E5Z 6108 A	X		3.504	0.047	0.047		0.098		VVT, 16 VALVE
9E5Z 6108 A	X								VVT, 16 VALVE
9E5Z 6108 A	X								VVT, 16 VALVE
9E5Z 6108 A	X								VVT, 16 VALVE
E7DZ 6108 GB	X		93.47	2.00	2.00		4.76		
E7DZ 6108 GB	X		3.680	0.079	0.079		0.187		
E7DZ 6108 GB	X								
E32Z 6108 D	11-716	312	84.50	1.50	1.50		3.00		MAZDA Engine, RIGHT, 24 VALVE
E32Z 6108 G	11-716	312	84.50	1.50	1.50		3.00		MAZDA Engine, LEFT, 24 VALVE
F42Z 6108 D	11-716	312	3.327	0.059	0.059		0.118		MAZDA Engine, LEFT, 24 VALVE
F52Z 6108 A	11-716	312	3.327	0.059	0.059		0.118		MAZDA Engine, RIGHT, 24 VALVE
F87Z 6108 JA	X		96.00	1.50	1.50		3.00		GRADE 1, 2, VIN-C, 8 VALVE
F87Z 6108 JA	X		3.780	0.059	0.059		0.118		VIN-C, 8 VALVE
F87Z 6148 JA	X								VIN-C, 8 VALVE
F5RZ 6108 E	X		82.42	1.20	1.50		3.00		VIN-L, 24 VALVE
F5RZ 6108 E	X		3.245	0.047	0.059		0.118		VIN-L, 24 VALVE
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
FORD, LINCOLN, MERCURY, MERKER										
2540	2.5L	155	MYSTIQUE	1998 - 1999	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
2540	2.5L	155	CONTOUR	1996 - 1999	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
2540	2.5L	155	COUGER	1999 ONLY	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
2540	2.5L	155	MYSTIQUE	1996 - 1997	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	SWF30003
2540	2.5L	155	CONTOUR	1999 - 2000	V6	DURATEC 25SVT	F.I.	D.O.H.C.	XS2Z 6148 AA	SWF30003
2540	2.5L	155	COUGER	1999 - 2002	V6	DURATEC 25SVT	F.I.	D.O.H.C.	XS2Z 6148 AA	SWF30003
2540	2.5L	155	MYSTIQUE	1999 - 2000	V6	DURATEC 25SVT	F.I.	D.O.H.C.	XS2Z 6148 AA	SWF30003
2687	2.7L	164	F150	2015 - 2016	V6	EcoBoost 27T	F.I.	D.O.H.C.	-	NA
2901	2.9L	177	BRONCO II	1986 - 1989	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	RANGER	1986 - 1989	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	BRONCO II	1990 ONLY	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	RANGER	1990 - 1992	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	SCORPIO	1988 - 1989	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	BRONCO II	1990 ONLY	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2901	2.9L	177	RANGER	1990 - 1992	V6	COLOGNE 29	F.I.	O.H.V.	E7RY 6148 A	SWF30014
2960	3.0L	181	VILLAGER	1993 - 1998	V6	VG30E	F.I.	S.O.H.C.	F6XZ 6148 AA	SWN30058
2967	3.0L	181	ESCAPE	2001 - 2006	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 A	SWF30021
2967	3.0L	181	ESCAPE	2007 - 2010	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	FIVE HUNDRED	2004 - 2008	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	FREESTYLE	2004 - 2008	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	FUSION	2006 - 2010	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	LS	2002 - 2005	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	MARINER	2005 - 2010	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	MILAN	2006 - 2010	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	MONTEGO	2005 - 2008	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	SABLE	2001 - 2005	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	TAURUS	2001 - 2005	V6	DURATEC 30	F.I.	D.O.H.C.	YF1Z 6148 BA	SWF30021
2967	3.0L	181	FUSION	2011 - 2012	V6	DURATEC 30	F.I.	D.O.H.C.	AL8Z 6148 A	SWF30021
2967	3.0L	181	ESCAPE	2011 - 2012	V6	DURATEC 30	F.I.	D.O.H.C.	AL8Z 6148 A	SWF30021
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F8CZ 6108 AA	X		82.42	1.20	1.50		3.00		VIN-L, 24 VALVE
			3.245	0.047	0.059		0.118		
F5RZ 6100 BA	X		82.42	1.20	1.50		3.00		VIN-L, 24 VALVE
F5RZ 6100 BA	X		3.245	0.047	0.059		0.118		VIN-L, 24 VALVE
F5RZ 6100 BA	X								VIN-L, 24 VALVE
1U2Z 6100 AA	X		82.42	1.20	1.50		3.00		24 VALVE
1U2Z 6100 AA	X		3.245	0.047	0.059		0.118		24 VALVE
1U2Z 6100 AA	X								24 VALVE
-	X		83.00						w/ TURBO, 24 VALVE
			3.268	0.000	0.000		0.000		
E6TZ 6100 A	X		93.00	1.60	1.75		3.50		
E6TZ 6100 A	X		3.661	0.063	0.069		0.138		
FORY 6102 A	X		93.00	1.60	1.75		3.50		
FORY 6102 A	X		3.661	0.063	0.069		0.138		
FORY 6102 A	X								
FOTZ 6100 E	X		93.00	1.60	1.75		3.50		
FOTZ 6100 E	X		3.661	0.063	0.069		0.138		
F7XZ 6108 AA	11-603	297	87.00	1.50	1.50		2.80		NISSAN Engine, 12 VALVE
			3.425	0.059	0.059		0.110		
8E5Z 6100 A	X		89.00	1.20	1.50		2.50		REF, V, 24 VALVE
			3.504	0.047	0.059		0.098		
6E5Z 6100 BA	11-868		89.00	1.20	1.50		2.50		REF, V, 24 VALVE
6E5Z 6100 BA	11-868		3.504	0.047	0.059		0.098		REF, 24 VALVE
6E5Z 6100 BA	11-868								REF, 24 VALVE
6E5Z 6100 BA	11-868								VVT, 24 VALVE
6E5Z 6100 BA	11-868								DAMB, 24 VALVE
6E5Z 6100 BA	11-868								REF, 24 VALVE
6E5Z 6100 BA	11-868								VVT, 24 VALVE
6E5Z 6100 BA	11-868								REF, 24 VALVE
6E5Z 6100 BA	11-868								REF, VIN-S, 24 VALVE
6E5Z 6100 BA	11-868								REF, VIN-S, 24 VALVE
3W4Z 6108 A	X		89.00	1.20	1.50		2.50		VVT, 24 VALVE
			3.504	0.047	0.059		0.098		
9L8Z 6108 A	X		89.00	1.20	1.50		2.50		REF, V, 24 VALVE
			3.504	0.047	0.059		0.098		
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

2982	3.0L	182	LS	2000 - 2001	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	SWG10004
2982	3.0L	182	SABLE	1996 - 2000	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	SWG10004
2982	3.0L	182	TAURUS	1996 - 2000	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	SWG10004
2983	3.0L	182	AEROSTAR	1986 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWI10155
2983	3.0L	182	PROBE	1990 - 1992	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWI10155
2983	3.0L	182	RANGER	1991 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWI10155
2983	3.0L	182	SABLE	1986 - 1995	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	SWI10155
2983	3.0L	182	TAURUS	1986 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWI10155
2983	3.0L	182	TEMPO	1992 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWI10155
2983	3.0L	182	TOPAZ	1992 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	SWI10155
2983	3.0L	182	AEROSTAR	1995 - 1997	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWT20075
2983	3.0L	182	RANGER	1995 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWT20075
2983	3.0L	182	SABLE	1996 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	SWT20075
2983	3.0L	182	TAURUS	1995 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWT20075
2983	3.0L	182	WINDSTAR	1995 - 2000	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	SWT20075
2997	3.0L	183	RANGER	1999 - 2008	V6	VULCAN V6	F.I.	O.H.V.	4F1Z 6148 CA	SWF30016
2997	3.0L	183	SABLE	1999 - 2001	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	SWF30016
2997	3.0L	183	SABLE	2002 - 2005	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	SWF30016
2997	3.0L	183	TAURUS	1999 - 2001	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	SWF30016
2997	3.0L	183	TAURUS	2002 - 2005	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	SWF30016
3272	3.3L	200	VILLAGER	1998 - 2002	V6	VG33E	F.I.	S.O.H.C.	XF5Z 6148 AA	SWN30120
3496	3.5L	213	EDGE	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	FLEX	2009 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	FUSION	2010 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKX	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKZ	2007 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	SABLE	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS X	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	EDGE	2011 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	EXPLORER	2011 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS	2013 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS X	2013 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKS	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKS	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS SHO	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	TAURUS SHO	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
XW4Z 6100 CA	X		89.00	1.20	1.50		3.00		DAMB, VIN-S, 24 VALVE
XW4Z 6100 CA	X		3.504	0.047	0.059		0.118		REF, VIN-S, 24 VALVE
XW4Z 6100 CA	X								REF. VIN-S, 24 VALVE
F5DZ 6108 EA	11-825	332	89.00	1.50	1.50		4.00		VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332	3.504	0.059	0.059		0.157		MAZDA Engine, VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EA	11-825	332							VIN-U, 12 VALVE
F5DZ 6108 EB	11-825	332	89.00	1.50	1.50		4.00		VIN-S, 12 VALVE
F5DZ 6108 EB	11-825	332	3.504	0.059	0.059		0.157		VIN-S, 12 VALVE
F5DZ 6108 EB	11-825	332							VIN-S, 12 VALVE
F5DZ 6108 EB	11-825	332							VIN-S, 12 VALVE
F5DZ 6108 EB	11-825	332							VIN-S, 12 VALVE
1U2Z 6108 CA	11-874	343	89.00	1.50	1.50		3.00		VIN-U, 12 VALVE
1U2Z 6108 CA	11-874	343	3.504	0.059	0.059		0.118		VIN-U, 12 VALVE
2F1Z 6108 AA	11-874	343							VIN-U, 12 VALVE
1U2Z 6108 CA	11-874	343							VIN-U, 12 VALVE
2F1Z 6108 AA	11-874	343							VIN-U, 12 VALVE
XF5Z 6108 AA	X		91.50	1.50	1.50		2.80		NISSAN Engine, 12 VALVE
			3.602	0.059	0.059		0.110		
9T4Z 6108 B*	X		92.50	1.20	1.50		2.50		24 VALVE
9T4Z 6108 B	X		3.642	0.047	0.059		0.098		24 VALVE
9T4Z 6108 B	X								24 VALVE
9T4Z 6108 B*	X								24 VALVE
9T4Z 6108 B*	X								24 VALVE
9T4Z 6108 B*	X								24 VALVE
9T4Z 6108 B	X								Cyclone, 24 VALVE
9T4Z 6108 B	X								Cyclone, 24 VALVE
AT4Z 6108 C	X		92.50	1.20	1.50		2.50		24 VALVE
AT4Z 6108 C	X		3.642	0.047	0.059		0.098		24 VALVE
AT4Z 6108 C	X								Cyclone, 24 VALVE
AT4Z 6108 C	X								Cyclone, 24 VALVE
AA5Z 6108 P	X		92.50	1.20	1.50		2.50		RIGHT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 N	X		92.50	1.20	1.50		2.50		LEFT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 P	X		3.642	0.047	0.059		0.098		RIGHT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 N	X		3.642	0.047	0.059		0.098		LEFT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 P	X								RIGHT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 N	X								LEFT, DAMB, w/ TURBO, 24 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

3496	3.5L	213	EXPLORER	2011 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	F150	2015 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	FLEX	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	TBA
3496	3.5L	213	MKS	2012 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	NA
3496	3.5L	213	MKS	2012 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	NA
3496	3.5L	213	MKT	2013 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	NA
3496	3.5L	213	MKT	2013 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	NA
3496	3.5L	213	F150	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	NA
3496	3.5L	213	F150	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	NA
3721	3.7L	227	MKS	2008 - 2012	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MKT	2010 - 2011	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MKS	2013 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MKT	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	EDGE SPORT	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	F150	2011 - 2014	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MKX	2010 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MKZ	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	NA
3721	3.7L	227	MUSTANG	2010 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 8148 C	NA
3802	3.8L	232	CAPRI	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	CONTINENTAL	1982 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	COUGER	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	COUGER XR7	1981 - 1982	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	GRANADA	1982 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	LTD	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	MARQUIS	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	MUSTANG	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	PICKUP	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	THUNDERBIRD	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	CAPRI	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	COUGER	1984 - 1987	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	LTD	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	MARQUIS	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	MUSTANG	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
3802	3.8L	232	THUNDERBIRD	1984 - 1987	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	SWF30015
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
AT4Z 6108 C	X		92.50	1.20	1.50		2.50		DAMB (DURATEC 35 block), w/ TURBO, 24 VALVE
AT4Z 6108 C	X		3.642	0.047	0.059		0.098		DAMB (DURATEC 35 block), w/ TURBO, 24 VALVE
AT4Z 6108 C	X								DAMB (DURATEC 35 block), w/ TURBO, 24 VALVE
AA5Z 6108 P	X		92.50						RIGHT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 N	X		92.50						LEFT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 P	X		3.642	0.000	0.000		0.000		RIGHT, DAMB, w/ TURBO, 24 VALVE
AA5Z 6108 N	X		3.642	0.000	0.000		0.000		LEFT, DAMB, w/ TURBO, 24 VALVE
BL3Z 6108 F	X		92.50						RIGHT, DAMB, w/ TURBO, 24 VALVE
BL3Z 6108 G	X		92.50						LEFT, DAMB, w/ TURBO, 24 VALVE
			3.642	0.000	0.000		0.000		
			3.642	0.000	0.000		0.000		
9A5Z 6108 A	X		95.50						24 VALVE
9A5Z 6108 A	X		3.760	0.000	0.000		0.000		24 VALVE
9A5Z 6108 J	X		95.50						24 VALVE
9A5Z 6108 J	X		3.760	0.000	0.000		0.000		24 VALVE
BA5Z 6108 L	X		95.50						SPORT, 24 VALVE
BA5Z 6108 L	X		3.760	0.000	0.000		0.000		24 VALVE
BA5Z 6108 L	X								24 VALVE
BA5Z 6108 L	X								24 VALVE
BA5Z 6108 L	X								24 VALVE
E2DZ 6108 AB	X		96.80	2.00	2.00		4.00		RED, 12 VALVE
E2DZ 6108 AB	X		3.811	0.079	0.079		0.157		RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E2DZ 6108 AB	X								RED, 12 VALVE
E4DZ 6108 A	X		96.80	2.00	2.00		4.00		RED, 12 VALVE
E4DZ 6108 A	X		3.811	0.079	0.079		0.157		RED, 12 VALVE
E4DZ 6108 A	X								RED, 12 VALVE
E4DZ 6108 A	X								RED, 12 VALVE
E4DZ 6108 A	X								RED, 12 VALVE
E4DZ 6108 A	X								RED, 12 VALVE
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

3802	3.8L	232	CONTINENTAL	1988 - 1993	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	CONTINENTAL	1994 ONLY	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	COUGER	1988 - 1993	V6	ESSEX V6 38	F.I.	O.H.V.	E8DZ 6148 A	SWF30013
3802	3.8L	232	COUGER	1994 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	FREESTAR	1995 - 2006	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	MUSTANG	1994 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	SABLE	1988 - 1991	V6	ESSEX V6 38	F.I.	O.H.V.	E8DZ 6148 A	SWF30013
3802	3.8L	232	SABLE	1992 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	TAURUS	1988 - 1993	V6	ESSEX V6 38	F.I.	O.H.V.	E8DZ 6148 A	SWF30013
3802	3.8L	232	TAURUS	1994 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	THUNDERBIRD	1988 - 1993	V6	ESSEX V6 38	F.I.	O.H.V.	E8DZ 6148 A	SWF30013
3802	3.8L	232	THUNDERBIRD	1994 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	WINDSTAR	1995 ONLY	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	COUGER	1989 - 1990	V6	ESSEX V6 38	F.I.	O.H.V.	E9SZ 6148 B	SWF30013
3802	3.8L	232	THUNDERBIRD	1989 - 1993	V6	ESSEX V6 38	F.I.	O.H.V.	E9SZ 6148 B	SWF30013
3802	3.8L	232	THUNDERBIRD	1994 - 1995	V6	ESSEX V6 38	F.I.	O.H.V.	F4DZ 6148 A	SWF30013
3802	3.8L	232	COUGER	1996 - 1997	V6	ESSEX V6 38	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
3802	3.8L	232	THUNDERBIRD	1996 - 1997	V6	ESSEX V6 38	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
3802	3.8L	232	MUSTANG	1996 - 1998	V6	ESSEX V6 38	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
3802	3.8L	232	WINDSTAR	1996 - 2005	V6	ESSEX V6 38	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
3802	3.8L	232	MUSTANG	1999 - 2004	V6	ESSEX V6 38	F.I.	O.H.V.	2L3Z 6148 KA	SWF30004
3887	3.9L	237	FREESTAR	2004 - 2006	V6	ESSEX V6 39	F.I.	O.H.V.	-	NA
3887	3.9L	237	WINDSTAR	2004 - 2005	V6	ESSEX V6 39	F.I.	O.H.V.	-	NA
3933	3.9L	240	CLUB WAGON	1974 ONLY	6	240 CDI	CARB	O.H.V.	C3AZ 6148 F	SWF80017
3933	3.9L	240	ECONOLINE E100	1974 ONLY	6	240 CDI	CARB	O.H.V.	C3AZ 6148 F	SWF80017
3933	3.9L	240	ECONOLINE E200	1974 ONLY	6	240 CDI	CARB	O.H.V.	C3AZ 6148 F	SWF80017
3933	3.9L	240	PICKUP	1974 ONLY	6	240 CDI	CARB	O.H.V.	C3AZ 6148 F	SWF80017
3934	3.9L	240	LS	2000 - 2006	V8	AJ35	F.I.	D.O.H.C.	XW4Z 6148 BA	NA
3934	3.9L	240	THUNDERBIRD	2002 - 2006	V8	AJ35	F.I.	D.O.H.C.	XW4Z 6148 AA	NA
4015	4.0L	245	EXPLORER	1997 - 1998	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	MOUNTAINEER	1998 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	RANGER	1998 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	MOUNTAINEER	2000 - 2001	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
E9DZ 6108 GB	X		96.80	1.50	1.50		4.00		
E9DZ 6108 GB	X		3.811	0.059	0.059		0.157		
E9DZ 6108 GB	X								Normally Aspirated, RED
E9DZ 6108 GB	X								RED
E9DZ 6108 GB	X								12 VALVE
E9DZ 6108 GB	X								12 VALVE
E9DZ 6108 GB	X								Normally Aspirated
E9DZ 6108 GB	X								
E9DZ 6108 GB	X								WAGON
E9DZ 6108 GB	X								WAGON
E9DZ 6108 GB	X								Normally Aspirated
E9DZ 6108 GB	X								Normally Aspirated, 12 VALVE
E9DZ 6108 GB	X								12 VALVE
F6SZ 6108 BA	X		96.80	1.50	1.50		4.00		Supercharger
F6SZ 6108 BA	X		3.811	0.059	0.059		0.157		Supercharger
F4SZ 6108 A	X		96.80	1.50	1.50		4.00		Supercharger
			3.811	0.059	0.059		0.157		
F6ZZ 6108 A	X		96.80	1.50	1.50		3.00		RED, 12 VALVE
F6ZZ 6108 A	X		3.811	0.059	0.059		0.118		RED, 12 VALVE
F6ZZ 6108 AA	X		96.80	1.50	1.50		3.00		RED, 12 VALVE
F6ZZ 6108 AA	X		3.811	0.059	0.059		0.118		RED, 12 VALVE
XR3Z 6108 AA	X		96.80	1.50	1.50		3.00		12 VALVE
			3.811	0.059	0.059		0.118		
-	X		96.80	1.50	1.50		3.00		12 VALVE
-	X		3.811	0.059	0.059		0.118		12 VALVE
C8AZ 6108 CB	X		101.60	1.98	1.98		4.76		
C8AZ 6108 CB	X		4.000	0.078	0.078		0.188		
C8AZ 6108 CB	X								
C8AZ 6108 CB	X								
XW4Z 6200 CA	X		86.00	1.20	1.50		2.50		32 VALVE
XW4Z 6200 CA	X		3.386	0.047	0.059		0.098		32 VALVE
F7TZ 6100 AA	X		100.40	1.60	1.75		3.50		VIN-E, 12 VALVE
F7TZ 6100 AA	X		3.953	0.063	0.069		0.138		VIN-E, 12 VALVE
F7TZ 6100 AA	X								VIN-E, 12 VALVE
F7TZ 6108 UA	X								VIN-E, 12 VALVE
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

4015	4.0L	245	EXPLORER	1999 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	MOUNTAINEER	1999 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	RANGER	1999 - 2000	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	SWT20072
4015	4.0L	245	EXPLORER	2001 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	SWF30012
4015	4.0L	245	Explorer Sports	2001 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	SWF30012
4015	4.0L	245	MOUNTAINEER	2002 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	SWF30012
4015	4.0L	245	RANGER	2001 - 2011	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	SWF30012
4015	4.0L	245	MUSTANG	2005 - 2009	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	SWF30012
4025	4.0L	246	AEROSTAR	1990 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	RANGER	1990 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	EXPLORER	1991 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	AEROSTAR	1995 - 1997	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	EXPLORER	1995 - 1999	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	RANGER	1995 - 1997	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4025	4.0L	246	EXPLORER	2000 - 2001	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	SWT20072
4195	4.2L	256	CLUB WAGON	1997 - 1998	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	ECONOLINE E150	1997 - 2002	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	ECONOLINE E250	1997 - 2002	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	F150	1997 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	FREESTAR	2004 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	MONTEREY	2004 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4195	4.2L	256	WINDSTAR	2004 - 2005	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	SWF30004
4605	4.6L	281	CONTINENTAL	1995 - 1997	V8	INTECH 46	F.I.	D.O.H.C.	F5LY 6148 A	SWF30006
4605	4.6L	281	MARK VIII	1993 - 1994	V8	INTECH 46	F.I.	D.O.H.C.	F3LY 6148 A	SWF30006
4605	4.6L	281	MARK VIII	1995 - 1997	V8	INTECH 46	F.I.	D.O.H.C.	F5LY 6148 A	SWF30006
4605	4.6L	281	MUSTANG	1996 - 1998	V8	TRITON 46C	F.I.	D.O.H.C.	F5LY 6148 A	SWF30006
4605	4.6L	281	COUGER	1994 - 1995	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	SWF30006*
4605	4.6L	281	COUGER	1996 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	Crown Victoria	1992 - 1994	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	SWF30006*
4605	4.6L	281	Crown Victoria	1995 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E150	2000 - 2002	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	EXPEDITON	1997 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	F150	1997 - 2002	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	Grand Marquis	1992 - 1995	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	SWF30006*
SWF30006 CONTINUED										
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
XL2Z 6100 AA	X		100.40	1.60	1.75		3.50		VIN-E, 12 VALVE
XL2Z 6100 AA	X		3.953	0.063	0.069		0.138		VIN-E, 12 VALVE
XL2Z 6100 AA	X								VIN-E, 12 VALVE
XL2Z 6108 AA	X								12 VALVE
XL2Z 6108 AA	X								Incl. TRUCK, 12 VALVE
XL2Z 6108 AA	X								12 VALVE
XL2Z 6108 AA	X								12 VALVE
2U3Z 6108 AA	X		100.40	1.20	1.50		3.00		12 VALVE
			3.953	0.047	0.059		0.118		
F2TZ 6108 EB	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
F2TZ 6108 EB	X		3.953	0.063	0.069		0.138		VIN-X, 12 VALVE
FOTZ 6100 B	X		100.40	1.60	1.75		3.50		12 VALVE
			3.953	0.063	0.069		0.138		
F5TZ 6100 A	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
F5TZ 6100 A	X		3.953	0.063	0.069		0.138		VIN-X, 12 VALVE
F5TZ 6100 A	X								VIN-X, 12 VALVE
F8TZ 6100 AA	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
			3.953	0.063	0.069		0.138		
XL3Z 6108 AA	11-826	332	96.80	1.50	1.50		3.00		12 VALVE
XL3Z 6108 AA	11-826	332	3.811	0.059	0.059		0.118		12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							VIN-2, 12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
F3LZ 6108 DA	X		90.20	1.50	1.50		3.00		MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X		3.551	0.059	0.059		0.118		MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X								MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X								MODULAR COBRA, VIN-V, 32 VALVE
F8AZ 6108 AA	11-820	331	90.20	1.50	1.50		3.00		MODULAR GT, RED, 16 VALVE
F8AZ 6108 AA	11-820	331	3.551	0.059	0.059		0.118		MODULAR GT, RED, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, Code W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
11-820 CONTINUED									
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

4605	4.6L	281	Grand Marquis	1996 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	SWF30006
4605	4.6L	281	MUSTANG	1996 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	MUSTANG	1996 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	THUNDERBIRD	1994 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	TOWN CAR	1991 - 1994	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	SWF30006*
4605	4.6L	281	TOWN CAR	1995 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E150	1997 - 1999	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	EXPEDITON	1997 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	F150	2001 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	Grand Marquis	1996 ONLY	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	PICKUP	1997 - 1999	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	CLUB WAGON	1997 - 1998	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	Crown Victoria	2001 - 2002	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	SWF30006
4605	4.6L	281	Crown Victoria	2003 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	1L2Z 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E150	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E250	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	EXPLORER	2002 - 2005	V8	TRITON 46GT	F.I.	S.O.H.C.	1L2Z 6148 AA	SWF30006
4605	4.6L	281	F150	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	Grand Marquis	2001 - 2011	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	SWF30006
4605	4.6L	281	MOUNTAINEER	2002 - 2005	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	MUSTANG	2000 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	TOWN CAR	2002 - 2011	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	SWF30006
4605	4.6L	281	ECONOLINE E150	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E250	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	F150	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
4605	4.6L	281	ECONOLINE E150	2009 - 2015	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
4605	4.6L	281	ECONOLINE E250	2009 - 2015	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
4605	4.6L	281	F150	2009 - 2010	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
4605	4.6L	281	EXPLORER	2006 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	Explorer Sports	2007 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	MOUNTAINEER	2006 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	MUSTANG	2005 - 2009	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	SWF30006
4605	4.6L	281	CONTINENTAL	1998 - 1999	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	SWF30008
4605	4.6L	281	MARK VIII	1998 ONLY	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	SWF30008
4605	4.6L	281	TOWN CAR	1998 - 2001	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	SWF30008
4605	4.6L	281	MUSTANG	1999 - 2002	V8	TRITON 46C	F.I.	D.O.H.C.	F8LZ 6148 AA	SWF30008

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F8AZ 6108 AA	11-820	331	90.20	1.50	1.50		3.00		MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331	3.551	0.059	0.059		0.118		MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, VIN-X, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
XC2Z 6108 CA	X		90.20	1.50	1.50		3.00		MODULAR GT, Code 6, 16 VALVE
XC2Z 6108 CA	X		3.551	0.059	0.059		0.118		MODULAR GT, VIN-6, 16 VALVE
XC2Z 6108 CA	X								MODULAR GT, VIN-6, 16 VALVE
XC2Z 6108 CA	X								MODULAR GT, VIN-6, 16 VALVE
XC2Z 6108 CA	X								MODULAR GT, VIN-6, 16 VALVE
F5DZ 6108A	X		90.20	1.50	1.50		3.00		MODULAR GT, 16 VALVE
			3.551	0.059	0.059		0.118		
1L2Z 6108 AA	X		90.20	1.50	1.50		3.00		MODULAR GT, 16 VALVE
1L2Z 6108 AA	X		3.551	0.059	0.059		0.118		MODULAR GT, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, Code W, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, Code W, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, VIN-W, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, 16 VALVE
1L2Z 6108 AA	X								MODULAR GT, 16 VALVE
2L2Z 6108 MA	X		90.20	1.50	1.50		3.00		MODULAR GT, Code W, 16 VALVE
2L2Z 6108 MA	X		3.551	0.059	0.059		0.118		MODULAR GT, Code W, 16 VALVE
2L2Z 6108 MA	X								MODULAR GT, VIN-W, 16 VALVE
8L2Z 6108 H	X		90.20	1.50	1.50		3.00		MODULAR GT, Code W, 16 VALVE
8L2Z 6108 H	X		3.551	0.059	0.059		0.118		MODULAR GT, Code W, 16 VALVE
8L2Z 6108 H	X								MODULAR GT, VIN-W, 16 VALVE
8R3Z 6100 G	11-903	350	90.20	1.50	1.50		3.00		MODULAR VCT, 24 VALVE
8R3Z 6100 G	11-903	350	3.551	0.059	0.059		0.118		MODULAR VCT, 24 VALVE
8R3Z 6100 G	11-903	350							MODULAR VCT, 24 VALVE
8R3Z 6100 G	11-903	350							MODULAR VCT, 24 VALVE
XR3Z 6108 HA	X		90.20	1.20	1.50		3.00		MODULAR COBRA, 32 VALVE
XR3Z 6108 HA	X		3.551	0.047	0.059		0.118		MODULAR COBRA, 32 VALVE
XR3Z 6108 HA	X								MODULAR COBRA, 32 VALVE
XL3Z 6108 HA	X		90.20	1.20	1.50		3.00		MODULAR COBRA, 32 VALVE
			3.551	0.047	0.059		0.118		
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

4605	4.6L	281	CONTINENTAL	2000 - 2002	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	SWF30008
4605	4.6L	281	AVIATOR	2003 - 2006	V8	TRITON 46C	F.I.	D.O.H.C.	-	NA
4605	4.6L	281	MARAUDER	2003 - 2005	V8	TRITON 46C	F.I.	D.O.H.C.	-	NA
4916	4.9L	300	CLUB WAGON	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E100	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F100	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	CLUB WAGON	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E100	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E150	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E250	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E350	1977 - 1981	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F100	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F150	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F250	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F350	1977 - 1981	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	CLUB WAGON	1974 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E100	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E150	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E200	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E250	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E250	1982 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E300	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E350	1975 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F150	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F250	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F250	1982 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F350	1975 - 1985	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	PICKUP	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	BRONCO	1980 - 1982	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	CLUB WAGON	1977 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E100	1977 - 1983	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E150	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	ECONOLINE E250	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F100	1977 - 1983	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F150	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F250	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	BRONCO	1983 - 1989	6	straight-6 300	C & F	O.H.V.	F6DZ 6148 RA	SWF80017
4916	4.9L	300	CLUB WAGON	1987 - 1989	6	straight-6 300	F.I.	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F150	1985 - 1989	6	straight-6 300	C & F	O.H.V.	C3AZ 6148 F	SWF80017
4916	4.9L	300	F250	1985 - 1989	6	straight-6 300	C & F	O.H.V.	C3AZ 6148 F	SWF80017

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
XR3Z 6108 GA	X		90.20	1.20	1.50		3.00		MODULAR COBRA, 32 VALVE
			3.551	0.047	0.059		0.118		
2C5Z 6108 AB	X		90.20						MODULAR COBRA, 32 VALVE
2C5Z 6108 AB	X		3.551	0.000	0.000		0.000		MODULAR COBRA, 32 VALVE
C8AZ 6108 CB	X		101.60	1.98	1.98		4.76		E100
C8AZ 6108 CB	X		4.000	0.078	0.078		0.188		
C8AZ 6108 CB	X								
D3TZ 6108 GB	X		101.60	1.98	1.98		4.76		E100, E150, E250, E350, Code K
D3TZ 6108 GB	X		4.000	0.078	0.078		0.188		Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
D3TZ 6108 GB	X								Code K
E4TZ 6108 P	X		101.60	1.98	1.98		4.76		E150, E250, E350, Code B & C
E4TZ 6108 P	X		4.000	0.078	0.078		0.188		Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E4TZ 6108 P	X								Code B & C
E2TZ 6108 AB	X		101.60	1.98	1.98		4.76		
E2TZ 6108 AB	X		4.000	0.078	0.078		0.188		E100, E150, E250, Code B & C
E2TZ 6108 AB	X								Code B & C
E2TZ 6108 AB	X								Code B & C
E2TZ 6108 AB	X								Code B & C
E2TZ 6108 AB	X								Code B & C
E2TZ 6108 AB	X								
E2TZ 6108 AB	X								
F5DZ 6108 A	X		101.60	1.98	1.98		4.76		VIN-Y
F5DZ 6108 A	X		4.000	0.078	0.078		0.188		E150, E250, E350
F5DZ 6108 A	X								
F5DZ 6108 A	X								
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
D3OZ 6108 A	X		101.60	1.98	1.98		4.76		
D3OZ 6108 A	X		4.000	0.078	0.078		0.188		
D3OZ 6108 A	X								
D3OZ 6108 A	X								
D3OZ 6108 A	X								
D3OZ 6108 A	X								
E6TZ 6108 AB	X		101.60	1.98	1.98		4.76		
E6TZ 6108 AB	X		4.000	0.078	0.078		0.188		Steel Valve Cover, RED
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								RED
E6TZ 6108 AB	X								RED
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								Steel Valve Cover
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								w/ VTECH, Steel Valve Cover
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								Steel Valve Cover
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								RED
E6TZ 6108 AB	X								RED
E6TZ 6108 AB	X								w/ VTECH, Steel Valve Cover
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								Steel Valve Cover
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X		101.60	1.98	1.98		4.76		Aluminum Valve Cover, RED
E6TZ 6108 AB	X		4.000	0.078	0.078		0.188		Aluminum Valve Cover, RED
E6TZ 6108 AB	X								Aluminum Valve Cover
E6TZ 6108 AB	X								w/ VTECH, Aluminum Valve Cover
E6TZ 6108 AB	X								Aluminum Valve Cover
E6TZ 6108 AB	X								w/ VTECH, Aluminum Valve Cover
E6TZ 6108 AB	X								Aluminum Valve Cover
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

4949	4.9L	302	BRONCO	1986 ONLY	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	SWF80016
4949	4.9L	302	CLUB WAGON	1982 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	SWF80016
4949	4.9L	302	ECONOLINE E150	1986 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	SWF80016
4949	4.9L	302	ECONOLINE E250	1987 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	SWF80016
4949	4.9L	302	F150	1986 ONLY	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	SWF80016
4949	4.9L	302	F250	1985 - 1986	V8	WINDSOR 302	C & F	O.H.V.	E6TZ 6148 A	SWF80016
4951	5.0L	302	F150	2011 - 2015	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	TBA
4951	5.0L	302	MUSTANG	2010 - 2015	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	TBA
5408	5.4L	330	EXCURSION	1999 - 2006	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	EXPEDITON	1999 - 2004	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F150	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F250	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F350	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	NAVIGATOR	1999 ONLY	V8	INTECH 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	CLUB WAGON	1997 - 1998	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	ECONOLINE E150	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	ECONOLINE E250	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	ECONOLINE E350	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	ECONOLINE E450	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	EXCURSION	2000 ONLY	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	EXPEDITON	1997 - 2000	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F150	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F250	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F350	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5408	5.4L	330	F450	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	NAVIGATOR	1998 - 1999	V8	INTECH 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5408	5.4L	330	ECONOLINE E150	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5408	5.4L	330	ECONOLINE E250	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5408	5.4L	330	ECONOLINE E350	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5408	5.4L	330	ECONOLINE E450	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5408	5.4L	330	F450	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5409	5.4L	330	BLACKWOOD	2002 ONLY	V8	TRITON 54	F.I.	D.O.H.C.	6L3Z 6148 A	SWF30006
5409	5.4L	330	NAVIGATOR	1999 - 2004	V8	INTECH 54	F.I.	D.O.H.C.	2L3Z 6148 AA	SWF30006
5409	5.4L	330	GT	2004 - 2006	V8	TRITON 54	F.I.	D.O.H.C.	6L3Z 6148 A*	SWF30006

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
E6TZ 6108 AB	X		101.60	1.98	1.98		4.76		
E6TZ 6108 AB	X		4.000	0.078	0.078		0.188		
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
E6TZ 6108 AB	X								
BL3Z 6108 N	X		92.20	1.20	1.20		2.50		MODULAR, 32 VALVE
			3.630	0.047	0.047		0.098		
BR3Z 6108 FB	X		92.20	1.20	1.20		2.50		MODULAR, 32 VALVE
			3.630	0.047	0.047		0.098		
XL3Z 6148 KA	11-809	330	90.20	1.50	1.50		3.00		MODULAR, 16 VALVE
XL3Z 6148 KA	11-809	330	3.551	0.059	0.059		0.118		MODULAR, 16 VALVE
XL3Z 6148 KA	11-809	330							MODULAR, 16 VALVE
XL3Z 6148 KA	11-809	330							MODULAR, 16 VALVE
XL3Z 6148 KA	11-809	330							MODULAR, 16 VALVE
XL3Z 6148 KA	11-809	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330	90.20	1.50	1.50		3.00		MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330	3.551	0.059	0.059		0.118		MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
XC3Z 6108 CA	11-810	330							MODULAR, 16 VALVE
2L3Z 6108 AA	X		90.20	1.50	1.50		3.00		MODULAR, 16 VALVE
2L3Z 6108 AA	X		3.551	0.059	0.059		0.118		MODULAR, 16 VALVE
2L3Z 6108 AA	X								MODULAR, 16 VALVE
2L3Z 6108 AA	X								MODULAR, 16 VALVE
2L3Z 6108 AA	X								MODULAR, 16 VALVE
XL7Z 6108 CA	X		90.20	1.50	1.50		3.00		MODULAR, 32 VALVE
XL7Z 6108 CA	X		3.551	0.059	0.059		0.118		MODULAR, 32 VALVE
-	X		90.20	1.50	1.50		3.00		MODULAR, 32 VALVE
			3.551	0.059	0.059		0.118		
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

5409	5.4L	330	EXPEDITON	2005 - 2015	V8	TRITON 54V	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5409	5.4L	330	F150	2004 - 2010	V8	TRITON 54V	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5409	5.4L	330	F250	2004 - 2010	V8	TRITON 54V	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5409	5.4L	330	F350	2004 - 2010	V8	TRITON 54V	F.I.	S,O,H,C,	2L3Z 6148 AA	SWF30006
5409	5.4L	330	MARK LT	2005 - 2008	V8	INTECH 54	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30006
5409	5.4L	330	NAVIGATOR	2005 - 2015	V8	TRITON 54V	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30006
5409	5.4L	330	SHELBY GT500	2007 - 2012	V8	TRITON 54	F.I.	D.O.H.C.	4G7Z 6148 AA	SWF30006
5752	5.8L	351	BRONCO	1978 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CLUB WAGON	1977 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E100	1977 - 1983	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E150	1977 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E250	1977 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E350	1977 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	PICKUP	1977 - 1981	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	BRONCO	1978 - 1993	V8	WINDSOR 351	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CLUB WAGON	1975 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CLUB WAGON	1985 - 1996	V8	WINDSOR 351	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CONTINENTAL	1980 ONLY	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E100	1975 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E150	1975 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E150	1985 - 1993	V8	WINDSOR 351	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E250	1975 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E250	1985 - 1993	V8	WINDSOR 351	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E350	1975 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E350	1985 - 1993	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	Grand Marquis	1980 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	LTD	1980 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	LTD Crown Victoria	1980 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	MARK VI	1980 ONLY	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	MARQUIS	1980 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	PICKUP	1976 - 1981	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	BRONCO	1987 - 1989	V8	WINDSOR 351	F.I.	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CONTINENTAL	1987 ONLY	V8	WINDSOR 351	F.I.	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	COUGER	1984 - 1985	V8	WINDSOR 351	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	COUGER	1991 ONLY	V8	WINDSOR 351	F.I.	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	BRONCO	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	CLUB WAGON	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E150	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	ECONOLINE E250	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
SWF80016 CONTINUED										
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
3L3Z 6108 CC	11-853	338	90.20	1.50	1.50		3.00		MODULAR VCT, 24 VALVE
3L3Z 6108 CC	11-853	338	3.551	0.059	0.059		0.118		MODULAR VCT, 24 VALVE
3L3Z 6108 CC	11-853	338							MODULAR VCT, 24 VALVE
3L3Z 6108 CC	11-853	338							MODULAR VCT, 24 VALVE
3L3Z 6108 CC	11-853	338							MODULAR VCT, 24 VALVE
3L3Z 6108 CC	11-853	338							MODULAR VCT, 24 VALVE
BR3Z 6100 B	X		90.20	1.50	1.50		3.00		MODULAR, 32 VALVE
			3.551	0.059	0.059		0.118		
D5AZ 6108 A	X		101.60	1.98	1.98		4.76		
D5AZ 6108 A	X		4.000	0.078	0.078		0.188		Modified
D5AZ 6108 A	X								Modified
D5AZ 6108 A	X								Modified
D5AZ 6108 A	X								Modified
D5AZ 6108 A	X								Modified
D9AZ 6108 GB	X		101.60	1.98	1.98		4.76		
D9AZ 6108 GB	X		4.000	0.078	0.078		0.188		Windsor
D9AZ 6108 GB	X								E150, E250, E350
D9AZ 6108 GB	X								
D9AZ 6108 GB	X								Windsor
D9AZ 6108 GB	X								Windsor
D9AZ 6108 GB	X								
D9AZ 6108 GB	X								Windsor
D9AZ 6108 GB	X								Windsor
D9AZ 6108 GB	X								
D9AZ 6108 GB	X								
D9AZ 6108 GB	X								
D9AZ 6108 GB	X								RED
D9AZ 6108 GB	X								Windsor
E6TZ 6108 AB	X		101.60	1.98	1.98		4.76		
E6TZ 6108 AB	X		4.000	0.078	0.078		0.188		
E6TZ 6108 AB	X								Steel Valve Cover, RED
E6TZ 6108 AB	X								
F5DZ 6108 A	X		101.60	1.98	1.98		4.76		
F5DZ 6108 A	X		4.000	0.078	0.078		0.188		
F5DZ 6108 A	X								
F5DZ 6108 A	X								
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

5752	5.8L	351	ECONOLINE E350	1982 - 1987	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	F150	1985 - 1989	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	F250	1985 - 1994	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	F350	1985 - 1994	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	SWF80016
5752	5.8L	351	PICKUP	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	SWF80016
5808	5.8L	354	SHELBY GT500	2013 - 2015	V8	TRITON 58	F.I.	D.O.H.C.	-	NA
5889	5.9L	359	F650	2004 - 2007	6	ISB 5.9	DIESEL	O.H.V.	4089258	SDC10022
5889	5.9L	359	F750	2004 - 2007	6	ISB 5.9	DIESEL	O.H.V.	4089258	SDC10022
5954	6.0L	363	ECONOLINE E350	2004 - 2010	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	ECONOLINE E450	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	ECONOLINE E550	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	EXCURSION	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	F250	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	F350	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	F450	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5954	6.0L	363	F550	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	TBA
5981	6.0L	365	F650	2004 - 2007	6	VT365	DIESEL		-	NA
5981	6.0L	365	F750	2004 - 2007	6	VT365	DIESEL		-	NA
6211	6.2L	379	F150	2011 - 2014	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 6148 D	NA
6211	6.2L	379	F250	2011 - 2015	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 3148 D	NA
6211	6.2L	379	F350	2011 - 2015	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 3148 D	NA
6400	6.4L	391	ECONOLINE E450	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6400	6.4L	391	ECONOLINE E550	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6400	6.4L	391	F250	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6400	6.4L	391	F350	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6400	6.4L	391	F450	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6400	6.4L	391	F550	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	SDF30022
6555	6.6L	400	BRONCO	1978 - 1979	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	SWF80016
6555	6.6L	400	CLUB WAGON	1980 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	SWF80016
6555	6.6L	400	ECONOLINE E350	1981 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	SWF80016
6555	6.6L	400	PICKUP	1977 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	SWF80016
6651	6.7L	406	ECONOLINE E450	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA
6651	6.7L	406	ECONOLINE E550	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA
6651	6.7L	406	F250	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA
6651	6.7L	406	F350	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA
6651	6.7L	406	F450	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA
6651	6.7L	406	F550	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	TBA

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F5DZ 6108 A	X		101.60	1.98	1.98		4.76		
F5DZ 6108 A	X		4.000	0.078	0.078		0.188		
F5DZ 6108 A	X								
F5DZ 6108 A	X								
F5DZ 6108 A	X								
DR3Z 6108 A	X		93.50						MODULAR, 32 VALVE
			3.681	0.000	0.000		0.000		
3970192	11-856	339	102.00	3.0K	2.35		4.00		CUMMINS Engine, 24 VAVLE
3970192	11-856	339	4.016	0.118K	0.093		0.157		CUMMINS Engine, 24 VAVLE
3C3Z 6108 AA	11-857	339	95.00	2.25	2.00		3.50		32 VALVE
3C3Z 6108 AA	11-857	339	3.740	0.089	0.079		0.138		32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
-	X		95.00						INTERNATIONAL Engine, w/ TURBO
-	X		3.740	0.000	0.000		0.000		INTERNATIONAL Engine, w/ TURBO
AL3Z 6108 F	X		102.00						16 VALVE
AL3Z 6108 F	X		4.016	0.000	0.000		0.000		16 VALVE
AL3Z 6108 F	X								16 VALVE
8C3Z-6108-EB	11-886	346	98.20	2.5K	2.00		3.00		32 VALVE
8C3Z-6108-EB	11-886	346	3.866	0.098K	0.079		0.118		32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
D3AZ 6108 GB	X		101.60	1.98	1.98		4.76		
D3AZ 6108 GB	X		4.000	0.078	0.078		0.188		
D3AZ 6108 GB	X								
D3AZ 6108 GB	X								
BC3Z 6108 D	X		99.00	2.89	2.00		2.50		32 VALVE
BC3Z 6108 D	X		3.898	0.114	0.079		0.098		32 VALVE
BC3Z 6108 D	X								32 VALVE
BC3Z 6108 D	X								32 VALVE
BC3Z 6108 D	X								32 VALVE
BC3Z 6108 D	X								32 VALVE
FORD, LINCOLN, MERCURY, MERKER - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

FORD, LINCOLN, MERCURY, MERKER

6690	6.7L	408	F650	2008 - 2015	V8	ISB 6.7	DIESEL	O.H.V.	4955366	SDC10023
6690	6.7L	408	F750	2008 - 2015	V8	ISB 6.7	DIESEL	O.H.V.	4955366	SDC10023
6801	6.8L	415	CLUB WAGON	1997 - 1998	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	ECONOLINE E350	1997 - 1998	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	ECONOLINE E350	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	ECONOLINE E450	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	EXCURSION	2000 - 2006	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	F250	2000 - 2004	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	F350	2000 - 2004	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	F450	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	F250	2005 - 2010	V10	TRITON 68V	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	F350	2005 - 2010	V10	TRITON 68V	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	ECONOLINE E350	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	ECONOLINE E450	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	F450	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	F650	2015 - 2016	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	F750	2015 - 2016	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	SWF30019
6801	6.8L	415	ECONOLINE E550	2005 - 2015	V10	TRITON 68V	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
6801	6.8L	415	F550	2005 - 2015	V10	TRITON 68V	F.I.	S.O.H.C.	2L3Z 6148 AA	SWF30019
7200	7.2L	439	F650	2001 - 2007	6	C7	DIESEL		-	TBA
7200	7.2L	439	F750	2000 - 2007	6	C7	DIESEL		-	TBA
7276	7.3L	444	ECONOLINE E350	1999 - 2003	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	ECONOLINE E450	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	ECONOLINE E550	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	EXCURSION	2000 - 2003	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	F250	1999 - 2006	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	F350	1999 - 2006	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	F450	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	F550	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7276	7.3L	444	F650	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	SDF30020
7538	7.5L	460	CLUB WAGON	1975 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	ECONOLINE E250	1975 - 1979	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	ECONOLINE E350	1975 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	PICKUP	1974 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	CLUB WAGON	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	ECONOLINE E350	1988 - 1994	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	F250	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	SWF80032
7538	7.5L	460	F350	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	SWF80032

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
4955365	11-885	345	107.00	3.0K	2.50		3.50		CUMMINS Engine, 24 VAVLE
4955365	11-885	345	4.213	0.118K	0.098		0.138		CUMMINS Engine, 24 VAVLE
XC3Z 6108 CA	DISC. 11-812		90.20	1.50	1.50		3.00		MODULAR, 20 VALVE
XC3Z 6108 CA	DISC. 11-812		3.551	0.059	0.059		0.118		MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330	90.20	1.50	1.50		3.00		MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330	3.551	0.059	0.059		0.118		MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330							MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330							MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330							MODULAR, 20 VALVE
XL3Z 6148 KA	11-811	330							MODULAR, 20 VALVE
-	X		90.20	1.50	1.50		3.00		MODULAR VCT, 30 VALVE
-	X		3.551	0.059	0.059		0.118		MODULAR VCT, 30 VALVE
2L3Z 6108 AA	X		90.20	1.50	1.50		3.00		MODULAR, 20 VALVE
2L3Z 6108 AA	X		3.551	0.059	0.059		0.118		MODULAR, 20 VALVE
2L3Z 6108 AA	X								MODULAR, 20 VALVE
2L3Z 6108 AA	X								MODULAR, 20 VALVE
2L3Z 6108 AA	X								MODULAR, 20 VALVE
5C3Z 6108 A	X		90.20	1.50	1.50		3.00		MODULAR VCT, 30 VALVE
5C3Z 6108 A	X		3.551	0.059	0.059		0.118		MODULAR VCT, 30 VALVE
-	X		110.00						CATERPILLAR Engine
-	X		4.331	0.000	0.000		0.000		CATERPILLAR Engine
F81Z 6102 AA	DISC. 11-858		104.40	3.0K	2.00		3.50		w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858		4.110	0.118K	0.079		0.138		w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
F81Z 6102 AA	DISC. 11-858								w/ TURBO, 16 VALVE
E7TZ 6108 BA	X		110.74	1.98	1.98		4.76		
E7TZ 6108 BA	X		4.360	0.078	0.078		0.188		
E7TZ 6108 BA	X								VIN-L
E7TZ 6108 BA	X								VIN-L
F3TZ 6108 AB	X		110.74	1.98	1.98		4.76		E250, E350
F3TZ 6108 AB	X		4.360	0.078	0.078		0.188		
F3TZ 6108 AB	X								16 VALVE
F3TZ 6108 AB	X								16 VALVE

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
993	1.0L	61	SPRINT	1985 - 1988	3	G10	CARB	S.O.H.C.	96068389	SWS20144
993	1.0L	61	METRO	1987 - 1988	3	G10T	F.I.	S.O.H.C.	96055394	SWS20144
993	1.0L	61	SPRINT	1986 - 1988	3	G10T	F.I.	S.O.H.C.	96068389	SWS20144
993	1.0L	61	METRO	1989 - 1998	3	G10	F.I.	S.O.H.C.	96057087	SWS20144
993	1.0L	61	METRO	1989 - 1991	3	G10T	F.I.	S.O.H.C.	96057087	SWS20144
993	1.0L	61	METRO	1999 - 2000	3	G10	F.I.	S.O.H.C.	96068389	SWS20144
993	1.0L	61	SPRINT	1986 - 1987	3	G10	F.I.	S.O.H.C.	96061652	SWS20145
993	1.0L	61	METRO	1989 - 1994	3	G10	F.I.	S.O.H.C.	96061652	SWS20145
1249	1.2L	76	SPARK	2013 - 2015	4	ECOTEC LL0	F.I.	D.O.H.C.	-	NA
1298	1.3L	79	METRO	1995 - 1997	4	G13BA	F.I.	S.O.H.C.	96068389	SWS20143
1298	1.3L	79	METRO	1998 - 2001	4	G13BA	F.I.	S.O.H.C.	91173873	SWS20143
1364	1.4L	83	CRUZE	2011 - 2015	4	ECOTEC LUJ	F.I.	D.O.H.C.	55571045	NA
1364	1.4L	83	ENCORE	2013 - 2015	4	ECOTEC LUJ	F.I.	D.O.H.C.	55571045	NA
1364	1.4L	83	SONIC	2012 - 2015	4	ECOTEC LUJ	F.I.	D.O.H.C.	55571045	NA
1364	1.4L	83	TRAX	2015 - 2016	4	ECOTEC LUJ	F.I.	D.O.H.C.	55571045	NA
1398	1.4L	85	ELR	2014 - 2015	4	EcoFlex LUU	F.I.	D.O.H.C.	55571028	NA
1398	1.4L	85	VOLT HYBRID	2011 - 2015	4	EcoFlex LUU	F.I.	D.O.H.C.	55571028	NA
1471	1.5L	90	SPECTRUM	1985 - 1986	4	4XC1	CARB	S.O.H.C.	94141947	SWI10151
1471	1.5L	90	SPECTRUM	1987 - 1989	4	4XC1	CARB	S.O.H.C.	94141947	SWI10151
1471	1.5L	90	SPECTRUM	1987 - 1989	4	4XC1T	F.I.	S.O.H.C.	94109650	SWI10153
1559	1.6L	95	LeMans	1988 - 1993	4	NP960	F.I.	S.O.H.C.	90273451	SWD20003
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
96053321	DISC. 11-668		74.00	1.20	1.50		2.80		6 VALVE
			2.913	0.047	0.059		0.110		
96055390	DISC. 11-666		74.00	1.20	1.50		2.80		w/ TURBO, 6 VALVE
96067799	DISC. 11-666		2.913	0.047	0.059		0.110		w/ TURBO
96060039	11-665	305	74.00	1.20	1.50		2.80		BASE MODEL, 6 VALVE
			2.913	0.047	0.059		0.110		
96062030	X		74.00	1.20	1.50		2.80		w/ TURBO, 6 VALVE
			2.913	0.047	0.059		0.110		
91174382	X		74.00	1.20	1.50		2.80		6 VALVE
			2.913	0.047	0.059		0.110		
96056901	X		74.00	1.20	1.50		2.80		ER, 6 VALVE
			2.913	0.047	0.059		0.110		
96060043	X		74.00	1.20	-		2.80		XFI MODEL, 6 VALVE, (NO 2nd Ring)
			2.913	0.047	#####		0.110		
-	X		70.50						16 VALVE
			2.776	0.000	0.000		0.000		
96066387	11-625	298	74.00	1.20	1.50		2.80		BASE MODEL, 8 VALVE
			2.913	0.047	0.059		0.110		
91173869	X		74.00	1.20	1.50		2.80		16 VALVE
			2.913	0.047	0.059		0.110		
55580184	X		72.50						OPEL Engine, w/ TURBO, 16 VALVE
55580184	X		2.854	0.000	0.000		0.000		OPEL Engine, w/ TURBO, 16 VALVE
55580184	X								OPEL Engine, w/ TURBO, 16 VALVE
55580184	X								OPEL Engine, w/ TURBO, 16 VALVE
55571102	X		73.40						OPEL Engine, 16 VALVE
55571102	X		2.890	0.000	0.000		0.000		OPEL Engine, 16 VALVE
94251076	DISC. 11-565		77.00	1.50	-		2.80		8 VALVE
94460838	DISC. 11-565		3.031	0.059	#####		0.110		8 VALVE
94109616	X		77.00	1.20	1.20		2.80		w/ TURBO
			3.031	0.047	0.047		0.110		
-	X		76.50	1.50	1.50		3.00		DAEWOO Engine
			3.012	0.059	0.059		0.118		
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
1587	1.6L	97	NOVA	1985 - 1988	4	4A-LC	CARB	S.O.H.C.	94840036	SWT10108
1587	1.6L	97	TRACKER	1989 - 1995	4	G16K	F.I.	S.O.H.C.	96067669	SWS20142
1587	1.6L	97	TRACKER	1995 - 2000	4	G16KV	F.I.	S.O.H.C.	96067669	SWS20142
1587	1.6L	97	PRIZM	1989 - 1992	4	4A-FE	F.I.	D.O.H.C.	94847305	SWT10142
1587	1.6L	97	NOVA	1988 ONLY	4	4A-GE	F.I.	D.O.H.C.	94845462	SWT10108
1587	1.6L	97	PRIZM	1989 ONLY	4	4A-GE	F.I.	D.O.H.C.	94845462	SWT10108
1587	1.6L	97	PRIZM	1993 - 1997	4	4A-FE	F.I.	D.O.H.C.	94854159	SWT10156
1587	1.6L	97	TRACKER	1996 - 2000	4	G16KV	F.I.	S.O.H.C.	91173290	SWS20142
1587	1.6L	97	STORM	1990 - 1991	4	4XE1W	F.I.	D.O.H.C.	94370434	SWI10149
1587	1.6L	97	STORM	1990 - 1993	4	4XE1	F.I.	S.O.H.C.	94331660	SWI10149
1587	1.6L	97	PRIZM	1990 - 1992	4	4A-GE	F.I.	D.O.H.C.	94847635	SWT10150
1598	1.6L	98	AVEO	2004 - 2011	4	ECOTEC II 1.6L	F.I.	D.O.H.C.	93740225	SWD20004
1598	1.6L	98	AVEO5	2007 - 2011	4	ECOTEC II 1.6L	F.I.	D.O.H.C.	93740225	SWD20004
1598	1.6L	98	G3	2009 ONLY	4	ECOTEC II 1.6L	F.I.	D.O.H.C.	93740225	SWD20004
1762	1.8L	108	PRIZM	1992 - 1997	4	7A-FE	F.I.	D.O.H.C.	94855500	SWT10156
1794	1.8L	109	PRIZM	1998 - 2000	4	1ZZ-FE	F.I.	D.O.H.C.	94856686	SWT10183
1794	1.8L	109	VIBE	2003 - 2008	4	1ZZ-FE	F.I.	D.O.H.C.	88972331	SWT10183
1794	1.8L	109	VIBE	2003 - 2008	4	1ZZ-FE	F.I.	D.O.H.C.	94859421	SWT10183
1794	1.8L	109	PRIZM	2001 - 2002	4	1ZZ-FE	F.I.	D.O.H.C.	94859421	SWT10183
1796	1.8L	110	ASTRA	2008 - 2010	4	ECOTEC LUW	F.I.	D.O.H.C.	95507585	NA
1796	1.8L	110	CRUZE LS	2011 - 2015	4	ECOTEC LUW	F.I.	D.O.H.C.	95507585	NA
1796	1.8L	110	SONIC	2012 - 2015	4	ECOTEC LUW	F.I.	D.O.H.C.	95507585	NA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
94850643	11-144	284	81.00	1.50	1.50		2.80		S MODEL V.I.N. 4
			3.189	0.059	0.059		0.110		
96067795	11-629	299	75.00	1.20	1.50		2.80		8 VALVE
			2.953	0.047	0.059		0.110		
96068583	11-630	299	75.00	1.20	1.50		2.80		16 VALVE
			2.953	0.047	0.059		0.110		
94847306	11-649	302	81.00	1.50	1.50		3.00		16 VALVE
			3.189	0.059	0.059		0.118		
94844692	11-660	304	81.00	1.50	1.50		2.80		S MODEL V.I.N. 5, 16 VALVE
94844692	11-660	304	3.189	0.059	0.059		0.110		Gsi, 16 VALVE
94853590	11-714	311	81.00	1.20	1.50		3.00		16 VALVE
			3.189	0.047	0.059		0.118		
91173286	X		75.00	1.20	1.50		2.80		16 VALVE
			2.953	0.047	0.059		0.110		
94361830	X		80.00	1.20	1.20		3.00		Gsi, 16 VALVE
			3.150	0.047	0.047		0.118		
94455400	X		80.00	1.20	1.20		3.00		12 VALVE
			3.150	0.047	0.047		0.118		
94847635	X		81.00	1.20	1.50		2.80		Gsi, 16 VALVE
			3.189	0.047	0.059		0.110		
96389106	X		79.00	1.20	1.50		3.00		16 VALVE
96389106	X		3.110	0.047	0.059		0.118		16 VALVE
96389106	X								16 VALVE
94853591	11-713	311	81.00	1.20	1.50		3.00		TOYOTA Engine, Gsi, 16 VALVE
			3.189	0.047	0.059		0.118		
94856684	11-756	320	79.00	1.20	1.20		3.00		TOYOTA Engine, 16 VALVE
			3.110	0.047	0.047		0.118		
88969051	11-777	324	79.00	1.20	1.20		3.00		TOYOTA Engine, AWD, 16 VALVE
88972330	11-777	324	3.110	0.047	0.047		0.118		TOYOTA Engine, FWD, 16 VALVE
94859420	11-777	324							TOYOTA Engine, 16 VALVE
55576441	X		80.50						16 VALVE
55576441	X		3.169	0.000	0.000		0.000		16 VALVE
55576441	X								16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

1796	1.8L	110	VIBE	2003 - 2006	4	2ZZ-FE	F.I.	D.O.H.C.	88969557	SWT10196
1798	1.8L	110	VIBE	2009 - 2010	4	2ZR-FE	F.I.	D.O.H.C.	19185554	SWT10232
1809	1.8L	110	STORM	1992 - 1993	4	4XF1	F.I.	D.O.H.C.	94342124	SWI10149
1817	1.8L	111	LUV	1972 - 1975	4	G180Z	CARB	S.O.H.C.	-	SWI10056
1817	1.8L	111	LUV	1976 - 1979	4	G180Z	CARB	S.O.H.C.	-	SWI10056
1817	1.8L	111	LUV	1980 ONLY	4	G180Z	CARB	S.O.H.C.	-	SWI10056
1817	1.8L	111	LUV	1981 - 1985	4	G180Z	CARB	S.O.H.C.	-	SWI10098
1817	1.8L	111	S-10 PICKUP	1982 ONLY	4	G180Z	CARB	S.O.H.C.	94216641	SWI10056
1817	1.8L	111	S-15 PICKUP	1982 ONLY	4	G200Z	CARB	S.O.H.C.	94216641	SWI10056
1817	1.8L	111	1000	1983 - 1984	4	4FB1	DIESEL		94224221	SDI10086
1817	1.8L	111	CHEVETTE	1981 - 1986	4	4FB1	DIESEL		94224221	SDI10086
1817	1.8L	111	EL CAMINO	1983 - 1984	4	4FB1	DIESEL		94224221	SDI10086
1901	1.9L	116	SC	1991 - 1992	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	SWG10020
1901	1.9L	116	SC2	1993 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	SWG10020
1901	1.9L	116	SL2	1991 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	SWG10020
1901	1.9L	116	SW2	1993 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	SWG10020
1901	1.9L	116	SC1	1993 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	SWG10020
1901	1.9L	116	SL	1991 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	SWG10020
1901	1.9L	116	SL1	1991 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	SWG10020
1901	1.9L	116	SW1	1993 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	SWG10020
1901	1.9L	116	SC1	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	SWG10021
1901	1.9L	116	SL	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	SWG10021
1901	1.9L	116	SL1	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	SWG10021
1901	1.9L	116	SW1	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	SWG10021
1901	1.9L	116	SC2	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	SWG10021
1901	1.9L	116	SL2	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	SWG10021
1901	1.9L	116	SW2	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	SWG10021

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
88969556	X		82.00	1.20	1.20		3.00		TOYOTA Engine, GT, 16 VALVE
			3.228	0.047	0.047		0.118		
19185553	NA		80.50	1.00	1.00		1.50		TOYOTA Engine, 16 VALVE
			3.169	0.039	0.039		0.059		
97067000	X		80.00	1.20	1.20		3.00		Gsi, 16 VALVE
			3.150	0.047	0.047		0.118		
-	DISC. 11-010		84.00	2.00	2.00		4.00		ISUZU Engine, 8 VALVE
			3.307	0.079	0.079		0.157		
-	DISC. 11-011		84.00	2.00	2.00		4.00		ISUZU Engine, 8 VALVE
			3.307	0.079	0.079		0.157		
-	11-012	276	84.00	2.00	2.00		4.00		ISUZU Engine, 8 VALVE
			3.307	0.079	0.079		0.157		
-	DISC. 11-013		84.00	1.50	1.50		4.00		ISUZU Engine, 8 VALVE
			3.307	0.059	0.059		0.157		
94213831	X		84.00	2.00	2.00		4.00		ISUZU Engine, 8 VALVE
94213831	X		3.307	0.079	0.079		0.157		ISUZU Engine, 8 VALVE
94228886	X		84.00	2.50	2.00		4.00		ISUZU Engine
94228886	X		3.307	0.098	0.079		0.157		ISUZU Engine
94228886	X								ISUZU Engine
21006718	X		82.00	1.50	1.50		3.00		16 VALVE
21006718	X		3.228	0.059	0.059		0.118		16 VALVE
21006718	X								16 VALVE
21006718	X								16 VALVE
21007100	X		82.00	1.50	1.50		3.00		8 VALVE
21007100	X		3.228	0.059	0.059		0.118		8 VALVE
21007100	X								8 VALVE
21007100	X								8 VALVE
21007103	X		82.00	1.20	1.50		3.00		8 VALVE
21007103	X		3.228	0.047	0.059		0.118		8 VALVE
21007103	X								8 VALVE
21007103	X								8 VALVE
21008575*	X		82.00	1.20	1.50		3.00		16 VALVE
21008575*	X		3.228	0.047	0.059		0.118		16 VALVE
21008575*	X								16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
1949	1.9L	119	S-10 BLAZER	1982 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	SWI10096
1949	1.9L	119	S-10 PICKUP	1983 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	SWI10096
1949	1.9L	119	S-15 JIMMY	1983 - 1984	4	G200Z	C & F	S.O.H.C.	94438086	SWI10096
1949	1.9L	119	S-15 PICKUP	1983 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	SWI10096
1956	2.0L	119	GRUZE LUZ	2011 - 2015	4	JTD LUZ	DIESEL	D.O.H.C.	-	NA
1983	2.0L	121	FIRENZA	1987 - 1988	4	CID 121	F.I.	S.O.H.C.	52273305	SWG10010
1983	2.0L	121	LeMans	1989 - 1990	4	CID 121	F.I.	S.O.H.C.	52273305	SWG10010
1983	2.0L	121	SKYHAWK	1987 - 1988	4	CID 121	F.I.	S.O.H.C.	52273305	SWG10010
1983	2.0L	121	SUNBIRD	1987 - 1991	4	CID 121	F.I.	S.O.H.C.	52273305	SWG10010
1983	2.0L	121	SUNBIRD	1992 - 1994	4	CID 121	F.I.	S.O.H.C.	52273305	SWG10010
1983	2.0L	121	TRACKER	1999 - 2002	4	G20K	F.I.	D.O.H.C.	91174392	SWS20142
1998	2.0L	122	COBALT	2005 - 2007	4	ECOTEC LSJ	F.I.	D.O.H.C.	96180138	SWG10019
1998	2.0L	122	ION	2005 - 2008	4	ECOTEC LSJ	F.I.	D.O.H.C.	96180138	SWG10019
1998	2.0L	122	COBALT	2008 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	HHR	2008 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	REGAL	2011 - 2013	4	ECOTEC LHU	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	SKY	2007 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	SOLSTICE	2006 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	VERANO	2012 - 2015	4	ECOTEC LHU	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	ATS	2013 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	MALIBU	2013 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	SWG10032
1998	2.0L	122	REGAL	2014 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	SWG10032
1999	2.0L	122	CITY EXPRESS	2014 - 2015	4	MR20DE	F.I.	D.O.H.C.	-	NA
1999	2.0L	122	BERETTA	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	CAVALIER	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	CORSICA	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	FIRENZA	1987 - 1988	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	SKYHAWK	1987 ONLY	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	SKYHAWK	1988 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	SWI10195
1999	2.0L	122	GRAND AM	1987 - 1989	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	SWG10010
1999	2.0L	122	SKYHAWK	1987 ONLY	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	SWG10010
1999	2.0L	122	SUNBIRD	1987 - 1990	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	SWG10010
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
94237469	11-016	276	87.00	1.50	1.50		4.00		8 VALVE
94237469	11-016	276	3.425	0.059	0.059		0.157		8 VALVE
94237469	11-016	276							8 VALVE
94237469	11-016	276							8 VALVE
-	X		83.00						w/ TURBO, 16 VALVE
			3.268	0.000	0.000		0.000		
52250913	X		86.00	1.50	1.50		3.00		Normally Aspirated
52250913	X		3.386	0.059	0.059		0.118		Normally Aspirated
52250913	X								Normally Aspirated
52250913	X								Normally Aspirated
52269890	X		86.00	1.50	1.50		3.00		Normally Aspirated, 8 VALVE
			3.386	0.059	0.059		0.118		
91174386	X		84.00	1.20	1.50		2.80		16 VALVE
			3.307	0.047	0.059		0.110		
12791210	X		86.00	1.20	1.50		2.50		16 VALVE
12791210	X		3.386	0.047	0.059		0.098		16 VALVE
89018108	X		86.00	1.20	1.50		2.00		w/ TURBO, 16 VALVE
89018108	X		3.386	0.047	0.059		0.079		w/ TURBO, 16 VALVE
89018108	X								w/ TURBO, 16 VALVE
89018108	X								w/ TURBO, 16 VALVE
89018108	X								w/ TURBO, 16 VALVE
89018108	X								w/ TURBO, 16 VALVE
12652809	X		86.00	1.20	1.50		2.00		w/ TURBO, 16 VALVE
12652809	X		3.386	0.047	0.059		0.079		w/ TURBO, 16 VALVE
12652809	X								w/ TURBO, 16 VALVE
-	NA		84.00						NISSAN Engine, 16 VALVE
			3.307	0.000	0.000		0.000		
10112366	X		89.00	1.50	1.50		3.00		
10112366	X		3.504	0.059	0.059		0.118		
10112366	X								
10112366	X								
10112366	X								
10112366	X								
52273302	X		86.00	1.50	1.50		3.00		w/ TURBO
52273302	X		3.386	0.059	0.059		0.118		w/ TURBO
52273302	X								w/ TURBO
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
2196	2.2L	134	L100	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	L200	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	L300	2000 - 2004	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	LS	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	LS1	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	LW1	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	LW200	2000 - 2002	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	ALERO	2000 - 2004	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	CAVALIER	2002 - 2006	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	COBALT	2005 - 2008	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	G5	2005 - 2008	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	GRAND AM	2002 - 2004	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	HHR	2006 - 2011	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	ION	2003 - 2008	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	MALIBU	2004 - 2008	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	SUNFIRE	2002 - 2006	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	21018813	SWG10019
2196	2.2L	134	VUE	2002 - 2007	4	ECOTEC 2.2 L61	F.I.	D.O.H.C.	9118853	SWG10016 4CYL
2197	2.2L	134	BERETTA	1990 - 1991	4	GM122 2.2L	F.I.	S.O.H.C.	12363179	SWI10195
2197	2.2L	134	CAVALIER	1990 - 1991	4	GM122 2.2L	F.I.	S.O.H.C.	12363179	SWI10195
2197	2.2L	134	CORSICA	1990 - 1991	4	GM122 2.2L	F.I.	S.O.H.C.	12363179	SWI10195
2197	2.2L	134	BERETTA	1992 - 1993	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CAVALIER	1992 - 1993	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CENTURY	1993 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CORSICA	1992 - 1993	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	Cutlass CIERA	1993 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	Cutlass CRUISER	1993 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	BERETTA	1994 - 1996	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CAVALIER	1994 - 2002	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CENTURY	1994 - 1996	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CIERA	1996 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	CORSICA	1994 - 1996	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	Cutlass CIERA	1994 - 1995	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	Cutlass CRUISER	1994 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	S-10 PICKUP	1994 - 1997	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	S-10 PICKUP	1999 - 2003	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	SONOMA	1994 - 1997	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	SUNFIRE	1995 - 2002	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	S-10 PICKUP	1998 ONLY	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195
2197	2.2L	134	SONOMA	1998 - 2002	4	GM122 2.2L	F.I.	O.H.V.	12363179	SWI10195

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
21018815	X		86.00	1.20	1.50		2.50		16 VALVE
21018815	X		3.386	0.047	0.059		0.098		16 VALVE
21018815	X								16 VALVE
21018815	X								16 VALVE
21018815	X								16 VALVE
21018815	X								16 VALVE
21018815	X								16 VALVE
24577471	X		86.00	1.20	1.50		2.50		16 VALVE
			3.386	0.047	0.059		0.098		
12572796	X		86.00	1.20	1.50		2.50		16 VALVE
12572796	X		3.386	0.047	0.059		0.098		16 VALVE
12572796	X								16 VALVE
12572796	X								16 VALVE
12572796	X								16 VALVE
12572796	X								16 VALVE
12572796	X								16 VALVE
12572796	X								16 VALVE
90571284	X		86.00	1.20	1.50		3.00		16 VALVE
			3.386	0.047	0.059		0.118		
10184907	X		89.00	1.50	1.50		3.00		VIN-4, 8 VALVE
10184907	X		3.504	0.059	0.059		0.118		VIN-4, 8 VALVE
10184907	X								VIN-4, 8 VALVE
10103688	X		89.00	1.50	1.50		3.00		VIN-4, 8 VALVE
10103688	X		3.504	0.059	0.059		0.118		VIN-4, 8 VALVE
10103688	X								VIN-4, 8 VALVE
10103688	X								VIN-4, 8 VALVE
10103688	X								VIN-4, 8 VALVE
10103688	X								VIN-4, 8 VALVE
24576691	X		89.00	1.50	1.50		3.00		VIN-4, 8 VALVE
24576691	X		3.504	0.059	0.059		0.118		VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24576691	X								VIN-4, 8 VALVE
24577467	X								VIN-4, 8 VALVE
24577467	X								VIN-4, 8 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
2201	2.2L	134	COBALT	2009 - 2010	4	ECOTEC 2.2 LAP	F.I.	D.O.H.C.	19180831	SWG10032
2201	2.2L	134	G5	2009 ONLY	4	ECOTEC 2.2 LAP	F.I.	D.O.H.C.	19180831	SWG10032
2238	2.2L	137	S-10 BLAZER	1984 - 1985	4	C223	DIESEL		94250730	SJ110089
2238	2.2L	137	S-10 PICKUP	1984 - 1985	4	C223	DIESEL		94250730	SJ110089
2238	2.2L	137	S-15 PICKUP	1984 - 1985	4	C223	DIESEL		94250730	SJ110089
2254	2.3L	138	ACHIEVA	1992 - 1994	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	SWG10014
2254	2.3L	138	Cutlass Calais	1988 - 1989	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	SWG10014
2254	2.3L	138	GRAND AM	1988 ONLY	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	SWG10014
2254	2.3L	138	SKYLARK	1988 - 1989	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	SWG10014
2254	2.3L	138	ACHIEVA	1992 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	CAVALIER	1995 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	Cutlass Calais	1990 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	Cutlass Supreme	1990 - 1991	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	GRAND AM	1989 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	GRAND PRIX	1990 - 1991	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	SKYLARK	1990 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	SUNFIRE	1995 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	ACHIEVA	1992 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	BERETTA	1990 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	Cutlass Calais	1989 - 1990	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	Cutlass Supreme	1990 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	GRAND AM	1989 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2254	2.3L	138	ACHIEVA	1992 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	SWG10014
2376	2.4L	145	AURA HYBRID	2007 - 2009	4	BAS-H 2.4 LAT	F.I.	D.O.H.C.	19180836	NA
2376	2.4L	145	MALIBU HYBRID	2008 - 2009	4	ECOTEC 2.4 LAT	F.I.	D.O.H.C.	19180836	NA
2376	2.4L	145	VUE HYBRID	2007 - 2009	4	ECOTEC 2.4 LAT	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	AURA	2007 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	COBALT	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	G5	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	G6	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	HHR	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	ION	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	MALIBU	2009 ONLY	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	SKY	2007 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	SOLSTICE	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	NA
2384	2.4L	145	EQUINOX	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	LaCrosse	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	REGAL	2011 ONLY	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	TERRAIN	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	TBA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
19180242	X		86.00	1.20	1.50		2.00		16 VALVE
19180242	X		3.386	0.047	0.059		0.079		16 VALVE
94250729	DISC. 11-014		88.00	2.50	2.00		4.50		
94250729	DISC. 11-014		3.465	0.098	0.079		0.177		
94250729	DISC. 11-014								
22539861	X		92.00	1.50	1.50		3.00		VIN-D
22539861	X		3.622	0.059	0.059		0.118		VIN-D
22539861	X								VIN-D
22539861	X								VIN-D
22548435	X		92.00	1.50	1.50		3.00		VIN-D, 16 VALVE
22548435	X		3.622	0.059	0.059		0.118		VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548435	X								VIN-D, 16 VALVE
22548437	X		92.00	1.50	1.50		3.00		VIN-A
22548437	X		3.622	0.059	0.059		0.118		VIN-A
22548437	X								VIN-A
22548437	X								VIN-A
22548437	X								VIN-A
24573576	X		92.00	1.50	1.50		3.00		VIN-A, w/ H.O.
			3.622	0.059	0.059		0.118		
-	X		88.00	1.20	1.50		2.50		16 VALVE
-	X		3.465	0.047	0.059		0.098		16 VALVE
-	X								16 VALVE
19180835	X		88.00	1.20	1.50		2.50		16 VALVE
19180835	X		3.465	0.047	0.059		0.098		16 VALVE
19180835	X								16 VALVE
19180835	X								16 VALVE
19180835	X								16 VALVE
19180835	X								16 VALVE
19180835	X								16 VALVE
19180835	X								16 VALVE
12646457	X		88.00	1.20	1.50		2.00		16 VALVE
12646457	X		3.465	0.047	0.059		0.079		16 VALVE
12646457	X								16 VALVE
12646457	X								16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
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GMC, BUICK, CADILLAC, CHEVROLET, GEO

2384	2.4L	145	HHR	2010 - 2011	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	MALIBU	2010 - 2012	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	EQUINOX	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	LaCrosse	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	REGAL	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	TERRAIN	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	TERRAIN DENALI	2013 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	VERANO	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	IMPALA HYBRID	2013 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	MALIBU HYBRID	2013 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	TBA
2384	2.4L	145	REGAL HYBRID	2012 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	TBA
2392	2.4L	146	ACHIEVA	1997 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	CAVALIER	1996 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	GRAND AM	1996 - 1999	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	MALIBU	1997 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	SKYLARK	1996 - 1997	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	SUNFIRE	1996 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	ALERO	1999 - 2001	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	CAVALIER	1999 - 2002	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	GRAND AM	2000 - 2001	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	MALIBU	1999 ONLY	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	SUNFIRE	1999 - 2002	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2401	2.4L	147	VIBE	2009 - 2010	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	SWT10182
2457	2.5L	150	ATS	2013 - 2015	4	ECOTEC 2.5 LCV	F.I.	D.O.H.C.	12659419*	TBA
2457	2.5L	150	CANYON	2015 - 2016	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	TBA
2457	2.5L	150	IMPALA	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	TBA
2457	2.5L	150	MALIBU LS	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	TBA
2494	2.5L	152	TRACKER	2001 ONLY	6	H25A	F.I.	D.O.H.C.	12140-86FA0	SWS20207
2736	2.7L	167	VUE	2008 - 2010	4	ECOTEC 2.8 LE5	F.I.	D.O.H.C.	12593744	NA
2766	2.8L	169	COLORADO	2015 - 2016	4	Duramax A428	DIESEL	D.O.H.C.	-	NA
2770	2.8L	169	CANYON	2004 - 2006	4	Vortec 2800 LK5	F.I.	D.O.H.C.	89060378	NA
2770	2.8L	169	COLORADO	2004 - 2006	4	ATLAS LK5	F.I.	D.O.H.C.	89060378	NA

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12646457	X		88.00	1.20	1.50		2.00		16 VALVE
12646457	X		3.465	0.047	0.059		0.079		16 VALVE
12646457	X		88.00	1.20	1.50		2.00		16 VALVE
12646457	X		3.465	0.047	0.059		0.079		16 VALVE
12646457	X								16 VALVE
12646457	X								16 VALVE
12646457	X								16 VALVE
12646457	X		88.00	1.20	1.50		2.00		eAssist System, 16 VALVE
12646457	X		3.465	0.047	0.059		0.079		eAssist System, 16 VALVE
12646457	X								eAssist System, 16 VALVE
24575963	X		90.00	1.20	1.50		3.00		VIN-T, 16 VALVE
24575963	X		3.543	0.047	0.059		0.118		VIN-T, 16 VALVE
24575963	X								VIN-T, 16 VALVE
24575963	X								VIN-T, 16 VALVE
24575963	X								VIN-T, 16 VALVE
24577471	X		90.00	1.20	1.50		3.00		VIN-T, 16 VALVE
24577471	X		3.543	0.047	0.059		0.118		VIN-T, 16 VALVE
24577471	X								VIN-T, 16 VALVE
24577471	X								VIN-T, 16 VALVE
24577471	X								VIN-T, 16 VALVE
13211-28030-A0	11-792	326	88.50	1.20	1.20		2.00		16 VALVE
			3.484	0.047	0.047		0.079		
12652807*	X		88.00	1.20	1.50		2.00		16 VALVE
12652807	X		3.465	0.047	0.059		0.079		16 VALVE
12652807	X								16 VALVE
12652807	X								16 VALVE
91176085	X		84.00	1.20	1.50		2.50		SUZUKI Engine, 24 VALVE
			3.307	0.047	0.059		0.098		
19180835	X		88.00						16 VALVE
			3.465	0.000	0.000		0.000		
-	X		94.00						w/ TURBO, 16 VALVE
			3.701	0.000	0.000		0.000		
12585784	X		93.00						16 VALVE
12585784	X		3.661	0.000	0.000		0.000		16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

2792	2.8L	170	CTS	2005 - 2008	V6	Alloytec LP1	F.I.	D.O.H.C.	12596025	NA
2792	2.8L	170	SRX	2010 - 2012	V6	Alloytec LAU	F.I.	D.O.H.C.	-	NA
2827	2.8L	173	S-10 BLAZER	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	S-10 PICKUP	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CAMARO	1985 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CAVALIER	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CELEBRITY	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CIMARRON	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CITATION II	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	FIERO	1985 - 1988	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	FIREBIRD	1987 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	FIRENZA	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	S-10 BLAZER	1987 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	S-10 PICKUP	1987 - 1993	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	S-15 JIMMY	1986 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	S-15 PICKUP	1986 - 1990	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	SKYLARK	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	6000	1984 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CELEBRITY	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CENTURY	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CIMARRON	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	CITATION II	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	Cutlass CIERA	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	Cutlass CRUISER	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	FIREBIRD	1984 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	FIRENZA	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	SKYLARK	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2827	2.8L	173	SONOMA	1991 - 1993	V6	GM 60° L44	F.I.	O.H.V.	14089059	SWI10154
2835	2.8L	173	CITATION	1981 - 1983	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	CITATION II	1984 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	OMEGA	1981 - 1983	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	SKYLARK	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	6000	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	CELEBRITY	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	CITATION II	1984 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	FIREBIRD	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	S-15 JIMMY	1983 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	S-15 PICKUP	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12596024	X		89.00						24 VALVE
			3.504	0.000	0.000		0.000		
-	X		89.00						w/ TURBO, 24 VALVE
			3.504	0.000	0.000		0.000		
14092310	X		89.00	1.50	2.00		4.76		VIN-W
14092310	X		3.504	0.059	0.079		0.187		VIN-W
14092910	X		89.00	1.50	2.00		4.76		VIN-W
14092910	X		3.504	0.059	0.079		0.187		VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14092910	X								VIN-W
14094101	X		89.00	1.50	2.00		4.76		VIN-W
14094101	X		3.504	0.059	0.079		0.187		VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14094101	X								VIN-W
14033129	X		89.00	1.50	2.00		4.76		VIN-Z, Deep Oil
14033129	X		3.504	0.059	0.079		0.187		VIN-Z, Deep Oil
14033129	X								VIN-Z, Deep Oil
14033129	X								VIN-Z, Deep Oil
14033250	X		89.00	1.50	2.00		4.76		VIN-X, Deep Oil
14033250	X		3.504	0.059	0.079		0.187		VIN-X, Deep Oil
14033250	X								VIN-X, Deep Oil
14033250	X								VIN-X, Deep Oil
14033250	X								VIN-X, Deep Oil
14033250	X								VIN-X, Deep Oil
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

2835	2.8L	173	S-10 BLAZER	1983 - 1985	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	S-10 PICKUP	1982 - 1985	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	S-15 JIMMY	1985 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	S-15 PICKUP	1985 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	SWL03235
2835	2.8L	173	CITATION	1981 - 1983	V6	GM 60° LH7	CARB	O.H.V.	14059051	SWI10154
2835	2.8L	173	Cutlass CIERA	1982 ONLY	V6	GM 60° LH7	CARB	O.H.V.	14059051	SWI10154
2835	2.8L	173	OMEGA	1981 - 1983	V6	GM 60° LH7	CARB	O.H.V.	14059051	SWI10154
2835	2.8L	173	PHOENIX	1981 - 1984	V6	GM 60° LH7	CARB	O.H.V.	14059051	SWI10154
2835	2.8L	173	SKYLARK	1981 - 1984	V6	GM 60° LH7	CARB	O.H.V.	14059051	SWI10154
2835	2.8L	173	BERETTA	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CAVALIER	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CELEBRITY	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CENTURY	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CIMARRON	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CORSICA	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	Cutlass CIERA	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	Cutlass CRUISER	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	FIRENZA	1987 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	6000	1987 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	BERETTA	1988 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CAVALIER	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CELEBRITY	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CENTURY	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CIMARRON	1988 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CORSICA	1988 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	Cutlass CIERA	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	Cutlass CRUISER	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	Cutlass Supreme	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	REGAL	1988 - 1989	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	6000	1988 - 1991	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CAVALIER	1990 - 1994	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2835	2.8L	173	CELEBRITY	1990 ONLY	V6	GM 60° G-II	F.I.	O.H.V.	10181330	SWI10155
2921	2.9L	178	CANYON	2007 - 2012	4	Vortec 2900 LLV	F.I.	D.O.H.C.	89018219	SWG10037
2921	2.9L	178	COLORADO	2007 - 2012	4	ATLAS LLV	F.I.	D.O.H.C.	89018219	SWG10037
2962	3.0L	181	CATERA	1997 - 1998	V6	ELLESME L81	F.I.	S.O.H.C	90509740	SWC10001
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

2962	3.0L	181	CATERA	1999 - 2001	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2962	3.0L	181	L300	2000 - 2006	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2962	3.0L	181	LS2	2000 - 2002	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2962	3.0L	181	LW200	2000 - 2002	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2962	3.0L	181	LW300	2000 - 2002	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2962	3.0L	181	VUE	2002 - 2003	V6	ELLESME L81	F.I.	D.O.H.C.	9118853	SWG10016
2999	3.0L	183	CTS	2011 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	CTS	2011 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	CTS SPORT WAGON	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	CTS SPORT WAGON	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	EQUINOX	2010 - 2011	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	EQUINOX	2010 - 2011	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	LaCrosse	2010 ONLY	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	LaCrosse	2010 ONLY	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	SRX	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	SRX	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	TERRAIN	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
2999	3.0L	183	TERRAIN	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	NA
3130	3.1L	191	CAMARO	1990 - 1992	V6	CPC	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	FIREBIRD	1990 - 1992	V6	CPC	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	BERETTA	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	CORSICA	1989 - 1992	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	CORSICA	1993 ONLY	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	Cutlass Supreme	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	GRAND PRIX	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	LUMINA	1990 - 1994	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	REGAL	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	SUNBIRD	1991 - 1994	V6	GM 60° LH0	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	APV	1990 - 1993	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	LUMINA APV	1990 - 1995	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	SILHOUETTE	1990 - 1991	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	SILHOUETTE	1992 - 1994	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	TRANS SPORT	1990 - 1991	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	TRANS SPORT	1992 - 1995	V6	GM 60° LG6	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	ACHIEVA	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	BERETTA	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	GENTURY	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	CORSICA	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	Cutlass Supreme	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	GRAND AM	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
										SWI10155 CONTINUED

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
90571284	X		86.00	1.20	1.50		3.00		VIN-R, 24 VALVE
90571284	X		3.386	0.047	0.059		0.118		24 VALVE
90571284	X								24 VALVE
90571284	X								24 VALVE
90571284	X								24 VALVE
90571284	X								24 VALVE
12631196	X		89.00						LEFT, 24 VALVE
12631195	X		89.00						RIGHT, 24 VALVE
12631196	X		3.504	0.000	0.000		0.000		LEFT, 24 VALVE
12631195	X		3.504	0.000	0.000		0.000		RIGHT, 24 VALVE
12631196	X								LEFT, 24 VALVE
12631195	X								RIGHT, 24 VALVE
12631196	X								LEFT, 24 VALVE
12631195	X								RIGHT, 24 VALVE
12631196	X								LEFT, 24 VALVE
12631195	X								RIGHT, 24 VALVE
12631196	X								LEFT, 24 VALVE
12631195	X								RIGHT, 24 VALVE
10070145	DISC. 11-569		89.00	1.50	1.50		4.00		ISUZU Engine
10070145	DISC. 11-569		3.504	0.059	0.059		0.157		ISUZU Engine
10070183	X		89.00	1.50	1.50		4.00		12 VALVE
10070183	X		3.504	0.059	0.059		0.157		12 VALVE
10070183	X								12 VALVE
10070183	X								12 VALVE
10070183	X								12 VALVE
10070183	X								12 VALVE
10070183	X								12 VALVE
10070183	X								12 VALVE
10087699	X		89.00	1.50	1.50		4.00		12 VALVE
10087699	X		3.504	0.059	0.059		0.157		12 VALVE
10087699	X								12 VALVE
10087699	X								12 VALVE
10087699	X								12 VALVE
10087699	X								12 VALVE
24505806	X		89.00	1.50	1.50		4.00		12 VALVE
24505806	X		3.504	0.059	0.059		0.157		12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
3130	3.1L	191	GRAND PRIX	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	LUMINA	1995 ONLY	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	MONTE CARLO	1995 ONLY	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	REGAL	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3130	3.1L	191	SKYLARK	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	SWI10155
3137	3.1L	191	LUMINA	1996 ONLY	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	MONTE CARLO	1996 ONLY	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	ACHIEVA	1996 - 1998	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	BERETTA	1996 ONLY	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	CENTURY	1996 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	CORSICA	1996 ONLY	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	CUTLASS	1997 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	Cutlass Supreme	1996 - 1997	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	GRAND AM	1996 - 1998	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	GRAND PRIX	1996 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	LUMINA	1997 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	MALIBU	1997 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	MONTE CARLO	1997 - 1999	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	REGAL	1996 ONLY	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	SKYLARK	1996 - 1998	V6	GM 60° L82	F.I.	O.H.V.	12538683	SWG10004
3137	3.1L	191	CENTURY	2000 - 2005	V6	GM 60° LG8	F.I.	O.H.V.	12481987	SWG10004
3137	3.1L	191	CUTLASS	1999 ONLY	V6	GM 60° LG8	F.I.	O.H.V.	12481987	SWG10004
3137	3.1L	191	GRAND PRIX	2000 - 2003	V6	GM 60° LG8	F.I.	O.H.V.	12481987	SWG10004
3137	3.1L	191	LUMINA	2000 - 2001	V6	GM 60° LG8	F.I.	O.H.V.	12481987	SWG10004
3137	3.1L	191	MALIBU	1999 - 2003	V6	GM 60° LG8	F.I.	O.H.V.	12481987	SWG10004
3175	3.2L	194	CTS	2003 - 2004	V6	ELLESMERE LA3	F.I.	D.O.H.C	88894292	NA
3343	3.3L	204	ACHIEVA	1992 - 1993	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	CENTURY	1989 - 1993	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	CIERA	1996 ONLY	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	Cutlass Calais	1989 - 1991	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	Cutlass CIERA	1989 - 1990	V6	BUICK 3300	F.I.	O.H.V.	24501065	SWG10012
3343	3.3L	204	Cutlass CIERA	1991 - 1995	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	Cutlass CRUISER	1989 - 1990	V6	BUICK 3300	F.I.	O.H.V.	24501065	SWG10012
3343	3.3L	204	Cutlass CRUISER	1991 - 1995	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	GRAND AM	1993 ONLY	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3343	3.3L	204	SKYLARK	1989 - 1993	V6	BUICK 3300	F.I.	O.H.V.	24501330	SWG10012
3350	3.4L	204	EQUINOX	2005 - 2008	V6	GM 60° LNJ	F.I.	O.H.V.	12481322	SWG10009
3350	3.4L	204	TORRENT	2005 - 2008	V6	GM 60° LNJ	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	CAMARO	1993 - 1995	V6	GM 60° L32	F.I.	O.H.V.	12520260	SWG80011
3392	3.4L	207	FIREBIRD	1993 - 1995	V6	GM 60° L32	F.I.	O.H.V.	12520260	SWG80011

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
24505806	X								12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
24505806	X								12 VALVE
24504503	X		89.00	1.20	1.50		3.00		12 VALVE
24504503	X		3.504	0.047	0.059		0.118		12 VALVE
24508726	X		89.00	1.20	1.50		3.00		12 VALVE
24508726	X		3.504	0.047	0.059		0.118		12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
24508726	X								12 VALVE
12564009	X		89.00	1.20	1.50		3.00		VIN-J, 12 VALVE
12564009	X		3.504	0.047	0.059		0.118		VIN-J, w/ CALIF E.C.S., 12 VALVE
12564009	X								VIN-J, 12 VALVE
12564009	X								VIN-J, 12 VALVE
12564009	X								VIN-J, w/ CALIF E.C.S., 12 VALVE
2405799	X		87.50	1.20	1.50		2.50		24 VALVE
			3.445	0.047	0.059		0.098		
24501065	X		94.00	1.50	1.50		3.00		VIN-N, 12 VALVE
24501065	X		3.701	0.059	0.059		0.118		VIN-N, 12 VALVE
24501065	X								12 VALVE
24501065	X								VIN-N, 12 VALVE
24501065	X								12 VALVE
24501065	X								VIN-N, 12 VALVE
24501065	X								12 VALVE
24501065	X								VIN-N, 12 VALVE
24501065	X								VIN-N, 12 VALVE
24501065	X								VIN-N, 12 VALVE
12575630	X		92.00	1.20	1.50		3.00		12 VALVE
12575630	X		3.622	0.047	0.059		0.118		12 VALVE
10146858	X		92.00	1.50	1.50		4.00		12 VALVE
10146858	X		3.622	0.059	0.059		0.157		12 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
3392	3.4L	207	LUMINA	1991 - 1994	V6	GM 60° LQ1	F.I.	D.O.H.C.	10181263	SWG80011
3392	3.4L	207	LUMINA	1991 - 1994	V6	GM 60° LQ1	F.I.	D.O.H.C.	10181263	SWG80011
3392	3.4L	207	Cutlass Supreme	1991 - 1995	V6	GM 60° LQ1	F.I.	D.O.H.C.	12520260	SWG80011
3392	3.4L	207	Cutlass Supreme	1996 ONLY	V6	GM 60° LQ1	F.I.	D.O.H.C.	12536891	SWG80011
3392	3.4L	207	GRAND PRIX	1991 - 1996	V6	GM 60° LQ1	F.I.	D.O.H.C.	12520260	SWG80011
3392	3.4L	207	LUMINA	1995 ONLY	V6	GM 60° LQ1	F.I.	D.O.H.C.	12520260	SWG80011
3392	3.4L	207	LUMINA	1996 - 1997	V6	GM 60° LQ1	F.I.	D.O.H.C.	12538691	SWG80011
3392	3.4L	207	MONTE CARLO	1995 ONLY	V6	GM 60° LQ1	F.I.	D.O.H.C.	12520260	SWG80011
3392	3.4L	207	MONTE CARLO	1996 - 1997	V6	GM 60° LQ1	F.I.	D.O.H.C.	12538691	SWG80011
3392	3.4L	207	ALERO	2000 - 2004	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	AZTEK	2001 - 2006	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	GRAND AM	2000 - 2006	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	IMPALA	2000 - 2006	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	MONTANA	2000 - 2006	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	MONTE CARLO	2000 - 2005	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	RENDEZVOUS	2002 - 2005	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	SILHOUETTE	2000 - 2004	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	VENTURE	2000 - 2006	V6	GM 60° LA1	F.I.	O.H.V.	12481322	SWG10009
3392	3.4L	207	ALERO	1999 ONLY	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	GRAND AM	1999 ONLY	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	LUMINA APV	1996 ONLY	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	MONTANA	1999 ONLY	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	SILHOUETTE	1996 - 1999	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	TRANS SPORT	1996 - 1998	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3392	3.4L	207	VENTURE	1997 - 1999	V6	GM 60° LA1	F.I.	O.H.V.	12537866	SWG10001
3460	3.5L	211	CANYON	2004 - 2006	5	Vortec 3500 L52	F.I.	D.O.H.C.	89060378	NA
3460	3.5L	211	COLORADO	2004 - 2006	5	ATLAS L52	F.I.	D.O.H.C.	89060378	NA
3460	3.5L	211	H3	2006 ONLY	5	Vortec 3500 L52	F.I.	D.O.H.C.	89060378	NA
3471	3.5L	212	VUE	2004 - 2007	V6	J35A3	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3498	3.5L	213	G6	2005 - 2006	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	MALIBU	2004 - 2008	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	MALIBU MAXX	2004 - 2006	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	MONTANA SV6	2005 - 2006	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	RELAY	2005 - 2006	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	RENDEZVOUS	2006 - 2008	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	TERRAZA	2005 - 2006	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038
3498	3.5L	213	UPLANDER	2005 - 2009	V6	High Value LX9	F.I.	O.H.V.	12584525	SWG10038

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
10162022	X		92.00	1.50	1.50		4.00		24 VALVE
			3.622	0.059	0.059		0.157		
10162023	X		92.00	1.50	1.50		4.00		24 VALVE
			3.622	0.059	0.059		0.157		
24505686	X		92.00	1.50	1.50		4.00		24 VALVE
24505686	X		3.622	0.059	0.059		0.157		24 VALVE
24505686	X								24 VALVE
24505686	X								24 VALVE
24505686	X								24 VALVE
24505686	X								24 VALVE
24505686	X								24 VALVE
12564669	X		92.00	1.20	1.50		3.00		12 VALVE
12564669	X		3.622	0.047	0.059		0.118		12 VALVE
12564669	X								12 VALVE
12564669	X								12 VALVE
12564669	X								12 VALVE
12564669	X								12 VALVE
12564669	X								12 VALVE
12564669	X								12 VALVE
24508727	11-887	346	92.00	1.20	1.50		4.00		12 VALVE
24508727	11-887	346							12 VALVE
24508727	11-887	346							12 VALVE
24508727	11-887	346							12 VALVE
24508727	11-887	346							12 VALVE
24508727	11-887	346							12 VALVE
24508727	11-887	346							12 VALVE
12585784	X		93.00						20 VALVE
12585784	X		3.661	0.000	0.000		0.000		20 VALVE
12585784	X								20 VALVE
13010-RDA-A00	11-836*	334	89.00	1.20	1.20		2.80		HONDA Engine, 24 VALVE
			3.504	0.047	0.047		0.110		
12577586	X		94.00	1.20	1.50		2.50		12 VALVE
12577586	X		3.701	0.047	0.059		0.098		12 VALVE
12577586	X								12 VALVE
12577586	X								12 VALVE
12577586	X								12 VALVE
12577586	X								12 VALVE
12577586	X								12 VALVE
12577586	X								12 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

3510	3.5L	214	AURA	2007 - 2008	V6	High Value LZ4	F.I.	O.H.V.	89060428	SWG80056
3510	3.5L	214	G6	2007 - 2009	V6	High Value LZ4	F.I.	O.H.V.	89060428	SWG80056
3510	3.5L	214	IMPALA	2007 - 2011	V6	High Value LZE	F.I.	O.H.V.	89018067	SWG80056
3510	3.5L	214	MONTE CARLO	2006 - 2008	V6	High Value LZ4	F.I.	O.H.V.	89060428	SWG80056
3510	3.5L	214	VUE	2008 - 2010	V6	High Value LZ4	F.I.	O.H.V.	89060428	SWG80056
3564	3.6L	217	ACADIA	2007 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	AURA	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	CTS	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	ENLCLAVE	2007 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	EQUINOX	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	G6	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	G8	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	LaCrosse	2005 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	MALIBU	2009 - 2012	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	OUTLOOK	2007 - 2010	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	RENDEZVOUS	2004 - 2006	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	SRX	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	STS	2005 - 2011	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	TORRENT	2008 - 2010	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	VUE	2008 ONLY	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CAMARO	2010 - 2011	V6	Alloytec LLE	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CAMARO	2010 - 2011	V6	Alloytec LLE	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ENLCLAVE	2007 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ENLCLAVE	2007 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	TRAVERSE	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	TRAVERSE	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	TBA
3564	3.6L	217	ATS	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	ATS	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CAMARO	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CAMARO	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CANYON	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CANYON	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	COLORADO	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	COLORADO	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
89018065	X		99.00	1.20	1.50		2.50		12 VALVE
89018065	X		3.898	0.047	0.059		0.098		12 VALVE
89018065	X								12 VALVE
89018065	X								12 VALVE
89018065	X								12 VALVE
12590866	X		94.00	1.20	1.50		2.50		24 VALVE
12590866	X		3.701	0.047	0.059		0.098		24 VALVE
12590866	X								VIN 7, 24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12590866	X								24 VALVE
12616971	X		94.00	1.20	1.50		2.50		LEFT, 24 VALVE
12616972	X		94.00	1.20	1.50		2.50		RIGHT, 24 VALVE
12616971	X		3.701	0.047	0.059		0.098		LEFT, 24 VALVE
12616972	X		3.701	0.047	0.059		0.098		RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								VIN V, LEFT, 24 VALVE
12616972	X								VIN V, RIGHT, 24 VALVE
12616971	X								VIN V, LEFT, 24 VALVE
12616972	X								VIN V, RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12624949	X		94.00						LEFT, 24 VALVE
12624950	X		94.00						RIGHT, 24 VALVE
12624949	X		3.701	0.000	0.000		0.000		LEFT, 24 VALVE
12624950	X		3.701	0.000	0.000		0.000		RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
3564	3.6L	217	CTS	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CTS	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CTS SPORT WAGON	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	CTS SPORT WAGON	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	ENLCLAVE	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	ENLCLAVE	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	EQUINOX	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	EQUINOX	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	IMPALA	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	IMPALA	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	LaCrosse	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	LaCrosse	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	SRX	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	SRX	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	TERRAIN	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	TERRAIN	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	TERRAIN DENALI	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	TERRAIN DENALI	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	XTS	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	XTS	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	VUE HYBRID	2009 - 2010	V6	Alloytec LCS	F.I.	D.O.H.C.	12608615	SWG10039
3564	3.6L	217	XTS	2014 - 2015	V6	Alloytec LF3	F.I.	D.O.H.C.	12644928	NA
3564	3.6L	217	XTS	2014 - 2015	V6	Alloytec LF3	F.I.	D.O.H.C.	12644928	NA
3653	3.7L	223	CANYON	2007 - 2012	5	Vortec 3700 LLR	F.I.	D.O.H.C.	89018219	SWG10036
3653	3.7L	223	COLORADO	2007 - 2012	5	ATLAS LLR	F.I.	D.O.H.C.	89018219	SWG10036
3653	3.7L	223	H3	2007 - 2009	5	Vortec 3700 LLR	F.I.	D.O.H.C.	89018219	SWG10036
3653	3.7L	223	H3T	2007 - 2009	5	Vortec 3700 LLR	F.I.	D.O.H.C.	89018219	SWG10036
3753	3.8L	229	CABALLERO	1980 - 1984	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	CAMARO	1980 - 1981	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	CAPRICE	1980 - 1984	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	EL CAMINO	1980 - 1982	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	EL CAMINO	1983 - 1984	V6	BUICK V6 LD5	CARB	O.H.V.	12818282	SWG10007
3753	3.8L	229	IMPALA	1980 - 1982	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	IMPALA	1983 - 1984	V6	BUICK V6 LD5	CARB	O.H.V.	12818282	SWG10007
3753	3.8L	229	MALIBU	1980 - 1983	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
3753	3.8L	229	MONTE CARLO	1980 - 1984	V6	BUICK V6 LD5	CARB	O.H.V.	12518282	SWG10007
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12624949	X		94.00						VIN V, LEFT, 24 VALVE
12624950	X		94.00						VIN V, RIGHT, 24 VALVE
12624949	X		3.701	0.000	0.000		0.000		VIN V, LEFT, 24 VALVE
12624950	X		3.701	0.000	0.000		0.000		VIN V, RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
-	X		94.00	1.20	1.50		2.50		24 VALVE
			3.701	0.047	0.059		0.098		
-	X		94.00						w/ TWIN TURBO, LEFT, 24 VALVE
-	X		94.00						w/ TWIN TURBO, RIGHT, 24 VALVE
			3.701	0.000	0.000		0.000		
			3.701	0.000	0.000		0.000		
89018218	X		95.50	1.20	1.50		2.50		20 VALVE
89018218	X		3.760	0.047	0.059		0.098		20 VALVE
89018218	X								20 VALVE
89018218	X								20 VALVE
14019883	X		94.89	1.98	1.98		4.76		VIN-K
14019883	X		3.736	0.078	0.078		0.188		VIN-K
14019883	X								VIN-9
14019883	X								VIN-K
14019883	X								VIN-9
14019883	X								VIN-K
14019883	X								VIN-9
14019883	X								VIN-K
14019883	X								VIN-K
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
3785	3.8L	231	BONNEVILLE	1993 - 1994	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	EIGHTY EIGHT	1993 - 1994	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	LeSabre	1994 - 1995	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	LUMINA APV	1994 - 1995	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	NINETY EIGHT	1993 - 1994	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	PARK AVENUE	1994 ONLY	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	REGAL	1994 - 1995	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	SILHOUETTE	1994 - 1995	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	TRANS SPORT	1994 - 1995	V6	BUICK V6 L27	F.I.	O.H.V.	24502947	SWG10006
3785	3.8L	231	LaCrosse	2005 - 2009	V6	BUICK V6 L26	F.I.	O.H.V.	12480825	SWG10003
3785	3.8L	231	LUCERNE	2006 - 2008	V6	BUICK V6 L26	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	BONNEVILLE	1995 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	BONNEVILLE	1999 - 2003	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	CAMARO	1995 - 2002	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	EIGHTY EIGHT	1995 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	EIGHTY EIGHT	1999 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	FIREBIRD	1995 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	FIREBIRD	1999 - 2002	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	GRAND PRIX	1997 - 2008	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	IMPALA	2000 - 2006	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	INTRIGUE	1998 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	INTRIGUE	1999 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	LeSabre	1996 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	LeSabre	1999 - 2006	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	LSS	1996 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	LSS	1999 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	LUMINA	1998 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	LUMINA	1999 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	MONTE CARLO	1998 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	MONTE CARLO	1999 - 2005	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	NINETY EIGHT	1995 - 1996	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	PARK AVENUE	1995 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	PARK AVENUE	1999 - 2005	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	REGAL	1996 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	REGAL	1999 - 2004	V6	BUICK V6 L36	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	REGENCY	1997 - 1998	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	RIVIERA	1996 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	ROYALE	1995 ONLY	V6	BUICK V6 L36	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	BONNEVILLE	1996 - 1998	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	BONNEVILLE	1999 - 2006	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	GRAND PRIX	1997 - 2008	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	IMPALA	2004 - 2005	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
									SWG10003 CONTINUED	
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12537200	X		96.50	1.20	1.50		3.00		Normally Aspirated, 12 VALVE
12537200	X		3.799	0.047	0.059		0.118		Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
12537200	X								Normally Aspirated, 12 VALVE
89017810	X		96.52	1.20	1.50		2.00		Normally Aspirated, 12 VALVE
89017810	X		3.800	0.047	0.059		0.079		Normally Aspirated, 12 VALVE
12537408	11-888	346	96.52	1.20	1.50		2.00		Normally Aspirated, 12 VALVE
12537408	11-888	346	3.800	0.047	0.059		0.079		Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12537408	11-888	346							Normally Aspirated, 12 VALVE
12539085	11-888	346	96.52	1.20	1.50		2.00		Supercharger, 12 VALVE
12539085	11-888	346	3.800	0.047	0.059		0.079		Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
11-888 CONTINUED									
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

3791	3.8L	231	LSS	1996 - 1998	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	LSS	1999 ONLY	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	PARK AVENUE	1996 - 1998	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	PARK AVENUE	1999 - 2005	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	REGAL	1997 - 1998	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	REGAL	1999 - 2004	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	RIVIERA	1996 - 1998	V6	BUICK V6 L67	F.I.	O.H.V.	12537410	SWG10003
3791	3.8L	231	RIVIERA	1999 ONLY	V6	BUICK V6 L67	F.I.	O.H.V.	12480825	SWG10003
3791	3.8L	231	BONNEVILLE	1994 - 1995	V6	BUICK V6 L67	F.I.	O.H.V.	24502947	SWG10006
3791	3.8L	231	EIGHTY EIGHT	1995 ONLY	V6	BUICK V6 L67	F.I.	O.H.V.	24502947	SWG10006
3791	3.8L	231	NINETY EIGHT	1994 - 1995	V6	BUICK V6 L67	F.I.	O.H.V.	24502947	SWG10006
3791	3.8L	231	PARK AVENUE	1994 - 1995	V6	BUICK V6 L67	F.I.	O.H.V.	24502947	SWG10006
3791	3.8L	231	RIVIERA	1995 ONLY	V6	BUICK V6 L67	F.I.	O.H.V.	24502947	SWG10006
3880	3.9L	237	G6	2006 - 2009	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	IMPALA	2007 - 2011	V6	High Value LZ8	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	LUCERNE	2009 - 2011	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	MALIBU	2007 - 2008	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	MALIBU MAXX	2007 - 2008	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	MONTE CARLO	2006 ONLY	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	RELAY	2006 - 2008	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	UPLANDER	2006 - 2009	V6	High Value LZ9	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	TERRAZA	2006 - 2008	V6	High Value LGD	F.I.	O.H.V.	89018067	SWG80056
3880	3.9L	237	UPLANDER	2007 - 2009	V6	High Value LGD	F.I.	O.H.V.	89018067	SWG80056
3995	4.0L	244	AURORA	1995 ONLY	V8	Northstar L47	F.I.	D.O.H.C.	3546717	SWG10017
3995	4.0L	244	AURORA	1996 - 1999	V8	Northstar L47	F.I.	D.O.H.C.	12555219	SWG10015
3995	4.0L	244	AURORA	2001 - 2003	V8	Northstar L47	F.I.	D.O.H.C.	12564802	SWG10015*
4294	4.3L	262	ASTRO	1995 - 2006	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	BLAZER	1995 - 2006	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	BRAVADA	1996 - 2001	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	CHEVY Express	1996 - 2002	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	CHEVY VAN	1995 - 1998	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	EXPRESS G1500	1996 - 2005	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	JIMMY	1995 - 2001	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	PICKUP (Chev)	1995 - 1998	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	PICKUP (GMC)	1995 - 1998	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
SWG10196 CONTINUED										
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
12539085	11-888	346							Supercharger, 12 VALVE
24503974	X		96.50	1.20	1.50		3.00		Supercharger, 12 VALVE
24503974	X		3.799	0.047	0.059		0.118		Supercharger, 12 VALVE
24503974	X								Supercharger, 12 VALVE
24503974	X								Supercharger, 12 VALVE
24503974	X								Supercharger, 12 VALVE
89018066	X		99.00	1.20	1.50		2.50		12 VALVE
89018066	X		3.898	0.047	0.059		0.098		12 VALVE
89018066	X								12 VALVE
89018066	X								12 VALVE
89018066	X								12 VALVE
89018066	X								12 VALVE
89018066	X								12 VALVE
89018066	X								12 VALVE
-	X		99.00	1.20	1.50		2.50		12 VALVE
-	X		3.898	0.047	0.059		0.098		12 VALVE
12552632	X		87.00	1.50	1.50		3.00		32 VALVE
			3.425	0.059	0.059		0.118		
12555218	X		87.00	1.20	1.50		3.00		32 VALVE
			3.425	0.047	0.059		0.118		
12564800	X		87.00	1.20	1.50		3.00		32 VALVE
			3.425	0.047	0.059		0.118		
12522850	11-827	332	101.60	1.50	1.50		3.00		12 VALVE
12522850	11-827	332	4.000	0.059	0.059		0.118		12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
12522850	11-827	332							12 VALVE
11-827 CONTINUED									
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
4294	4.3L	262	RALLY	1995 ONLY	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	S-10 PICKUP	1995 - 2003	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SAFARI	1995 - 2005	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SAVANA G1500	1996 - 2005	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SONOMA	1995 - 2002	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SPORTVAN	1995 ONLY	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	VANDURA	1995 ONLY	V6	Vortec 4300 LF6	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SIERRA 1500	1999 - 2003	V6	Vortec 4300 L35	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SILVERADO 1500	1999 - 2003	V6	Vortec 4300 L35	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	ENVOY	1998 - 2000	V6	Vortec 4300 LU3	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	EXPRESS G1500	2006 - 2013	V6	Vortec 4300 LU3	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SAVANA G1500	2006 - 2013	V6	Vortec 4300 LU3	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SIERRA 1500	2003 - 2006	V6	Vortec 4300 LU3	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	SILVERADO 1500	2003 - 2006	V6	Vortec 4300 LU3	F.I.	O.H.V.	12522848	SWI10196
4294	4.3L	262	S-10 BLAZER	1988 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	14059025	SWF80017
4294	4.3L	262	S-10 PICKUP	1988 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	14059025	SWF80017
4294	4.3L	262	S-15 JIMMY	1986 - 1991	V6	Vortec 4300 LB4	F.I.	O.H.V.	14059025	SWF80017
4294	4.3L	262	S-15 PICKUP	1986 - 1990	V6	Vortec 4300 LB4	F.I.	O.H.V.	14059025	SWF80017
4294	4.3L	262	ASTRO	1985 - 1991	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	BONNEVILLE	1986 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	BRAVADA	1991 - 1992	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	CABALLERO	1985 - 1987	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	CAPRICE	1985 - 1988	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	CAPRICE	1993 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	CHEVY VAN	1985 - 1991	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	EL CAMINO	1985 - 1987	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	GRAND PRIX	1986 - 1987	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	IMPALA	1985 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	MONTE CARLO	1985 - 1988	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	PARISIENNE	1984 - 1986	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	SONOMA	1992 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	SYCLONE	1991 - 1992	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	TYPHOON	1992 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	ASTRO	1992 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	JIMMY	1994 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	PICKUP (Chev)	1985 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	PICKUP (GMC)	1985 - 1991	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	PICKUP (GMC)	1992 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	PICKUP (GMC)	1994 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	RALLY	1985 - 1991	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	RALLY	1992 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
										SWF80017 CONTINUED
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
4294	4.3L	262	S-10 BLAZER	1994 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	SAFARI	1985 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	SONOMA	1994 ONLY	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	SPORTVAN	1985 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	VANDURA	1985 - 1994	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	VANDURA	1992 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	JIMMY	1992 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	88894219	SWF80017
4294	4.3L	262	SONOMA	1991 - 1993	V6	Vortec 4300 LB4	F.I.	O.H.V.	88894219	SWF80017
4294	4.3L	262	CHEVY VAN	1992 - 1995	V6	Vortec 4300 LG3*	F.I.	O.H.V.	88894219	SWF80017
4294	4.3L	262	PICKUP (Chev)	1992 - 1994	V6	Vortec 4300 LG3*	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	PICKUP (GMC)	1994 ONLY	V6	Vortec 4300 LG3*	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	RALLY	1994 ONLY	V6	Vortec 4300 LG3*	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	SPORTVAN	1992 - 1994	V6	Vortec 4300 LG3*	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	VANDURA	1994 ONLY	V6	Vortec 4300 LG3*	F.I.	O.H.V.	12507985	SWF80017
4294	4.3L	262	JIMMY	1992 - 1993	V6	Vortec 4300 LB4T	F.I.	O.H.V.	14089025	SWF80017
4294	4.3L	262	SONOMA	1992 - 1993	V6	Vortec 4300 LB4T	F.I.	O.H.V.	14089025	SWF80017
4301	4.3L	262	EXPRESS G1500	2014 - 2015	V6	ECOTEC3 LV3	F.I.	O.H.V.	-	NA
4301	4.3L	262	SAVANA G1500	2014 - 2015	V6	ECOTEC3 LV3	F.I.	O.H.V.	-	NA
4301	4.3L	262	SIERRA 1500	2013 - 2015	V6	ECOTEC3 LV3	F.I.	O.H.V.	-	NA
4301	4.3L	262	SILVERADO 1500	2013 - 2015	V6	ECOTEC3 LV3	F.I.	O.H.V.	-	NA
4343	4.3L	265	CAPRICE	1994 - 1996	V8	LT1 4.3 L99	F.I.	O.H.V.	12518282	SWG10007 8CYL
4371	4.4L	267	STS	2006 - 2009	V8	Northstar LC3	F.I.	D.O.H.C.	89017770	NA
4371	4.4L	267	XLR	2006 - 2009	V8	Northstar LC3	F.I.	D.O.H.C.	89017770	NA
4474	4.5L	273	DEVILLE	1988 - 1989	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	ELDORADO	1988 - 1989	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	FLEETWOOD	1988 - 1989	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	SEVILLE	1988 - 1989	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	ALLANTE	1989 - 1992	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	DEVILLE	1990 - 1993	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	ELDORADO	1990 - 1993	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	FLEETWOOD	1990 - 1993	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4474	4.5L	273	SEVILLE	1990 - 1993	V8	HT-4500	F.I.	O.H.V.	1645491	SWG10002
4605	4.6L	281	ALLANTE	1993 ONLY	V8	Northstar L37	F.I.	D.O.H.C.	3543903	SWG10008
4605	4.6L	281	DEVILLE	1994 - 1995	V8	Northstar L37	F.I.	D.O.H.C.	3543903	SWG10008
4605	4.6L	281	ELDORADO	1994 - 1995	V8	Northstar L37	F.I.	D.O.H.C.	3543903	SWG10008
4605	4.6L	281	SEVILLE	1994 - 1995	V8	Northstar L37	F.I.	D.O.H.C.	3543903	SWG10008
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12514101	X		101.60	1.98	1.98		4.76		VIN-Z, 12 VALVE
12514101	X		4.000	0.078	0.078		0.188		VIN-Z, 12 VALVE
12514101	X								VIN-Z, 12 VALVE
12514101	X								K10, 12 VALVE
12514101	X								12 VALVE
12514103	X								12 VALVE
12514101	X		101.60	1.98	1.98		4.76		VIN-Z, 12 VALVE
12514101	X		4.000	0.078	0.078		0.188		VIN-Z, 12 VALVE
10159430	X		101.60	1.98	1.98		4.76		12 VALVE
10159430	X		4.000	0.078	0.078		0.188		12 VALVE
10159430	X								12 VALVE
10159430	X								12 VALVE
10159430	X								12 VALVE
10159430	X								12 VALVE
12508702	X		101.60	1.98	1.98		4.76		w/ TURBO, VIN-Z
12508702	X		4.000	0.078	0.078		0.188		w/ TURBO, VIN-Z
-	X		99.60						12 VALVE
-	X		3.921	0.000	0.000		0.000		12 VALVE
-	X								12 VALVE
-	X								12 VALVE
12528891	X		94.90	2.00	2.00		4.76		16 VALVE
			3.736	0.079	0.079		0.187		
89018063	X		90.93						Supercharger, 32 VALVE
89018063	X		3.580	0.000	0.000		0.000		Supercharger, 32 VALVE
1645490	X		92.00	1.50	1.50		3.00		16 VALVE
1645490	X		3.622	0.059	0.059		0.118		16 VALVE
1645490	X								16 VALVE
1645490	X								16 VALVE
3534204	X		92.00	1.50	1.50		3.00		16 VALVE
3534204	X		3.622	0.059	0.059		0.118		16 VALVE
3534204	X								16 VALVE
3534204	X								16 VALVE
3534204	X								16 VALVE
12553805	X		93.00	1.50	1.50		3.00		32 VALVE
12553805	X		3.661	0.059	0.059		0.118		32 VALVE
12553805	X								32 VALVE
12553805	X								32 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
4605	4.6L	281	DEVILLE	1996 - 1999	V8	Northstar L37	F.I.	D.O.H.C.	12555217	SWG10013
4605	4.6L	281	ELDORADO	1996 - 1999	V8	Northstar L37	F.I.	D.O.H.C.	12555217	SWG10013
4605	4.6L	281	SEVILLE	1996 - 1999	V8	Northstar L37	F.I.	D.O.H.C.	12555217	SWG10013
4605	4.6L	281	DEVILLE	2000 - 2004	V8	Northstar L37	F.I.	D.O.H.C.	12564801	SWG10011
4605	4.6L	281	ELDORADO	2000 - 2002	V8	Northstar L37	F.I.	D.O.H.C.	12564801	SWG10011
4605	4.6L	281	SEVILLE	2000 - 2005	V8	Northstar L37	F.I.	D.O.H.C.	12564801	SWG10011
4818	4.8L	294	CUTAWAY G3500	2005 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	EXPRESS G2500	2005 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	EXPRESS G3500	2005 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SAVANA G2500	2005 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SAVANA G3500	2005 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SIERRA 1500	1999 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SILVERADO 1500	1999 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	TAHOE	2000 - 2010	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	YUKON	2000 - 2009	V8	Vortec 4800 LY2	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SIERRA 1500	1999 - 2003	V8	Vortec 4800 LR4	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	SILVERADO 1500	1999 - 2003	V8	Vortec 4800 LR4	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	TAHOE	2000 - 2003	V8	Vortec 4800 LR4	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	YUKON	2000 - 2003	V8	Vortec 4800 LR4	F.I.	O.H.V.	12456338	SWG10005
4818	4.8L	294	CUTAWAY G3500	2010 - 2015	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	EXPRESS G2500	2010 - 2015	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	EXPRESS G3500	2010 - 2015	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	SAVANA G2500	2010 - 2015	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	SAVANA G3500	2010 - 2015	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	SIERRA 1500	2010 - 2013	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4818	4.8L	294	SILVERADO 1500	2010 - 2013	V8	Vortec 4800 L20	F.I.	O.H.V.	19208677	SWG10005
4949	4.9L	302	DEVILLE	1994 - 1995	V8	HT-4900 L26	F.I.	O.H.V.	1645491	SWG10002
4949	4.9L	302	ELDORADO	1994 - 1995	V8	HT-4900 L26	F.I.	O.H.V.	1645491	SWG10002
4949	4.9L	302	FLEETWOOD	1994 - 1995	V8	HT-4900 L26	F.I.	O.H.V.	1645491	SWG10002
4949	4.9L	302	SEVILLE	1994 - 1995	V8	HT-4900 L26	F.I.	O.H.V.	1645491	SWG10002
4949	4.9L	302	Sixty Special	1993 ONLY	V8	HT-4900 L26	F.I.	O.H.V.	1645491	SWG10002
4998	5.0L	305	BLAZER	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	BONNEVILLE	1983 - 1985	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CABALLERO	1978 - 1985	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAMARO	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAPRICE	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CENTURY	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CHEVY VAN	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CORVETTE	1980 ONLY	V8	LG4	CARB	O.H.V.	12518282*	SWG10007 8CYL
SWG10007 8CYL CONTINUED										
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12555216	X		93.00	1.20	1.50		3.00		32 VALVE
12555216	X		3.661	0.047	0.059		0.118		32 VALVE
12555216	X								32 VALVE
12564799	X		93.00	1.20	1.50		2.50		32 VALVE
12564799	X		3.661	0.047	0.059		0.098		32 VALVE
12564799	X								32 VALVE
89017577	11-899	349	96.00	1.50	1.50		3.00		16 VALVE
89017577	11-899	349	3.780	0.059	0.059		0.118		16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
88894404	11-900	349	96.00	1.50	1.50		3.00		16 VALVE
88894404	11-900	349	3.780	0.059	0.059		0.118		16 VALVE
88894404	11-900	349							16 VALVE
88894404	11-900	349							16 VALVE
19208675	X		96.00	1.50	1.50		3.00		16 VALVE
19208675	X		3.780	0.059	0.059		0.118		16 VALVE
19208675	X								16 VALVE
19208675	X								16 VALVE
19208675	X								16 VALVE
19208675	X								16 VALVE
19208675	X								16 VALVE
3535204	X		92.00	1.50	1.50		3.00		16 VALVE
3535204	X		3.622	0.059	0.059		0.118		16 VALVE
3535204	X								16 VALVE
3535204	X								16 VALVE
3535204	X								16 VALVE
364702	X		94.89	1.98	1.98		4.76		VIN-H
364702	X		3.736	0.078	0.078		0.188		VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
4998	5.0L	305	CUTLASS	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	EL CAMINO	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	FIREBIRD	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	GRAND AM	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	GRAND LeMans	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	GRAND PRIX	1980 - 1985	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	IMPALA	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	JIMMY	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	LeMans	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	MALIBU	1980 - 1983	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	MONTE CARLO	1980 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PARISIENNE	1983 - 1984	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PICKUP (Chev)	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PICKUP (GMC)	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	RALLY	1979 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	REGAL	1980 ONLY	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SPORTVAN	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SPRINT	1976 - 1977	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SUBURBAN (CH)	1977 - 1981	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SUBURBAN (GM)	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	VANDURA	1977 - 1986	V8	Chevy S.B. 305	CARB	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	BONNEVILLE	1985 - 1986	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CABALLERO	1986 - 1987	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAMARO	1982 - 1987	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAPRICE	1985 - 1987	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	EL CAMINO	1985 - 1987	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	FIREBIRD	1982 - 1985	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	GRAND PRIX	1985 - 1986	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	IMPALA	1985 ONLY	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	MONTE CARLO	1983 - 1987	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PARISIENNE	1985 - 1986	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	BLAZER	1987 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	BROUGHAM	1992 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAMARO	1988 - 1992	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAPRICE	1989 - 1992	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CAPRICE	1988 - 1993	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CHEVY VAN	1987 - 1994	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	Custom CRUISER	1991 - 1992	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	FIREBIRD	1987 - 1992	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	GRAND PRIX	1987 ONLY	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	JIMMY	1987 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	MONTE CARLO	1988 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PICKUP (Chev)	1987 - 1994	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
									SWG10007 8CYL CONTINUED	
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
364702	X		94.89	1.98	1.98		4.76		VIN-H
364702	X		3.736	0.078	0.078		0.188		VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
14081291	X		94.89	1.98	1.98		4.76		
14081291	X		3.736	0.078	0.078		0.188		
14081291	X								VIN-F, G, H
14081291	X								VIN-H
14081291	X								
14081291	X								VIN-H
14081291	X								
14081291	X								VIN-H
14081291	X								
12455573	X		94.89	1.98	1.98		4.76		
12455573	X		3.736	0.078	0.078		0.188		
12455573	X								
12455573	X								VIN-E
12455573	X								VIN-H
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
4998	5.0L	305	PICKUP (GMC)	1987 - 1994	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	RALLY	1987 - 1993	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	ROADMASTER	1991 ONLY	V8	Chevy S.B. 305	C & F	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SPORTVAN	1987 - 1994	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SUBURBAN (CH)	1987 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SUBURBAN (GM)	1987 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	VANDURA	1987 - 1993	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CHEVY VAN	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PICKUP (Chev)	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	PICKUP (GMC)	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	RALLY	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	SPORTVAN	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	VANDURA	1995 ONLY	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282*	SWG10007 8CYL
4998	5.0L	305	CHEVY Express	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	CHEVY VAN	1996 - 1998	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	EXPRESS G1500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	EXPRESS G2500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	EXPRESS G3500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	PICKUP (Chev)	1996 - 1999	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	PICKUP (GMC)	1996 - 1999	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	SAVANA G1500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	SAVANA G2500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
4998	5.0L	305	SAVANA G3500	1996 - 2002	V8	Chevy S.B. 305	F.I.	O.H.V.	12518282	SWG10007 8CYL
5031	5.0L	307	BONNEVILLE	1981 ONLY	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	CATALINA	1981 ONLY	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	Custom CRUISER	1980 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	CUTLASS	1981 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	DELTA 88	1980 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	ELECTRA	1981 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	LeSabre	1981 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	NINETY EIGHT	1980 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	RIVIERA	1980 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	TORONADO	1980 - 1984	V8	Oldsmobile V8 307	CARB		22529562	SWG10023
5031	5.0L	307	CUTLASS	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	BROUGHAM	1986 - 1987	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	BROUGHAM	1986 - 1987	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	FLEETWOOD	1986 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	FLEETWOOD	1986 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
12455573	X								
14094014	X		94.89	1.98	1.98		4.76		16 VALVE
14094014	X		3.736	0.078	0.078		0.188		16 VALVE
14094014	X								16 VALVE
14094014	X								16 VALVE
14094014	X								16 VALVE
14094014	X								16 VALVE
12528891	X		94.89	2.00	2.00		4.76		16 VALVE
12528891	X		3.736	0.079	0.079		0.187		16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
12528891	X								16 VALVE
22506658	X		96.50	1.98	1.98		4.76		
22506658	X		3.799	0.078	0.078		0.188		
22506658	X								
22506658	X								
22506658	X								
22506658	X								
22506658	X								
22506658	X								
22506658	X								
22506658	X								
22531926	X		96.50	1.98	1.98		4.76		VIN-9
			3.799	0.078	0.078		0.188		
22527481	X		96.50	1.98	1.98		4.76		LEFT
22527482	X		96.50	1.98	1.98		4.76		RIGHT
22527481	X		3.799	0.078	0.078		0.188		LEFT
22527482	X		3.799	0.078	0.078		0.188		RIGHT
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5031	5.0L	307	BROUGHAM	1988 - 1991	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	BROUGHAM	1988 - 1991	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	CAPRICE	1985 - 1990	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	CAPRICE	1985 - 1990	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	Custom CRUISER	1985 - 1990	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	Custom CRUISER	1980 - 1995	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	CUTLASS	1985 - 1988	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	CUTLASS	1985 - 1988	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	DELTA 88	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	DELTA 88	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	ELECTRA	1985 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	ELECTRA	1985 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	ESTATE WAGON	1990 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	ESTATE WAGON	1990 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	LeSabre	1985 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	LeSabre	1985 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	REGAL	1986 - 1987	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	REGAL	1986 - 1987	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	RIVIERA	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	RIVIERA	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	SAFARI	1987 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	SAFARI	1987 - 1989	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	TORONADO	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5031	5.0L	307	TORONADO	1985 ONLY	V8	Oldsmobile V8 307	F.I.		22529562	SWG10023
5328	5.3L	325	AVALANCHE	2002 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	ESCALADE	2002 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	EXPRESS G1500	2003 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SAVANA G1500	2003 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SIERRA 1500	1999 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SIERRA 2500	1999 - 2000	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SILVERADO 1500	1999 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SILVERADO 2500	1999 - 2000	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SSR	2003 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SUBURBAN (CH)	1999 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TAHOE	1999 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TRAILBLAZER	2003 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	YUKON	1999 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	YUKON XL	2002 - 2003	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	AVALANCHE	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	ENVOY DENALI	2005 - 2009	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	ENVOY XL	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	ESCALADE	2004 - 2005	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	EXPRESS G1500	2003 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
									SWG10005 CONTINUED	
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
22527479	X		96.50	1.98	1.98		4.76		LEFT
22527480	X		96.50	1.98	1.98		4.76		RIGHT
22527479	X		3.799	0.078	0.078		0.188		LEFT, VIN-Y
22527480	X		3.799	0.078	0.078		0.188		RIGHT, VIN-Y
22527479	X								LEFT, VIN-Y
22527480	X								RIGHT, VIN-Y
22527479	X								LEFT, VIN-Y
22527480	X								RIGHT, VIN-Y
22527479	X								LEFT, VIN-Y
22527480	X								RIGHT, VIN-Y
22527479	X								LEFT
22527480	X								RIGHT
22527479	X								LEFT
22527480	X								RIGHT
22527479	X								LEFT
22527480	X								RIGHT
25527479	X								LEFT
25527480	X								RIGHT
25527479	X								LEFT
25527480	X								RIGHT
22527479	X								LEFT
22527480	X								RIGHT
22527479	X								LEFT, VIN-Y
22527480	X								RIGHT, VIN-Y
88894397	11-829	333	96.00	1.50	1.50		3.00		LM7, 16 VALVE
88894397	11-829	333	3.780	0.059	0.059		0.118		LM7, 16 VALVE
88894397	11-829	333							LM7, 16 VALVE
88894397	11-829	333							LM7, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							LM7, 16 VALVE
88894397	11-829	333							LM4, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							LM4, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
88894397	11-829	333							L59, LM7, 16 VALVE
89017579	11-900	349	96.00	1.50	1.50		3.00		LM7, 16 VALVE
89017579	11-900	349	3.780	0.059	0.059		0.118		LH6, 16 VALVE
89017579	11-900	349							LH6, LM4, 16 VALVE
89017579	11-900	349							LM7, 16 VALVE
89017579	11-900	349							LM7, 16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

5328	5.3L	325	RAINIER	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SAVANA G1500	2003 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SIERRA 1500	2004 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SILVERADO 1500	2003 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SSR	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SUBURBAN (CH)	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TAHOE	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TRAILBLAZER	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	YUKON	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	YUKON XL	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	CANYON	2009 - 2012	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	COLORADO	2008 - 2012	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	ENVOY	2002 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	EXPRESS G1500	2008 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	GRAND PRIX	2006 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	H3	2008 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	H3T	2008 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	IMPALA	2007 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	LaCrosse	2009 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	MONTE CARLO	2006 - 2008	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	RAINIER	2005 - 2008	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	SAVANA G1500	2008 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TAHOE	2007 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	TRAILBLAZER	2004 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	SWG10005
5328	5.3L	325	AVALANCHE	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	SIERRA 1500	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	SILVERADO 1500	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	SUBURBAN (CH)	2007 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	TAHOE	2010 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	YUKON	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	YUKON XL	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	SWG10005
5328	5.3L	325	SIERRA HYBRID	2005 - 2008	V8	Vortec 5300H	F.I.	O.H.V.	-	NA
5328	5.3L	325	SILVERADO HYBRID	2005 - 2007	V8	Vortec 5300H	F.I.	O.H.V.	-	NA
5328	5.3L	325	EXPRESS G1500	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	SAVANA G1500	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	SIERRA 1500	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	SILVERADO 1500	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	SUBURBAN (CH)	2015 - 2016	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	TAHOE	2015 - 2016	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	YUKON	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA
5328	5.3L	325	YUKON XL	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	NA

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							LM7, 16 VALVE
89017579	11-900	349							L33, L59, LM7, 16 VALVE
89017579	11-900	349							L33, L59, LM7, 16 VALVE
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017577	11-899	349	96.00	1.50	1.50		3.00		LH8, 16 VALVE
89017577	11-899	349	3.780	0.059	0.059		0.118		LH8, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
89017577	11-899	349							LY5, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LH8, 16 VALVE
89017577	11-899	349							LH8, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
89017577	11-899	349							LY5, 16 VALVE
89017577	11-899	349							LMG, LY5, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
19208675	X		96.00	1.50	1.50		3.00		LC9, LMG, LY5, 16 VALVE
19208675	X		3.780	0.059	0.059		0.118		LC9, LH6, LMG, LY5, 16 VALVE
19208675	X								LC9, LH6, LMG, LY5, 16 VALVE
19208675	X								LC9, LMG, LY5, 16 VALVE
19208675	X								LC9, LMG, LY5, 16 VALVE
19208675	X								LC9, LH6, LMG, LY5, 16 VALVE
19208675	X								LC9, LH6, LMG, LY5, 16 VALVE
-	X		96.00	1.50	1.50		3.00		16 VALVE
-	X		3.780	0.059	0.059		0.118		16 VALVE
-	X		96.00						16 VALVE
-	X		3.780	0.000	0.000		0.000		16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
5670	5.7L	346	CTS	2004 - 2006	V8	Vortec 5700 LS6	F.I.	O.H.V.	88894299	SWG10018
5670	5.7L	346	FIREBIRD	1998 - 2002	V8	Vortec 5700 LS6	F.I.	O.H.V.	88894299	SWG10018
5670	5.7L	346	GRAND PRIX	2005 - 2008	V8	Vortec 5700 LS6	F.I.	O.H.V.	88894299	SWG10018
5670	5.7L	346	IMPALA	2008 - 2009	V8	Vortec 5700 LS6	F.I.	O.H.V.	88894299	SWG10018
5670	5.7L	346	CAMARO	1998 - 2002	V8	Vortec 5700 LS6	F.I.	O.H.V.	88894299	SWG10018
5670	5.7L	346	CORVETTE	1997 - 2004	V8	Vortec 5700 LS1	F.I.	O.H.V.	88984247	SWG10018
5670	5.7L	346	CORVETTE	2001 - 2004	V8	Vortec 5700 LS6	F.I.	O.H.V.	88984247	SWG10018
5670	5.7L	346	GTO	2004 ONLY	V8	Vortec 5700 LS6	F.I.	O.H.V.	88984247	SWG10018
5735	5.7L	350	BLAZER	1974 - 1985	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	CHEVY VAN	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	JIMMY	1975 - 1985	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	MAGNAVAN	1974 - 1988	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (Chev)	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (GMC)	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	RALLY	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SPORTVAN	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SPRINT	1974 - 1975	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (CH)	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (GM)	1974 - 1986	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	VANDURA	1974 - 1988	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	CAMARO	1988 ONLY	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	CORVETTE	1986 - 1988	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	CORVETTE	1986 ONLY	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	CAMARO	1987 - 1989	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	CORVETTE	1989 ONLY	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	FIREBIRD	1987 - 1989	V8	Chevy S.B. 350 L98	F.I.	O.H.V.	12507985	SWF80016
5735	5.7L	350	BLAZER	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	CABALLERO	1978 ONLY	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	CABALLERO	1979 ONLY	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	CAMARO	1980 - 1981	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	CHEVY VAN	1974 - 1995	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	CORVETTE	1980 - 1981	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	MAGNAVAN	1975 - 1991	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	MALIBU	1981 ONLY	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	MONTE CARLO	1981 ONLY	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (Chev)	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
SWF80016 CONTINUED										
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12456108	X		99.00	1.50	1.50		3.00		16 VALVE
12456108	X		3.898	0.059	0.059		0.118		16 VALVE
12456108	X								16 VALVE
12456108	X								16 VALVE
88894273	X		99.00	1.50	1.50		3.00		16 VALVE
			3.898	0.059	0.059		0.118		
88984245	X		99.00	1.50	1.50		3.00		16 VALVE
88984245	X		3.898	0.059	0.059		0.118		16 VALVE
88984245	X								16 VALVE
10049076	X		101.60	1.98	1.98		4.76		
10049076	X		4.000	0.078	0.078		0.188		VIN-M
10049076	X								
10049076	X								G3500, VIN-M
10049076	X								C3500, K2500, VIN-M
10049076	X								G3500, VIN-M
10049076	X								VIN-M
10049076	X								
10049076	X								VIN-M
10049076	X								K2500, VIN-M
10049076	X								G3500, VIN-M
10049079	X		101.60	1.98	1.98		4.76		
10049079	X		4.000	0.078	0.078		0.188		ALUMINUM HEAD
14093989	X		101.60	1.98	1.98		4.76		CAST IRON HEAD
			4.000	0.078	0.078		0.188		
12514101	X		101.60	1.98	1.98		4.76		
12514101	X		4.000	0.078	0.078		0.188		
12514101	X								
12514101	X		101.60	1.98	1.98		4.76		VIN-K, L
12514101	X		4.000	0.078	0.078		0.188		
12514101	X								
12514101	X								VIN-K, L
12514101	X								VIN-K, L
12514101	X								VIN-K, L
12514101	X								
12514101	X								VIN-K, L
12514101	X								
12514101	X								VIN-K, L
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

5735	5.7L	350	PICKUP (GMC)	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	RALLY	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SPORTVAN	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SPRINT	1975 - 1977	V8	Chevy S.B. 350	CARB	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (CH)	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (GM)	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	VANDURA	1974 - 1994	V8	Chevy S.B. 350	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	CORVETTE	1980 - 1985	V8	Chevy S.B. 350 L83	C & F	O.H.V.	14089025	SWF80016
5735	5.7L	350	BLAZER	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	CHEVY VAN	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	MAGNAVAN	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (Chev)	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (GMC)	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	SPORTVAN	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (CH)	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (GM)	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	VANDURA	1987 - 1993	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (Chev)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (GMC)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (GM)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (Chev)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	PICKUP (GMC)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	SUBURBAN (GM)	1995 ONLY	V8	Chevy S.B. 350	F.I.	O.H.V.	14089025	SWF80016
5735	5.7L	350	C3500 HD	1991 - 1993	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	JIMMY	1987 - 1991	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	RALLY	1987 - 1993	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	C3500 HD	1994 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	JIMMY	1974 - 1991	V8	Vortec 5700 L31	C & F	O.H.V.	88894219	SWF80016
5735	5.7L	350	TRANS AM	1992 - 1996	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	YUKON	1992 - 1998	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	CHEVY VAN	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	RALLY	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	SPORTVAN	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	SUBURBAN (CH)	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	VANDURA	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12514101	X								C1500, K1500, VIN-K, L
12514101	X								G1500, G2500, VIN-K, L
12514101	X								VIN-K, L
12514101	X								
12514101	X								VIN-K, L
12514101	X								C1500, K1500, VIN-K, L
12514101	X								G1500, G2500. VIN-K, L
474190	X		101.60	1.98	1.98		4.76		
			4.000	0.078	0.078		0.188		
14093989	X		101.60	1.98	1.98		4.76		VIN-K
14093989	X		4.000	0.078	0.078		0.188		VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
14093989	X								VIN-K
12514102	X		101.60	1.98	1.98		4.76		16 VALVE
12514102	X		4.000	0.078	0.078		0.188		16 VALVE
12514102	X								16 VALVE
10181280	X		101.60	1.98	1.98		4.76		16 VALVE
10181280	X		4.000	0.078	0.078		0.188		16 VALVE
10181280	X								16 VALVE
14093989	X		101.60	1.98	1.98		4.76		16 VALVE
14093989	X		4.000	0.078	0.078		0.188		VIN-K, 16 VALVE
14093989	X								VIN-K, 16 VALVE
12514101	X		101.60	1.98	1.98		4.76		16 VALVE
12514101	X		4.000	0.078	0.078		0.188		C1500, K1500, VIN-K, L, 16 VALVE
12514101	X								16 VALVE
12514101	X								16 VALVE
10181280	X		101.60	1.98	1.98		4.76		16 VALVE
10181280	X		4.000	0.078	0.078		0.188		16 VALVE
10181280	X								16 VALVE
10181280	X								16 VALVE
10181280	X								16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

5735	5.7L	350	CHEVY VAN	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	RALLY	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	SPORTVAN	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	SUBURBAN (CH)	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	VANDURA	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	SWF80016
5735	5.7L	350	CHEVY Express	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	CHEVY VAN	1996 - 1998	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	CUTAWAY G30	1996 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	CUTAWAY G3500	1997 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	ESCALADE	1999 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	EXPRESS G1500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	EXPRESS G2500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	EXPRESS G3500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	PICKUP (Chev)	1996 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	PICKUP (GMC)	1996 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	RV CUTAWAY	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	SAVANA G1500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	SAVANA G2500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	SAVANA G3500	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	SUBURBAN (CH)	1996 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	SUBURBAN (GM)	1996 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	TAHOE	1995 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	YUKON	1999 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5735	5.7L	350	YUKON DENALI	2000 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	SWI10197
5964	6.0L	364	CUTAWAY G3500	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	EXPRESS G2500	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	EXPRESS G3500	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	H2	2003 - 2004	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	SAVANA G2500	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	SAVANA G3500	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	SILVERADO 2500	1999 - 2004	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	SUBURBAN (CH)	2000 - 2006	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5964	6.0L	364	YUKON DENALI	2001 - 2006	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	SWI10197
5967	6.0L	364	ESCALADE	2002 - 2006	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	ESCALADE EXT	2002 - 2006	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SIERRA 1500	1999 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SIERRA 2500	1999 - 2004	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SIERRA 2500 HD	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SIERRA 3500	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SILVERADO 1500	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SILVERADO 2500HD	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	SILVERADO 3500HD	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197
5967	6.0L	364	YUKON	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	SWI10197

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12514102	X		101.60	1.98	1.98		4.76		16 VALVE
12514102	X		4.000	0.078	0.078		0.188		16 VALVE
12514102	X								16 VALVE
12514102	X								16 VALVE
12514102	X								16 VALVE
12522850	11-828	333	101.60	1.50	1.50		3.00		16 VALVE
12522850	11-828	333	4.000	0.059	0.059		0.118		16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
12522850	11-828	333							16 VALVE
88894003	11-823	332	101.60	1.50	1.50		3.00		16 VALVE
88894003	11-823	332	4.000	0.059	0.059		0.118		16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
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88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
88894003	11-823	332							16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5967	6.0L	364	AVALANCHE	2007 - 2012	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	CUTAWAY G3500	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	EXPRESS G2500	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	EXPRESS G3500	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	G8	2008 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SAVANA G2500	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SAVANA G3500	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SIERRA 1500	2006 - 2011	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SILVERADO 1500	2006 - 2010	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	TRAILBLAZER	2006 - 2009	V8	Vortec 6000 L76	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	ESCALADE HYBRID	2009 - 2010	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SIERRA HYBRID	2008 - 2009	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SILVERADO HYBRID	2008 - 2009	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	TAHOE HYBRID	2008 - 2009	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	YUKON HYBRID	2008 - 2009	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	YUKON HYBRID DENALI	2008 - 2009	V8	Vortec 6000 LFA	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	CORVETTE	2005 - 2008	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	GTO	2005 - 2006	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SSR	2005 - 2006	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	CTS	2007 - 2008	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	H2	2005 - 2007	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SIERRA 2500	2005 - 2008	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SIERRA 2500 HD	2006 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SIERRA 3500	2006 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SILVERADO 2500HD	2006 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SILVERADO 3500HD	2006 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SUBURBAN (CH)	2007 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	YUKON XL	2006 - 2015	V8	Vortec 6000 LY6	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SILVERADO 1500	2010 - 2012	V8	Vortec 6000 L77	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	CUTAWAY G3500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	CUTAWAY G4500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	EXPRESS G2500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	EXPRESS G3500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SAVANA G2500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
5967	6.0L	364	SAVANA G3500	2010 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	89017484	SWG10031
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
89017849	11-889	346	101.60	1.20	1.50		2.50		16 VALVE
89017849	11-889	346	4.000	0.047	0.059		0.098		16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
19209286	X		101.60	1.20	1.50		2.50		16 VALVE
19209286	X		4.000	0.047	0.059		0.098		16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
89017478	X		101.60	1.20	1.50		2.50		16 VALVE
89017478	X		4.000	0.047	0.059		0.098		16 VALVE
89017478	X								16 VALVE
19178305	X		101.60	1.20	1.50		2.50		16 VALVE
19178305	X		4.000	0.047	0.059		0.098		16 VALVE
19178305	X								16 VALVE
89017582	X		101.60	1.20	1.50		2.50		16 VALVE
89017582	X		4.000	0.047	0.059		0.098		16 VALVE
89017582	X								16 VALVE
89017582	X								16 VALVE
89017582	X								3/4 Ton, 16 VALVE
89017582	X								16 VALVE
19209286	X		101.60	1.20	1.50		2.50		16 VALVE
			4.000	0.047	0.059		0.098		
89017849	11-889	346	101.60	1.20	1.50		2.50		16 VALVE
89017849	11-889	346	4.000	0.047	0.059		0.098		16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
89017849	11-889	346							16 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5967	6.0L	364	ESCALADE HYBRID	2011 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SIERRA HYBRID	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	SILVERADO HYBRID	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	TAHOE HYBRID	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	YUKON HYBRID	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
5967	6.0L	364	YUKON HYBRID DENALI	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	SWG10031
6162	6.2L	376	ESCALADE	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	ESCALADE EXT	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	H2	2008 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	TBA
6162	6.2L	376	SIERRA 1500 DENALI	2009 - 2015	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	SILVERADO 1500	2009 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	TBA
6162	6.2L	376	YUKON DENALI	2007 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	YUKON XL DENALI	2010 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	CAMARO	2010 - 2015	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	CORVETTE	2008 - 2013	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	G8	2008 - 2009	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	SS	2013 - 2015	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	CORVETTE	2014 - 2015	V8	Vortec 6200 LT1	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	CTS SPORT WAGON	2008 - 2015	V8	Vortec 6200 LSA	F.I.	O.H.V.	19180423	NA
6162	6.2L	376	CTS-V	2008 - 2015	V8	Vortec 6200 LSA	F.I.	O.H.V.	19180423	NA
6162	6.2L	376	CORVETTE ZR1	2008 - 2013	V8	Vortec 6200 LS9	F.I.	O.H.V.	19180423	NA
6162	6.2L	376	CAMARO ZL1	2010 - 2015	V8	Vortec 6200 L99	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	ESCALADE	2010 - 2015	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	ESCALADE EXT	2010 - 2015	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	TBA
6162	6.2L	376	CORVETTE Z51	2014 - 2015	V8	Vortec 6200 LT4	F.I.	O.H.V.	19180423	NA
6162	6.2L	376	SILVERADO 1500	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	NA
6162	6.2L	376	YUKON DENALI	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	NA
6162	6.2L	376	YUKON XL DENALI	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	NA
6473	6.5L	395	BLAZER	1994 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	C3500 HD	1992 - 1995	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	C3500 HD	1999 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CHEVY Express	1997 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CHEVY VAN	1994 - 1998	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CUTAWAY G3500	1997 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	EXPRESS G2500	1996 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
SDG10024 CONTINUED										
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
19209286	X		101.60	1.20	1.50		2.50		16 VALVE
19209286	X		4.000	0.047	0.059		0.098		16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
19209286	X								16 VALVE
19178597	11-904	350	103.25	1.50	1.50		2.50		16 VALVE
19178597	11-904	350	4.065	0.059	0.059		0.098		16 VALVE
19178597	11-904	350							16 VALVE
19178597	11-904	350							16 VALVE
19178597	11-904	350							16 VALVE
19178597	11-904	350							16 VALVE
19178597	11-904	350							16 VALVE
19207287	X		103.25	1.50	1.50		2.50		STD Trans., 16 VALVE
19207287	X		4.065	0.059	0.059		0.098		16 VALVE
19207287	X								16 VALVE
19207287	X								16 VALVE
19207287	X								16 VALVE
19180413	X		103.25						16 VALVE
19180413	X		4.065	0.000	0.000		0.000		16 VALVE
19180414	X		103.25						Supercharger, 16 VALVE
			4.065	0.000	0.000		0.000		
19208471	11-904	350	103.25	1.50	1.50		2.50		AUTO Trans., 16 VALVE
19208471	11-904	350	4.065	0.059	0.059		0.098		16 VALVE
19208471	11-904	350							16 VALVE
-	X		103.25						Supercharger, 16 VALVE
			4.065	0.000	0.000		0.000		
-	X		103.25						16 VALVE
-	X		4.065	0.000	0.000		0.000		16 VALVE
-	X								16 VALVE
12550059	11-830	333	103.00	3.0K	2.00		4.00		(Detroit Diesel), 16 VALVE
12550059	11-830	333	4.055	0.018K	0.079		0.157		(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
11-830 CONTINUED									
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
6473	6.5L	395	EXPRESS G3500	1996 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	H1	2002 - 2004	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	H1 ALPHA	2002 - 2004	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	PICKUP (Chev)	1992 - 2000	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	PICKUP (GMC)	1994 - 2000	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	RALLY	1994 - 1995	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	RV CUTAWAY	1997 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SAVANA G2500	1996 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SAVANA G3500	1996 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SPORTVAN	1994 - 1995	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SUBURBAN (CH)	1992 - 1998	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SUBURBAN (GM)	1994 - 1999	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	VANDURA	1994 - 1995	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	YUKON	1994 - 1997	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CHEVY Express	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CHEVY VAN	1996 - 1998	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	CUTAWAY G30	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	PICKUP (Chev)	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	PICKUP (GMC)	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	RV CUTAWAY	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SPORTVAN	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SUBURBAN (CH)	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	SUBURBAN (GM)	1996 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6473	6.5L	395	TAHOE	1995 - 1999	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	SDG10024
6599	6.6L	403	CUTAWAY G3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2001 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2002 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2002 - 2004	V8	Duramax LB7	DIESEL	O.H.V.	97386951	SDI10183
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
				T	D	D			

HUMMER, OLDSMOBILE, PONTIAC, SATURN

12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel) 16 VALVE
12550059	11-830	333							(Detroit Diesel) 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550059	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333	103.00	3.0K	2.00		4.00		(Detroit Diesel), 16 VALVE
12550061	11-830	333	4.055	0.018K	0.079		0.157		(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
12550061	11-830	333							(Detroit Diesel), 16 VALVE
97226117	11-884	345	103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345	103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345	4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345	4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
6599	6.6L	403	CUTAWAY G3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2004 - 2005	V8	Duramax LLY	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	H1 ALPHA	2006 ONLY	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	H1 ALPHA	2006 ONLY	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2006 - 2007	V8	Duramax LBZ	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
SDI10183 CONTINUED										
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
97226117	11-884	345	103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345	103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345	4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345	4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
97226117	11-884	345							LEFT, w/ TURBO, 32 VALVE
97226116	11-884	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345	103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
-	11-884*	345	103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345	4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
-	11-884*	345	4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
-	11-884*	345							LEFT, w/ TURBO, 32 VALVE
-	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345	103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345	103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345	4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345	4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
11-884* CONTINUED									
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

GMC, BUICK, CADILLAC, CHEVROLET, GEO

6599	6.6L	403	SAVANA G2500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2007 - 2009	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	TOPKICK	2007 - 2009	V8	Duramax LMM	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G3500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	CUTAWAY G4500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G2500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	EXPRESS G3500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G2500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SAVANA G3500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 2500 HD	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SIERRA 3500	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 2500HD	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183
6599	6.6L	403	SILVERADO 3500HD	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	SDI10183

GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
97374385	11-884*	345							LEFT, w/ TURBO, 32 VALVE
97374384	11-884*	345							RIGHT, w/ TURBO, 32 VALVE
19256948	NA		103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
19256949	NA		103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
19256948	NA		4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
19256949	NA		4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19256948	NA								LEFT, w/ TURBO, 32 VALVE
19256949	NA								RIGHT, w/ TURBO, 32 VALVE
19260446	NA		103.00	2.95	2.00		3.00		w/ TURBO, 32 VALVE
19260446	NA		4.055	0.116	0.079		0.118		w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
19260446	NA								w/ TURBO, 32 VALVE
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
HINO										
4730	4.7L	289	CLASS 4 - 145	2009 - 2010	4	J05D-TF	DIESEL	S.O.H.C.	-	NA
4730	4.7L	289	CLASS 4 - 165	2009 - 2010	4	J05D-TF	DIESEL	S.O.H.C.	-	NA
4730	4.7L	289	CLASS 5 - 185	2009 - 2010	4	J05D-TF	DIESEL	S.O.H.C.	-	NA
5000	5.0L	305	CLASS 5 - 195	2012 - 2015	4	J05E-TP	DIESEL	S.O.H.C.	13011-E0350	SDH20108*
5000	5.0L	305	CLASS 5 - 195DC	2012 - 2015	4	J05E-TP	DIESEL	S.O.H.C.	13011-E0350	SDH20108*
5000	5.0L	305	CLASS 5 - 195H	2013 - 2015	4	J05E-TPH	DIESEL	S.O.H.C.	13011-E0350	SDH20108*
5000	5.0L	305	CLASS 5 - 195HDC	2013 - 2015	4	J05E-TPH	DIESEL	S.O.H.C.	13011-E0350	SDH20108*
7684	7.7L	469	CLASS 6 - 238	2009 - 2010	6	J08E-TV	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 6 - 258ALP	2009 - 2010	6	J08E-TV	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 6 - 258LP	2009 - 2010	6	J08E-TV	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 6 - 268	2009 - 2010	6	J08E-TV	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 6 - 268A	2009 - 2010	6	J08E-TV	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 7 - 338	2009 - 2010	6	J08E-TW	DIESEL	S.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	CLASS 7 - 338CT	2009 - 2010	6	J08E-TW	DIESEL	S.O.H.C.	13011-4040A	SDH20102
8000	8.0L	488	CLASS 6 - 238	2011 - 2015	6	J08E-VC	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 6 - 258ALP	2011 - 2015	6	J08E-VC	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 6 - 258LP	2011 - 2015	6	J08E-VC	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 6 - 268	2011 - 2015	6	J08E-VC	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 6 - 268A	2011 - 2015	6	J08E-VC	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 7 - 338	2011 - 2015	6	J08E-VB	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
8000	8.0L	488	CLASS 7 - 338CT	2011 - 2013	6	J08E-VB	DIESEL	S.O.H.C.	13011-4040A	SDH20102*
HINO - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
995	1.0L	61	INSIGHT	2000 - 2006	3	ECA-MF2	F.I.	S.O.H.C.	13011-PHM-004	NA
1169	1.2L	71	CIVIC	1973 ONLY	4	EB1	CARB	S.O.H.C.	13011-634-004	SWH30107
1237	1.2L	75	CIVIC	1974 - 1978	4	EB2	CARB	S.O.H.C.	13011-642-004	SWH30184
1237	1.2L	75	CIVIC	1978 ONLY	4	EB3	CARB	S.O.H.C.	13011-673-000	SWH30109
1237	1.2L	75	CIVIC	1979 ONLY	4	EB3	CARB	S.O.H.C.	13011-PA1-004	SWH30109
1335	1.3L	81	CIVIC	1980 ONLY	4	EJ1	CARB	S.O.H.C.	13011-PA0-004	SWH30109
1335	1.3L	81	CIVIC	1981 ONLY	4	EJ1	CARB	S.O.H.C.	13011-PA0-004	SWH30109
1335	1.3L	81	CIVIC	1982 - 1983	4	EJ1	CARB	S.O.H.C.	13011-PA5-004	SWH30219
1339	1.3L	82	CIVIC HYBRID	2003 - 2005	4	LDA-MF3	F.I.	S.O.H.C.	13011-PWA-G01	SWH30474
1339	1.3L	82	CIVIC HYBRID	2006 - 2011	4	LDA-MF3	F.I.	S.O.H.C.	13011-RMX-001	SWH30474
1339	1.3L	82	INSIGHT	2009 - 2015	4	LDA-MF3	F.I.	S.O.H.C.	13011-RBJ-004	NA
1342	1.3L	82	CIVIC	1984 - 1987	4	EV1	CARB	S.O.H.C.	13011-PE0-662	SWH30252
1342	1.3L	82	CIVIC	1984 - 1987	4	EV1	CARB	S.O.H.C.	13011-PE0-662	SWH30252
1342	1.3L	82	CRX	1984 - 1987	4	EV1	C & F	S.O.H.C.	13011-PE0-662	SWH30252
1342	1.3L	82	CRX	1984 - 1987	4	EV1	C & F	S.O.H.C.	13011-PE0-662	SWH30252
1342	1.3L	82	CRX	1984 - 1987	4	D13A2	C & F	S.O.H.C.	13011-PE0-662	SWH30252
1342	1.3L	82	CRX	1984 - 1987	4	D13A2	C & F	S.O.H.C.	13011-PE0-662	SWH30252
1488	1.5L	91	CIVIC	1979 ONLY	4	ED4	CARB	S.O.H.C.	13011-657-674	SWH30114
1488	1.5L	91	CIVIC	1975 - 1978	4	ED3	CARB	S.O.H.C.	13011-657-674	SWH30114
1488	1.5L	91	CIVIC	1980 ONLY	4	EM1	CARB	S.O.H.C.	13011-657-674	SWH30114
1488	1.5L	91	CIVIC	1981 - 1983	4	EM1	CARB	S.O.H.C.	13011-657-674	SWH30114
1488	1.5L	91	CIVIC	1982 - 1983	4	EM1	CARB	S.O.H.C.	13011-PE1-004	SWH30253
1488	1.5L	91	CIVIC	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CIVIC	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	EW3	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	EW3	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	D15A2	CARB	S.O.H.C.	13011-PA6-014	SWH30253
1488	1.5L	91	CRX	1984 - 1987	4	D15A2	CARB	S.O.H.C.	13011-PA6-014	SWH30253
HONDA - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
13010-PHM-000	NA		72.00						w/ VTECH-E, 12 VALVE
13101-634-000	DISC. 11-096		70.00	1.50	1.50		2.80		1200
13101-634-670	DISC. 11-097		72.00	1.50	1.50		2.80		1200
13101-634-671	DISC. 11-098		72.00	1.50	1.50		4.00		1200
13101-634-671	DISC. 11-098		72.00	1.50	1.50		4.00		1200
13101-PA0-000	DISC. 11-099		72.00	1.50	1.50		4.00		1300
13101-PA5-000	DISC. 11-100		72.00	1.50	1.50		4.00		1300
13101-PA5-030	DISC. 11-102		72.00	1.00	1.20		2.80		1300
13010-PZA-A00	NA		73.00	1.00	1.20		2.00		w/ VTECH, 8 VALVE
13010-RMX-010	NA		73.00	1.00	1.20		2.00		w/ VTECH, 8 VALVE
13010-RBJ-000	NA		73.00						w/ i-VTECH, 8 VALVE
13101-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		CYL #1,3, 12 VALVE
13105-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		CYL #2,4, 12 VALVE
13101-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		DX CYL #1,3, 12 VALVE
13105-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		DX CYL #2,4, 12 VALVE
13101-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		DX CYL #1,3, 12 VALVE
13105-PE0-660	DISC. 11-109		74.00	1.20	-		2.80		DX CYL #2,4, 12 VALVE
13101-657-030	11-105	281	74.00	1.50	1.50		4.00		CVCC, 12 VALVE
13101-657-670	11-105	281	74.00	1.50	1.50		4.00		CVCC, 12 VALVE
13101-PA6-000	11-106	281	74.00	1.50	1.50		4.00		1500, 12 VALVE
13101-PA6-305	DISC. 11-107		74.00	1.50	1.50		4.00		1500, 12 VALVE
13101-PA6-306	DISC. 11-108		74.00	1.20	1.20		2.80		1500, 12 VALVE
13101-PE1-000	11-111	282	74.00	1.20	1.20		2.80		CYL #1,3, 16 VALVE
13105-PE1-000	11-111	282	74.00	1.20	1.20		2.80		CYL #2,4, 16 VALVE
13101-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #1,3, 16 VALVE
13105-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #2,4, 16 VALVE
13101-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #1,3, 16 VALVE
13105-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #2,4, 16 VALVE
13101-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #1,3, 16 VALVE
13105-PE1-000	11-111	282	74.00	1.20	1.20		2.80		Si, DX MODELS CYL #2,4, 16 VALVE

HONDA - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
HONDA										
1488	1.5L	91	CIVIC	1985 ONLY	4	EW3	F.I.	S.O.H.C.	04151-PE7-305	SWH30186
1488	1.5L	91	CIVIC	1986 - 1987	4	EW4	F.I.	S.O.H.C.	04151-PE7-305	SWH30186
1488	1.5L	91	CRX	1985 ONLY	4	EW3	F.I.	S.O.H.C.	04151-PE7-305	SWH30186
1488	1.5L	91	CRX	1986 - 1987	4	EW4	F.I.	S.O.H.C.	04151-PE7-305	SWH30186
1488	1.5L	91	CRX	1986 - 1987	4	D15A3	F.I.	S.O.H.C.	04151-PE7-305	SWH30186
1488	1.5L	91	CRX	1985 - 1986	4	EW1	CARB	S.O.H.C.	13011-PE0-004	SWH30374
1488	1.5L	91	CRX	1985 - 1986	4	EW1	CARB	S.O.H.C.	13011-PE0-004	SWH30374
1493	1.5L	91	CIVIC	1988 - 1991	4	D15B1	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	CIVIC	1988 - 1991	4	D15B2	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	CRX	1988 - 1991	4	D15B1	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	CRX	1988 - 1991	4	D15B2	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	CIVIC	1992 - 1995	4	D15Z1	F.I.	S.O.H.C.	13011-P07-004	SWH30423
1493	1.5L	91	DEL SOL	1992 - 1993	4	D15Z1	F.I.	S.O.H.C.	13011-P07-004	SWH30423
1493	1.5L	91	CIVIC	1992 - 1995	4	D15B7	F.I.	S.O.H.C.	13011-P10-A03	SWH30362
1493	1.5L	91	DEL SOL	1992 - 1995	4	D15B7	F.I.	S.O.H.C.	13011-P10-A03	SWH30362
1493	1.5L	91	CIVIC	1992 - 1995	4	D15B8	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	DEL SOL	1992 - 1993	4	D15B8	F.I.	S.O.H.C.	13011-P04-G02	SWH30365
1493	1.5L	91	CRX	1989 - 1991	4	D15B6	F.I.	S.O.H.C.	13011-PM8-A02	SWH30363
1496	1.5L	91	FIT	2007 - 2008	4	L15A1	F.I.	S.O.H.C.	13011-PWC-J01	TBA
1497	1.5L	91	CR-Z HYBRID	2010 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RB1-006	SWH30465
1497	1.5L	91	FIT	2009 - 2015	4	L15A7	F.I.	S.O.H.C.	13011-RB1-004	SWH30465
1497	1.5L	91	CIVIC HYBRID	2012 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RW0-004	SWH30465
1590	1.6L	97	CIVIC	1988 - 1991	4	D16A6	F.I.	S.O.H.C.	13011-PM6-G02	SWH30362
1590	1.6L	97	CRX	1988 - 1991	4	D16A6	F.I.	S.O.H.C.	13011-PM6-G02	SWH30362
1590	1.6L	97	CIVIC	1992 - 1995	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	SWH30362
1590	1.6L	97	CIVIC	1992 - 1993	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	SWH30362
1590	1.6L	97	DEL SOL	1992 - 1993	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	SWH30362
1590	1.6L	97	DEL SOL	1992 - 1995	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	SWH30362
1590	1.6L	97	CIVIC	1995 - 2000	4	D16Y8	F.I.	S.O.H.C.	13011-P07-004	SWH30423
1590	1.6L	97	DEL SOL	1996 - 1997	4	D16Y8	F.I.	S.O.H.C.	13011-P07-004	SWH30423
1590	1.6L	97	CIVIC	1996 - 2000	4	D16Y7	F.I.	S.O.H.C.	13011-P2F-A01	SWH30423
1590	1.6L	97	DEL SOL	1996 - 1997	4	D16Y7	F.I.	S.O.H.C.	13011-P07-004	SWH30423
HONDA - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HONDA									
13101-PE7-305	11-515	288	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	11-515	288	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	11-515	288	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	11-515	288	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	11-515	288	74.00	1.50	1.50		4.00		12 VALVE
13101-PE1-720	11-521	289	74.00	1.00	1.20		2.80		HF MODELS CYL #1,3, 12 VALVE
13105-PE1-720	11-521	289	74.00	1.00	1.20		2.80		HF MODELS CYL #2,4, 12 VALVE
13101-PM3-020	11-518	288	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	11-518	288	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	11-518	288	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	11-518	288	75.00	1.20	1.50		2.80		16 VALVE
13010-P07-000	11-736	316	75.00	1.00	1.20		2.80		w/ VTECH-E, 16 VALVE
13010-P07-000	11-736	316	75.00	1.00	1.20		2.80		w/ VTECH-E, 16 VALVE
13010-P03-010	DISC. 11-746		75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P03-010	DISC. 11-746		75.00	1.20	1.50		2.80		S MODELS w/o VTECH, 16 VALVE
13010-P03-011	NA		75.00	1.20	1.50		2.80		w/o VTECH, 8 VALVE
13010-P03-011	NA		75.00	1.20	1.50		2.80		w/o VTECH, 8 VALVE
13101-PM8-A01	NA		75.00	1.00	1.20		2.80		HF MODEL, 8 VALVE
13010-PWC-J01	11-890	347	73.00	1.00	1.20		2.00		including Sport, w/ VTECH, 16 VALVE
13010-RB1-000	NA		73.00	1.00	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RB1-000	NA		73.00	1.00	1.00		2.00		including Sport, w/ i-VTECH, 16 VALVE
13010-RW0-000	NA		73.00	1.00	1.00		2.00		w/ i-VTECH, 16 VALVE
13101-PM6-020	11-514	288	75.00	1.20	1.50		2.80		16 VALVE
13101-PM6-020	11-514	288	75.00	1.20	1.50		2.80		Si MODELS, 16 VALVE
13010-P28-A01	11-679	306	75.00	1.20	1.50		2.80		w/ VTECH, 16 VALVE
13010-P28-A01	11-679	306	75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P28-A01	11-679	306	75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P28-A01	11-679	306	75.00	1.20	1.50		2.80		Si MODELS, w/ VTECH, 16 VALVE
13010-P2P-000	11-732	315	75.00	1.00	1.20		2.80		EX , w/ VTECH, 16 VALVE
13010-P2P-000	11-732	315	75.00	1.00	1.20		2.80		Si MODELS, 16 VALVE
13010-P2E-000	11-752	319	75.00	1.00	1.20		2.80		CX, DX, LX, 16 VALVE
13010-P2E-000	11-752	319	75.00	1.00	1.20		2.80		S MODELS, 16 VALVE
HONDA - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
HONDA										
1590	1.6L	97	CIVIC	1996 - 2000	4	D16Y5	F.I.	S.O.H.C.	13011-P07-004	SWH30423
1590	1.6L	97	CIVIC Si	1999 - 2000	4	B16A2	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1590	1.6L	97	DEL SOL	1994 - 1995	4	B16A3	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1590	1.6L	97	DEL SOL	1996 - 1997	4	B16A2	F.I.	D.O.H.C.	13011-PR3-004	SWH30373
1597	1.6L	97	ACCORD	1976 - 1978	4	EF1	CARB	S.O.H.C.	13011-671-010	SWH30114
1668	1.7L	102	CIVIC	2001 - 2005	4	D17A1	F.I.	S.O.H.C.	13011-PLM-A00	SWH30440
1668	1.7L	102	CIVIC	2001 - 2005	4	D17A7	F.I.	S.O.H.C.	13011-PLR-A00	SWH30440
1668	1.7L	102	CIVIC	2001 - 2005	4	D17A8	F.I.	S.O.H.C.	13011-PLR-A00	SWH30440
1751	1.8L	107	ACCORD	1981 - 1983	4	EK1	CARB	S.O.H.C.	13011-676-604	SWH30158
1751	1.8L	107	ACCORD	1979 - 1980	4	EK1	CARB	S.O.H.C.	13011-676-604	SWH30158
1751	1.8L	107	PRELUDE	1979 - 1982	4	EK1	CARB	S.O.H.C.	13011-676-604	SWH30158
1798	1.8L	110	CIVIC	2006 - 2009	4	R18A1	F.I.	S.O.H.C.	13011-RNA-A01	SWH30484
1798	1.8L	110	CIVIC	2010 - 2015	4	R18A1	F.I.	S.O.H.C.	13011-RNB-A02	SWH30484
1798	1.8L	110	HR-V	2015 - 2016	4	R18A1	F.I.	S.O.H.C.	13011-RNB-A02	SWH30484
1829	1.8L	112	PRELUDE	1984 - 1987	4	ET2	CARB	S.O.H.C.	13011-PC6-004	SWH30251
1829	1.8L	112	PRELUDE	1986 - 1987	4	A18A1	CARB	S.O.H.C.	13011-PH2-003	SWH30251
1829	1.8L	112	PRELUDE	1983 ONLY	4	ES1	CARB	S.O.H.C.	13011-PC6-004	SWH30251
1829	1.8L	112	ACCORD	1984 - 1985	4	ES2	CARB	S.O.H.C.	13011-PH2-003	SWH30251
1829	1.8L	112	ACCORD	1985 ONLY	4	ES3	F.I.	S.O.H.C.	13011-PH2-003	SWH30251
1955	2.0L	119	ACCORD	1986 ONLY	4	BT	F.I.	S.O.H.C.	13011-PH4-004	SWH30366
1955	2.0L	119	ACCORD	1987 - 1989	4	A20A3	F.I.	S.O.H.C.	13011-PH4-004	SWH30366
1955	2.0L	119	PRELUDE	1986 - 1987	4	BT	F.I.	S.O.H.C.	13011-PH4-004	SWH30366
1955	2.0L	119	PRELUDE	1986 - 1987	4	A20A3	F.I.	S.O.H.C.	13011-PH4-004	SWH30366
1955	2.0L	119	ACCORD	1986 ONLY	4	BS	CARB	S.O.H.C.	13011-PH4-004	SWH30366
1955	2.0L	119	ACCORD	1987 - 1989	4	A20A1	CARB	S.O.H.C.	13011-PH4-004	SWH30366
1958	2.0L	119	PRELUDE	1988 - 1991	4	B20A3	CARB	S.O.H.C.	13011-PK1-751	SWH30375
1958	2.0L	119	PRELUDE	1988 - 1991	4	B20A5	F.I.	D.O.H.C.	13011-PK1-751	SWH30375
1972	2.0L	120	CR-V	1997 - 1998	4	B20B4	F.I.	D.O.H.C.	13011-P3F-003	SWH30437
1972	2.0L	120	CR-V	1999 ONLY	4	B20Z2	F.I.	D.O.H.C.	13011-P3F-003	SWH30437
1972	2.0L	120	CR-V	2000 - 2002	4	B20Z2	F.I.	D.O.H.C.	13011-PHK-003	SWH30437
1997	2.0L	122	S2000	2000 - 2003	4	F20C1	F.I.	D.O.H.C.	13011-PCX-004	NA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HONDA									
13010-P2M-000	11-785	325	75.00	1.00	1.20		2.80		HX , w/ VTECH-E, 16 VALVE
13010-P30-G00	11-737	316	81.00	1.00	1.20		2.80		16 VALVE
13010-P30-G00	11-737	316	81.00	1.00	1.20		2.80		w/ VTECH, 16 VALVE
13010-P30-G00	11-737	316	81.00	1.00	1.20		2.80		w/ VTECH, 16 VALVE
13101-689-000	11-113	282	74.00	1.50	1.50		4.00		12 VALVE
13010-PLM-A00	11-797	327	75.00	1.00	1.20		2.00		DX, LX
13010-PLR-A00	11-798	327	75.00	1.00	1.20		2.00		HX, w/ VTECH-E
13010-PLR-A00	11-798	327	75.00	1.00	1.20		2.00		EX , w/ VTECH,
061A3-PC2-010	DISC. 11-116		77.00	1.50	1.50		4.00		12 VALVE
13101-689-010	DISC. 11-116		77.00	1.50	1.50		4.00		12 VALVE
13101-689-010	DISC. 11-116		77.00	1.50	1.50		4.00		12 VALVE
13010-RNA-A00	11-891	347	81.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-R1A-A00	NA		81.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-R1A-A00	NA		81.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13101-PC7-661	11-122	282	80.00	1.50	1.50		4.00		12 VALVE
13101-PC7-661	11-122	282	80.00	1.50	1.50		4.00		12 VALVE
13101-PC6-020	DISC. 11-120		80.00	1.50	1.50		4.00		12 VALVE
13101-PD2-030	DISC. 11-121		80.00	1.50	1.50		4.00		16 VALVE
13102-PD6-010	DISC. 11-121		80.00	1.50	1.50		4.00		16 VALVE
13102-PJ0-010	11-519	288	82.70	1.50	1.50		4.00		12 VALVE
13102-PJ0-307, 8	11-519	288	82.70	1.50	1.50		4.00		12 VALVE
13102-PJ0-307	11-519	288	82.70	1.50	1.50		4.00		12 VALVE
13102-PJ0-307	11-519	288	82.70	1.50	1.50		4.00		12 VALVE
13102-PH4-010	11-520	289	82.70	1.50	1.50		4.00		12 VALVE
13102-PH4-010	11-520	289	82.70	1.50	1.50		4.00		12 VALVE
13101-PK1-010	11-524	289	81.00	1.20	1.50		2.80		12 VALVE
13101-PK2-660	11-525	289	81.00	1.20	1.50		2.80		16 VALVE
13010-P3F-000	11-738	317	84.00	1.20	1.20		2.80		16 VALVE
13010-PHK-000	11-799	327	84.00	1.20	1.20		2.80		16 VALVE
13010-PHK-000	11-799	327	84.00	1.20	1.20		2.80		16 VALVE
13010-PCX-A03	NA		87.00	1.20	1.20		2.00		w/ VTECH, 16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
HONDA										
1998	2.0L	122	CIVIC Si	2002 - 2005	4	K20A1, 3	F.I.	D.O.H.C.	13011-PNE-G02	SWH30454
1998	2.0L	122	CIVIC Si	2006 - 2011	4	K20Z3	F.I.	D.O.H.C.	13011-PRA-E02	SWH30454
2056	2.1L	125	PRELUDE	1990 - 1991	4	B21A1	F.I.	D.O.H.C.	13011-PK3-A04	SWH30448
2156	2.2L	132	ACCORD	1990 - 1991	4	F22A4	F.I.	S.O.H.C.	13011-P0A-A04	SWH30383
2156	2.2L	132	ACCORD	1990 - 1993	4	F22A1	F.I.	S.O.H.C.	13011-P0A-A04	SWH30383
2156	2.2L	132	ACCORD	1990 - 1993	4	F22A6	F.I.	S.O.H.C.	13011-P0A-A04	SWH30383
2156	2.2L	132	ACCORD	1994 - 1997	4	F22B1	F.I.	S.O.H.C.	13011-P0A-004	SWH30383
2156	2.2L	132	ACCORD	1994 - 1997	4	F22B2	F.I.	S.O.H.C.	13011-P0A-004	SWH30383
2156	2.2L	132	ODYSSEY	1994 - 1997	4	F22B6	F.I.	S.O.H.C.	13011-P0A-004	SWH30383
2156	2.2L	132	PRELUDE	1992 - 1996	4	F22A1	F.I.	S.O.H.C.	13011-P0A-004	SWH30383
2157	2.2L	132	PRELUDE	1992 - 1998	4	H22A1	F.I.	D.O.H.C.	13011-P13-004	SWH30433
2157	2.2L	132	PRELUDE	1997 - 2002	4	H22A4	F.I.	D.O.H.C.	13011-P5M-003	SWH30433*
2157	2.2L	132	S2000	2004 - 2006	4	F22C1	F.I.	D.O.H.C.	13011-PCX-014	NA
2157	2.2L	132	S2000	2007 - 2009	4	F22C1	F.I.	D.O.H.C.	13011-PCX-024	NA
2253	2.3L	137	ODYSSEY	1998 ONLY	4	F23A7	F.I.	S.O.H.C.	13011-PEA-004	SWH30443
2254	2.3L	138	ACCORD	1998 - 2002	4	F23A1	F.I.	S.O.H.C.	13011-P8A-A01	SWH30443
2254	2.3L	138	ACCORD	1998 - 2002	4	F23A4	F.I.	S.O.H.C.	13011-P8A-A01	SWH30443
2254	2.3L	138	ACCORD	1998 - 2002	4	F23A5	F.I.	S.O.H.C.	13011-P8A-A01	SWH30443
2259	2.3L	138	PRELUDE	1992 - 1996	4	H23A1	F.I.	D.O.H.C.	13011-P13-004	SWH30433
2354	2.4L	144	CR-V	2003 - 2006	4	K24A3	F.I.	D.O.H.C.	13011-RAA-A00	SWH30466
2354	2.4L	144	ACCORD	2003 - 2007	4	K24A2, 3, 4	F.I.	D.O.H.C.	13011-RAA-A01	SWH30466
2354	2.4L	144	ELEMENT	2003 - 2006	4	K24A3	F.I.	D.O.H.C.	13010-RAA-A00	SWH30466
2354	2.4L	144	ELEMENT	2007 - 2010	4	K24A8	F.I.	D.O.H.C.	13011-PZD-004	SWH30466
2354	2.4L	144	ACCORD	2013 - 2015	4	K24W1,2,3	F.I.	D.O.H.C.	13011-5A2-A11	NA
2354	2.4L	144	ACCORD CROSSTOUR	2013 - 2015	4	K24W1,2,3	F.I.	D.O.H.C.	13011-5A2-A11	NA
2354	2.4L	144	CIVIC Si	2012 - 2015	4	K24Z7	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	CR-V	2012 - 2015	4	K24Z6	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
HONDA - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S T	N D	R D	1	2	
13010-PNC-000	11-866	341	86.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-PRB-A01	11-882	345	86.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13101-PK3-A01	11-726	314	83.00	1.20	1.20		2.80		16 VALVE
13101-PT3-A01	11-678	306	85.00	1.20	1.20		2.80		EX , 16 VALVE
13101-PT3-A01	11-678	306	85.00	1.20	1.20		2.80		DX, LX, 16 VALVE
13101-PT6-A00	11-678	306	85.00	1.20	1.20		2.80		EX, SE, 16 VALVE
13010-P0A-010	11-751	319	85.00	1.20	1.20		2.80		EX, w/ VTECH, 16 VALVE
13010-P0A-010	11-751	319	85.00	1.20	1.20		2.80		DX, LX, 16 VALVE
13010-P0A-010	11-751	319	85.00	1.20	1.20		2.80		16 VALVE
13010-P12-000	NA		85.00	1.20	1.20		2.80		S MODELS, 16 VALVE
13010-P13-A00	11-739	317	87.00	1.20	1.20		2.80		w/ VTECH, 16 VALVE
13010-P5M-A00	11-741	317	87.00	1.20	1.20		2.80		S, SH, w/ VTECH, 16 VALVE
13010-PCX-A03	NA		87.00	1.20	1.20		2.00		w/ VTECH, 16 VALVE
13010-PZX-A00	NA		87.00	1.20	1.20		2.00		w/ VTECH, 16 VALVE
13010-PEA-000	NA		86.00	1.20	1.20		2.80		16 VALVE
13010-PAA-A00	11-781	325	86.00	1.20	1.20		2.80		LX, w/ VTECH, 16 VALVE
13010-PAA-A00	11-781	325	86.00	1.20	1.20		2.80		EX, w/ VTECH, 16 VALVE
13010-PAB-A00	DISC. 11-784		86.00	1.20	1.20		2.80		DX , SEDAN, 16 VALVES
13010-P14-A00	11-740	317	87.00	1.20	1.20		2.80		Si MODELS, 16 VALVE
13010-PPA-000	11-833	334	87.00	1.20	1.20		2.00		LX, EX, 16 VALVE
13010-RAA-A00	11-834	334	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RAA-A00	11-834	334	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RAA-A01	11-834	334	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-5A2-A00	NA		87.00						w/ i-VTECH, 16 VALVE
13010-5A2-A00	NA		87.00						w/ i-VTECH, 16 VALVE
13010-RL5-A10	NA		87.00	1.20	1.20		2.00		16 VALVE
13010-RL5-A10	NA		87.00	1.20	1.20		2.00		LX, EX, 16 VALVE
HONDA - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
HONDA										
2354	2.4L	144	ACCORD	2008 - 2010	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R44-A01	SWH30488
2354	2.4L	144	ACCORD	2011 - 2012	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	ACCORD CROSSTOUR	2010 - 2012	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R40-A12	SWH30488
2354	2.4L	144	CR-V	2007 - 2011	4	K24Z1	F.I.	D.O.H.C.	13011-R44-A01	SWH30488
2559	2.6L	156	PASSPORT	1994 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-97037-801-1	SWI10162
2675	2.7L	163	ACCORD	1995 - 1997	V6	C27A4	F.I.	S.O.H.C.	13011-P0G-A02	SWH30370
2997	3.0L	183	ACCORD	1998 - 2002	V6	J30A1	F.I.	S.O.H.C.	13011-P8A-A01	SWH30432
2997	3.0L	183	ACCORD	2003 - 2007	V6	J30A4, 5	F.I.	S.O.H.C.	13011-RCA-A01	SWH30432
2997	3.0L	183	ACCORD HYBRID	2005 - 2007	V6	JNA1	F.I.	S.O.H.C.	13011-RCA-A01	SWH30432
3165	3.2L	193	PASSPORT	1994 - 2002	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3471	3.5L	212	ODYSSEY	1999 - 2002	V6	J35A1	F.I.	S.O.H.C.	13011-P8F-A01	SWH30438
3471	3.5L	212	ODYSSEY	2003 - 2004	V6	J35A4	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	ODYSSEY	2005 - 2010	V6	J35A6	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	ODYSSEY	2005 - 2007	V6	J35A7	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	PILOT	2002 - 2005	V6	J35A1	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	PILOT	2005 - 2008	V6	J35A6, 9	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	PILOT	2006 - 2008	V6	J35Z1	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	RIDGELINE	2006 - 2008	V6	J35A9	F.I.	S.O.H.C.	13011-PGE-A01	SWH30438
3471	3.5L	212	ACCORD	2008 - 2012	V6	J35Z2, 3	F.I.	S.O.H.C.	13011-R70-A02	SWH30438
3471	3.5L	212	ACCORD CROSSTOUR	2010 - 2012	V6	J35Z2, 3	F.I.	S.O.H.C.	13011-R70-A02	SWH30438
3471	3.5L	212	PILOT	2009 - 2011	V6	J35Z4	F.I.	S.O.H.C.	13011-R70-A02	SWH30438
3471	3.5L	212	RIDGELINE	2009 - 2011	V6	J35Z5	F.I.	S.O.H.C.	13011-R70-A02	SWH30438
3471	3.5L	212	ACCORD	2013 - 2015	V6	J35Y1	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	ACCORD CROSSTOUR	2013 - 2015	V6	J35Y1	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	ODYSSEY	2011 - 2015	V6	J35A7	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	PILOT	2012 - 2015	V6	J35Z4	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	ACCORD	2013 - 2015	V6	J35Y2	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	ACCORD CROSSTOUR	2013 - 2015	V6	J35Y2	F.I.	S.O.H.C.	13011-5G0-A01	NA
3471	3.5L	212	RIDGELINE	2012 - 2015	V6	J35Z5	F.I.	S.O.H.C.	13011-5G0-A01	NA
HONDA - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HONDA									
13010-R40-A00	11-905	350	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-R40-A00	11-905	350	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-R40-A00	11-905	350	87.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-R40-A00	11-905	350	87.00	1.20	1.20		2.00		LX, EX, 16 VALVE
8-97037-801-1	11-559	293	92.60	1.50	1.50		4.00		8 VALVE
13010-P0G-A00	DISC. 11-783		87.00	1.20	1.20		4.00		EX, LX, 24 VALVE
13010-P8A-A00	11-791	326	86.00	1.20	1.20		2.80		EX, LX, w/ VTECH, 24 VALVE
13010-RCA-A00	11-832	333	86.00	1.20	1.20		2.80		EX, LX, w/ i-VTECH, 24 VALVE
13010-RCA-A00	11-832	333	86.00	1.20	1.20		2.80		w/ i-VTECH, 24 VALVE
8-94374-965-1	11-686	307	93.40	1.50	1.50		4.00		24 VALVE
13010-P8F-A00	11-835	334	89.00	1.20	1.20		2.80		LX, EX, EX-L, 24 VALVE
13010-PGK-A01	11-836	334	89.00	1.20	1.20		2.80		LX, EX, EX-L, 24 VALVE
13010-RGL-A00	11-836	334	89.00	1.20	1.20		2.80		LX, EX, EX-L, 24 VALVE
13010-RGM-A00	11-836	334	89.00	1.20	1.20		2.80		LX, EX, EX-L, 24 VALVE
13010-PGK-A01	11-836	334	89.00	1.20	1.20		2.80		2WD, w/ VTECH, 24 VALVE
13010-RGL-A00	11-836	334	89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-RGM-A00	11-836	334	89.00	1.20	1.20		2.80		2WD, w/ VTECH, 24 VALVE
13010-RGL-A00	11-836	334	89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-R70-A00	11-906	351	89.00	1.20	1.20		2.80		EX, EX-L, w/I-VTECH, 24 VALVE
13010-R70-A00	11-906	351	89.00	1.20	1.20		2.80		EX, EX-L, w/I-VTECH, 24 VALVE
13010-R70-A00	11-906	351	89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-R72-A00	NA		89.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
13010-R70-A10	NA		89.00						EX, EX-L, w/I-VTECH, AUTO, 24 VALVE
13010-R70-A10	NA		89.00						EX, EX-L, w/I-VTECH, AUTO, 24 VALVE
13010-R70-A10	NA		89.00						LX, EX, EX-L, 24 VALVE
13010-R70-A10	NA		89.00						w/ VTECH, 24 VALVE
13010-R72-A10	NA		89.00						EX, EX-L, w/I-VTECH, STD, 24 VALVE
13010-R72-A10	NA		89.00						EX, EX-L, w/I-VTECH, STD, 24 VALVE
13010-R72-A10	NA		89.00						w/ VTECH, 24 VALVE
HONDA - END									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1468	1.5L	90	EXCEL	1986 - 1989	4	G4DJ	CARB	S.O.H.C.	23040-21210	SWG30023
1468	1.5L	90	EXCEL	1990 - 1995	4	G4DJ	F.I.	S.O.H.C.	23040-24200	SWG30023
1468	1.5L	90	SCOUPE	1990 - 1993	4	ALPHA G4DJ	F.I.	S.O.H.C.	23040-24200	SWG30023
1468	1.5L	90	SCOUPE	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	SWG30017
1468	1.5L	90	ACCENT	1995 - 1999	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	SWG30017
1468	1.5L	90	SCOUPE	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	SWG30017
1468	1.5L	90	ACCENT	1996 - 1997	4	ALPHA G4EK	F.I.	D.O.H.C.	23040-26001	SWG30019
1468	1.5L	90	SCOUPE	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	SWG30017
1468	1.5L	90	SCOUPE	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	SWG30017
1468	1.5L	90	ACCENT	2000 - 2003	4	ALPHA G4EB	F.I.	S.O.H.C.	23040-22601	SWG30017
1591	1.6L	97	ACCENT	2011 - 2015	4	GAMMA II 1.6L	F.I.	D.O.H.C.	23040-2B600	SWG30046
1591	1.6L	97	VELOSTER	2012 - 2015	4	GAMMA II 1.6L	F.I.	D.O.H.C.	23040-2B600	SWG30046
1595	1.6L	97	ELANTRA	1992 - 1995	4	SIRIUS G4CR	F.I.	D.O.H.C.	23040-33030	SWM31049
1599	1.6L	98	ACCENT	2001 - 2005	4	ALPHA G4ED	F.I.	D.O.H.C.	23040-26101	SWG30030
1599	1.6L	98	ACCENT	2006 - 2010	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26160	SWG30034
1796	1.8L	110	TIBURON	1996 - 1998	4	G4GB	F.I.	D.O.H.C.	23040-23000	SWG30028
1797	1.8L	110	ELANTRA	2011 - 2015	4	Nu 1.8L	F.I.	D.O.H.C.	23040-2E000	NA
1836	1.8L	112	ELANTRA	1993 - 1998	4	G4JN	F.I.	D.O.H.C.	23040-33430	SWM31058
1975	2.0L	121	ELANTRA	2001 - 2005	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	SWG30028
1975	2.0L	121	TIBURON	2002 - 2008	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	SWG30028
1975	2.0L	121	ELANTRA	1999 - 2000	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	SWG30028
1975	2.0L	121	TIBURON	1996 - 2001	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	SWG30028
1975	2.0L	121	TUCSON	2004 - 2007	4	BETA II G4GF	F.I.	D.O.H.C.	23040-23300	TBA
1975	2.0L	121	ELANTRA	2006 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	TBA
1975	2.0L	121	ELANTRA TOURING	2009 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	TBA
1975	2.0L	121	TUCSON	2008 - 2009	4	BETA II G4GF	F.I.	D.O.H.C.	23040-23400	TBA
1998	2.0L	122	GENESIS COUPE	2010 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	SANTA FE	2013 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	SONATA	2011 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	TUCSON	2011 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	SWG30042

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HYUNDAI									
23410-21114	11-529	290	75.50	1.50	1.50		4.00		12 VALVE
23410-24110	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
23410-24110	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
23410-22010	NA		75.50	1.50	1.50		3.00		12 VALVE
23410-22410	11-691	308	75.50	1.50	1.50		3.00		12 VALVE
23410-22410	11-691	308	75.50	1.50	1.50		3.00		12 VALVE
23410-26012	11-730	315	75.50	1.20	1.50		3.00		16 VALVE
23410-22110	11-742	318	75.50	1.50	1.50		3.00		w/TURBO, 12 VALVE
23410-22160	11-742	318	75.50	1.50	1.50		3.00		w/TURBO, 12 VALVE
23410-22612	11-837	335	75.50	1.50	1.50		3.00		12 VALVE
23041-2B600	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B600	NA		77.00	1.20	1.20		2.00		16 VALVE
23410-33010	11-729	314	82.30	1.20	1.50		3.00		mitsubishi Engine, 16 VALVE
23410-26121	DISC. 11-819		76.50	1.20	1.20		2.50		16 VALVE
23410-26501	NA		76.50	1.20	1.20		2.00		16 VALVE
23410-23010	11-693	309	82.00	1.20	1.20		2.50		16 VALVE
23041-2E100	NA		81.00						16 VALVE
23410-33410	11-690	308	81.50	1.20	1.50		3.00		16 VALVE
23410-23711	11-838	335	82.00	1.20	1.20		2.50		16 VALVE
23410-23711	11-838	335	82.00	1.20	1.20		2.50		FX MODELS, 16 VALVE
23410-23210	NA		82.00	1.20	1.20		2.50		16 VALVE
23410-23210	NA		82.00	1.20	1.20		2.50		16 VALVE
23410-23300	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1999	2.0L	122	TUCSON	2013 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	NA
2350	2.4L	143	SONATA	1989 - 1991	4	G4JS	F.I.	S.O.H.C.	23040-32610	SWG30024
2350	2.4L	143	SONATA	1992 - 1998	4	G4CP	F.I.	D.O.H.C.	23040-33150	SWG30027
2350	2.4L	143	SANTA FE	2001 - 2004	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	SWG30047
2350	2.4L	143	SONATA	1999 - 2005	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	SWG30047
2350	2.4L	143	SONATA	2006 - 2010	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38212	SWG30047
2359	2.4L	144	SONATA	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	SONATA HYBRID	2011 - 2015	4	THETA II G4KH	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	TUCSON	2010 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	ELANTRA TOURING	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	SANTA FE	2010 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2493	2.5L	152	SONATA	1999 - 2002	V6	DELTA G6BV	F.I.	D.O.H.C.	23040-37200	NA
2656	2.7L	162	TUCSON	2004 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	SANTA FE	2001 - 2005	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	SONATA	2003 - 2005	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	TIBURON	2003 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	SANTA FE	2006 - 2009	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	SWG30045
2656	2.7L	162	TIBURON	2007 - 2008	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	SWG30045
2656	2.7L	162	TUCSON	2007 - 2010	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	SWG30045
2792	2.8L	170	SONATA	1990 - 1995	V6	G6AT	F.I.	S.O.H.C.	23040-35010	SWM31080
2792	2.8L	170	SONATA	1990 - 1995	V6	G6AT	F.I.	S.O.H.C.	23040-35010	SWM31080
2792	2.8L	170	SONATA	1996 - 1998	V6	G6AT	F.I.	S.O.H.C.	23040-35500	SWM31080
2792	2.8L	170	SONATA	1996 - 1998	V6	G6AT	F.I.	S.O.H.C.	23040-35500	SWM31080
2972	3.0L	181	XG300	2001 - 2002	V6	G6CT	F.I.	D.O.H.C.	23040-35520	NA
3342	3.3L	204	AZERA	2007 - 2011	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	TBA
3342	3.3L	204	SANTA FE	2007 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	TBA
3342	3.3L	204	SONATA	2006 - 2010	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	TBA
3342	3.3L	204	AZERA	2012 - 2015	V6	LAMBDA II G6DG	F.I.	D.O.H.C.	23040-3C100	NA
3342	3.3L	204	SANTA FE	2013 - 2015	V6	LAMBDA II G6DH	F.I.	D.O.H.C.	23040-3C100	NA
3467	3.5L	212	XG350	2002 - 2006	V6	SIGMA G6CU	F.I.	D.O.H.C.	23040-39800	SWM31121
3467	3.5L	212	SANTA FE	2003 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWM31121
3470	3.5L	212	SANTA FE	2010 - 2012	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	NA

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
-	NA		81.00						16 VALVE
23410-32610	11-538	291	86.50	1.50	1.50		4.00		MITSUBISHI Engine, 12 VALVE
23410-33110	11-692	308	85.00	1.20	1.50		3.00		MITSUBISHI Engine, 16 VALVE
23411-38200	11-772	323	86.50	1.20	1.50		2.80		MITSUBISHI Engine, 16 VALVE
23411-38200	11-772	323	86.50	1.20	1.50		2.80		MITSUBISHI Engine, 16 VALVE
23410-2G201	NA		86.50	1.20	1.50		2.80		MITSUBISHI Engine, 16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-2G200	NA		88.00	1.20	1.20		2.00		16 VALVE
23410-2G200	NA		88.00	1.20	1.20		2.00		16 VALVE
23410-37210	11-771	322	84.00	1.20	1.20		2.50		24 VALVE
23410-37307	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-37310	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-37310	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-37310	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-35114	11-549	292	91.10	1.50	1.50		4.00		MITSUBISHI Engine, RIGHT, 12 VALVE
23410-35144	11-549	292	91.10	1.50	1.50		4.00		MITSUBISHI Engine, LEFT, 12 VALVE
23410-35214	11-549	292	91.10	1.50	1.50		4.00		MITSUBISHI Engine, RIGHT, 12 VALVE
23410-35244	11-549	292	91.10	1.50	1.50		4.00		MITSUBISHI Engine, LEFT, 12 VALVE
23411-39010	NA		91.10						24 VALVE
23041-3C151	NA		92.00	1.20	1.20		2.00		GLS, 24 VALVE
23041-3C151	NA		92.00	1.20	1.20		2.00		24 VALVE
23041-3C151	NA		92.00	1.20	1.20		2.00		24 VALVE
23041-3C611	NA		92.00						GLS, 24 VALVE
23041-3C611	NA		92.00						24 VALVE
23411-39510	NA*		93.00	1.50	1.50		3.00		24 VALVE
23400-39810	NA		93.00	1.50	1.50		3.00		24 VALVE
23041-3CAA1	NA		92.00						24 VALVE

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
INFINITI										
1998	2.0L	122	G20	1990 - 1996	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	SWN30102
1998	2.0L	122	G20	1999 ONLY	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	SWN30102
1998	2.0L	122	G20	2000 - 2001	4	SR20DE	F.I.	D.O.H.C.	12033-4M802	SWN30123
1998	2.0L	122	G20	2002 ONLY	4	SR20DE	F.I.	D.O.H.C.	12033-2J210	SWN30123
2488	2.5L	152	QX60 HYBRID	2014 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-JG30A	SWN30189
2496	2.5L	152	ETHEREA	2015 - 2016	V6	VQ25VHR	F.I.	D.O.H.C.	12033-EG201	NA
2496	2.5L	152	G25	2011 - 2012	V6	VQ25VHR	F.I.	D.O.H.C.	12033-EG201	NA
2960	3.0L	181	M30	1990 - 1992	V6	VG30E	F.I.	S.O.H.C.	12033-21V01	SWN30058
2960	3.0L	181	J30	1993 - 1997	V6	VG30DE	F.I.	D.O.H.C.	12033-F6511	SWN30094
2987	3.0L	182	I30	1996 - 1999	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y903	SWN30115
2987	3.0L	182	I30	2000 ONLY	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y900	SWN30115
2987	3.0L	182	I30	2001 ONLY	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y900	SWN30115
3272	3.3L	200	QX4	1996 - 2000	V6	VG33E	F.I.	S.O.H.C.	12033-0W000	SWN30120
3498	3.5L	213	FX35	2003 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	SWN30131
3498	3.5L	213	G35	2002 - 2007	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	SWN30131
3498	3.5L	213	QX4	2001 - 2003	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	SWN30131
3498	3.5L	213	I35	2002 - 2004	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	M35	2005 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	EX35	2009 - 2013	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3498	3.5L	213	FX35	2009 - 2011	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3498	3.5L	213	M35	2009 - 2010	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20B	SWN30162
3498	3.5L	213	M35 HYBRID	2012 - 2013	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3498	3.5L	213	G35	2007 - 2008	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20B	SWN30162
3498	3.5L	213	JX35	2012 - 2013	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	SWN30191
3498	3.5L	213	QX60	2014 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP10D	SWN30191
3498	3.5L	213	Q50 HYBRID	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	-	NA
3498	3.5L	213	Q70 HYBRID	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	-	NA
3498	3.5L	213	QX70 HYBRID	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	-	NA
3696	3.7L	226	EX37	2008 - 2011	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
INFINITI - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
				T	D	D			
A2010-63J00	11-602	297	86.00	1.50	1.50		3.00		16 VALVE
A3020-63J00	11-602	297	86.00	1.50	1.50		3.00		16 VALVE
A2010-4M862	NA		86.00	1.20	1.20		2.50		16 VALVE
A2010-4M862	NA		86.00	1.20	1.20		2.50		16 VALVE
A2010-JG31B	NA		89.00	1.20	1.20		2.00		16 VALVE
A2010-JK00A	NA		85.00	1.20	1.20		2.00		24 VALVE
A2010-JK00A	NA		85.00	1.20	1.20		2.00		24 VALVE
12010-21P61	11-603	297	87.00	1.50	1.50		2.80		12 VALVE
A2010-30P00	11-727	314	87.00	1.50	1.50		2.80		24 VALVE
A2010-39U00	11-711	311	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y900	11-711	311	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y910	11-711	311	93.00	1.20	1.20		2.50		24 VALVE
A2010-1W200	11-728	314	91.50	1.50	1.50		2.80		12 VALVE
A2010-4W100	11-859	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-4W100	11-859	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-4W100	11-859	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-JK20B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK29B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JA10A	TBA 1		95.50	1.20	1.20		2.00		24 VALVE
12010-JA10C	NA		95.50	1.20	1.20		2.00		24 VALVE
-	NA		95.50						24 VALVE
-	NA		95.50						24 VALVE
-	NA		95.50						24 VALVE
A2010-JK20A	NA		95.50	1.20	1.20		2.00		24 VALVE

INFINITI

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
INFINITI										
3696	3.7L	226	G37	2008 - 2009	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3696	3.7L	226	G37	2008 - 2009	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3696	3.7L	226	G37	2010 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3696	3.7L	226	G37	2010 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3696	3.7L	226	M37	2011 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3696	3.7L	226	M37	2011 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3696	3.7L	226	M37	2012 - 2013	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3696	3.7L	226	M37	2012 - 2013	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3696	3.7L	226	G37	2013 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	G37	2013 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q50	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q50	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q60	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q60	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q70	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	Q70	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	QX50	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	QX50	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	QX70	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
3696	3.7L	226	QX70	2014 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12035-1EA0B	SWN30191
4494	4.5L	274	Q45	1990 - 1996	V8	VH45DE	F.I.	D.O.H.C.	12033-60U02	SWN30117
4494	4.5L	274	Q45	1997 - 2001	V8	VH45DE	F.I.	D.O.H.C.	12033-60U10	SWN30117
4494	4.5L	274	FX45	2003 - 2008	V8	VK45DE	F.I.	D.O.H.C.	12033-AR210	NA
4494	4.5L	274	M45	2003 - 2006	V8	VK45DE	F.I.	D.O.H.C.	12033-AR210	NA
4494	4.5L	274	Q45	2003 - 2006	V8	VK45DE	F.I.	D.O.H.C.	12033-AR210	NA
4494	4.5L	274	M45	2007 - 2010	V8	VK45DE	F.I.	D.O.H.C.	12033-AR211	NA
5026	5.0L	307	FX50	2009 - 2013	V8	VK50VE	F.I.	D.O.H.C.	12033-1CA0A	SWN30184
5026	5.0L	307	FX50	2009 - 2013	V8	VK50VE	F.I.	D.O.H.C.	12033-1CA0A	SWN30184
5026	5.0L	307	QX70	2014 - 2015	V8	VK50VE	F.I.	D.O.H.C.	12033-1CA0A	SWN30184
5026	5.0L	307	QX70	2014 - 2015	V8	VK50VE	F.I.	D.O.H.C.	12033-1CA0A	SWN30184
5552	5.6L	339	QX56	2004 - 2009	V8	VK56DE	F.I.	D.O.H.C.	12033-7S01B	SWN30149
5552	5.6L	339	M56	2011 - 2013	V8	VK56DE	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	M56	2011 - 2013	V8	VK56DE	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	Q70	2014 - 2015	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	Q70	2014 - 2015	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	QX56	2010 - 2013	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	QX56	2010 - 2013	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	QX80	2014 - 2015	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
5552	5.6L	339	QX80	2014 - 2015	V8	VK56VD	F.I.	D.O.H.C.	12033-1MC0B	SWN30177
INFINITI - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-EY00A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-60U00	NA		93.00	1.50	1.50		2.80		32 VALVE
A2010-6P000	NA		93.00	1.50	1.50		2.80		32 VALVE
A2010-AR210	NA		93.00	1.20	1.20		2.50		32 VALVE
A2010-AR210	NA		93.00	1.20	1.20		2.50		32 VALVE
A2010-AR210	NA		93.00	1.20	1.20		2.50		32 VALVE
A2010-AR260	NA		93.00	1.20	1.20		2.50		32 VALVE
A2010-1CA0A	NA		95.50	1.20	1.20		2.00		RIGHT, 32 VALVE
A2010-1CA0A	NA		95.50	1.20	1.20		2.00		LEFT, 32 VALVE
A2010-1CA0A	NA		95.50	1.20	1.20		2.00		RIGHT, 32 VALVE
A2010-1CA0A	NA		95.50	1.20	1.20		2.00		LEFT, 32 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-1MC0C	NA		98.00	1.20	1.20		2.50		RIGHT, 32 VALVE
A2010-1MC0D	NA		98.00	1.20	1.20		2.50		LEFT, 32 VALVE
A2010-1MC0C	NA		98.00	1.20	1.20		2.50		RIGHT, 32 VALVE
A2010-1MC0D	NA		98.00	1.20	1.20		2.50		LEFT, 32 VALVE
A2010-1LA0C	NA		98.00	1.20	1.20		2.50		RIGHT, 32 VALVE
A2010-1LA0D	NA		98.00	1.20	1.20		2.50		LEFT, 32 VALVE
A2010-1LA0C	NA		98.00	1.20	1.20		2.50		RIGHT, 32 VALVE
A2010-1LA0D	NA		98.00	1.20	1.20		2.50		LEFT, 32 VALVE

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U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
ISUZU										
1471	1.5L	90	I-MARK	1983 - 1986	4	4XC1	CARB	S.O.H.C.	8-94141-947-0	SWI10151
1471	1.5L	90	I-MARK	1987 - 1989	4	4XC1	CARB	S.O.H.C.	8-94141-947-0	SWI10151
1471	1.5L	90	I-MARK	1987 - 1989	4	4XC1T	F.I.	S.O.H.C.	8-94109-650-0	SWI10153
1588	1.6L	97	STYLUS	1990 - 1992	4	4XE1V	F.I.	S.O.H.C.	8-94370-434-0	SWI10149
1588	1.6L	97	STYLUS	1993 ONLY	4	4XE1V	F.I.	S.O.H.C.	8-94331-660-0	SWI10149
1588	1.6L	97	I-MARK	1989 ONLY	4	4XE1W	F.I.	D.O.H.C.	8-94342-124-0	SWI10149
1588	1.6L	97	IMPULSE	1990 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	SWI10149
1588	1.6L	97	STYLUS	1990 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	SWI10149
1588	1.6L	97	IMPULSE	1991 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	SWI10149
1809	1.8L	110	IMPULSE	1991 - 1992	4	4XF1	F.I.	D.O.H.C.	8-97402-171-0	SWI10149
1809	1.8L	110	STYLUS	1990 - 1992	4	4XF1	F.I.	D.O.H.C.	8-97042-171-0	SWI10149
1817	1.8L	111	I-MARK	1981 ONLY	4	G180Z	CARB	S.O.H.C.	8-94216-640-0	SWI10056
1817	1.8L	111	PICKUP	1981 ONLY	4	G180Z	CARB	S.O.H.C.	8-94216-640-0	SWI10056
1817	1.8L	111	I-MARK	1982 - 1986	4	G180Z	CARB	S.O.H.C.	8-94244-404-0	SWI10098
1817	1.8L	111	PICKUP	1982 ONLY	4	G180Z	CARB	S.O.H.C.	8-94244-404-0	SWI10098
1817	1.8L	111	I-MARK	1981 - 1985	4	4FB1	DIESEL		8-94224-221-0	SDI10086
1949	1.9L	119	PICKUP	1983 - 1987	4	G200Z	C & F	S.O.H.C.	8-94438-086-0	SWI10096
1949	1.9L	119	TROOPER II	1983 - 1987	4	G200Z	CARB	S.O.H.C.	8-94438-086-0	SWI10096
1949	1.9L	119	IMPULSE	1983 - 1988	4	G200Z	CARB	S.O.H.C.	8-94438-086-0	SWI10096
1994	2.0L	122	IMPULSE	1985 - 1990	4	4ZC1	F.I.	S.O.H.C.	8-94235-878-0	SWI10133
2156	2.2L	132	OASIS	1996 - 1997	4	RJ1,F22B6	F.I.	S.O.H.C.	5-86202-103-0	SWH30383
2197	2.2L	134	HOMBRE	1996 - 2000	4	GM122 2.2L	F.I.	S.O.H.C.	8-12363-179-0	SWI10195
2198	2.2L	134	AMIGO	1998 - 1999	4	X22SE	F.I.	D.O.H.C.	8-92062-027-0	SWI10205
2198	2.2L	134	RODEO	1998 - 2000	4	X22SE	F.I.	D.O.H.C.	8-92062-027-0	SWI10205
2198	2.2L	134	RODEO	2001 - 2003	4	X22SE	F.I.	D.O.H.C.	8-92065-115-0	SWI10206
2198	2.2L	134	RODEO SPORT	2001 - 2004	4	X22SE	F.I.	D.O.H.C.	8-92065-115-0	SWI10206
2238	2.2L	137	PICKUP	1981 - 1982	4	C223	DIESEL		8-94100-355-0	SJI10089
2238	2.2L	137	PICKUP	1983 - 1987	4	C223	DIESEL		8-94250-730-0	SDI10101
2238	2.2L	137	TROOPER II	1986 - 1987	4	C223	DIESEL		8-94250-730-0	SDI10101
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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
8-94141-426-0	DISC. 11-564		77.00	1.50	-		2.80		F.W.D., 8 VALVE
8-94460-838-2	DISC. 11-564		77.00	1.50	-		2.80		F.W.D., 8 VALVE
8-94109-616-4	NA		77.00	1.20	1.20		2.80		F.W.D., w/ TURBO, 8 VALVE
8-97066-885-0	DISC. 11-556		80.00	1.20	1.20		3.00		12 VALVE
8-97066-885-0	DISC. 11-556		80.00	1.20	1.20		3.00		12 VALVE
8-97066-886-0	DISC. 11-557		80.00	1.20	1.20		3.00		16 VALVE
8-97066-886-0	DISC. 11-557		80.00	1.20	1.20		3.00		16 VALVE
8-97066-886-0	DISC. 11-557		80.00	1.20	1.20		3.00		16 VALVE
8-97066-888-0	NA		80.00	1.20	1.20		3.00		w/ TURBO, 16 VALVE
8-97067-000-0	NA		80.00	1.20	1.20		3.00		16 VALVE
8-97067-000-0	NA		80.00	1.20	1.20		3.00		16 VALVE
8-94215-088-0	11-012	276	84.00	2.00	2.00		4.00		8 VALVE
8-94215-088-0	11-012	276	84.00	2.00	2.00		4.00		8 VALVE
8-94238-475-0	DISC. 11-013		84.00	1.50	1.50		4.00		R.W.D., 8 VALVE
8-94238-475-0	DISC. 11-013		84.00	1.50	1.50		4.00		8 VALVE
8-94228-886-2	DISC. 11-015		84.00	2.50	2.00		4.00		
8-94237-469-2	11-016	276	87.00	1.50	1.50		4.00		8 VALVE
8-94237-469-2	11-016	276	87.00	1.50	1.50		4.00		8 VALVE
8-94258-494-2	DISC. 11-695		87.00	1.50	1.50		4.00		8 VALVE
8-94143-151-3	11-558	293	88.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
5-86202-102-0	11-751	319	85.00	1.20	1.20		2.80		16 VALVE
8-24577-467-0	NA		89.00	1.50	1.50		3.00		GMC Engine, 8 VALVE
8-92062-910-0	11-747	318	86.00	1.50	1.50		3.00		16 VALVE
8-92062-910-0	11-747	318	86.00	1.50	1.50		3.00		16 VALVE
8-92064-692-0	11-840	335	86.00	1.20	1.50		2.50		16 VALVE
8-92064-692-0	11-840	335	86.00	1.20	1.50		2.50		16 VALVE
5-12111-212-0	DISC. 11-017		88.00	2.50	2.00		4.50		
8-94250-729-0	11-696	309	88.00	2.00	2.00		4.00		
8-94250-729-0	11-696	309	88.00	2.00	2.00		4.00		

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U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
2238	2.2L	137	PICKUP	1986 - 1987	4	C223T	DIESEL		8-94158-084-0	SJI10111
2238	2.2L	137	TROOPER II	1987 ONLY	4	C223T	DIESEL		8-94158-084-0	SJI10111
2253	2.3L	137	OASIS	1998 - 1999	4	F23A7	F.I.	S.O.H.C.	5-86205-887-0	SWH30443
2254	2.3L	138	AMIGO	1989 - 1993	4	4ZD1	CARB	S.O.H.C.	8-94153-966-2	SWI10123
2254	2.3L	138	PICKUP	1983 - 1995	4	4ZD1	C & F	S.O.H.C.	8-94153-966-2	SWI10123
2254	2.3L	138	TROOPER II	1984 - 1987	4	4ZD1	CARB	S.O.H.C.	8-94153-966-2	SWI10123
2254	2.3L	138	IMPULSE	1988 - 1990	4	4ZD1	F.I.	S.O.H.C.	8-94153-966-2	SWI10123
2559	2.6L	156	AMIGO	1989 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	PICKUP	1988 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	RODEO	1990 - 1992	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	TROOPER	1989 - 1992	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	TROOPER II	1988 ONLY	4	4ZE1	CARB	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	AMIGO	1993 - 1997	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	PICKUP	1993 - 1995	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10162
2559	2.6L	156	RODEO	1993 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10162
2827	2.8L	173	TROOPER	1989 - 1992	V6	LL2	F.I.	O.H.V.	8-14089-059-0	SWI10154
2921	2.9L	178	i-290	2006 - 2008	4	Vortec 2800 LLV	F.I.	D.O.H.C.	8-89060-378-0	NA
2999	3.0L	183	NPR ECO-MAX	2011 - 2015	4	4JJ1-TC	DIESEL	D.O.H.C.	8-98053-579-0	SDI10215
2999	3.0L	183	NPR ECO-MAX	2011 - 2015	4	4JJ1-TC	DIESEL	D.O.H.C.	8-97388-734-0	SDI10210
3137	3.1L	191	PICKUP	1991 - 1994	V6	CPC	F.I.	O.H.V.	8-10181-330-0	SWI10155
3137	3.1L	191	RODEO	1990 - 1992	V6	CPC	F.I.	O.H.V.	8-10181-330-0	SWI10155
3165	3.2L	193	RODEO	1993 - 1995	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3165	3.2L	193	TROOPER	1991 - 1995	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3165	3.2L	193	RODEO	1996 - 2005	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3165	3.2L	193	TROOPER	1996 - 1997	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	SWI10185
3165	3.2L	193	TROOPER	1991 - 1995	V6	6VD1	F.I.	D.O.H.C.	8-97162-198-0	SWI10185
3458	3.5L	211	i-350	2007 - 2008	5	Vortec 3500 L52	F.I.	O.H.V.	8-89060-378-0	NA
3494	3.5L	213	AMIGO	1998 - 2000	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3494	3.5L	213	RODEO	1998 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3494	3.5L	213	RODEO SPORT	2001 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3494	3.5L	213	AXIOM	2002 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3494	3.5L	213	TROOPER	1999 - 2002	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3494	3.5L	213	VehiCROSS	1999 - 2001	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
8-94177-183-1	NA		88.00	2.50	2.00		4.00		w/ TURBO
8-94177-183-1	NA		88.00	2.50	2.00		4.00		w/ TURBO
5-86205-884-0	NA		86.00	1.20	1.20		2.80		16 VALVE
8-94438-625-2	11-554	293	89.30	1.50	1.50		4.00		8 VALVE
8-94438-625-2	11-554	293	89.30	1.50	1.50		4.00		8 VALVE
8-94438-625-2	11-554	293	89.30	1.50	1.50		4.00		8 VALVE
8-94439-301-2	11-554	293	89.30	1.50	1.50		4.00		8 VALVE
8-94163-189-3	11-555	293	92.60	1.50	1.50		4.00		8 VALVE
8-94163-189-3	11-555	293	92.60	1.50	1.50		4.00		8 VALVE
8-94163-189-3	11-555	293	92.60	1.50	1.50		4.00		8 VALVE
8-94163-189-3	11-555	293	92.60	1.50	1.50		4.00		8 VALVE
8-94163-189-3	11-555	293	92.60	1.50	1.50		4.00		8 VALVE
8-97037-801-1	11-559	293	92.60	1.50	1.50		4.00		8 VALVE
8-97037-801-1	11-559	293	92.60	1.50	1.50		4.00		8 VALVE
8-97037-801-1	11-559	293	92.60	1.50	1.50		4.00		8 VALVE
8-14092-910-0	NA		89.00	1.50	2.00		4.76		
8-12585-784-0	NA		95.50						GMC Engine, 16 VALVE
-	NA		95.40	2.00	2.00		3.00		w/ TURBO
-	NA		95.40	2.00	1.50		3.00		w/ TURBO
8-10070-145-0	DISC. 11-569		89.00	1.50	1.50		4.00		
8-10070-145-0	DISC. 11-569		89.00	1.50	1.50		4.00		
8-94374-965-1	11-686	307	93.40	1.50	1.50		4.00		24 VALVE
8-94374-965-1	11-686	307	93.40	1.50	1.50		4.00		24 VALVE
8-97104-386-0	11-685	307	93.40	1.50	1.50		4.00		24 VALVE
8-97104-386-0	11-685	307	93.40	1.50	1.50		4.00		24 VALVE
8-97127-588-0	NA		93.40	1.50	1.50		4.00		24 VALVE
8-12585-784-0	NA		95.50						GMC Engine, 20 VALVE
8-97172-674-0	11-764	322	93.40	1.50	1.50		3.00		24 VALVE
8-97172-674-0	11-764	322	93.40	1.50	1.50		3.00		24 VALVE
8-97172-674-0	11-764	322	93.40	1.50	1.50		3.00		24 VALVE
8-97136-315-3	11-793	326	93.40	1.50	1.50		3.00		24 VALVE
8-97136-315-3	11-793	326	93.40	1.50	1.50		3.00		24 VALVE
8-97163-315-3	11-793	326	93.40	1.50	1.50		3.00		24 VALVE

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

ISUZU

3494	3.5L	213	TROOPER	1998 ONLY	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	SWI10191
3653	3.7L	223	i-370	2007 - 2008	5	Vortec 3700 LLR	F.I.	D.O.H.C.	8-89018-219-0	SWG10036
4293	4.3L	262	HOMBRE	1996 - 2000	V6	Vortec 4300 LF6	F.I.		8-12522-848-0	SWI10196
5193	5.2L	317	NPR - HD DSL	2004 - 2015	4	4HK1-TC	DIESEL	S.O.H.C	8-98017-166-0	SDI10207
5193	5.2L	317	NQR	2005 - 2015	4	4HK1-TC	DIESEL	S.O.H.C	8-98017-166-0	SDI10207
5193	5.2L	317	NRR	2005 - 2015	4	4HK1-TC	DIESEL	S.O.H.C	8-98017-166-0	SDI10207
5328	5.3L	325	ASCENDER	2003 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	8-12456-338-0	SWG10005
5328	5.3L	325	ASCENDER	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	8-12456-338-0	SWG10005
5328	5.3L	325	ASCENDER	2007 - 2008	V8	Vortec 5300 IV	F.I.	O.H.V.	8-12456-338-0	SWG10005
5957	6.0L	364	NPR - GAS	2012 - 2015	V8	Vortec 6000 L96	F.I.	O.H.V.	8-89017-484-0	SWG10031
ISUZU - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
JAGUAR										
2494	2.5L	152	X-TYPE	2002 - 2005	V6	AJ25	F.I.	D.O.H.C.	XR8028057	NA
2967	3.0L	181	S-TYPE	2007 - 2008	V6	DURATEC 30	F.I.	D.O.H.C.	C2C005449	SWF30021
2967	3.0L	181	X-TYPE	2002 - 2008	V6	DURATEC 30	F.I.	D.O.H.C.	C2C005449	SWF30021
JAGUAR - END										

U.S. APPLICATIONS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
KIA										
1493	1.5L	91	RIO	2001 - 2002	4	DC	F.I.	D.O.H.C.	K3Y2-11-SCO	SWK30019
1493	1.5L	91	RIO CINCO	2001 - 2002	4	DC	F.I.	D.O.H.C.	K3Y2-11-SCO	SWK30019
1591	1.6L	97	FORTE 5	2014 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1591	1.6L	97	FORTE KOUP	2014 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1591	1.6L	97	RAY	2015 NEW	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1591	1.6L	97	RIO	2012 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1591	1.6L	97	RIO 5	2012 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1591	1.6L	97	SOUL	2009 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	SWG30046
1597	1.6L	97	SEPHIA	1994 - 1995	4	B6	F.I.	S.O.H.C.	K2YA-11-SCO	SWK30020
1597	1.6L	97	SEPHIA	1995 - 1997	4	B6	F.I.	D.O.H.C.	K2YA-11-SCO	SWK30020
1597	1.6L	97	SEPHIA	1998 - 2000	4	B6	F.I.	D.O.H.C.	K2Y3-11-SCO	NA
1599	1.6L	98	RIO	2003 - 2005	4	ALPHA G4ED	F.I.	D.O.H.C.	23040-26101	SWG30030
1599	1.6L	98	RIO CINCO	2003 - 2005	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26101	SWG30030
1599	1.6L	98	RIO	2006 - 2011	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26120	SWG30034
1599	1.6L	98	RIO 5	2006 - 2011	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26120	SWG30034
1793	1.8L	109	SPECTRA	2000 - 2004	4	FB	F.I.	D.O.H.C.	23040-2Y000	SWG30040
1793	1.8L	109	SPECTRA5	2004 ONLY	4	FB	F.I.	D.O.H.C.	23040-2Y000	SWG30040
1797	1.8L	110	FORTE	2014 - 2015	4	Nu 1.8L	F.I.	D.O.H.C.	23040-2E000	NA
1839	1.8L	112	SEPHIA	1995 - 2000	4	BP	F.I.	D.O.H.C.	BPY0-11-SCO	SWT20066*
1975	2.0L	121	SPECTRA5	2005 - 2008	4	BETA G4GF	F.I.	D.O.H.C.	23040-23000	SWG30028
1975	2.0L	121	SPORTAGE	2005 - 2006	4	BETA G4GF	F.I.	D.O.H.C.	23040-23000	SWG30028
1975	2.0L	121	SOUL	2009 - 2011	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	TBA
1975	2.0L	121	SPECTRA	2007 - 2009	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	TBA
1975	2.0L	121	SPECTRA5	2009 ONLY	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	TBA
1975	2.0L	121	SPORTAGE	2007 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	TBA
1998	2.0L	122	SPORTAGE	1995 ONLY	4	FE	F.I.	S.O.H.C.	KFY3-11-SCO	SWK30022
1998	2.0L	122	SPORTAGE	1995 - 2002	4	FED	F.I.	D.O.H.C.	KFY3-11-SCO	SWK30022
1998	2.0L	122	FORTE	2009 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	FORTE KOUP	2011 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	OPTIMA	2011 - 2015	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	SWG30042
1998	2.0L	122	SPORTAGE	2012 - 2015	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	SWG30042
KIA - CONTINUED										

PISTONS

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KIA

PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
K3Y2-11-SAO	11-773	323	75.50	1.20	1.20		2.50		16 VALVE
K3Y2-11-SAO	11-773	323	75.50	1.20	1.20		2.50		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
23041-2B001	NA		77.00	1.20	1.20		2.00		16 VALVE
K2Y3-11-SAO	DISC. 11-786		78.00	1.50	1.50		4.00		MAZDA Engine, 16 VALVE
K2YA-11-SAO	NA		78.00	1.50	1.50		4.00		MAZDA Engine, 16 VALVE
K2Y4-11-SAO	NA		78.00						MAZDA Engine, 16 VALVE
23410-26212	DISC. 11-819		76.50	1.20	1.20		2.50		16 VALVE
23410-26212	DISC. 11-819		76.50	1.20	1.20		2.50		16 VALVE
23410-26511	NA		76.50	1.20	1.20		2.00		16 VALVE
23410-26511	NA		76.50	1.20	1.20		2.00		16 VALVE
23410-2Y010	11-841	335	81.00	1.20	1.20		2.50		MAZDA Engine, 16 VALVE
23410-2Y010	11-841	335	81.00	1.20	1.20		2.50		MAZDA Engine, 16 VALVE
23041-2E100	NA		81.00						16 VALVE
BPY1-11-SAO	11-703	310	83.00	1.50	1.50		3.00		MAZDA Engine, 16 VALVE
23410-23711	11-838	335	82.00	1.20	1.20		2.50		16 VALVE
23410-23711	11-838	335	82.00	1.20	1.20		2.50		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
23410-23AA0	11-901	349	82.00	1.20	1.20		2.00		16 VALVE
FEY0-11-SAO	11-129	283	86.00	1.50	1.50		4.00		MAZDA Engine, 8 VALVE
K9Y2-11-SAO	11-699	309	86.00	1.50	1.50		4.00		MAZDA Engine, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
23410-2C400	11-909	351	86.00	1.20	1.20		2.00		16 VALVE

KIA - CONTINUED

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
KIA										
1999	2.0L	122	FORTE	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	NA
1999	2.0L	122	FORTE 5	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	NA
1999	2.0L	122	FORTE KOUP	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	NA
1999	2.0L	122	SOUL	2012 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	NA
2350	2.4L	143	OPTIMA	2001 - 2005	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	TBA
2359	2.4L	144	FORTE	2009 - 2013	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	FORTE KOUP	2011 - 2013	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	OPTIMA	2006 - 2008	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	RONDO	2007 - 2010	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	SORENTO	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	SPORTAGE	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	OPTIMA	2009 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	SWG30041
2359	2.4L	144	OPTIMA HYBRID	2011 - 2015	4	THETA II G4KH	F.I.	D.O.H.C.	23040-25200	SWG30041
2493	2.5L	152	OPTIMA	2001 ONLY	V6	DELTA G6BW	F.I.	D.O.H.C.	23040-37200	NA
2656	2.7L	162	OPTIMA	2002 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	SPORTAGE	2005 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	SWG30037
2656	2.7L	162	KEE	2015 NEW	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	SWG30045
2656	2.7L	162	OPTIMA	2006 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	SWG30045
2656	2.7L	162	RONDO	2007 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	SWG30045
2656	2.7L	162	SPORTAGE	2007 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	SWG30045
3342	3.3L	204	SORENTO	2008 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	TBA
3342	3.3L	204	SORENTO	2014 - 2015	V6	LAMBDA G6DH	F.I.	D.O.H.C.	-	NA
3342	3.3L	204	CADENZA	2014 - 2015	V6	LAMBDA II G6DG	F.I.	D.O.H.C.	23040-3C100	NA
3470	3.5L	212	KND-5	2015 NEW	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	NA
3470	3.5L	212	SEDONA	2011 - 2015	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	NA
3470	3.5L	212	SORENTO	2011 - 2013	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	NA
3497	3.5L	213	AMANTI	2004 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWM31121*
3497	3.5L	213	SORENTO	2002 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWM31121*
3497	3.5L	213	SEDONA	2002 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWM31121*
3778	3.8L	231	AMANTI	2007 - 2009	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	NA
3778	3.8L	231	BORREGO	2009 ONLY	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	NA
3778	3.8L	231	SEDONA	2007 - 2010	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	NA
3778	3.8L	231	SORENTO	2007 - 2009	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	NA
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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
-	NA		81.00						16 VALVE
-	NA		81.00						16 VALVE
-	NA		81.00						16 VALVE
-	NA		81.00						16 VALVE
23410-38200	11-772	323	86.50	1.20	1.50		2.80		VIN 6, 16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
23410-2G200	NA		88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-2G200	NA		88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-37210	11-771	322	84.00	1.20	1.20		2.50		24 VALVE
23410-37310	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-37310	11-862	340	86.70	1.20	1.20		2.50		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	11-892	347	86.70	1.20	1.20		2.00		24 VALVE
23041-3C151	NA		92.00	1.20	1.20		2.00		24 VALVE
-	NA		92.00						24 VALVE
23041-3C611	NA		92.00						24 VALVE
23041-3CAA1	NA		92.00						24 VALVE
23041-3CAA1	NA		92.00						24 VALVE
23041-3CAA1	NA		92.00						24 VALVE
23040-39800	NA		93.00	1.50	1.50		3.00		24 VALVE
23040-39800	NA		93.00	1.50	1.50		3.00		24 VALVE
23400-39800	NA		93.00	1.50	1.50		3.00		24 VALVE
23041-3C600	NA		96.00						24 VALVE
23041-3C600	NA		96.00						24 VALVE
23041-3C600	NA		96.00						24 VALVE
23041-3C600	NA		96.00						24 VALVE

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
LEXUS										
1798	1.8L	110	CT 200 HYBRID	2011 - 2015	4	2ZR-FXE	F.I.	D.O.H.C.	13011-37110	SWT10232
1998	2.0L	122	NX 200t	2015 - 2016	4	8AR-FTS	F.I.	D.O.H.C.	-	NA
2355	2.4L	144	HS 250 HYBRID	2010 - 2014	4	2AZ-FXE	F.I.	D.O.H.C.	13011-28161	SDT10200
2494	2.5L	152	ES 300 HYBRID	2013 - 2015	4	2AR-FSE	F.I.	D.O.H.C.	-	NA
2494	2.5L	152	GS 300 HYBRID	2014 - 2015	4	2AR-FSE	F.I.	D.O.H.C.	-	NA
2494	2.5L	152	NX 300 HYBRID	2015 - 2016	4	2AR-FSE	F.I.	D.O.H.C.	-	NA
2494	2.5L	152	RC 300 HYBRID	2015 - 2016	4	2AR-FSE	F.I.	D.O.H.C.	-	NA
2499	2.5L	152	IS 250	2006 - 2015	V6	4GR-FSE	F.I.	D.O.H.C.	13011-31220	SDT10225
2499	2.5L	152	IS 250	2006 - 2015	V6	4GR-FSE	F.I.	D.O.H.C.	13011-31220	SDT10225
2499	2.5L	152	IS 250C	2010 - 2015	V6	4GR-FSE	F.I.	D.O.H.C.	13011-31220	SDT10225
2499	2.5L	152	IS 250C	2010 - 2015	V6	4GR-FSE	F.I.	D.O.H.C.	13011-31220	SDT10225
2507	2.5L	153	ES 250	1990 - 1991	V6	2VZ-FE	F.I.	D.O.H.C.	13011-62040	SWT10148
2958	3.0L	181	ES 300	1992 - 1993	V6	3VZ-FE	F.I.	D.O.H.C.	13011-62060	SWT10144
2994	3.0L	183	GS 300	2006 ONLY	V6	3GR-FSE	F.I.	D.O.H.C.	13011-31170	NA
2994	3.0L	183	GS 300	2006 ONLY	V6	3GR-FSE	F.I.	D.O.H.C.	13011-31170	NA
2995	3.0L	183	ES 300	1994 - 1999	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	ES 300	1994 - 1999	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	ES 300	2000 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	ES 300	2000 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	RX 300	1998 - 1999	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	RX 300	1998 - 1999	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	RX 300	2000 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	RX 300	2000 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2997	3.0L	183	GS 300	1994 - 1997	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
2997	3.0L	183	SC 300	1992 - 1997	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
2997	3.0L	183	GS 300	1998 - 2005	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
2997	3.0L	183	IS 300	2001 - 2005	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
2997	3.0L	183	SC 300	1998 - 2001	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
3311	3.3L	202	ES 330	2004 - 2006	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A031	SWT10228
3311	3.3L	202	RX 330	2004 - 2006	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A031	SWT10228
3311	3.3L	202	RX 400 HYBRID	2006 - 2010	V6	3MZ-FXE	F.I.	D.O.H.C.	13011-0A031	SWT10228
3456	3.5L	211	ES 350	2007 - 2010	V6	2GR-FE	F.I.	D.O.H.C.	13011-31140	SDT10194
3456	3.5L	211	ES 350	2011 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	RX 350	2007 - 2010	V6	2GR-FE	F.I.	D.O.H.C.	13011-31140	SDT10194
3456	3.5L	211	RX 350	2011 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
13101-37120	NA		80.50	1.00	1.00		1.50		16 VALVE
-	NA		86.00						w/ TURBO, 16 VALVE
13211-28120-A0	NA		88.50	1.00	1.00		2.00		16 VALVE
-	NA		90.00						16 VALVE
-	NA		90.00						16 VALVE
-	NA		90.00						16 VALVE
-	NA		90.00						16 VALVE
13101-31050-B0	NA		83.00	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31020-B0	NA		83.00	1.20	1.20		2.00		LEFT, 24 VALVE
13101-31050-B0	NA		83.00	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31020-B0	NA		83.00	1.20	1.20		2.00		LEFT, 24 VALVE
13101-62020-01	11-651	303	87.50	1.50	1.50		3.00		24 VALVE
13101-62040-01	11-661	305	87.50	1.50	1.50		4.00		24 VALVE
13101-31040	NA		87.50	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31010	NA		87.50	1.20	1.20		2.00		LEFT, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-0A020	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-0A020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-0A020	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-0A020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-46031	DISC. 11-770		86.00	1.50	1.50		4.00		24 VALVE
13101-46031	DISC. 11-770		86.00	1.50	1.50		4.00		24 VALVE
13101-46081	11-851	337	86.00	1.50	1.50		4.00		24 VALVE
13101-46081	11-851	337	86.00	1.50	1.50		4.00		Including SportCross, 24 VALVE
13101-46081	11-851	337	86.00	1.50	1.50		4.00		24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		24 VALVE
13101-31092-A0	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-31092-A0	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-31092-A0	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-0P053	11-870	342	94.00	1.20	1.20		2.00		24 VALVE

LEXUS

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
LEXUS										
3456	3.5L	211	GS 350	2006 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	GS 350	2006 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	GS 450 HYBRID	2007 - 2015	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	GS 450 HYBRID	2007 - 2015	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	IS 350	2006 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	IS 350	2006 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	IS 350C	2010 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	IS 350C	2010 - 2015	V6	2GR-FSE	F.I.	D.O.H.C.	13011-31142	SDT10194
3456	3.5L	211	RX 450 HYBRID	2010 - 2015	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31160	SDT10194
3456	3.5L	211	RC 350	2015 - 2016	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31160	SDT10194
3969	4.0L	242	GS 400	1998 - 2001	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50120	SWT10147
3969	4.0L	242	GS 400	1998 - 2001	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50120	SWT10147
3969	4.0L	242	LS 400	1990 - 1994	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50040	SWT10147
3969	4.0L	242	LS 400	1990 - 1994	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50040	SWT10147
3969	4.0L	242	LS 400	1995 - 1997	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50080	SWT10147
3969	4.0L	242	LS 400	1995 - 1997	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50080	SWT10147
3969	4.0L	242	LS 400	1998 - 2000	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50110	SWT10147
3969	4.0L	242	LS 400	1998 - 2000	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50110	SWT10147
3969	4.0L	242	SC 400	1992 - 1995	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50040	SWT10147
3969	4.0L	242	SC 400	1992 - 1995	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50040	SWT10147
3969	4.0L	242	SC 400	1996 ONLY	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50080	SWT10147
3969	4.0L	242	SC 400	1996 ONLY	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50080	SWT10147
3969	4.0L	242	SC 400	1997 - 2000	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50120	SWT10147
3969	4.0L	242	SC 400	1997 - 2000	V8	1UZ-FE	F.I.	D.O.H.C.	13011-50120	SWT10147
4293	4.3L	262	GS 430	2002 - 2008	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	GS 430	2002 - 2008	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	LS 430	2001 - 2006	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	LS 430	2001 - 2006	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	SC 430	2002 - 2006	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	SC 430	2002 - 2006	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	SC 430	2007 - 2010	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4293	4.3L	262	SC 430	2007 - 2010	V8	3UZ-FE	F.I.	D.O.H.C.	13011-50170	NA
4477	4.5L	273	LX 450	1996 - 1997	V6	1FZ-FE	F.I.	D.O.H.C.	13011-66021	SWT10184
4608	4.6L	281	GS 460	2008 - 2011	V8	1UR-FSE	F.I.	D.O.H.C.	13011-38080	SDT10204
4608	4.6L	281	GS 460	2008 - 2011	V8	1UR-FSE	F.I.	D.O.H.C.	13011-38080	SDT10204
4608	4.6L	281	LS 460	2007 - 2015	V8	1UR-FSE	F.I.	D.O.H.C.	13011-38081	SDT10204
4608	4.6L	281	LS 460	2007 - 2015	V8	1UR-FSE	F.I.	D.O.H.C.	13011-38081	SDT10204
4608	4.6L	281	GX 460	2010 - 2015	V8	1UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
LEXUS - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
13101-31061-A0	NA		94.00	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31031-A0	NA		94.00	1.20	1.20		2.00		LEFT, 24 VALVE
13101-31061-A0	NA		94.00	1.20	1.20		2.00		GYL, RIGHT, 24 VALVE
13301-31031-A0	NA		94.00	1.20	1.20		2.00		GYL, RIGHT, 24 VALVE
13101-31061-A0	NA		94.00	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31031-A0	NA		94.00	1.20	1.20		2.00		LEFT, 24 VALVE
13101-31061-A0	NA		94.00	1.20	1.20		2.00		RIGHT, 24 VALVE
13301-31031-A0	NA		94.00	1.20	1.20		2.00		LEFT, 24 VALVE
13101-31110-A0	NA		94.00	1.20	1.20		2.00		GWL, 24 VALVE
13101-31110-A0	NA		94.00	1.20	1.20		2.00		24 VALVE
13101-54040-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-54040-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50020-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50010-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50030-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50020-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50040-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50030-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50020-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50010-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50030-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50020-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50040-01	NA		87.50	1.50	1.50		3.00		RIGHT, 32 VALVE
13301-50030-01	NA		87.50	1.50	1.50		3.00		LEFT, 32 VALVE
13101-50070-02	NA		91.00	1.20	1.20		3.00		RIGHT, 32 VALVE
13301-50060-01	NA		91.00	1.20	1.20		3.00		LEFT, 32 VALVE
13101-50070-02	NA		91.00	1.20	1.20		3.00		RIGHT, 32 VALVE
13301-50060-01	NA		91.00	1.20	1.20		3.00		LEFT, 32 VALVE
13101-50070-02	NA		91.00	1.20	1.20		3.00		RIGHT, 32 VALVE
13301-50060-01	NA		91.00	1.20	1.20		3.00		LEFT, 32 VALVE
13101-50090-02	NA		91.00	1.20	1.20		3.00		RIGHT, 32 VALVE
13301-50080-01	NA		91.00	1.20	1.20		3.00		LEFT, 32 VALVE
13101-66040-01	DISC. 11-700		100.00	1.75	2.00		4.00		24 VALVE
13101-38090	NA		94.00	1.20	1.20		2.00		RIGHT, 32 VALVE
13301-38010	NA		94.00	1.20	1.20		2.00		LEFT, 32 VALVE
13101-38090	NA		94.00	1.20	1.20		2.00		RIGHT, 32 VALVE
13301-38010	NA		94.00	1.20	1.20		2.00		LEFT, 32 VALVE
13101-0S020	NA		94.00						32 VALVE

LEXUS

LEXUS - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
LEXUS										
4664	4.7L	285	GX 470	2003 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10203
4664	4.7L	285	GX 470	2003 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10203
4664	4.7L	285	LX 470	1998 - 2002	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4664	4.7L	285	LX 470	1998 - 2002	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4664	4.7L	285	LX 470	2003 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-01F10	SWT10203
4664	4.7L	285	LX 470	2003 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-01F10	SWT10203
4805	4.8L	293	LFA	2012 - 2015	V10	1LR-GUE	F.I.	D.O.H.C.	-	NA
4805	4.8L	293	LFA	2012 - 2015	V10	1LR-GUE	F.I.	D.O.H.C.	-	NA
4969	5.0L	303	IS-F	2008 - 2015	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	SDT10204
4969	5.0L	303	IS-F	2008 - 2015	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	SDT10204
4969	5.0L	303	LS 600 HYBRID	2008 - 2015	V8	2UR-FSE	F.I.	D.O.H.C.	13011-38090	SDT10204
4969	5.0L	303	LS 600 HYBRID	2008 - 2015	V8	2UR-FSE	F.I.	D.O.H.C.	13011-38090	SDT10204
4969	5.0L	303	RC F	2015 - 2016	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	SDT10204
4969	5.0L	303	RC F	2015 - 2016	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	SDT10204
5000	5.0L	305	LF-LC HYBRID	2016 - 2017	V8		F.I.	D.O.H.C.	-	NA
5000	5.0L	305	LF-LC HYBRID	2016 - 2017	V8		F.I.	D.O.H.C.	-	NA
5663	5.7L	346	LX 570	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
LEXUS - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1146	1.1L	70	RX-7	1981 - 1985		12A			Rotary Engine	NA
1200	1.2L	73	1200	1972 - 1975	4	TB	CARB		0271-23-170	SXT20009
1272	1.3L	78	808	1976 - 1978	4	TC	CARB		0324-23-130	SWT20026
1272	1.3L	78	GLC	1977 - 1978	4	TC	CARB		0324-23-130	SWT20026
1296	1.3L	79	GLC	1983 - 1984	4	E3	CARB		E302-23-130A	SWT20045
1308	1.3L	80	RX-7	1986 - 1991		13B			Rotary Engine	NA
1309	1.3L	80	RX-7	1992 - 1995		13B-REW			Rotary Engine	NA
1308	1.3L	80	RX-8	2004 - 2012		13B-MSP			Rotary Engine	NA
1415	1.4L	86	GLC	1979 - 1980	4	UC	CARB		8569-23-130A	SWT20036
1489	1.5L	91	PROTÉGÉ	1995 - 1998	4	Z5	F.I.	D.O.H.C.	Z5Y0-11-SC0	SWT20074
1490	1.5L	91	GLC	1983 - 1985	4	E5	CARB		E302-23-130A	SWT20045
1490	1.5L	91	GLC	1981 - 1985	4	E5	CARB		E512-23-130	SWT20037
1498	1.5L	91	MAZDA 2	2011 - 2015	4	ZY-VE	F.I.	D.O.H.C.	ZYY2-11-SC0	SWT20087
1586	1.6L	97	808	1972 - 1978	4	NA	CARB	S.O.H.C.	0494-23-130	SWT20025
1586	1.6L	97	B1600	1972 - 1978	4	NA	CARB	S.O.H.C.	0494-23-130	SWT20025
1597	1.6L	97	323	1986 - 1995	4	B6	F.I.	S.O.H.C.	B6Y0-11-SC0A	SWT20060
1597	1.6L	97	323	1988 - 1993	4	B6T	F.I.	D.O.H.C.	B6Y0-11-SC0A	SWT20060
1597	1.6L	97	MIATA MX5	1989 - 1993	4	B6-ZE	F.I.	D.O.H.C.	B6Y4-11-SC0B	SWT20060
1597	1.6L	97	MIATA MX5	1989 - 1993	4	B6-ZE	F.I.	D.O.H.C.	B6Y3-11-SC0A	SWT20063
1597	1.6L	97	323	1994 - 1995	4	B6	F.I.	S.O.H.C.	B6Y6-11-SC0A	SWT20060
1597	1.6L	97	MX3	1992 - 1993	4	B6-ME	F.I.	S.O.H.C.	B6Y6-11-SC0A	SWT20060
1597	1.6L	97	MX3	1994 - 1997	4	B6-ME	F.I.	S.O.H.C.	B6Y6-11-SC0A	SWT20060
1597	1.6L	97	PROTÉGÉ	1999 - 2001	4	ZL	F.I.	D.O.H.C.	ZLY0-11-SC0	SWT20080
1796	1.8L	110	618	1972 - 1973	4	VB	CARB		0494-23-130	SWT20025
1797	1.8L	110	618	1972 ONLY	4	VB	CARB	S.O.H.C.	0494-23-130	SWT20025
1797	1.8L	110	B1800	1977 - 1978	4	VB	CARB	S.O.H.C.	3763-23-130	SWT20025

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
-	NA								
0271-23-200	DISC. 11-702		70.00	2.00	2.00		4.00		8 VALVE
0370-23-200	DISC. 11-123		73.00	2.00	2.00		4.00		8 VALVE
0370-23-200	DISC. 11-123		73.00	2.00	2.00		4.00		8 VALVE
E302-23-200A	11-124	282	77.00	1.50	2.00		4.00		8 VALVE
-	NA								
-	NA								
-	NA								
8569-23-200	DISC. 11-125		77.00	1.50	1.50		4.00		
Z5Y0-11-SA0B	11-731	315	75.30	1.00	1.20		2.50		16 VALVE
E502-23-200A	11-127	283	77.00	1.50	2.00		4.00		F.W.D., 8 VALVE
E501-23-200	DISC. 11-126		77.00	1.20	1.50		4.00		8 VALVE
ZYY3-11-SA0	NA		78.00	1.20	1.20		2.50		16 VALVE
0305-23-200	DISC. 11-128		78.00	1.50	1.50		4.00		8 VALVE
0305-23-200	DISC. 11-128		78.00	1.50	1.50		4.00		8 VALVE
B6Y0-11-SA0A	DISC. 11-577		78.00	1.50	1.50		4.00		8 VALVE
B6Z0-11-SA0A	DISC. 11-578		78.00	1.50	1.50		4.00		w/ TURBO, 16 VALVE
B6Z2-11-SA0C	11-579	294	78.00	1.50	1.50		4.00		STD TRANS, 16 VALVE
B6Z5-11-SC0	DISC. 11-588		78.00	1.50	1.50		3.00		AUTO TRANS, 16 VALVE
B6Y3-11-SA0A	DISC. 11-786		78.00	1.50	1.50		4.00		w/ CALIF E.C.S., 8 VALVE
B6Y3-11-SA0A	DISC. 11-786		78.00	1.50	1.50		4.00		16 VALVE
B6Z7-11-SA0	11-794	326	78.00	1.50	1.50		4.00		16 VALVE
ZMY0-11-SA0	NA		80.00	1.20	1.50		3.00		16 VALVE
2683-99-111	NA		78.00	1.50	1.50		4.00		w/ CALIF E.C.S.
0290-23-200	DISC. 11-092		78.00	1.50	1.50		4.00		8 VALVE
3879-23-200	DISC. 11-092		78.00	1.50	1.50		4.00		8 VALVE

MAZDA

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MAZDA										
1839	1.8L	112	MIATA MX5	1999 - 2000	4	BP05-4W	F.I.	D.O.H.C.	BPZ0-11-SC0A	SWT20066
1839	1.8L	112	PROTÉGÉ	1990 - 1994	4	BP01	F.I.	D.O.H.C.	BPY3-11-SC0	SWT20066
1839	1.8L	112	MIATA MX5	1994 - 1997	4	BP05-ZE	F.I.	D.O.H.C.	BPY1-11-SC0	SWT20066
1839	1.8L	112	PROTÉGÉ	1990 - 1998	4	BP05	F.I.	D.O.H.C.	BPY1-11-SC0	SWT20066
1839	1.8L	112	MIATA MX5	2001 - 2005	4	BP05-VE	F.I.	D.O.H.C.	BPZ0-11-SC0A	SWT20066
1839	1.8L	112	PROTÉGÉ	1999 - 2000	4	FP	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1844	1.8L	113	MX3	1992 - 1994	V6	K8-DE	F.I.	D.O.H.C.	K8Y2-11-SC0A	SWT20067
1844	1.8L	113	MX3	1992 - 1994	V6	K8-DE	F.I.	D.O.H.C.	K8Y2-11-SC0A	SWT20067
1970	2.0L	120	626	1979 - 1981	4	MA	CARB	S.O.H.C.	HE18-23-130	SWT20031
1970	2.0L	120	B2000	1979 - 1981	4	MA	CARB	S.O.H.C.	HE18-23-130	SWT20031
1970	2.0L	120	626	1982 ONLY	4	MA	CARB	S.O.H.C.	HE05-23-130	SWT20042
1970	2.0L	120	B2000	1982 - 1984	4	MA	CARB	S.O.H.C.	HE05-23-130	SWT20042
1988	2.0L	121	TRIBUTE	2001 - 2004	4	YF	F.I.	D.O.H.C.	YF09-11-100A	SWF30002
1991	2.0L	121	626	1993 - 2002	4	FS-DE	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1991	2.0L	121	MX6	1993 - 1997	4	FS	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1991	2.0L	121	PROTÉGÉ	2001 ONLY	4	FS	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1991	2.0L	121	PROTÉGÉ 5	2002 - 2003	4	FS	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1991	2.0L	121	PROTÉGÉ	2002 - 2003	4	FS	F.I.	D.O.H.C.	FSY2-11-SC0A	SWT20078
1998	2.0L	122	626	1983 - 1987	4	FE	C & F	S.O.H.C.	F2Y1-11-SC0	SWT20048
1998	2.0L	122	B2000	1985 - 1987	4	FE	CARB	S.O.H.C.	F2Y1-11-SC0	SWT20048
1998	2.0L	122	626	1984 - 1985	4	RFX	DIESEL		RF01-23-130A	SDT20055
1998	2.0L	122	626	1986 - 1987	4	FET	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
1998	2.0L	122	CX-5	2013 - 2015	4	SkyActiv-G 2.0	F.I.	D.O.H.C.	-	NA
1998	2.0L	122	MAZDA 3	2013 - 2015	4	SkyActiv-G 2.0	F.I.	D.O.H.C.	-	NA
1999	2.0L	122	MAZDA 3	2004 - 2005	4	LF-DE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
1999	2.0L	122	MAZDA 3	2006 - 2011	4	LF-DE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
1999	2.0L	122	MAZDA 3	2004 - 2005	4	LF-DE	F.I.	D.O.H.C.	LFY1-11-SC0A	SWT20089
1999	2.0L	122	MAZDA 3	2006 - 2013	4	LF-DE	F.I.	D.O.H.C.	LFY1-11-SC0A	SWT20089
1999	2.0L	122	MIATA MX5	2006 - 2007	4	LF-DE	F.I.	D.O.H.C.	LFY5-11-SC0	SWT20089
1999	2.0L	122	MIATA MX5	2009 - 2015	4	LF-DE	F.I.	D.O.H.C.	LFY1-11-SC0A	SWT20089

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
MAZDA									
BPZ0-11-SA0	11-584	295	83.00	1.50	1.50		3.00		16 VALVE
BPZ0-11-SA0A	11-584	295	83.00	1.50	1.50		3.00		16 VALVE
BPY1-11-SA0A	11-703	310	83.00	1.50	1.50		3.00		16 VALVE
BPY1-11-SA0A	11-703	310	83.00	1.50	1.50		3.00		16 VALVE
BPZ3-11-SA0	11-842	336	83.00	1.50	1.50		3.00		16 VALVE
FPY1-11-SA0E	DISC. 11-715		83.00	1.20	1.50		3.00		16 VALVE
K8Y1-11-SA0B	NA		75.00	1.50	1.50		3.00		RIGHT, 24 VALVE
K8Y1-11-SL0B	NA		75.00	1.50	1.50		3.00		LEFT, 24 VALVE
HE01-23-200	DISC. 11-130		80.00	1.20	1.50		4.00		8 VALVE
HE01-23-200	DISC. 11-130		80.00	1.20	1.50		4.00		8 VALVE
HE41-23-200	DISC. 11-131		80.00	1.50	2.00		4.00		8 VALVE
HE41-23-200	DISC. 11-131		80.00	1.50	2.00		4.00		8 VALVE
YF09-11-SA0	NA		84.50	1.50	1.75		3.00		FORD Zetec-R 2.0, 16 VALVE
FSY1-11-SA0D	11-706	310	83.00	1.20	1.50		3.00		16 VALVE
FSY1-11-SA0D	11-706	310	83.00	1.20	1.50		3.00		16 VALVE
FSY1-11-SA0D	11-706	310	83.00	1.20	1.50		3.00		16 VALVE
FSY1-11-SA0D	11-706	310	83.00	1.20	1.50		3.00		16 VALVE
FSY3-11-SA0D	11-706	310	83.00	1.20	1.50		3.00		16 VALVE
FE01-23-200	11-129	283	86.00	1.50	1.50		4.00		8 VALVE
FE01-23-200	11-129	283	86.00	1.50	1.50		4.00		8 VALVE
RF01-23-200B	11-701	309	86.00	2.00	2.00		4.00		
FE30-23-200A	DISC. 11-572		86.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
-	NA		83.50						16 VALVE
-	NA		83.50						16 VALVE
LFY4-11-010	NA		87.50	1.20	1.20		2.50		FORD Duratec 20, w/ CALIF. E.C.S., 16 VALVE
LFY7-11-010	NA		87.50	1.20	1.20		2.50		FORD Duratec 20, w/ CALIF. E.C.S., 16 VALVE
LFY2-11-010	11-854	338	87.50	1.20	1.20		2.50		FORD Duratec 20, 16 VALVE
LFY5-11-010	11-898	349	87.50	1.20	1.20		2.50		FORD Duratec 20, 16 VALVE
LFYA-11-010	NA		87.50	1.20	1.20		2.50		16 VALVE
LFYA-11-010	NA		87.50	1.20	1.20		2.50		AUTO TRANS, 16 VALVE

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MAZDA										
1999	2.0L	122	MIATA MX5	2009 - 2015	4	LF-DE	F.I.	D.O.H.C.	LFY1-11-SC0A	SWT20089
2184	2.2L	133	626	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	MX6	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	626	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	MX6	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	626	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	B2200	1986 - 1993	4	F2	F & C	S.O.H.C.	F2Y1-11-SC0	SWT20048
2184	2.2L	133	MX6	1988 - 1992	4	F2	F.I.	S.O.H.C.	F2Y1-11-SC0	SWT20048
2188	2.2L	134	CX-5	2013 - 2015	4	SkyActiv-D 2.2	DIESEL	D.O.H.C.	SHY1-11-SC0	SDT20091
2209	2.2L	135	B2200	1982 - 1985	4	S2	DIESEL		1456-23-206	SDT20032
2255	2.3L	138	MILLENNIA	1995 - 1996	V6	KJ-ZEM	F.I.	D.O.H.C.	KJY1-11-SC0A	NA
2255	2.3L	138	MILLENNIA	1995 - 1996	V6	KJ-ZEM	F.I.	D.O.H.C.	KJY1-11-SC0A	NA
2255	2.3L	138	MILLENNIA	1997 - 2002	V6	KJ-ZEM	F.I.	D.O.H.C.	KJY1-11-SC0A	NA
2255	2.3L	138	MILLENNIA	1997 - 2002	V6	KJ-ZEM	F.I.	D.O.H.C.	KJY1-11-SC0A	NA
2260	2.3L	138	B2300	2001 - 2009	4	L3-VE	F.I.	D.O.H.C.	L3Y3-11-SC0	SWT20090
2260	2.3L	138	MAZDA 3	2004 - 2009	4	L3-VE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
2260	2.3L	138	MAZDA 5	2006 - 2010	4	L3-VE	F.I.	D.O.H.C.	L3Y6-11-SC0	SWT20090
2260	2.3L	138	MAZDA 6	2003 - 2004	4	L3-VE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
2260	2.3L	138	TRIBUTE	2005 - 2006	4	L3-VE	F.I.	D.O.H.C.	L3Y3-11-SC0	SWT20090
2260	2.3L	138	MAZDA 3	2006 - 2009	4	L3-VE	F.I.	D.O.H.C.	L3Y6-11-SC0	SWT20090
2260	2.3L	138	MAZDA 6	2005 - 2008	4	L3-VE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
2260	2.3L	138	MAZDA 3	2007 - 2009	4	L3-VE	F.I.	D.O.H.C.	LFY7-11-SC0A	SWT20090
2260	2.3L	138	MAZDA 6	2006 - 2007	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2260	2.3L	138	MAZDASPPED6	2006 - 2008	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2260	2.3L	138	CX-7	2006 - 2009	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2260	2.3L	138	MAZDA 3	2007 - 2009	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2260	2.3L	138	CX-7	2010 - 2012	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2260	2.3L	138	MAZDASPPED3	2007 - 2013	4	L3-VDT	F.I.	D.O.H.C.	L3Y4-11-SC0	NA
2298	2.3L	140	B2300	1994 ONLY	4	A	F.I.	S.O.H.C.	ZZM0-23-130	SWT20071
2298	2.3L	140	B2300	1995 - 1997	4	A	F.I.	S.O.H.C.	ZZM9-23-130	SWT20071
2488	2.5L	152	CX-5	2013 - 2015	4	Skyactiv-G 2.5	F.I.	D.O.H.C.	-	NA
2488	2.5L	152	MAZDA 6	2012 - 2015	4	Skyactiv-G 2.5	F.I.	D.O.H.C.	-	NA

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
LFY0-11-SA0A	NA		87.50	1.20	1.20		2.50		STD TRANS, 16 VALVE
F220-11-SA0	11-573	294	86.00	1.50	1.50		4.00		w/ TURBO, 16 VALVE
F220-11-SA0	11-573	294	86.00	1.50	1.50		4.00		w/ TURBO, 16 VALVE
F2Y2-11-SA0A	11-582	295	86.00	1.50	1.50		4.00		16 VALVE
F2Y2-11-SA0A	11-582	295	86.00	1.50	1.50		4.00		16 VALVE
F2Y4-11-SA0A	11-583	295	86.00	1.50	1.50		4.00		12 VALVE
F2Y4-11-SA0A	11-583	295	86.00	1.50	1.50		4.00		12 VALVE
F2Y4-11-SA0A	11-583	295	86.00	1.50	1.50		4.00		12 VALVE
-	NA		86.00	2.00	1.50		2.00		16 VALVE
8259-23-200C	DISC. 11-132		88.90	2.38	2.38		4.76		
KJY1-11-SA0	DISC. 11-765		80.30	1.50	1.50		3.00		RIGHT, 24 VALVE
KJY1-11-SL0	DISC. 11-765		80.30	1.50	1.50		3.00		LEFT, 24 VALVE
KJY2-11-SA0	NA		80.30	1.50	1.50		3.00		RIGHT, 24 VALVE
KJY2-11-SL0	NA		80.30	1.50	1.50		3.00		LEFT, 24 VALVE
L3Y9-11-010	11-843	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3Y9-11-010	11-843	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3Y9-11-010	11-843	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3Y9-11-010	11-843	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3Y9-11-010	11-843	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3YH-11-010	11-844*	336	87.50	1.20	1.20		2.50		FORD Duratec 23, w/ CALIF. E.C.S., 16 VALVE
L3YH-11-010	11-844*	336	87.50	1.20	1.20		2.50		FORD Duratec 23, 16 VALVE
L3YD-11-010	NA		87.50	1.20	1.20		2.50		FORD Duratec 23, w/ CALIF. E.C.S., 16 VALVE
L3K9-11-210B	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
L3K9-11-210B	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
L3Y0-11-SA0	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
L3Y0-11-SA0	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
L3Y4-11-SA0	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
L3Y4-11-SA0	NA		87.50	1.50	1.50		2.00		FORD Duatec 23, w/ TURBO, 16 VALVE
ZZM9-23-200	NA		96.00	1.50	1.50		4.00		8 VALVE
ZZM3-23-200A	NA		96.00	1.50	1.50		4.00		8 VALVE
-	NA		89.00						16 VALVE
-	NA		89.00						16 VALVE

MAZDA

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MAZDA										
2488	2.5L	152	TRIBUTE HYBRID	2008 - 2009	4	L5-VEH	F.I.	D.O.H.C.	-	NA
2489	2.5L	152	CX-7	2010 - 2012	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	NA
2489	2.5L	152	MAZDA 3	2010 - 2015	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	NA
2489	2.5L	152	MAZDA 5	2012 - 2015	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	NA
2489	2.5L	152	MAZDA 6	2009 - 2012	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	NA
2489	2.5L	152	TRIBUTE	2008 - 2011	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	NA
2494	2.5L	152	MPV	2000 - 2001	V6	GY-DE	F.I.	D.O.H.C.	GYTT-11-SCO	NA
2507	2.5L	153	626	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	626	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MILLENNIA	1995 - 1996	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MILLENNIA	1995 - 1996	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MILLENNIA	1997 - 2002	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MILLENNIA	1997 - 2002	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MX6	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	MX6	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	626	1998 - 1999	V6	KL-G4	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	626	2000 - 2002	V6	KL-G4	F.I.	D.O.H.C.	KLY2-11-SCO0A	SWT20073
2507	2.5L	153	B2500	1998 - 2001	4	C	F.I.	S.O.H.C.	ZZP0-23-130	SWT20076
2555	2.6L	156	B2600	1986 - 1987	4	AM1	CARB	S.O.H.C.	AM15-11-SCO	SWM31039
2555	2.6L	156	B2600	1988 ONLY	4	AM1	CARB	S.O.H.C.	AM15-11-SCO	SWM31039
2606	2.6L	159	B2600i	1989 - 1993	4	G6	F.I.	S.O.H.C.	G601-11-SCO0A	SWT20064
2606	2.6L	159	MPV	1989 - 1994	4	G6	F.I.	S.O.H.C.	G601-11-SCO0A	SWT20064
2954	3.0L	180	929	1988 - 1991	V6	JE	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2954	3.0L	180	MPV	1989 - 1993	V6	JE	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2954	3.0L	180	MPV	1994 - 1999	V6	JE	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2954	3.0L	180	MPV	1994 - 1999	V6	JE	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2954	3.0L	180	929	1992 - 1995	V6	JE48	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2954	3.0L	180	929	1992 - 1995	V6	JE48	F.I.	S.O.H.C.	JEY1-11-SCO	SWT20062
2967	3.0L	181	MAZDA 6	2003 - 2008	V6	AJ-DE	F.I.	D.O.H.C.	-	SWF30021*
2967	3.0L	181	MPV	2002 - 2006	V6	AJ-DE	F.I.	D.O.H.C.	-	SWF30021*
2967	3.0L	181	B3000	1998 - 2004	V6	VULCAN V6	F.I.	O.H.V.	ZZP1-23-130	SWT20086
2967	3.0L	181	B3000	2005 - 2008	V6	VULCAN V6	F.I.	O.H.V.	1F61-23-130	SWT20086
2967	3.0L	181	TRIBUTE	2001 - 2011	V6	AJ, V	F.I.	D.O.H.C.	ZZCA-11-100	SWI10155

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
-	NA		89.00						16 VALVE
L5Y3-11-SA0	NA		89.00						16 VALVE
L5Y3-11-SA0	NA		89.00						16 VALVE
L5Y3-11-SA0	NA		89.00						16 VALVE
L5Y3-11-SA0	NA		89.00						16 VALVE
L5Y3-11-SA0	NA		89.00						16 VALVE
GY01-11-100C	DISC. 11-816		81.60	1.20	1.50		3.00		24 VALVE
KLZ1-11-SA0	11-716	312	84.50	1.50	1.50		3.00		RIGHT, 24 VALVE
KLY1-11-SL0B	11-716	312	84.50	1.50	1.50		3.00		LEFT, 24 VALVE
KLZ1-11-SA0	11-716	312	84.50	1.50	1.50		3.00		RIGHT, 24 VALVE
KLY1-11-SL0B	11-716	312	84.50	1.50	1.50		3.00		LEFT, 24 VALVE
KLZ1-11-SA0	11-716	312	84.50	1.50	1.50		3.00		RIGHT, 24 VALVE
KLZ1-11-SL0B	11-716	312	84.50	1.50	1.50		3.00		LEFT, 24 VALVE
KLZ1-11-SA0	11-716	312	84.50	1.50	1.50		3.00		RIGHT, 24 VALVE
KLY1-11-SL0B	11-716	312	84.50	1.50	1.50		3.00		LEFT, 24 VALVE
KLY5-11-SA0B	DISC. 11-766		84.50	1.50	1.50		3.00		24 VALVE
KLY8-11-SA0	NA		84.50	1.50	1.50		3.00		24 VALVE
ZZP3-23-200	NA		96.00	1.50	1.50		3.00		8 VALVE
AM01-11-SA0	11-035	277	91.10	1.50	1.50		4.00		MITSUBISHI G54B, 12 VALVE
AM15-11-SA0	11-035	277	91.10	1.50	1.50		4.00		MITSUBISHI G54B, 12 VALVE
G602-11-SA0	11-580	294	92.00	1.50	1.50		4.00		12 VALVE
G602-11-SA0	11-580	294	92.00	1.50	1.50		4.00		12 VALVE
JEY6-11-SA0B	11-575	294	90.00	1.50	1.50		4.00		18 VALVE
JEY6-11-SA0B	11-575	294	90.00	1.50	1.50		4.00		18 VALVE
JEY7-11-SAXA	11-704	310	90.00	1.50	1.50		4.00		RIGHT, 12 VALVE
JEY7-11-SLXA	11-704	310	90.00	1.50	1.50		4.00		LEFT, 12 VALVE
JEY8-11-SAXB	11-759	321	90.00	1.50	1.50		4.00		RIGHT, 24 VALVE
JEY8-11-SLXA	11-759	321	90.00	1.50	1.50		4.00		LEFT, 24 VALVE
ZZDL-11-210	11-868	341	89.00	1.20	1.50		2.50		FORD Duratec 30, 24 VALVE, incl Sport Wagon
AJTM-11-210	11-868	341	89.00	1.20	1.50		2.50		FORD Duratec 30, 24 VALVE
ZZMN-23-200	NA		89.00	1.50	1.50		3.00		FORD Engine, 12 VALVE
1F01-23-200	NA		89.00	1.50	1.50		3.00		FORD Engine, 12 VALVE
AJ03-11-100A	NA		89.00	1.50	1.50		4.00		FORD Vulcan V6, 24 VALVE

MAZDA

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MITSUBISHI										
1193	1.2L	73	MIRAGE	2014 - 2015	3	3A92	F.I.	D.O.H.C.	-	NA
1468	1.5L	90	MIRAGE	1984 - 1986	4	G15B	CARB	S.O.H.C.	MD156165	SWM31063
1468	1.5L	90	PRECIS	1987 - 1989	4	G15B	CARB	S.O.H.C.	23040-21210	SWM31063
1468	1.5L	90	MIRAGE	1987 - 1989	4	G15B	CARB	S.O.H.C.	MD156165	SWM31063
1468	1.5L	90	MIRAGE	1990 ONLY	4	4G15	F.I.	S.O.H.C.	MD156169	SWM31063
1468	1.5L	90	PRECIS	1990 - 1994	4	G4DJ	CARB	S.O.H.C.	23040-24200	SWM31063
1468	1.5L	90	MIRAGE	1991 - 1996	4	4G15	F.I.	S.O.H.C.	MD180804	SWM31077
1468	1.5L	90	MIRAGE	1995 - 1996	4	4G15	F.I.	S.O.H.C.	MD180804	SWM31077
1468	1.5L	90	MIRAGE	1997 - 1999	4	4G15	F.I.	S.O.H.C.	MD332715	SWM31145
1468	1.5L	90	MIRAGE	1997 - 2002	4	4G15	F.I.	S.O.H.C.	MD332715	SWM31145
1595	1.6L	97	MIRAGE	1989 ONLY	4	4G61	F.I.	D.O.H.C.	MD133495	SWM31049
1595	1.6L	97	MIRAGE	1991 - 1992	4	4G61	F.I.	D.O.H.C.	MD133495	SWM31049
1597	1.6L	97	MIRAGE	1984 - 1986	4	G32B	F.I.	S.O.H.C.	MD012765	SWM31043
1597	1.6L	97	MIRAGE	1987 - 1988	4	G32B	F.I.	S.O.H.C.	MD012765	SWM31043
1755	1.8L	107	ECLIPSE	1990 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	SWM31041
1795	1.8L	110	CORDIA	1983 ONLY	4	G62B	CARB	S.O.H.C.	MD040610	SWM31040
1795	1.8L	110	TREDIA	1983 ONLY	4	G62B	CARB	S.O.H.C.	MD040610	SWM31040
1795	1.8L	110	CORDIA	1984 - 1988	4	G62B	CARB	S.O.H.C.	MD040465	SWM31041
1795	1.8L	110	TREDIA	1984 - 1988	4	G62B	CARB	S.O.H.C.	MD040465	SWM31041
1834	1.8L	112	EXPO, EXPO LRV	1992 - 1994	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	MIRAGE	1997 - 1999	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	MIRAGE	1997 - 2002	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1834	1.8L	112	MIRAGE	1993 - 1996	4	4G93	F.I.	S.O.H.C.	MD173206	SWM31079
1997	2.0L	122	CORDIA	1984 - 1988	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	PICKUP	1983 - 1986	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	TREDIA	1984 - 1988	4	G63B	CARB	S.O.H.C.	MD040640	SWM31013
1997	2.0L	122	GALANT	1989 - 1992	4	G63B	F.I.	S.O.H.C.	MD100467	SWM31044
1997	2.0L	122	MIGHTY MAX	1988 - 1989	4	G63B	F.I.	S.O.H.C.	MD100467	SWM31044
1997	2.0L	122	PICKUP	1987 - 1989	4	G63B	F.I.	S.O.H.C.	MD100467	SWM31044

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
-	NA		75.00						12 VALVE
MD074715	11-529	290	75.50	1.50	1.50		4.00		12 VALVE
23410-21114	11-529	290	75.50	1.50	1.50		4.00		12 VALVE
MD099770	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
MD099770	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
23410-24110	11-530	290	75.50	1.50	1.50		4.00		8 VALVE
MD320435	11-531	290	75.50	1.20	1.50		3.00		12 VALVE
MD314825	NA		75.50	1.20	1.50		3.00		w/ CALIF E.C.S., 12 VALVE
MD332841	DISC. 11-748		75.50	1.20	1.50		2.80		12 VALVE
MD347238	NA		75.50	1.20	1.50		2.80		w/ CALIF E.C.S., 12 VALVE
MD135272	NA		82.30	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD129932	DISC. 11-546		82.30	1.20	1.50		3.00		GS, 16 VALVE
MD074471	DISC. 11-024		77.00	1.50	1.50		4.00		w/ TURBO, 12 VALVE
MD100254	DISC. 11-532		77.00	1.50	1.50		4.00		w/ TURBO, 12 VALVE
MD100416	11-545	292	80.60	1.50	1.50		4.00		8 VALVE
MD040571	DISC. 11-033		80.60	2.00	2.00		4.00		12 VALVE
MD040571	DISC. 11-033		80.60	2.00	2.00		4.00		12 VALVE
MD074221	DISC. 11-034		80.60	1.50	1.50		4.00		w/ TURBO, 12 VALVE
MD074221	DISC. 11-034		80.60	1.50	1.50		4.00		w/ TURBO, 12 VALVE
MD183457	DISC. 11-548		81.00	1.20	1.20		2.80		16 VALVE
MD314278	DISC. 11-761		81.00	1.20	1.20		2.80		16 VALVE
MD347630	DISC. 11-761		81.00	1.20	1.20		2.80		w/ CALIF E.C.S., 16 VALVE
MD318097	11-767	322	81.00	1.20	1.20		2.80		16 VALVE
MD040591	11-027	276	85.00	2.00	2.00		4.00		12 VALVE
MD040591	11-027	276	85.00	2.00	2.00		4.00		12 VALVE
MD040591	11-027	276	85.00	2.00	2.00		4.00		12 VALVE
MD100372	11-539	291	85.00	1.50	1.50		4.00		12 VALVE
MD100372	11-539	291	85.00	1.50	1.50		4.00		12 VALVE
MD100372	11-539	291	85.00	1.50	1.50		4.00		12 VALVE

MITSUBISHI

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MITSUBISHI										
1997	2.0L	122	ECLIPSE	1989 - 1992	4	4G63	F.I.	D.O.H.C.	MD144245	SWM31048
1997	2.0L	122	GALANT	1989 - 1991	4	4G63	F.I.	D.O.H.C.	MD144245	SWM31048
1997	2.0L	122	ECLIPSE	1989 - 1991	4	4G63	F.I.	D.O.H.C.	MD140923	SWM31048
1997	2.0L	122	GALANT	1992 ONLY	4	4G63	F.I.	D.O.H.C.	MD140923	SWM31048
1997	2.0L	122	ECLIPSE	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD195867	SWM31071
1997	2.0L	122	ECLIPSE	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD176437	SWM31071
1997	2.0L	122	ECLIPSE	1995 ONLY	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1997	2.0L	122	ECLIPSE	1996 - 1999	4	420A	F.I.	D.O.H.C.	M04741401	SWM31120
1997	2.0L	122	ECLIPSE	1995 - 1998	4	4G63	F.I.	D.O.H.C.	MD313405	SWM31103
1997	2.0L	122	GALANT	1993 ONLY	4	4G63	F.I.	S.O.H.C.	MD195805	SWM31103
1997	2.0L	122	GALANT	1992 ONLY	4	4G63	F.I.	D.O.H.C.	MD144245	SWM31048
1997	2.0L	122	LANCER EVO.	2003 - 2007	4	4G63	F.I.	D.O.H.C.	MN155259	NA
1998	2.0L	122	LANCER	2009 - 2015	4	4B11	F.I.	D.O.H.C.	1110A436	SWG30042
1998	2.0L	122	OUTLANDER SPORT	2010 - 2015	4	4B11	F.I.	D.O.H.C.	1110A436	SWG30042
1998	2.0L	122	LANCER EVO.	2008 - 2014	4	4B11T	F.I.	D.O.H.C.	1110A436*	SWG30042
1998	2.0L	122	LANCER RALLIART	2009 - 2015	4	4B11T	F.I.	D.O.H.C.	1110A436*	SWG30042
1999	2.0L	122	LANCER	2002 ONLY	4	4G94	F.I.	S.O.H.C.	MD371189	SWM31164
1999	2.0L	122	LANCER	2003 - 2006	4	4G94	F.I.	S.O.H.C.	MD371157	SWM31164
1999	2.0L	122	LANCER	2003 - 2006	4	4G94	F.I.	S.O.H.C.	MN155259	NA
2346	2.3L	143	PICKUP	1983 - 1985	4	4D55	DIESEL	S.O.H.C.	MD103391	SDM31038
2350	2.4L	143	MIGHTY MAX	1993 - 1996	4	4G64	F.I.	S.O.H.C.	MD195872	SWM31072
2350	2.4L	143	PICKUP	1993 - 1996	4	4G64	F.I.	S.O.H.C.	MD195872	SWM31072
2350	2.4L	143	EXPO, EXPO LRV	1992 ONLY	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	GALANT	1987 - 1988	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	MIGHTY MAX	1990 - 1992	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	PICKUP	1990 - 1992	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	VAN	1987 - 1991	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
2350	2.4L	143	GALANT	1984 - 1986	4	G64B	F.I.	S.O.H.C.	MD085346	SWM31037
MITSUBISHI - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
MITSUBISHI									
MD129922	11-540	291	85.00	1.20	1.50		3.00		16 VALVE
MD129922	11-540	291	85.00	1.20	1.50		3.00		16 VALVE
MD129232	11-546	292	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD129232	11-546	292	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD190262	11-718	312	85.00	1.20	1.50		3.00		16 VALVE
MD308200	11-719	312	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
M04741372	11-735	316	87.50	1.20	1.20		3.00		16 VALVE
M04797613	11-735	316	87.50	1.20	1.20		3.00		16 VALVE
MD307820	11-758	321	85.00	1.20	1.50		2.80		w/ TURBO, 16 VALVE
MD188097	DISC. 11-710		85.00	1.20	1.50		2.80		16 VALVE
MD129242	NA		85.00	1.20	1.50		3.00		16 VALVE
1110A223	NA		85.00	1.20	1.20		2.00		16 VALVE
-	11-909	351	86.00	1.20	1.20		2.00		DE, ES, 16 VALVE
-	11-909	351	86.00	1.20	1.20		2.00		16 VALVE
-	NA		86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
-	NA		86.00	1.20	1.20		2.00		w/ TURBO, 16 VALVE
MD375975	NA*		81.50	1.20	1.20		2.50		16 VALVE
MN187171	NA*		81.50	1.20	1.20		2.50		16 VALVE
MN183229	NA		81.50						w/TURBO, 16 VALVE
MD103308	11-028	277	91.10	2.50	2.00		4.00		
MD188998	11-536	290	86.50	1.20	1.50		3.00		12 VALVE
MD188998	11-536	290	86.50	1.20	1.50		3.00		12 VALVE
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD105377	11-538	291	86.50	1.50	1.50		4.00		12 VALVE
MD068759	DISC. 11-537		86.50	1.50	1.50		4.00		12 VALVE
MITSUBISHI - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
MITSUBISHI										
2350	2.4L	143	EXPO, EXPO LRV	1993 - 1995	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	GALANT	1994 ONLY	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	ECLIPSE	1997 - 1999	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	GALANT	1995 - 1998	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	MONTERO SPORT	1997 - 1999	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	ECLIPSE	1997 - 1999	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	GALANT	1999 - 2004	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	OUTLANDER	2003 - 2005	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	ECLIPSE	2000 - 2005	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	ECLIPSE SPYDER	2001 - 2005	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2350	2.4L	143	GALANT	1999 ONLY	4	4G64	F.I.	S.O.H.C.	MD195828	SWM31116
2359	2.4L	144	LANCER	2009 - 2015	4	4B12	F.I.	D.O.H.C.	1110A822	SWG30041
2359	2.4L	144	OUTLANDER	2008 - 2015	4	4B12	F.I.	D.O.H.C.	1110A822	SWG30041
2359	2.4L	144	OUTLANDER SPORT	2008 - 2009	4	4B12	F.I.	D.O.H.C.	1110A822	SWG30041
2378	2.4L	145	ECLIPSE	2006 - 2011	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2378	2.4L	145	ECLIPSE SPYDER	2006 - 2011	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2378	2.4L	145	GALANT	2005 - 2012	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2378	2.4L	145	LANCER	2003 - 2006	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2378	2.4L	145	OUTLANDER	2004 - 2006	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2378	2.4L	145	OUTLANDER SPORT	2004 - 2006	4	4G69	F.I.	S.O.H.C.	1110A966	SWM31161
2555	2.6L	156	MONTERO	1983 ONLY	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	PICKUP	1983 - 1985	4	G54B	CARB	S.O.H.C.	MD026835	SWM31047
2555	2.6L	156	MIGHTY MAX	1988 - 1989	4	G54B	C & F	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	MONTERO	1984 - 1989	4	G54B	C & F	S.O.H.C.	MD061258	SWM31039
2555	2.6L	156	PICKUP	1986 - 1989	4	G54B	CARB	S.O.H.C.	MD061258	SWM31039
2972	3.0L	181	3000GT	1990 - 1997	V6	6G72	F.I.	D.O.H.C.	MD158334	SWM31078
2972	3.0L	181	3000GT	1995 - 1999	V6	6G72	F.I.	D.O.H.C.	MD334192	SWM31078
2972	3.0L	181	DIAMANTE	1991 - 1996	V6	6G72	F.I.	S.O.H.C.	MD158334	SWM31078
2555	2.6L	156	STARION	1983 - 1989	4	G54B	F.I.	S.O.H.C.	MD061258	SWM31039
2972	3.0L	181	DIAMANTE	1991 - 1996	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	3000GT	1990 - 1999	V6	6G72	F.I.	D.O.H.C.	MD158334	SWM31078
MITSUBISHI - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
MITSUBISHI									
MD188115	11-709	311	86.50	1.20	1.50		2.80		16 VALVE
MD188115	11-709	311	86.50	1.20	1.50		2.80		16 VALVE
MD303071	11-709	311	86.50	1.20	1.50		2.80		GS, 16 VALVE
MD303071	11-709	311	86.50	1.20	1.50		2.80		16 VALVE
MD341734	DISC. 11-763		86.50	1.20	1.50		2.80		16 VALVE
MD347952	NA		86.50	1.20	1.50		2.80		GS, w/ CALIF. E.C.S., 16 VALVE
MD351183	NA		86.50	1.20	1.50		2.80		16 VALVE
MD357066	11-804	328	86.50	1.20	1.50		2.80		16 VALVE
MD357067	11-804	328	86.50	1.20	1.50		2.80		GS, 16 VALVE
MD357067	11-804	328	86.50	1.20	1.50		2.80		RS, GS, 16 VALVE
MD357067	11-804	328	86.50	1.20	1.50		2.80		w/ CALIF. E.C.S., 16 VALVE
-	11-908	351	88.00	1.20	1.20		2.00		GTS, 16 VALVE
-	11-908	351	88.00	1.20	1.20		2.00		16 VALVE, Incl. Sportback
-	11-908	351	88.00	1.20	1.20		2.00		16 VALVE
-	NA		87.00	1.20	1.20		2.00		GS, 16 VALVE
-	NA		87.00	1.20	1.20		2.00		GS, 16 VALVE
-	NA		87.00	1.20	1.20		2.00		16 VALVE
-	NA		87.00	1.20	1.20		2.00		16 VALVE
-	NA		87.00	1.20	1.20		2.00		16 VALVE, Incl. Sportback
-	NA		87.00	1.20	1.20		2.00		16 VALVE
MD026921	11-031	277	91.10	2.00	2.00		4.00		12 VALVE
MD026921	11-031	277	91.10	2.00	2.00		4.00		12 VALVE
MD071172	11-035	277	91.10	1.50	1.50		4.00		12 VALVE
MD071172	11-035	277	91.10	1.50	1.50		4.00		12 VALVE
MD071172	11-035	277	91.10	1.50	1.50		4.00		12 VALVE
MD307958	11-543	291	91.10	1.20	1.50		3.00		24 VALVE
MD307958	11-543	291	91.10	1.20	1.50		3.00		24 VALVE
MD307958	11-543	291	91.10	1.20	1.50		3.00		24 VALVE
MD128450	DISC. 11-544		91.10	1.50	1.50		4.00		w/ TURBO, 12 VALVE
MD307944	DISC. 11-542		91.10	1.20	1.50		3.00		12 VALVE
MD307972	11-547	292	91.10	1.20	1.50		3.00		w/ TURBO, 24 VALVE
MITSUBISHI - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
2972	3.0L	181	GALANT SIGMA	1987 - 1992	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	GALANT SIGMA	1987 - 1992	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	MIGHTY MAX	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	MIGHTY MAX	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	MONTERO	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	MONTERO	1989 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	PICKUP	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	PICKUP	1990 - 1993	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SIGMA	1989 - 1990	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	SIGMA	1989 - 1990	V6	6G72	F.I.	S.O.H.C.	MD104939	SWM31080
2972	3.0L	181	3000GT	1997 - 1999	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	3000GT	1997 - 1999	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	PICKUP	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	PICKUP	1994 ONLY	V6	6G72	F.I.	S.O.H.C.	MD301716	SWM31078
2972	3.0L	181	MONTERO	1995 - 1996	V6	4G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO SPORT	1997 - 1998	V6	4G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	GALANT	1999 ONLY	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO SPORT	1999 - 2000	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO SPORT	1999 - 2000	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	ECLIPSE	2000 - 2005	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	ECLIPSE SPYDER	2001 - 2005	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	GALANT	2000 - 2003	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2972	3.0L	181	MONTERO SPORT	2001 - 2003	V6	6G72	F.I.	S.O.H.C.	MD329755	SWM31078
2998	3.0L	183	OUTLANDER	2007 - 2015	V6	6B31	F.I.	S.O.H.C.	1110B435*	NA
3496	3.5L	213	MONTERO	1993 - 1996	V6	6G74	F.I.	D.O.H.C.	MD300569	SWM31121
3496	3.5L	213	MONTERO	1997 - 2000	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO SPORT	1999 - 2000	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO SPORT	2003 - 2004	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	DIAMANTE	2001 - 2004	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO	2001 - 2002	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO SPORT	2001 - 2002	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	DIAMANTE	1997 - 2000	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO	1997 - 2000	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121
3496	3.5L	213	MONTERO SPORT	1999 - 2000	V6	6G74	F.I.	S.O.H.C.	MD322783	SWM31121

MITSUBISHI - CONTINUED

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
MITSUBISHI									
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD119671	11-549	292	91.10	1.50	1.50		4.00		RIGHT, 12 VALVE
MD152563	11-549	292	91.10	1.50	1.50		4.00		LEFT, 12 VALVE
MD197808	11-707	310	91.10	1.20	1.50		3.00		RIGHT, 12 VALVE
MD197814	11-707	310	91.10	1.20	1.50		3.00		LEFT, 12 VALVE
MD197808	11-707	310	91.10	1.20	1.50		3.00		RIGHT, 12 VALVE
MD197814	11-707	310	91.10	1.20	1.50		3.00		LEFT, 12 VALVE
MD197808	11-707	310	91.10	1.20	1.50		3.00		RIGHT, 12 VALVE
MD197814	11-707	310	91.10	1.20	1.50		3.00		LEFT, 12 VALVE
MD318501	11-762	321	91.10	1.20	1.50		3.00		24 VALVE
MD318501	11-762	321	91.10	1.20	1.50		3.00		24 VALVE
MD350443	NA		91.10	1.20	1.50		3.00		24 VALVE
MD350443	NA		91.10	1.20	1.50		3.00		24 VALVE
MD360082	NA		91.10	1.20	1.50		3.00		w/ CALIF E.C.S., 24 VALVE
MD367089	11-817	331	91.10	1.20	1.50		3.00		GT, 24 VALVE
MD367089	11-817	331	91.10	1.20	1.50		3.00		GT, 24 VALVE
MD367089	11-817	331	91.10	1.20	1.50		3.00		24 VALVE
MD367089	11-817	331	91.10	1.20	1.50		3.00		24 VALVE
-	NA		87.60	1.20	1.00		2.00		24 VALVE
MD308276	11-749	319	93.00	1.50	1.50		3.00		24 VALVE
MD334469	11-774	323	93.00	1.50	1.50		3.00		24 VALVE
MD334469	11-774	323	93.00	1.50	1.50		3.00		24 VALVE
MN140937	11-847	336	93.00	1.50	1.50		3.00		24 VALVE
MN149038	11-847	336	93.00	1.50	1.50		3.00		24 VALVE
MN149038	11-847	336	93.00	1.50	1.50		3.00		24 VALVE
MN149038	11-847	336	93.00	1.50	1.50		3.00		24 VALVE
MD332016	DISC. 11-760		93.00	1.50	1.50		3.00		24 VALVE
MD332016	DISC. 11-760		93.00	1.50	1.50		3.00		w/ CALIF E.C.S., 24 VALVE
MD332016	DISC. 11-760		93.00	1.50	1.50		3.00		w/ CALIF E.C.S., 24 VALVE
MITSUBISHI - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
mitsubishi										
3701	3.7L	226	RAIDER	2006 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	SWC10002
3828	3.8L	234	ENDEVOR	2004 - 2011	V6	6G75	F.I.	S.O.H.C.	MN183867	SWM31148
3828	3.8L	234	ECLIPSE	2006 - 2011	V6	6G75	F.I.	S.O.H.C.	MN183867	SWM31148
3828	3.8L	234	ECLIPSE SPYDER	2006 - 2011	V6	6G75	F.I.	S.O.H.C.	MN183867	SWM31148
3828	3.8L	234	GALANT	2004 - 2009	V6	6G75	F.I.	S.O.H.C.	MN183867	SWM31148
3828	3.8L	234	MONTERO	2003 - 2008	V6	6G75	F.I.	S.O.H.C.	MN183867	SWM31148
4701	4.7L	287	RAIDER	2006 - 2007	V8	Power Tech 4.7	F.I.	S.O.H.C.	5012364AC	SWC10021
4701	4.7L	287	RAIDER	2008 - 2009	V8	Power Tech 4.7	F.I.	S.O.H.C.	-	SWG10011
mitsubishi - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
1237	1.2L	75	1200	1972 - 1973	4	A12	CARB		12033-H6200	SWN30026
1237	1.2L	75	210	1980 - 1981	4	A12A	CARB		12033-H8500	SWN30073
1237	1.2L	75	210	1982 ONLY	4	A12A	CARB		12033-H8500	SWN30073
1288	1.3L	79	B210	1974 ONLY	4	A13	CARB		12033-H6200	SWN30026
1397	1.4L	85	210	1979 ONLY	4	A14	CARB		12033-H8920	SWN30045
1397	1.4L	85	210	1979 - 1982	4	A14	CARB		12033-H8920	SWN30045
1397	1.4L	85	310	1979 - 1980	4	A14	CARB		12033-H8920	SWN30045
1397	1.4L	85	210	1979 ONLY	4	A14	CARB		12033-H8920	SWN30045
1397	1.4L	85	310	1979 ONLY	4	A14	CARB		12033-H8920	SWN30045
1397	1.4L	85	B210	1975 - 1978	4	A14	CARB		12033-H7200	SWN30045
1397	1.4L	85	B210	1977 - 1978	4	A14	CARB		12033-H7680	SWN30052
1488	1.5L	91	210	1979 - 1980	4	A15	CARB		12033-H9820	SWN30052
1488	1.5L	91	210	1981 - 1982	4	A15	CARB		12033-H9820	SWN30052
1488	1.5L	91	310	1981 ONLY	4	A15	CARB		12033-H9820	SWN30052
1488	1.5L	91	310	1982 ONLY	4	E15	CARB	S.O.H.C.	12033-50A00	SWN30057
1488	1.5L	91	SENTRA	1982 - 1983	4	E15S	CARB	S.O.H.C.	12033-50A00	SWN30057
1487	1.5L	91	PULSAR	1983 ONLY	4	E15T	F.I.	S.O.H.C.	12033-50A00	SWN30057
1595	1.6L	97	521	1972 - 1973	4	L16	CARB		12033-A3501	SWN30014
1595	1.6L	97.3	620	1972 ONLY	4	L16	CARB		12033-A3501	SWN30014
1595	1.6L	97.3	620	1973 ONLY	4	L16	CARB		12033-A3501	SWN30014
1595	1.6L	97	SRL 311	1966 - 1970	4	R16	CARB	O.H.V.	12033-14601	SWN30023
1595	1.6L	97	411	1965 - 1968	4	R16	CARB		12033-14601	SWN30023
1597	1.6L	97	PULSAR	1983 - 1984	4	E16	CARB	S.O.H.C.	12033-50A00	SWN30057
1597	1.6L	97	PULSAR	1985 - 1986	4	E16, E16i	CARB	S.O.H.C.	12033-61A01	SWN30057
1597	1.6L	97	SENTRA	1983 - 1986	4	E16	CARB	S.O.H.C.	12033-50A00	SWN30057
1597	1.6L	97	SENTRA	1987 - 1988	4	E16i, E16S	F.I.	S.O.H.C.	12033-50A00	SWN30057
1597	1.6L	97	PULSAR	1989 - 1990	4	GA16i	F.I.	S.O.H.C.	12033-84A11	SWN30097
1597	1.6L	97	SENTRA	1989 - 1990	4	GA16i	F.I.	S.O.H.C.	12033-84A11	SWN30097
1597	1.6L	97	NX	1991 - 1994	4	GA16DE	F.I.	S.O.H.C.	12033-57Y01	SWN30104
1597	1.6L	97	SENTRA	1991 - 1994	4	GA16DE	F.I.	S.O.H.C.	12033-57Y01	SWN30104
NISSAN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
NISSAN									
12010-H1061	DISC. 11-036		73.00	2.00	2.00		4.00		
12010-H9022	DISC. 11-037		75.00	2.00	2.00		4.00		
12010-H9512	DISC. 11-040		75.00	2.00	2.00		4.00		
12010-H6211	DISC. 11-041		73.00	2.00	2.00		4.00		
12010-H7684	DISC. 11-044		76.00	2.00	2.00		4.00		w/o CALIF E.C.S. w/ FUEL Pkg
12010-H7685	DISC. 11-044		76.00	2.00	2.00		4.00		w/ CALIF E.C.S.
12010-H7685	DISC. 11-044		76.00	2.00	2.00		4.00		w/ CALIF E.C.S.
12010-H7711	DISC. 11-044		76.00	2.00	2.00		4.00		w/ CALIF E.C.S., w/o FUEL Pkg
12010-H7711	DISC. 11-044		76.00	2.00	2.00		4.00		w/o CALIF E.C.S.
12010-H7711	DISC. 11-044		76.00	2.00	2.00		4.00		
12010-H8702	DISC. 11-047		76.00	1.20	2.00		4.00		w/o FUEL Pkg
12010-H9704	DISC. 11-048		76.00	1.20	2.00		4.00		w/ CALIF E.C.S.
12010-H9802	11-049	277	76.00	1.20	2.00		4.00		
12010-H9802	11-049	277	76.00	1.20	2.00		4.00		
12010-11M22	11-050	278	76.00	1.50	1.50		4.00		8 VALVE
12010-11M22	11-050	278	76.00	1.50	1.50		4.00		8 VALVE
12010-17M12	DISC. 11-051		76.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
12010-23002	DISC. 11-053		83.00	2.00	2.00		4.00		
12010-23002	DISC. 11-053		83.00	2.00	2.00		4.00		
12010-H2501	DISC. 11-054		83.00	2.00	2.00		4.00		8 VALVE
-	DISC. 11-055		87.20	2.00	2.50		4.00		1600 ROADSTER
-	NA		87.20	2.00	2.50		4.00		
12010-33M22	11-052	278	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	11-052	278	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	11-052	278	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	11-052	278	76.00	1.50	1.50		4.00		8 VALVE
12010-84A61	11-590	296	76.00	1.50	1.50		2.80		12 VALVE
12010-84A61	11-590	296	76.00	1.50	1.50		2.80		12 VALVE
A2010-57Y00	11-601	296	76.00	1.50	1.50		2.80		16 VALVE
A2010-57Y00	11-601	296	76.00	1.50	1.50		2.80		16 VALVE
NISSAN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
1597	1.6L	97	200SX	1995 - 1999	4	GA16DE	F.I.	S.O.H.C.	12033-1M200	SWN30116
1597	1.6L	97	SENTRA	1995 - 1999	4	GA16DE	F.I.	S.O.H.C.	12033-1M200	SWN30116
1598	1.6L	98	PULSAR	1987 ONLY	4	CA16DE	F.I.	D.O.H.C.	12033-55M00	SWN30111
1598	1.6L	98	NV200	2011 - 2015	4	HR16DE	F.I.	D.O.H.C.	12033-EE000	SWN30196
1598	1.6L	98	VERSA	2009 - 2012	4	HR16DE	F.I.	D.O.H.C.	12033-EE000	SWN30196
1598	1.6L	98	VERSA	2013 - 2015	4	HR16DE	F.I.	D.O.H.C.	12033-3HC2A	NA
1618	1.6L	99	JUKE	2010 - 2015	4	MR16DDT	F.I.	D.O.H.C.	12033-1KC0A	SWN30186
1680	1.7L	103	SENTRA	1983 - 1986	4	CD17	DIESEL		12033-16A10	SDN30088
1769	1.8L	108	SENTRA	2000 - 2002	4	QG18DE	F.I.	D.O.H.C.	12033-5M001	SWN30142
1769	1.8L	108	SENTRA	2003 - 2006	4	QG18DE	F.I.	D.O.H.C.	12033-5M060	SWN30142
1770	1.8L	108	610	1973 ONLY	4	L18	CARB	S.O.H.C.	12033-A8702	SWN30020
1770	1.8L	108	620	1974 ONLY	4	L18	CARB	S.O.H.C.	12033-A8702	SWN30020
1770	1.8L	108	710	1974 ONLY	4	L18	CARB	S.O.H.C.	12033-A8702	SWN30020
1797	1.8L	110	VERSA	2007 - 2010	4	MR18DE	F.I.	D.O.H.C.	12033-EN200	SWN30154
1797	1.8L	110	CUBE	2009 - 2012	4	MR18DE	F.I.	D.O.H.C.	12033-EN20A	SWN30154
1797	1.8L	110	VERSA	2011 - 2012	4	MR18DE	F.I.	D.O.H.C.	12033-EN20A	SWN30154
1797	1.8L	110	CUBE	2013 - 2015	4	MR18DE	F.I.	D.O.H.C.	12033-EN20C	NA
1798	1.8L	110	SENTRA	2013 - 2015	4	MRA8DE	F.I.	D.O.H.C.	12033-3RC0B	NA
1809	1.8L	110	200SX	1984 - 1986	4	CA18ET	F.I.	S.O.H.C.	12033-18F00	SWN30077
1809	1.8L	110	PULSAR	1988 - 1989	4	CA18DE	F.I.	D.O.H.C.	12033-D4210	SWN30090
1952	2.0L	119	200SX	1977 - 1979	4	L20B	CARB	S.O.H.C.	12033-U6001	SWN30048
1952	2.0L	119	510	1978 - 1979	4	L20B	CARB	S.O.H.C.	12033-U6001	SWN30048
1952	2.0L	119	610	1974 - 1976	4	L20B	CARB	S.O.H.C.	12033-U6001	SWN30048
1952	2.0L	119	620	1975 - 1979	4	L20B	CARB	S.O.H.C.	12033-U6001	SWN30048
1952	2.0L	119	710	1975 - 1977	4	L20B	CARB	S.O.H.C.	12033-U6001	SWN30048
1952	2.0L	119	PICKUP	1979 ONLY	4	L20B	CARB	S.O.H.C.	12033-W0815	SWN30048
1952	2.0L	119	720	1980 ONLY	4	L20B	CARB	S.O.H.C.	12033-W0815	SWN30048
1952	2.0L	119	PICKUP	1980 ONLY	4	L20B	CARB	S.O.H.C.	12033-W0815	SWN30048
1952	2.0L	119	200SX	1980 - 1981	4	Z20E	F.I.	S.O.H.C.	12033-N8510	SWN30086
1952	2.0L	119	510	1980 - 1981	4	Z20S	CARB	S.O.H.C.	12033-N8510	SWN30086
NISSAN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
A2010-0M210	11-680	307	76.00	1.50	-		2.80		16 VALVE
A2010-0M210	11-680	307	76.00	1.50	-		2.80		16 VALVE
12010-55M61	NA		78.00	1.50	1.50		2.80		SE, 16 VALVE
A2010-ED500	11-893	347	78.00	1.20	1.20		2.00		16 VALVE
A2010-ED500	11-893	347	78.00	1.20	1.20		2.00		16 VALVE
12010-3HC0A	NA		78.00						16 VALVE
A2010-1KC0A	NA		79.70	1.20	1.00		2.00		w/ TURBO, 16 VALVE
12010-17A02	DISC. 11-056		80.00	1.75	2.00		3.00		
A2010-5M010	11-869	342	80.00	1.20	1.20		2.50		16 VALVE
A2010-F4670	11-876	343	80.00	1.20	1.20		2.50		16 VALVE
12010-U2001	DISC. 11-057		85.00	2.00	2.00		4.00		
12010-U2001	DISC. 11-057		85.00	2.00	2.00		4.00		
12010-U2001	DISC. 11-057		85.00	2.00	2.00		4.00		
A2010-ED800	11-849	337	84.00	1.20	1.20		2.00		16 VALVE
A2010-ED80A	11-849	337	84.00	1.20	1.20		2.00		16 VALVE
A2010-ED80A	11-849	337	84.00	1.20	1.20		2.00		16 VALVE
A2010-ED80C	NA		79.70						16 VALVE
12010-3RC0B	NA		79.70						16 VALVE
12010-17F11	DISC. 11-058		83.00	1.50	1.50		2.80		w/ TURBO, 8 VALVE
12010-51E61	DISC. 11-768		83.00	1.50	1.50		2.80		SE, 16 VALVE
12010-U6001	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-U6001	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-U6001	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-U6001	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-U6001	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-U6021	11-059	278	85.00	2.00	2.00		4.00		8 VALVE
12010-04W11	11-060	278	85.00	2.00	2.00		4.00		8 VALVE
12010-04W11	11-060	278	85.00	2.00	2.00		4.00		8 VALVE
12010-N8701	11-064	279	85.00	1.50	1.50		4.00		8 VALVE
12010-N8701	11-064	279	85.00	1.50	1.50		4.00		8 VALVE
NISSAN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
1952	2.0L	119	720	1983 - 1986	4	Z20	CARB	S.O.H.C.	12033-N8520	SWN30086
1952	2.0L	119	PICKUP	1983 - 1986	4	Z20	CARB	S.O.H.C.	12033-N8520	SWN30086
1974	2.0L	120	200SX	1984 - 1989	4	CA20E	F.I.	S.O.H.C.	12033-04E10	SWN30053
1974	2.0L	120	STANZA	1984 - 1989	4	CA20E	F.I.	S.O.H.C.	12033-04E10	SWN30053
1974	2.0L	120	STANZA	1982 - 1983	4	CA20S	CARB	S.O.H.C.	12033-04E10	SWN30053
1982	2.0L	121	SRL 311	1967 - 1970	4	U20	CARB	O.H.V.	12033-25502	SWN30030
1998	2.0L	122	200SX	1995 - 1999	4	SR20DE	F.I.	D.O.H.C.	12033-53J10	SWN30102
1998	2.0L	122	NX	1991 - 1994	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	SWN30102
1998	2.0L	122	SENTRA	1991 - 1999	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	SWN30102
1998	2.0L	122	SENTRA	2000 - 2001	4	SR20DE	F.I.	D.O.H.C.	12033-4M802	SWN30123
1999	2.0L	122	SENTRA	2007 - 2010	4	MR20DE	F.I.	D.O.H.C.	12033-EN200	SWN30154
1999	2.0L	122	SENTRA	2011 - 2012	4	MR20DE	F.I.	D.O.H.C.	12033-EN20A	SWN30154
1999	2.0L	122	NV200	2014 - 2015	4	MR20DE	F.I.	D.O.H.C.	-	NA
1999	2.0L	122	NV200 TAXI	2014 - 2015	4	MR20DE	F.I.	D.O.H.C.	-	NA
2164	2.2L	132	720	1981 - 1982	4	SD22	DIESEL		12033-R8112	SDN31027
2164	2.2L	132	PICKUP	1981 - 1982	4	SD22	DIESEL		12033-R8112	SDN31027
2181	2.2L	133	720	1981 - 1982	4	Z22	CARB	S.O.H.C.	12033-06W20	SWN30054
2181	2.2L	133	PICKUP	1981 - 1982	4	Z22	CARB	S.O.H.C.	12033-06W20	SWN30054
2181	2.2L	133	200SX	1982 - 1983	4	Z22E	F.I.	S.O.H.C.	12033-06W20	SWN30054
2389	2.4L	146	720	1983 - 1984	4	Z24	CARB	S.O.H.C.	12033-30W10	SWN30059
2389	2.4L	146	PICKUP	1983 - 1984	4	Z24	CARB	S.O.H.C.	12033-30W10	SWN30059
2389	2.4L	146	240Z	1972 - 1973	6	L24	CARB		12033-E3100	SWN30034
2389	2.4L	146	720	1985 - 1986	4	Z24, Z24i	CARB	S.O.H.C.	12033-21G00	SWN30085
2389	2.4L	146	PATHFINDER	1987 ONLY	4	Z24i	F.I.	S.O.H.C.	12033-21G00	SWN30085
2389	2.4L	146	PICKUP	1985 - 1989	4	Z24, Z24i	C & F	S.O.H.C.	12033-21G00	SWN30085
2389	2.4L	146	VAN	1987 - 1989	4	Z24i	F.I.	S.O.H.C.	12033-21G10	SWN30085
2389	2.4L	146	240SX	1989 - 1990	4	KA24E	F.I.	S.O.H.C.	12033-53F01	SWN30096
2389	2.4L	146	AXXESS	1990 ONLY	4	KA24E	F.I.	S.O.H.C.	12033-53F01	SWN30096
2389	2.4L	146	STANZA	1990 - 1992	4	KA24E	F.I.	S.O.H.C.	12033-53F01	SWN30096
2389	2.4L	146	240SX	1991 - 1999	4	KA24DE	F.I.	D.O.H.C.	12033-70F00	SWN30096
2389	2.4L	146	ALTIMA	1993 - 1997	4	KA24DE	F.I.	D.O.H.C.	12033-4E100	SWN30118

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
12010-82W11	DISC. 11-066		85.00	1.50	1.50		4.00		8 VALVE
12010-W4001	DISC. 11-066		85.00	1.50	1.50		4.00		8 VALVE
12010-10F11	11-062	279	84.50	1.50	1.50		4.00		8 VALVE
12010-10F11	11-062	279	84.50	1.50	1.50		4.00		8 VALVE
12010-D1811	DISC. 11-063		84.50	1.50	1.50		4.00		8 VALVE
-	NA		87.20	2.00	2.00		4.00		2000 ROADSTER
A2010-63J00	11-602	297	86.00	1.50	1.50		3.00		16 VALVE
A2010-63J00	11-602	297	86.00	1.50	1.50		3.00		16 VALVE
A2010-63J00	11-602	297	86.00	1.50	1.50		3.00		16 VALVE
A2010-4M860	NA		86.00	1.20	1.20		2.50		16 VALVE
A2010-ET000	NA		84.00	1.20	1.20		2.00		16 VALVE
A2010-ET00A	NA		84.00	1.20	1.20		2.00		16 VALVE
-	NA		84.00						NISSAN Engine, 16 VALVE
-	NA		84.00						NISSAN Engine, 16 VALVE
12010-36W10	11-068	279	83.00	2.50	2.00		4.50		
12010-36W10	11-068	279	83.00	2.50	2.00		4.50		
12010-06W21	11-069	279	87.00	1.50	1.50		4.00		8 VALVE
12010-06W21	11-069	279	87.00	1.50	1.50		4.00		8 VALVE
12010-D8111	11-236	286	87.00	1.50	1.50		4.00		8 VALVE
12010-30W11	11-070	280	89.00	1.50	1.50		4.00		8 VALVE
12010-30W11	11-070	280	89.00	1.50	1.50		4.00		8 VALVE
12010-H2701	11-071	280	83.00	2.00	2.00		4.00		
12010-83W11	11-238	287	89.00	2.00	1.50		4.00		8 VALVE
12010-83W11	11-238	287	89.00	2.00	1.50		4.00		8 VALVE
12010-83W11	11-238	287	89.00	2.00	1.50		4.00		8 VALVE
12010-83W11	11-238	287	89.00	2.00	1.50		4.00		8 VALVE
12010-40F10	11-600	296	89.00	1.50	1.50		2.80		12 VALVE
A2010-30R10	11-600	296	89.00	1.50	1.50		2.80		12 VALVE
A2010-30R10	11-600	296	89.00	1.50	1.50		2.80		12 VALVE
A2010-53F00	11-598	296	89.00	1.50	1.50		2.80		16 VALVE
A2010-1E400	11-609	297	89.00	1.50	1.50		2.80		16 VALVE

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U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
2389	2.4L	146	PICKUP	1990 - 1999	4	KA24E	F.I.	S.O.H.C.	12033-86G00	SWN30118
2389	2.4L	146	ALTIMA	2000 - 2001	4	KA24DE	F.I.	D.O.H.C.	12033-0Z810	SWN30143
2389	2.4L	146	FRONTIER	2001 ONLY	4	KA24DE	F.I.	D.O.H.C.	12033-0Z810	SWN30143
2389	2.4L	146	FRONTIER	2002 - 2004	4	KA24DE	F.I.	D.O.H.C.	12033-0Z810	SWN30143
2389	2.4L	146	ALTIMA	1998 - 1999	4	KA24DE	F.I.	D.O.H.C.	12033-9E000	SWN30143
2389	2.4L	146	FRONTIER	1998 - 1999	4	KA24DE	F.I.	D.O.H.C.	12033-9E000	SWN30143
2389	2.4L	146	XTERRA	1999 ONLY	4	KA24DE	F.I.	D.O.H.C.	12033-9E000	SWN30143
2389	2.4L	146	FRONTIER	2000 ONLY	4	KA24DE	F.I.	D.O.H.C.	12033-9E000	SWN30143
2389	2.4L	146	XTERRA	2000 ONLY	4	KA24DE	F.I.	D.O.H.C.	12033-9E000	SWN30143
2389	2.4L	146	XTERRA	2001 - 2004	4	KA24DE	F.I.	D.O.H.C.	12033-0Z810	SWN30143
2393	2.4L	146	810	1977 - 1978	6	L24E	CARB		12033-E3100	SWN30034
2393	2.4L	146	810	1979 - 1980	6	L24E	CARB		12033-A8600	SWN30034
2393	2.4L	146	810	1981 ONLY	6	L24E	CARB		12033-W2420	SWN30064
2393	2.4L	146	MAXIMA	1981 ONLY	6	L24E	C & F		12033-W2420	SWN30064
2393	2.4L	146	MAXIMA	1982 - 1984	6	L24E	C & F		12033-W3100	SWN30065
2488	2.5L	152	720	1983 - 1986	4	SD25	DIESEL		12033-L2006	SDN31023
2488	2.5L	152	PICKUP	1983 - 1986	4	SD25	DIESEL		12033-L2006	SDN31023
2488	2.5L	152	ALTIMA	2002 - 2006	4	QR25DE	F.I.	D.O.H.C.	12033-8H301	SWN30140
2488	2.5L	152	SENTRA SE-R	2002 - 2003	4	QR25DE	F.I.	D.O.H.C.	12033-8J000	SWN30140
2488	2.5L	152	SENTRA SE-R	2004 - 2006	4	QR25DE	F.I.	D.O.H.C.	12033-8H301	SWN30140
2488	2.5L	152	FRONTIER	2005 - 2008	4	QR25DE	F.I.	D.O.H.C.	12033-EA000	SWN30140
2488	2.5L	152	FRONTIER	2009 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-EA00B	SWN30140
2488	2.5L	152	ALTIMA	2007 - 2010	4	QR25DE	F.I.	D.O.H.C.	12033-JA00B	SWN30189
2488	2.5L	152	ALTIMA HYBIRD	2007 - 2010	4	QR25DE	F.I.	D.O.H.C.	12033-JA00B	SWN30189
2488	2.5L	152	SENTRA SE-R	2009 - 2012	4	QR25DE	F.I.	D.O.H.C.	12033-JA00B	SWN30189
2488	2.5L	152	SENTRA SE-R	2007 - 2008	4	QR25DE	F.I.	D.O.H.C.	12033-ET80B	SWN30189
2488	2.5L	152	ALTIMA	2011 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-JA00B	SWN30189
2488	2.5L	152	ALTIMA HYBIRD	2011 - 2012	4	QR25DE	F.I.	D.O.H.C.	12033-JA00B	SWN30189
2488	2.5L	152	ROGUE	2008 - 2012	4	QR25DE	F.I.	D.O.H.C.	12033-JG30A	SWN30189
2488	2.5L	152	ROGUE	2013 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-JG30A	SWN30189
2488	2.5L	152	ALTIMA	2013 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-3TA0A	NA
2488	2.5L	152	PATHFINDER H	2014 - 2015	4	QR25DER	F.I.	D.O.H.C.	-	NA

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
12010-86G20	11-676	306	89.00	1.50	1.50		2.80		12 VALVE
A2010-1Z102	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-1Z102	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-8Z310	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E000	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E000	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E000	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E001	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E002	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
A2010-9E002	11-755	320	89.00	1.20	1.20		2.50		16 VALVE
12010-A8601	DISC. 11-073		83.00	2.00	2.00		4.00		
12010-H2501	11-076	280	83.00	2.00	2.00		4.00		12 VALVE
12010-W2402	DISC. 11-073		83.00	1.50	2.00		4.00		12 VALVE
12010-W2402	DISC. 11-073		83.00	1.50	2.00		4.00		12 VALVE
12010-51L01	DISC. 11-078		83.00	1.50	1.50		4.00		
12010-29W00	DISC. 11-079		89.00	2.50	2.00		4.50		
12010-29W00	DISC. 11-079		89.00	2.50	2.00		4.50		
A2010-8J000	11-852	338	89.00	1.20	1.20		2.50		16 VALVE
A2010-8J000	11-852	338	89.00	1.20	1.20		2.50		16 VALVE
A2010-8J011	11-852	338	89.00	1.20	1.20		2.50		16 VALVE
A2010-EA000	11-881	344	89.00	1.20	1.20		2.50		16 VALVE
A2010-EA001	11-881	344	89.00	1.20	1.20		2.50		16 VALVE
A2010-JA00C	11-894	348	89.00	1.20	1.20		2.00		16 VALVE
A2010-JA00C	11-894	348	89.00	1.20	1.20		2.00		16 VALVE
A2010-JA00C	11-894	348	89.00	1.20	1.20		2.00		16 VALVE
A2010-ET81A	NA		89.00	1.20	1.20		2.00		16 VALVE
A2010-JA01C	NA		89.00	1.20	1.20		2.00		16 VALVE
A2010-JA01C	NA		89.00	1.20	1.20		2.00		16 VALVE
A2010-JG31A	NA		89.00	1.20	1.20		2.00		16 VALVE
A2010-JG31B	NA		89.00	1.20	1.20		2.00		16 VALVE
12010-3TA0B	NA		89.00						SEDAN, 16 VALVE
-	NA		89.00						HYBRID, 16 VALVE

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U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
2753	2.8L	168	280Z	1975 - 1978	6	L28E	F.I.	S.O.H.C.	12033-N4200	SWN30047
2753	2.8L	168	280ZX	1979 ONLY	6	L28E	F.I.	S.O.H.C.	12033-P8370	SWN30047
2753	2.8L	168	280ZX	1980 ONLY	6	L28E	F.I.	S.O.H.C.	12033-P8370	SWN30047
2753	2.8L	168	280ZX	1981 - 1983	6	L28E	F.I.	S.O.H.C.	12033-P7910	SWN30066
2753	2.8L	168	280ZX	1981 - 1983	6	L28ET	F.I.	S.O.H.C.	12033-P9010	SWN30066
2753	2.8L	168	810	1981 ONLY	6	LD28	DIESEL		12033-60L00	SDN30067
2753	2.8L	168	MAXIMA	1981 - 1983	6	LD28	DIESEL		12033-60L00	SDN30067
2960	3.0L	181	300ZX	1984 - 1989	V6	VG30E	F.I.	S.O.H.C.	12033-21V01	SWN30058
2960	3.0L	181	MAXIMA	1985 - 1994	V6	VG30E	F.I.	S.O.H.C.	12033-21V01	SWN30058
2960	3.0L	181	300ZX	1984 - 1989	V6	VG30ET	F.I.	S.O.H.C.	12033-21V01	SWN30058
2960	3.0L	181	PICKUP	1986 - 1995	V6	VG30i	F.I.	S.O.H.C.	12033-15G00	SWN30093
2960	3.0L	181	PATHFINDER	1987 - 1995	V6	VG30i	F.I.	S.O.H.C.	12033-15G00	SWN30093
2960	3.0L	181	200SX	1987 - 1989	V6	VG30E	F.I.	S.O.H.C.	12033-21V01	SWN30058
2960	3.0L	181	PATHFINDER	1990 - 1995	V6	VG30E	F.I.	S.O.H.C.	12033-17V01	SWN30058
2960	3.0L	181	PICKUP	1990 - 1995	V6	VG30E	F.I.	S.O.H.C.	12033-17V01	SWN30058
2960	3.0L	181	MAXIMA	1992 - 1994	V6	VE30DE	F.I.	D.O.H.C.	12033-96E01	SWN30058
2960	3.0L	181	QUEST	1993 - 1998	V6	VG30E	F.I.	S.O.H.C.	12033-17V01	SWN30058
2960	3.0L	181	QUEST	1993 - 1998	V6	VG30E	F.I.	S.O.H.C.	12033-17V01	SWN30058
2960	3.0L	181	300ZX	1990 - 1996	V6	VG30DE	F.I.	D.O.H.C.	12033-F6511	SWN30094
2960	3.0L	181	300ZX	1990 - 1996	V6	VG30DETT	F.I.	D.O.H.C.	12033-F6511	SWN30094
2987	3.0L	182	MAXIMA	1995 - 1999	V6	VQ30DE	F.I.	D.O.H.C.	12033-38U01	SWN30115
2987	3.0L	182	MAXIMA	2000 - 2001	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y900	SWN30115
3272	3.3L	200	QUEST	2000 - 2003	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	FRONTIER	1999 ONLY	V6	VG33E	F.I.	S.O.H.C.	12033-7B000	SWN30120
3272	3.3L	200	QUEST	1999 - 2000	V6	VG33E	F.I.	S.O.H.C.	12033-7B000	SWN30120
NISSAN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
12010-Y4111	11-081	280	86.00	2.00	2.00		4.00		12 VALVE
12010-Y4131	11-081	280	86.00	2.00	2.00		4.00		12 VALVE
12010-Y8621	11-082	281	86.00	2.00	2.00		4.00		12 VALVE
12010-P7912	11-084	281	86.00	1.50	2.00		4.00		12 VALVE
12010-P9012	DISC. 11-085		86.00	1.50	2.00		4.00		w/ TURBO, 12 VALVE
12010-W2502	DISC. 11-086		84.50	2.00	2.00		4.00		
12010-W2502	DISC. 11-086		84.50	2.00	2.00		4.00		
12010-V7101	DISC. 11-088		87.00	1.50	1.50		2.80		12 VALVE
12010-V7101	DISC. 11-088		87.00	1.50	1.50		2.80		12 VALVE
12010-02P01	DISC. 11-089		87.00	1.50	1.50		2.80		w/ TURBO, 12 VALVE
12010-13G63	DISC. 11-607		87.00	2.00	1.50		2.80		12 VALVE
A2010-13G61	DISC. 11-607		87.00	2.00	1.50		2.80		12 VALVE
12010-V7175	11-603	297	87.00	1.50	1.50		2.80		12 VALVE
A2010-10G03	11-603	297	87.00	1.50	1.50		2.80		12 VALVE
A2010-10G03	11-603	297	87.00	1.50	1.50		2.80		12 VALVE
A2010-96E00	11-675	305	87.00	1.50	1.50		2.80		24 VALVE
A2010-1B100	11-681	307	87.00	1.50	1.50		2.80		CYL #1,3,5, 12 VALVE
A2010-1B110	11-681	307	87.00	1.50	1.50		2.80		CYL #2,4,6, 12 VALVE
A2010-30P00	11-727	314	87.00	1.50	1.50		2.80		24 VALVE
A2010-30P10	NA		87.00	1.50	1.50		2.80		w/ TURBO, 24 VALVE
A2010-38U10	11-711	311	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y900	11-711	311	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Z000	NA		91.50	1.50	1.50		2.80		12 VALVE
A2010-2Z062	NA		91.50	1.50	1.50		2.80		12 VALVE
A2010-2Z062	NA		91.50	1.50	1.50		2.80		12 VALVE

NISSAN

NISSAN - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
3272	3.3L	200	FRONTIER	2000 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	FRONTIER	2000 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	FRONTIER	2000 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	FRONTIER	2000 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	PATHFINDER	1996 - 2000	V6	VG33E	F.I.	S.O.H.C.	12033-0W000	SWN30120
3272	3.3L	200	PATHFINDER	1996 - 2000	V6	VG33E	F.I.	S.O.H.C.	12033-0W000	SWN30120
3272	3.3L	200	XTERRA	1999 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	XTERRA	1999 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	XTERRA	2002 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3272	3.3L	200	XTERRA	2002 - 2004	V6	VG33E	F.I.	S.O.H.C.	12033-7Z800	SWN30120
3498	3.5L	213	PATHFINDER	2001 - 2004	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W005	SWN30131
3498	3.5L	213	350Z ROADSTER	2003 - 2005	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	ALTIMA	2002 - 2006	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	ALTIMA SE-R	2004 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	MAXIMA	2002 - 2003	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	MAXIMA	2004 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	MURANO	2003 - 2007	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	QUEST	2004 - 2009	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3498	3.5L	213	350Z ROADSTER	2006 - 2008	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	SWN30162
3498	3.5L	213	PATHFINDER	2013 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP10D	SWN30191
3498	3.5L	213	ALTIMA	2007 - 2011	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	SWN30191
3498	3.5L	213	ALTIMA	2012 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	SWN30191
3498	3.5L	213	MAXIMA	2009 - 2011	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	SWN30191
3498	3.5L	213	MAXIMA	2012 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	SWN30191
3498	3.5L	213	MURANO	2008 - 2011	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3498	3.5L	213	MURANO	2012 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3498	3.5L	213	QUEST	2010 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3699	3.7L	226	370Z	2009 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3699	3.7L	226	370Z	2009 - 2012	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20C	SWN30162
3699	3.7L	226	370Z	2013 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12033-1EA0B	NA
3699	3.7L	226	370Z	2013 - 2015	V6	VQ37VHR	F.I.	D.O.H.C.	12033-1EA0B	NA
3799	3.8L	232	GT-R	2009 - 2015	V6	VR38DETT	F.I.	D.O.H.C.	12033-JF00A	NA
NISSAN - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
NISSAN									
A2010-5S600	11-728	314	91.50	1.50	1.50		2.80		CYL #1,2,6, 12VALVE
A2010-5S661	11-728	314	91.50	1.50	1.50		2.80		CYL #3,4,5, 12VALVE
A2010-5S700	11-728	314	91.50	1.50	1.50		2.80		w/Supercharger, CYL #1,2,6, 12VALVE
A2010-5S761	11-728	314	91.50	1.50	1.50		2.80		w/Supercharger, CYL #3,4,5, 12VALVE
A2010-1W200	11-728	314	91.50	1.50	1.50		2.80		CYL #1,2,6, 12VALVE
A2010-1W261	11-728	314	91.50	1.50	1.50		2.80		CYL #3,4,5, 12VALVE
A2010-5S600	11-728	314	91.50	1.50	1.50		2.80		SE, XE, CYL #1,2,6, 12VALVE
A2010-5S661	11-728	314	91.50	1.50	1.50		2.80		SE, XE, CYL #3,4,5, 12VALVE
A2010-5S700	11-728	314	91.50	1.50	1.50		2.80		w/Supercharger, CYL #1,2,6, 12VALVE
A2010-5S761	11-728	314	91.50	1.50	1.50		2.80		w/Supercharger, CYL #3,4,5, 12VALVE
A2010-4W160	NA		95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-7Y001	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-7Y001	11-860	339	95.50	1.20	1.20		2.50		24 VALVE
A2010-JK20B	NA		95.50	1.20	1.20		2.00		24 VALVE
12010-JA10C	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-JA10A	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
A2010-JA11B	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
12010-9N00B	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
12010-9N00C	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
A2010-JP00C	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
A2010-JP00D	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
A2010-JP00D	11-907	351	95.50	1.20	1.20		2.00		24 VALVE
A2010-EY00C	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-EY00D	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-1EA0A	NA		95.50	1.20	1.20		2.00		RIGHT, 24 VALVE
A2010-1EA0B	NA		95.50	1.20	1.20		2.00		LEFT, 24 VALVE
A2010-JF00A	NA		95.50						w/Supercharger, 24 VALVE
NISSAN - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
NISSAN										
3954	4.0L	241	FRONTIER	2005 - 2008	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	FRONTIER	2009 - 2011	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	NV1500	2011 ONLY	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	NV2500HD	2011 ONLY	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	PATHFINDER	2005 - 2008	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	PATHFINDER	2009 - 2011	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	XTERRA	2005 - 2008	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	XTERRA	2009 - 2011	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131
3954	4.0L	241	FRONTIER	2012 - 2015	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3954	4.0L	241	NV1500	2012 - 2015	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3954	4.0L	241	NV2500HD	2012 - 2015	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3954	4.0L	241	NV PASSENGER	2012 - 2015	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3954	4.0L	241	PATHFINDER	2012 ONLY	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
3954	4.0L	241	XTERRA	2012 - 2015	V6	VQ40DE	F.I.	D.O.H.C.	12033-JP00A	SWN30191
5552	5.6L	339	ARMADA	2004 - 2007	V8	VK56DE	F.I.	D.O.H.C.	12033-7S001	SWN30149
5552	5.6L	339	PATHFINDER	2004 - 2007	V8	VK56DE	F.I.	D.O.H.C.	12033-7S001	SWN30149
5552	5.6L	339	PATHFINDER	2008 - 2009	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	TITAN	2004 - 2007	V8	VK56DE	F.I.	D.O.H.C.	12033-7S001	SWN30149
5552	5.6L	339	TITAN	2008 - 2009	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	ARMADA	2008 - 2015	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	NV2500HD	2011 - 2015	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	NV3500HD	2011 - 2015	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	NV PASSENGER	2012 - 2015	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	PATHFINDER	2010 - 2012	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
5552	5.6L	339	TITAN	2010 - 2015	V8	VK56DE	F.I.	D.O.H.C.	12033-ZE00A	SWN30149
NISSAN - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
NISSAN									
12010-EA200	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA20B	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA20B	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA20B	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA200	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA20B	11-878	344	95.50	1.20	1.20		2.50		24 VALVE
12010-EA21B	NA		95.50	1.20	1.20		2.00		24 VALVE
12010-EA21B	NA		95.50	1.20	1.20		2.00		24 VALVE
12010-EA21B	NA		95.50	1.20	1.20		2.00		24 VALVE
12010-EA21B	NA		95.50	1.20	1.20		2.00		24 VALVE
12010-EA21B	NA		95.50	1.20	1.20		2.00		24 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-7S000	11-879	344	98.00	1.50	1.50		2.50		32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		S, SV MODEL, 32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		S, SV MODEL, 32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		S, SV MODEL, 32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		32 VALVE
A2010-1LU0A	NA		98.00	1.50	1.50		2.50		32 VALVE
NISSAN - END									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

SUBARU

1189	1.2L	73	JUSTY	1987 - 1988	3	EF12	CARB	S.O.H.C.	480035800	SWF20054
1189	1.2L	73	JUSTY	1989 - 1994	3	EF12	C & F	S.O.H.C.	12033KA151	SWF20054
1267	1.3L	77	FF-1 1300G	1972 ONLY	H4	EA62	CARB	O.H.V.	880038600	SWF20010
1361	1.4L	83	LEONE 1400	1973 - 1975	H4	EA63	CARB	O.H.V.	380030100	SWF20014
1361	1.4L	83	LEONE 1400	1976 ONLY	H4	EA63	CARB	O.H.V.	380030100	SWF20014
1361	1.4L	83	LEONE 1600	1976 ONLY	H4	EA63	CARB	O.H.V.	380030100	SWF20014
1595	1.6L	97	LEONE 1600	1976 - 1987	H4	EA71	CARB	O.H.V.	380034310	SWF20017
1595	1.6L	97	BRAT	1978 - 1981	H4	EA71	CARB	O.H.V.	380034310	SWF20017
1595	1.6L	97	DL SEDAN	1978 - 1981	H4	EA71	CARB	O.H.V.	380034320	SWF20017
1595	1.6L	97	FE	1978 - 1979	H4	EA71	CARB	O.H.V.	380034320	SWF20017
1595	1.6L	97	GF	1978 - 1979	H4	EA71	CARB	O.H.V.	380034320	SWF20017
1595	1.6L	97	GL SEDAN	1978 - 1981	H4	EA71	CARB	O.H.V.	380034320	SWF20017
1595	1.6L	97	GLF	1980 - 1981	H4	EA71	CARB	O.H.V.	380034320	SWF20017
1781	1.8L	109	BRAT	1982 - 1986	H4	EA81	CARB	O.H.V.	480037100	SWF20039
1781	1.8L	109	DL SEDAN	1982 - 1984	H4	EA81	CARB	O.H.V.	480037100	SWF20039
1781	1.8L	109	GL SEDAN	1982 - 1986	H4	EA81	CARB	O.H.V.	480037100	SWF20039
1781	1.8L	109	GLF	1982 ONLY	H4	EA81	CARB	O.H.V.	480037100	SWF20039
1781	1.8L	109	LEONE 1800	1980 - 1986	H4	EA81	CARB	O.H.V.	480037100	SWF20039
1781	1.8L	109	BRAT	1983 - 1984	H4	EA81	F.I.	O.H.V.	480037100	SWF20039
1781	1.8L	109	GL SEDAN	1983 - 1984	H4	EA81	F.I.	O.H.V.	480037100	SWF20039
1781	1.8L	109	LEONE 1800	1983 - 1984	H4	EA81	F.I.	O.H.V.	480037100	SWF20039
1781	1.8L	109	DL TBI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL TBI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL TBI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL TBI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 SEDAN	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 SEDAN	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 TBI	1987 - 1988	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 TBI	1987 - 1988	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LOYALE	1990 - 1994	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LOYALE	1990 - 1994	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT SEDAN	1997 - 1992	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT SEDAN	1997 - 1992	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT-6 SEDAN	1997 - 1992	H4	EA82	F.I.	S.O.H.C.	12033AA060	SWF20057
1781	1.8L	109	XT-6 SEDAN	1997 - 1992	H4	EA82	F.I.	S.O.H.C.	12033AA060	SWF20057
SUBARU - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
SUBARU									
12006KA062	DISC. 11-620		78.00	1.20	1.50		2.80		9 VALVE
12006KA062	DISC. 11-620		78.00	1.20	1.50		2.80		9 VALVE
880058610	DISC. 11-134		82.00	2.00	2.00		4.00		
380050100	DISC. 11-135		85.00	2.00	2.00		4.00		
380057000	DISC. 11-136		85.00	2.00	2.00		4.00		STD. TRANS
380057000	DISC. 11-136		85.00	2.00	2.00		4.00		DL, GF, Std TRANS
380054300	DISC. 11-137		92.00	2.00	2.00		4.00		DL, FE, GF, GL, GLF, Auto TRANS
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
380054320	DISC. 11-137		92.00	2.00	2.00		4.00		8 VALVE
480057110	DISC. 11-138		92.00	1.20	1.50		4.00		8 VALVE
480057110	DISC. 11-138		92.00	1.20	1.50		4.00		8 VALVE
480057110	DISC. 11-138		92.00	1.20	1.50		4.00		8 VALVE
480057110	DISC. 11-138		92.00	1.20	1.50		4.00		8 VALVE
480057110	DISC. 11-138		92.00	1.20	1.50		4.00		8 VALVE
480057300	DISC. 11-139		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
480057300	DISC. 11-139		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
480057300	DISC. 11-139		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		T.B.I, RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		T.B.I, LEFT, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA030	11-610	297	92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA030	11-610	297	92.00	1.20	1.50		4.00		LEFT, 8 VALVE
SUBARU - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
SUBARU										
1781	1.8L	109	DL COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL SEDAN	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL SEDAN	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL SEDAN	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL SEDAN	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 WAGON	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX SEDAN	1987 - 1988	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX SEDAN	1987 - 1988	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT COUPE	1987 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT-6 COUPE	1988 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA060	SWF20057
1781	1.8L	109	XT-6 COUPE	1988 - 1989	H4	EA82	CARB	S.O.H.C.	12033AA060	SWF20057
1781	1.8L	109	GL MFI	1987 - 1988	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 MFI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LOYALE	1990 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX MFI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT MFI	1987 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT-6 MFI	1988 - 1989	H4	EA82	F.I.	S.O.H.C.	12033AA060	SWF20057
1781	1.8L	109	GL TBI	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 TBI	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LEONE 1800	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	BRAT	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	DL SEDAN	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL SEDAN	1985 - 1986	H4	EA82	C & F	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 SEDAN	1985 - 1986	H4	EA82	C & F	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LEONE 1800	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT SEDAN	1985 - 1986	H4	EA82	C & F	S.O.H.C.	12033AA000	SWF20057
SUBARU - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
SUBARU									
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12013AA000	DISC. 11-616		92.00	1.20	1.50		4.00		RIGHT, 8 VALVE
12018AA000	DISC. 11-616		92.00	1.20	1.50		4.00		LEFT, 8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		M.P.I., 8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		8 VALVE
12006AA240	DISC. 11-712		92.00	1.20	1.50		4.00		8 VALVE
12006AA060	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA060	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA060	NA		92.00	1.20	1.50		4.00		THROTTLE BODY, 8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
12006AA090	NA		92.00	1.20	1.50		4.00		8 VALVE
SUBARU - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
SUBARU										
1781	1.8L	109	BRAT	1985 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL SEDAN	1985 - 1988	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	GL-10 SEDAN	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LEONE 1800	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	LOYALE	1990 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	RX SEDAN	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1781	1.8L	109	XT SEDAN	1985 - 1987	H4	EA82	F.I.	S.O.H.C.	12033AA000	SWF20057
1820	1.8L	111	IMPREZA	1993 - 1996	H4	EJ18	F.I.	S.O.H.C.	12033AA090	SWF20043
1820	1.8L	111	IMPREZA	1993 - 1996	H4	EJ18	F.I.	S.O.H.C.	12033AA090	SWF20043
1820	1.8L	111	IMPREZA	1997 ONLY	H4	EJ18	F.I.	S.O.H.C.	12033AA090	SWF20043
1994	2.0L	122	IMPREZA WRX	2002 - 2006	H4	EJ20	F.I.	D.O.H.C.	12033AD190	SWF20060
1995	2.0L	122	IMPREZA	2011 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	SWF20073
1995	2.0L	122	IMPREZA	2011 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	SWF20073
1995	2.0L	122	XV CROSSTREK	2013 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	SWF20073
1995	2.0L	122	XV CROSSTREK	2013 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	SWF20073
1998	2.0L	122	BRZ	2012 - 2015	H4	FA20	F.I.	D.O.H.C.	12033AC300	NA
1998	2.0L	122	BRZ	2012 - 2015	H4	FA20	F.I.	D.O.H.C.	12033AC300	NA
2212	2.2L	135	LEGACY	1991 - 1994	H4	EJ22	F.I.	S.O.H.C.	12033AA390	SWF20067
2212	2.2L	135	LEGACY	1991 - 1994	H4	EJ22	F.I.	S.O.H.C.	12033AA390	SWF20067
2212	2.2L	135	IMPREZA	1996 - 1999	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	IMPREZA	1996 - 1999	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	LEGACY	1990 - 1996	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	LEGACY	1990 - 1996	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	IMPREZA	1997 - 1998	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	LEGACY	1997 - 1998	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	LEGACY	1999 ONLY	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2212	2.2L	135	OUTBACK H4	2001 ONLY	H4	EJ22	F.I.	S.O.H.C.	12033AA210	SWF20045
2457	2.5L	150	LEGACY	1996 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
2457	2.5L	150	LEGACY	1996 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
2457	2.5L	150	FORESTER	1998 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
2457	2.5L	150	IMPREZA	1998 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
2457	2.5L	150	LEGACY	1997 - 1999	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
2457	2.5L	150	OUTBACK H4	1996 - 1999	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	SWF20064
SUBARU - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
SUBARU									
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12006AA210	NA		92.00	1.20	1.50		4.00		w/ TURBO, 8 VALVE
12013AA890	NA		87.90	1.20	1.50		3.00		RIGHT, 16 VALVE
12018AA890	NA		87.90	1.20	1.50		3.00		LEFT, 16 VALVE
12006AA340	NA		87.90	1.20	1.50		3.00		16 VALVE
-	NA		92.00	1.20	1.20		2.50		16 VALVE
12013AB490	NA		84.00	1.00	1.00		2.00		RIGHT, 16 VALVE
12018AB490	NA		84.00	1.00	1.00		2.00		LEFT, 16 VALVE
12013AB690	NA		84.00	1.00	1.00		2.00		RIGHT, 16 VALVE
12018AB690	NA		84.00	1.00	1.00		2.00		LEFT, 16 VALVE
12013AB610	NA		86.00	1.20	1.00		2.00		RIGHT, w/TURBO, 16 VALVE
12018AB610	NA		86.00	1.20	1.00		2.00		LEFT, w/ TURBO, 16 VALVE
12013AA340	NA		96.90	1.50	1.50		3.00		RIGHT, w/ TURBO, 16 VALVE
12018AA340	NA		96.90	1.50	1.50		3.00		LEFT, w/ TURBO, 16 VALVE
12013AA231	11-612	298	96.90	1.20	1.50		3.00		RIGHT, 16 VALVE
12018AA231	11-612	298	96.90	1.20	1.50		3.00		LEFT, 16 VALVE
12013AA231	11-612	298	96.90	1.20	1.50		3.00		RIGHT, 16 VALVE
12018AA231	11-612	298	96.90	1.20	1.50		3.00		LEFT, 16 VALVE
12006AB650	NA		96.90	1.20	1.50		3.00		16 VALVE
12006AB650	NA		96.90	1.20	1.50		3.00		16 VALVE
12006AA990	NA		96.90	1.20	1.50		3.00		16 VALVE
12206AA990	NA		96.90	1.20	1.50		3.00		16 VALVE
12013AB020	DISC. 11-789		99.50	1.20	1.50		2.80		RIGHT, 16 VALVE
12018AB020	DISC. 11-789		99.50	1.20	1.50		2.80		LEFT, 16 VALVE
12006AA410	DISC. 11-787		99.50	1.20	1.50		2.80		16 VALVE
12006AA410	DISC. 11-787		99.50	1.20	1.50		2.80		16 VALVE
12006AA410	DISC. 11-787		99.50	1.20	1.50		2.80		16 VALVE
12006AA410	DISC. 11-787		99.50	1.20	1.50		2.80		16 VALVE
SUBARU - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
SUBARU										
2457	2.5L	150	BAJA	2003 - 2005	H4	EJ251	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	FORESTER	1999 - 2003	H4	EJ251	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	IMPREZA	1999 - 2002	H4	EJ251	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	LEGACY	2000 - 2004	H4	EJ251	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	OUTBACK H4	2000 - 2004	H4	EJ251	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	LEGACY	2002 ONLY	H4	EJ252	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	OUTBACK H4	2002 ONLY	H4	EJ252	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	LEGACY	2004 ONLY	H4	EJ259	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	OUTBACK H4	2004 ONLY	H4	EJ259	F.I.	S.O.H.C.	12033AB010	SWF20066
2457	2.5L	150	BAJA	2005 - 2008	H4	EJ253	F.I.	S.O.H.C.	12033AB250	SWF20066
2457	2.5L	150	IMPREZA	2003 - 2007	H4	EJ253	F.I.	S.O.H.C.	12033AB250	SWF20066
2457	2.5L	150	LEGACY	2005 - 2012	H4	EJ253	F.I.	S.O.H.C.	12033AB250	SWF20066
2457	2.5L	150	OUTBACK H4	2005 - 2012	H4	EJ253	F.I.	S.O.H.C.	12033AB250	SWF20066
2457	2.5L	150	BAJA	2004 - 2006	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	FORESTER	2004 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	IMPREZA	2006 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	IMPREZA WRX	2007 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	LEGACY	2005 - 2009	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	LEGACY	2010 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	OUTBACK H4	2005 - 2009	H4	EJ255	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	IMPREZA WRX STi	2004 - 2007	H4	EJ257	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	IMPREZA WRX STi	2008 - 2010	H4	EJ257	F.I.	D.O.H.C.	12033AC000	SWF20068
2457	2.5L	150	LEGACY	2005 - 2006	H4	EJ257	F.I.	D.O.H.C.	12033AB340	SWF20068
2457	2.5L	150	OUTBACK H4	2005 - 2006	H4	EJ257	F.I.	D.O.H.C.	12033AB340	SWF20068
2468	2.5L	151	FORESTER	2012 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	FORESTER	2012 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	IMPREZA WRX STi	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	IMPREZA WRX STi	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	LEGACY	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	LEGACY	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	OUTBACK H4	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2468	2.5L	151	OUTBACK H4	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	NA
2999	3.0L	183	LEGACY	2008 - 2010	H6	EZ30	F.I.	D.O.H.C.	12033AB130	SWF20070
2999	3.0L	183	OUTBACK H6	2001 - 2010	H6	EZ30	F.I.	D.O.H.C.	12033AB130	SWF20070
2999	3.0L	183	B9 TRIBECA	2005 - 2007	H6	EZ30	F.I.	D.O.H.C.	12033AB130	SWF20070
3318	3.3L	202	SVX	1991 - 1997	H6	EG33	F.I.	D.O.H.C.	12033AA450	SWF20058
3318	3.3L	202	SVX	1991 - 1997	H6	EG33	F.I.	D.O.H.C.	12033AA450	SWF20058
SUBARU - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
SUBARU									
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	11-788	325	99.50	1.20	1.20		2.50		16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD810	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	11-910	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	11-911	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	11-911	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	11-911	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	11-911	352	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12013AB530	NA		94.00						RIGHT, 16 VALVE
12018AB530	NA		94.00						LEFT, 16 VALVE
12013AB530	NA		94.00						RIGHT, 16 VALVE
12018AB530	NA		94.00						LEFT, 16 VALVE
12013AB530	NA		94.00						RIGHT, 16 VALVE
12018AB530	NA		94.00						LEFT, 16 VALVE
12013AB530	NA		94.00						RIGHT, 16 VALVE
12018AB530	NA		94.00						LEFT, 16 VALVE
12206AB830	NA		89.20	1.20	1.20		2.50		24 VALVE
12006AB830	NA		89.20	1.20	1.20		2.50		R Models, 24 VALVE
12006AC970	NA		89.20	1.20	1.20		2.50		24 VALVE
12013AA490	NA		96.90	1.50	1.50		3.00		RIGHT, 24 VALVE
12018AA490	NA		96.90	1.50	1.50		3.00		LEFT, 24 VALVE
SUBARU - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

SUBARU

3629	3.6L	221	B9 TRIBECA	2008 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
3629	3.6L	221	LEGACY	2010 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
3629	3.6L	221	OUTBACK H6	2010 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
SUBARU - END										

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
SUZUKI										
1298	1.3L	79	SAMURAI	1989 - 1992	4	G13BA	F.I.	S.O.H.C.	12140-82X50	SWS20143
1298	1.3L	79	SWIFT	1989 - 1997	4	G13BA	F.I.	S.O.H.C.	12140-82X50	SWS20143
1298	1.3L	79	SAMURAI	1993 - 1996	4	G13BA	F.I.	S.O.H.C.	12140-82X50	SWS20143
1298	1.3L	79	SWIFT	1989 - 1994	4	G13K	F.I.	D.O.H.C.	12140-82X50	SWS20143
1298	1.3L	79	SWIFT	1998 - 2001	4	G13BB	F.I.	S.O.H.C.	12140-63E50	SWS20186
1324	1.3L	81	SAMURAI	1986 - 1988	4	G13A	CARB	S.O.H.C.	12140-82X50	SWS20141
1324	1.3L	81	SIDEKICK	1989 ONLY	4	G13A	CARB	S.O.H.C.	12140-82X50	SWS20143
1590	1.6L	97	SIDEKICK	1989 - 1995	4	G16A	F.I.	S.O.H.C.	12140-60A50	SWS20142
1590	1.6L	97	SIDEKICK	1989 - 1997	4	G16A	F.I.	S.O.H.C.	12140-60A50	SWS20142
1590	1.6L	97	X-90	1996 - 1998	4	G16KV	F.I.	S.O.H.C.	12140-60A50	SWS20142
1590	1.6L	97	ESTEEM	1998 - 2001	4	G16S	F.I.	S.O.H.C.	12140-61G50	SWS20190
1590	1.6L	97	SIDEKICK	1998 ONLY	4	G16S	F.I.	S.O.H.C.	12140-61G50	SWS20190
1590	1.6L	97	VITARA	1999 - 2001	4	G16S	F.I.	S.O.H.C.	12140-61G50	SWS20190
1590	1.6L	97	ESTEEM	1995 - 1997	4	G16S	F.I.	S.O.H.C.	12140-61G00	SWS20190
1840	1.8L	112	ESTEEM	1999 - 2002	4	J18A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1840	1.8L	112	GRAND VITARA	1999 ONLY	4	J18A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1840	1.8L	112	SIDEKICK	1996 - 1998	4	J18A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1995	2.0L	122	AERIO	2002 - 2003	4	J20A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1995	2.0L	122	GRAND VITARA	1999 ONLY	4	J20A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1995	2.0L	122	VITARA	1999 - 2004	4	J20A	F.I.	D.O.H.C.	12140-86FA0	SWS20178
1995	2.0L	122	SX-4	2007 - 2012	4	J20B	F.I.	D.O.H.C.	12140-65J00	SWS20216
1995	2.0L	122	SX-4 CROSSOVER	2007 - 2012	4	J20B	F.I.	D.O.H.C.	12140-65J00	SWS20216
1998	2.0L	122	FORENZA	2003 - 2008	4	KL5J	F.I.	D.O.H.C.	12140-85Z00	SWG10019
1998	2.0L	122	RENO	2005 - 2008	4	KL5J	F.I.	D.O.H.C.	12140-85Z00	SWG10019
2290	2.3L	140	AERIO	2004 - 2008	4	J23A	F.I.	D.O.H.C.	12140-59J00	NA
2393	2.4L	146	GRAND VITARA	2009 - 2012	4	J24B	F.I.	D.O.H.C.	12140-78K00	SWS20215
2393	2.4L	146	KIZASHI	2010 - 2012	4	J24B	F.I.	D.O.H.C.	12140-78K00	SWS20215
2488	2.5L	152	EQUATOR	2009 - 2012	4	QR25DE	F.I.	D.O.H.C.	12033-EA00B	SWN30140
2492	2.5L	152	VERONA	2004 - 2008	6	KL5V	F.I.	D.O.H.C.	12140-86Z00	NA
2494	2.5L	152	GRAND VITARA	1999 - 2006	V6	H25A	F.I.	D.O.H.C.	12140-86FA0	SWS20207

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
12100-61840-0A0	11-626	298	74.00	1.20	1.50		2.80		8 VALVE
12100-61840-0A0	11-626	298	74.00	1.20	1.50		2.80		GLX, 8 VALVE
12100-63850-0A0	11-626	298	74.00	1.20	1.50		2.80		8 VALVE
12111-86501-0A0	11-627	298	74.00	1.20	1.50		2.80		Gti, 16 VALVE
12111-63E10-0A0	11-769	322	74.00	1.20	1.20		2.50		16 VALVE
12111-83000-0A0	11-625	298	74.00	1.20	1.50		2.80		8 VALVE
12111-82010-0A0	11-628	299	74.00	1.20	1.50		2.80		8 VALVE
12111-60A02-0A0	11-629	299	75.00	1.20	1.50		2.80		8 VALVE
12100-71820-0A0	11-630	299	75.00	1.20	1.50		2.80		16 VALVE
12100-61850-0B0	DISC. 11-805		75.00	1.20	1.50		2.80		16 VALVE
12100-61850-0A0	NA		75.00	1.20	1.20		2.50		16 VALVE
12100-61850-0A0	NA		75.00	1.20	1.20		2.50		16 VALVE
12100-61850-0A0	NA		75.00	1.20	1.20		2.50		16 VALVE
12111-61G00-0A0	NA		75.00	1.20	1.20		2.50		16 VALVE
12100-86830-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-86830-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-86830-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-65810-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-65810-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-65810-0A0	11-775	323	84.00	1.20	1.50		2.50		16 VALVE
12100-65821	NA		84.00	1.20	1.20		2.50		16 VALVE
12100-65821	NA		84.00	1.20	1.20		2.50		16 VALVE
12111-85Z00	NA		86.00	1.20	1.50		2.50		GMC Engine, 16 VALVE
12111-85Z00	NA		86.00	1.20	1.50		2.50		GMC Engine, 16 VALVE
12100-59810-0A0	NA		90.00						16 VALVE
12100-78831-0A0	NA		92.00	1.20	1.00		2.00		16 VALVE
12100-78831-0A0	NA		92.00	1.20	1.00		2.00		16 VALVE
A2010-EA001	11-881	344	89.00	1.20	1.20		2.50		NISSAN Engine, 16 VALVE
12111-86Z00-0A0	NA		77.00						DAEWOO Engine, 24 VALVE
12100-86831-0A0	11-883	345	84.00	1.20	1.50		2.50		24 VALVE

SUZUKI

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

SUZUKI

2736	2.7L	167	GRAND VITARA	2007 - 2008	V6	H27A	F.I.	D.O.H.C.	12140-52D00	SWS20210
2737	2.7L	167	XL-7	2001 - 2006	V6	H27A	F.I.	D.O.H.C.	12140-52D00	SWS20210
3195	3.2L	195	GRAND VITARA	2009 - 2011	V6	N32A	F.I.	D.O.H.C.	12140-79K00-050	NA
3564	3.6L	217	XL-7	2007 - 2009	V6	N36A	F.I.	D.O.H.C.	12151-78J00	NA
3954	4.0L	241	EQUATOR	2009 - 2012	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	SWN30131

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
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SUZUKI

12100-66810-0A0	NA		88.00	1.20	1.50		2.80		24 VALVE
12100-52810-0A0	NA		88.00	1.20	1.50		2.80		(GRAND VITARA), 24 VALVE
12100-79810	NA		89.00						24 VALVE
12100-78J00	NA		94.00						24 VALVE
12010-EA20B	NA		95.50	1.20	1.20		2.50		NISSAN Engine, 24 VALVE

U.S. APPLICATIONS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
TOYOTA										
1166	1.2L	71	COROLLA	1973 - 1979	4	3K-C	CARB	O.H.V.	13011-24011	SWT10052
1290	1.3L	79	STARLET	1981 - 1982	4	4K-C	CARB	S.O.H.C.	13011-13030	SWT10052
1290	1.3L	79	STARLET	1983 - 1984	4	4K-E	CARB	S.O.H.C.	13011-13010	SWT10109
1452	1.5L	89	TERCEL	1980 ONLY	4	1A-C	CARB	S.O.H.C.	13011-15011	SWT10078
1452	1.5L	89	TERCEL	1981 - 1990	4	3A-C	CARB	S.O.H.C.	13011-15011	SWT10078
1456	1.5L	89	TERCEL	1986 - 1994	4	3E	CARB	S.O.H.C.	13011-11090	SWT10143
1456	1.5L	89	TERCEL	1988 - 1994	4	3E-E	F.I.	S.O.H.C.	13011-11090	SWT10143
1456	1.5L	89	PASEO	1991 - 1995	4	5E-FE	F.I.	D.O.H.C.	13011-11140	SWT10128
1456	1.5L	89	TERCEL	1995 - 1998	4	5E-FE	F.I.	D.O.H.C.	13011-11160	SWT10128
1496	1.5L	91	ECHO	2000 - 2005	4	1NZ-FE	F.I.	D.O.H.C.	13011-21041	SWT10192
1496	1.5L	91	YARIS	2007 - 2011	4	1NZ-FE	F.I.	D.O.H.C.	13011-21041	SWT10192
1496	1.5L	91	YARIS	2012 - 2015	4	1NZ-FE	F.I.	D.O.H.C.	13011-21120	SWT10192
1497	1.5L	91	PRIUS HYBRID	1999 - 2004	4	1NZ-FXE	F.I.	D.O.H.C.	13011-21070	SDT10222
1497	1.5L	91	PRIUS HYBRID	2005 - 2009	4	1NZ-FXE	F.I.	D.O.H.C.	13011-21100	SWT10229
1497	1.5L	91	PRIUS HYBRID C	2011 - 2015	4	1NZ-FXE	F.I.	D.O.H.C.	13011-21110	SWT10229
1587	1.6L	97	COROLLA	1983 - 1987	4	4A-C	CARB	S.O.H.C.	13011-16011	SWT10108
1587	1.6L	97	COROLLA	1984 - 1989	4	4A-LC	CARB	S.O.H.C.	13011-16011	SWT10108
1587	1.6L	97	COROLLA	1985 - 1987	4	4A-GEC	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	COROLLA	1987 ONLY	4	4A-GELC	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	MR2	1985 - 1987	4	4A-GELC	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	COROLLA	1988 - 1990	4	4A-GE	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	COROLLA	1988 - 1989	4	4A-GELC	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	MR2	1988 - 1989	4	4A-GELC	F.I.	D.O.H.C.	13011-16170	SWT10108
1587	1.6L	97	MR2	1988 - 1989	4	4A-GELC	F.I.	D.O.H.C.	13011-16090	SWT10145
1587	1.6L	97	CELICA	1990 - 1992	4	4A-FE	F.I.	D.O.H.C.	13011-16130	SWT10142
1587	1.6L	97	COROLLA	1988 - 1991	4	4A-F	CARB	D.O.H.C.	13011-16130	SWT10142
1587	1.6L	97	COROLLA	1988 - 1992	4	4A-FE	F.I.	D.O.H.C.	13011-16130	SWT10142
1587	1.6L	97	COROLLA	1993 - 1997	4	4A-FE	F.I.	D.O.H.C.	13011-16300	SWT10156
1588	1.6L	97	CARINA	1972 - 1973	4	2T-C	CARB	O.H.V.	13011-26020	SWT10040
1588	1.6L	97	COROLLA	1973 - 1977	4	2T-C	CARB	O.H.V.	13011-36020	SWT10040

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
TOYOTA									
13101-24010	11-140	283	75.00	2.00	2.00		4.00		
13101-24011-02	11-140	283	75.00	2.00	2.00		4.00		
13101-13021	11-141	283	75.00	1.50	1.50		4.00		
13101-15010	11-142	284	77.50	1.50	1.50		2.80		8 VALVE
13101-15020-02	11-143	284	77.50	1.50	1.50		2.80		8 VALVE
13101-11081-02	11-650	303	73.00	1.50	1.50		3.00		12 VALVE
13101-11081-02	11-650	303	73.00	1.50	1.50		3.00		12 VALVE
13101-11131-01	11-656	304	74.00	1.20	1.20		3.00		16 VALVE
13101-11161-01	11-656	304	74.00	1.20	1.20		3.00		w/ CALIF E.C.S., 16 VALVE
13101-21030	11-776	324	75.00	1.20	1.20		2.00		16 VALVE
13101-21030	11-776	324	75.00	1.20	1.20		2.00		16 VALVE
13101-21160	11-776	324	75.00	1.20	1.20		2.00		16 VALVE
13101-21070	11-895	348	75.00	1.20	1.20		2.00		16 VALVE
13101-21110	NA		75.00	0.80	1.00		1.50		16 VALVE
13101-21130	NA		75.00	0.80	1.00		1.50		16 VALVE
13103-16010	11-144	284	81.00	1.50	1.50		2.80		R.W.D., 8 VALVE
13103-16010	11-144	284	81.00	1.50	1.50		2.80		F.W.D., 8 VALVE
13101-16020-02	11-659	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16020-02	11-659	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16020-02	11-659	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16070-01	11-660	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16070-01	11-660	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16070-01	11-660	304	81.00	1.50	1.50		2.80		16 VALVE
13101-16100-01	NA		81.00	1.50	1.50		2.80		w/ TURBO
13101-16090-01	11-649	302	81.00	1.50	1.50		3.00		16 VALVE
13101-16090-01	11-649	302	81.00	1.50	1.50		3.00		16 VALVE
13101-16090-01	11-649	302	81.00	1.50	1.50		3.00		16 VALVE
13101-16160-01	11-714	311	81.00	1.20	1.50		3.00		16 VALVE
13101-26011	11-145	284	85.00	2.00	2.00		4.00		OE STYLE SET
13101-26011	11-145	284	85.00	2.00	2.00		4.00		w/o CALIF E.C.S.

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
1588	1.6L	97	COROLLA	1973 - 1976	4	2T-C	CARB	O.H.V.	13011-36020	SWT10040
1588	1.6L	97	CARINA	1972 - 1973	4	2T-C	CARB		13011-28030	SWT10059
1588	1.6L	97	COROLLA	1978 - 1979	4	2T-C	CARB	O.H.V.	13011-28030	SWT10059
1588	1.6L	97	COROLLA	1978 - 1979	4	2T-C	CARB	O.H.V.	13011-28030	SWT10059
1762	1.8L	108	CELICA	1993 - 1997	4	7A-FE	F.I.	D.O.H.C.	13011-16300	SWT10156
1762	1.8L	108	COROLLA	1993 - 1997	4	7A-FE	F.I.	D.O.H.C.	13011-16340	SWT10156
1770	1.8L	108	COROLLA	1980 - 1982	4	3T-C	CARB	O.H.V.	13011-28030	SWT10059
1794	1.8L	109	CELICA	2000 - 2006	4	1ZZ-FE	F.I.	D.O.H.C.	13011-22040	SWT10183
1794	1.8L	109	COROLLA	1998 - 1999	4	1ZZ-FE	F.I.	D.O.H.C.	13011-22040	SWT10183
1794	1.8L	109	MATRIX	2002 - 2008	4	1ZZ-FE	F.I.	D.O.H.C.	13011-22040	SWT10183
1794	1.8L	109	COROLLA	2000 ONLY	4	1ZZ-FE	F.I.	D.O.H.C.	13011-0D010	SWT10183
1794	1.8L	109	COROLLA	2001 - 2008	4	1ZZ-FE	F.I.	D.O.H.C.	13011-0D010	SWT10183
1794	1.8L	109	MR2 SPYDER	2000 - 2006	4	1ZZ-FE	F.I.	D.O.H.C.	13011-22150	SWT10183
1796	1.8L	110	CELICA	2000 - 2006	4	2ZZ-EE	F.I.	D.O.H.C.	13011-88601	SWT10196
1796	1.8L	110	MATRIX	2002 - 2006	4	2ZZ-GE	F.I.	D.O.H.C.	13011-88601	SWT10196
1798	1.8L	110	COROLLA	2009 - 2015	4	2ZR-FE	F.I.	D.O.H.C.	13011-0T010	SWT10232*
1798	1.8L	110	MATRIX	2009 - 2013	4	2ZR-FE	F.I.	D.O.H.C.	13011-0T010	SWT10232*
1798	1.8L	110	PRIUS HYBRID	2010 - 2015	4	2ZR-FXE	F.I.	D.O.H.C.	13011-37110	SWT10232
1798	1.8L	110	PRIUS HYBRID V	2012 - 2015	4	2ZR-FXE	F.I.	D.O.H.C.	13011-37110	SWT10232
1839	1.8L	112	COROLLA	1984 - 1985	4	1CL-LC	DIESEL		13011-64070	SDT10081
1839	1.8L	112	CAMRY	1984 - 1985	4	1CL-LTC	DIESEL		13011-64070	SDT10081
1858	1.9L	113	CELICA	1971 ONLY	4	8R-C	CARB		13011-33022	SWT10019
1858	1.9L	113	CORONA	1970 - 1971	4	8R-C	CARB		13011-33022	SWT10019
1897	1.9L	116	CORONA	1968 - 1969	4	3R-C	CARB		13011-40010	SWT10022
1968	2.0L	120	CELICA	1972 - 1974	4	18R-C	CARB		13011-38020	SWT10043
1968	2.0L	120	CORONA	1973 - 1974	4	18R-C	CARB		13011-38020	SWT10043
1968	2.0L	120	PICKUP	1972 - 1974	4	18R-C	CARB		13011-38020	SWT10043
1974	2.0L	120	CAMRY	1986 - 1987	4	2CT-LC	DIESEL		13011-64150	SDT10096
1995	2.0L	122	CAMRY	1983 - 1986	4	2SE-LC	F.I.	S.O.H.C.	13011-74021	SWT10088
1995	2.0L	122	CELICA	1986 ONLY	4	2SE-LC	F.I.	S.O.H.C.	13011-74021	SWT10088

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
TOYOTA									
13101-26021	DISC. 11-146		85.00	2.00	2.00		4.00		w/ CALIF E.C.S.
13101-26040	DISC. 11-147		85.00	1.50	1.50		4.00		REPLACEMENT SET
13101-26040	DISC. 11-147		85.00	1.50	1.50		4.00		8 VALVE
13101-26031	DISC. 11-148		85.00	1.50	1.50		4.00		w/o CALIF E.C.S., w/o ALF E.C.S.
13101-16150-01	11-713	311	81.00	1.20	1.50		3.00		16 VALVE
13101-16150-01	11-713	311	81.00	1.20	1.50		3.00		16 VALVE
13101-28010	11-149	285	85.00	1.50	1.50		4.00		8 VALVE
13101-22020	11-756	320	79.00	1.20	1.20		3.00		GT, 16 VALVE
13101-22020	11-756	320	79.00	1.20	1.20		3.00		16 VALVE
13101-22020	11-756	320	79.00	1.20	1.20		3.00		XR, 16 VALVE
13101-22140	11-777	324	79.00	1.20	1.20		3.00		16 VALVE
13101-0D040	11-777	324	79.00	1.20	1.20		3.00		16 VALVE
13101-22031	DISC. 11-148		79.00	1.20	1.20		3.00		16 VALVE
13101-88601	11-802	328	82.00	1.20	1.20		3.00		GT-S, 16 VALVE
13101-88601	11-802	328	82.00	1.20	1.20		3.00		XRS, 16 VALVE
13101-0T010	NA		80.50	1.00	1.00		1.50		16 VALVE
13101-0T010	NA		80.50	1.00	1.00		1.50		16 VALVE
13101-37120	NA		80.50	1.00	1.00		1.50		16 VALVE
13101-37120	NA		80.50	1.00	1.00		1.50		16 VALVE
13101-64010	DISC. 11-150		83.00	2.00	2.00		4.00		
13101-64040	DISC. 11-150		83.00	2.00	2.00		4.00		
13101-33010	DISC. 11-151		86.00	2.00	2.50		4.00		
13101-33010	DISC. 11-151		86.00	2.00	2.50		4.00		
13101-40010	DISC. 11-152		88.00	2.50	2.50		5.00		
13101-34030	11-153	285	88.50	2.00	2.50		4.00		
13101-34030	11-153	285	88.50	2.00	2.50		4.00		
13101-34030	11-153	285	88.50	2.00	2.50		4.00		
13101-64070-02	DISC. 11-655		86.00	2.00	2.00		4.00		
13101-74010	DISC. 11-154		84.00	1.50	1.50		4.00		8 VALVE
13101-74010	DISC. 11-154		84.00	1.50	1.50		4.00		8 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
TOYOTA										
1998	2.0L	122	VAN	1984 ONLY	4	3Y-EC	F.I.	O.H.V.	13011-71012	SWT10090
1998	2.0L	122	VAN	1985 ONLY	4	3Y-EC	F.I.	O.H.V.	13011-71012	SWT10090
1998	2.0L	122	CAMRY	1987 - 1991	4	3S-FE	F.I.	D.O.H.C.	13011-74072	SWT10119
1998	2.0L	122	CELICA	1986 - 1989	4	3S-FE	F.I.	D.O.H.C.	13011-74072	SWT10119
1998	2.0L	122	CELICA	1988 - 1989	4	3SG-TE	F.I.	D.O.H.C.	13011-88380	SWT10141
1998	2.0L	122	CELICA	1990 - 1994	4	3SG-TE	F.I.	D.O.H.C.	13011-88381	SWT10141
1998	2.0L	122	MR2	1990 - 1995	4	3SG-TE	F.I.	D.O.H.C.	13011-88380	SWT10141
1998	2.0L	122	CELICA	1986 - 1989	4	3SG-ELC	F.I.	D.O.H.C.	13011-88363	SWT10141
1998	2.0L	122	RAV4	1995 - 1997	4	3S-FE	F.I.	D.O.H.C.	13011-74072	SWT10119
1998	2.0L	122	RAV4	1998 - 2000	4	3S-FE	F.I.	D.O.H.C.	13011-74361	SWT10162
1998	2.0L	122	RAV4	2001 - 2003	4	1AZ-FE	F.I.	D.O.H.C.	13011-28120	SWT10186
1998	2.0L	122	FT-86	2012 - 2015	H4	4UG-FE	F.I.	D.O.H.C.	SU003-00145	NA
1998	2.0L	122	FT-86	2012 - 2015	H4	4UG-FE	F.I.	D.O.H.C.	SU003-00145	NA
2164	2.2L	132	CAMRY	1992 - 1997	4	5S-FE	F.I.	D.O.H.C.	13011-74290	SWT10133
2164	2.2L	132	CELICA	1990 - 1999	4	5S-FE	F.I.	D.O.H.C.	13011-74290	SWT10133
2164	2.2L	132	MR2	1990 - 1995	4	5S-FE	F.I.	D.O.H.C.	13011-74290	SWT10133
2164	2.2L	132	CELICA	1990 - 1991	4	5S-FE	F.I.	D.O.H.C.	13011-74150	SWT10149
2164	2.2L	132	MR2	1990 - 1991	4	5S-FE	F.I.	D.O.H.C.	13011-74150	SWT10149
2164	2.2L	132	CAMRY SOLARA	1998 - 2001	4	5S-FE	F.I.	D.O.H.C.	13011-74370	SWT10166
2164	2.2L	132	CAMRY	1998 - 2001	4	5S-FE	F.I.	D.O.H.C.	13011-74370	SWT10166
2188	2.2L	134	PICKUP	1981 ONLY	4	L	DIESEL		13011-54021	SDT10066
2188	2.2L	134	PICKUP	1982 ONLY	4	L	DIESEL		13011-54080	SDT10082
2188	2.2L	134	PICKUP	1983 ONLY	4	L	DIESEL		13011-54080	SDT10082
2189	2.2L	134	CELICA	1975 - 1980	4	20R	CARB	S.O.H.C.	13011-38020	SWT10043
2189	2.2L	134	CORONA	1975 - 1980	4	20R	CARB	S.O.H.C.	13011-38020	SWT10043
2189	2.2L	134	PICKUP	1975 - 1980	4	20R	CARB	S.O.H.C.	13011-38020	SWT10043
2237	2.2L	137	VAN	1988 - 1989	4	4Y-EC	F.I.	O.H.V.	13011-73032	SWT10111
2237	2.2L	137	VAN	1986 - 1987	4	4Y-EC	F.I.	O.H.V.	13011-73032	SWT10111
2253	2.3L	137	CORONA	1972 ONLY	6	2M	CARB		13011-41015	SXT10004

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
TOYOTA									
13101-73010-02	11-155	285	86.00	1.50	1.50		4.00		8 VALVE
13101-43051-02	11-155	285	86.00	1.50	1.50		4.00		8 VALVE
13101-74112-02	11-644	301	86.00	1.50	1.50		4.00		16 VALVE
13101-74112-02	11-644	301	86.00	1.50	1.50		4.00		16 VALVE
13101-88380-01	11-646	302	86.00	1.20	1.50		4.00		w/ TURBO, 16 VALVE
13101-88381-01	11-647	302	86.00	1.20	1.50		4.00		w/ TURBO, 16 VALVE
13101-88381-01	11-647	302	86.00	1.20	1.50		4.00		w/ TURBO, 16 VALVE
13101-74032-02	11-648	302	86.00	1.20	1.50		4.00		GTS, 16 VALVE
13101-74100-01	11-723	313	86.00	1.50	1.50		4.00		16 VALVE
13101-74191-01	11-795	327	86.00	1.20	1.20		3.00		16 VALVE
13211-28060-A0	11-850	337	86.00	1.20	1.20		2.00		16 VALVE
SU003-00137	NA		86.00	1.20	1.00		2.00		SUBARU Engine, w/ TURBO, RIGHT, 16 VALVE
SU003-00141	NA		86.00	1.20	1.00		2.00		SUBARU Engine, w/ TURBO, LEFT, 16 VALVE
13101-74130-01	11-654	303	87.00	1.50	1.50		4.00		16 VALVE
13101-74130-01	11-654	303	87.00	1.50	1.50		4.00		16 VALVE
13101-74130-01	11-654	303	87.00	1.50	1.50		4.00		16 VALVE
13101-74080-01	11-657	304	87.00	1.50	1.50		3.00		16 VALVE
13101-74080-01	11-657	304	87.00	1.50	1.50		3.00		16 VALVE
13101-03060	11-750	319	87.00	1.20	1.20		3.00		16 VALVE
13101-74240	NA		87.00	1.20	1.20		3.00		16 VALVE
13101-54010	DISC. 11-633		90.00	2.50	2.00		4.00		
13101-54021	11-634	300	90.00	2.00	2.00		4.00		
13101-54040	DISC. 11-635		90.00	2.00	2.00		4.00		
13101-38020	11-157	285	88.50	2.00	2.50		4.00		8 VALVE
13101-38020	11-157	285	88.50	2.00	2.50		4.00		8 VALVE
13101-38020	11-157	285	88.50	2.00	2.50		4.00		8 VALVE
13101-73031-01	11-637	300	91.00	1.50	1.50		4.00		8 VALVE
13101-76012-71	11-637	300	91.00	1.50	1.50		4.00		8 VALVE
13101-42020	DISC. 11-161		75.00	2.00	2.00		4.00		

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
TOYOTA										
2362	2.4L	144	CAMRY	2002 - 2006	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	SWT10182
2362	2.4L	144	HIGHLANDER	2001 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	SWT10182
2362	2.4L	144	RAV4	2004 - 2005	4	2AZ-FE	F.I.	D.O.H.C.	13011-23100	SWT10182
2362	2.4L	144	CAMRY SOLARA	2002 - 2006	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	SWT10182
2362	2.4L	144	CAMRY	2007 - 2009	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2362	2.4L	144	CAMRY SOLARA	2007 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2362	2.4L	144	COROLLA	2009 - 2010	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2362	2.4L	144	MATRIX	2009 - 2013	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2362	2.4L	144	RAV4	2006 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2362	2.4L	144	CAMRY HYBRID	2007 - 2011	4	2AZ-FXE	F.I.	D.O.H.C.	13011-0H031	SDT10200
2366	2.4L	144	4 RUNNER	1984 ONLY	4	20R	CARB	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	4 RUNNER	1985 ONLY	4	22R-EC	F.I.	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	CELICA	1981 - 1982	4	20R	CARB	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	CELICA	1983 - 1985	4	22R-EC	F.I.	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	CORONA	1981 - 1982	4	20R	CARB	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	PICKUP	1981 - 1985	4	20R	CARB	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	PICKUP	1984 - 1985	4	22R-EC	F.I.	S.O.H.C.	13011-35020	SWT10077
2366	2.4L	144	PICKUP	1990 - 1995	4	22R-E	F.I.	S.O.H.C.	13011-35052	SWT10103
2366	2.4L	144	4 RUNNER	1986 - 1995	4	22R-EC	F.I.	S.O.H.C.	13011-35052	SWT10103
2366	2.4L	144	PICKUP	1986 - 1991	4	20R	C & F	S.O.H.C.	13011-35052	SWT10103
2366	2.4L	144	PICKUP	1986 - 1989	4	22R-EC	F.I.	S.O.H.C.	13011-35052	SWT10103
2366	2.4L	144	4 RUNNER	1986 - 1987	4	22R-TEC	F.I.	S.O.H.C.	13011-35041	SWT10103
2366	2.4L	144	PICKUP	1985 - 1989	4	22R-TEC	F.I.	S.O.H.C.	13011-35041	SWT10103
2438	2.4L	149	PREVIA	1990 - 1995	4	2TZ-FE	F.I.	D.O.H.C.	13011-76050	SWT10127
2438	2.4L	149	PREVIA	1995 - 1998	4	2TZ-FZE	F.I.	D.O.H.C.	13011-76050	SWT10127
2438	2.4L	149	TACOMA	1995 - 2004	4	2RZ-FE	F.I.	D.O.H.C.	13011-75040	SWT10139
2446	2.4L	149	PICKUP	1985 ONLY	4	2L-T	DIESEL		13011-54062	SDT10089
2446	2.4L	149	PICKUP	1984 - 1985	4	2L	DIESEL		13011-54062	SDT10089
2494	2.5L	152	CAMRY	2009 - 2015	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	SDT09000
2494	2.5L	152	RAV4	2009 - 2015	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	SDT09000
2494	2.5L	152	AVALON HYBRID	2013 - 2015	4	2AR-FXE	F.I.	D.O.H.C.	13011-36070	SDT09000
2494	2.5L	152	CAMRY HYBRID	2011 - 2015	4	2AR-FXE	F.I.	D.O.H.C.	13011-0V010	SDT09000
2507	2.5L	153	CAMRY	1988 - 1991	V6	2VZ-FE	F.I.	D.O.H.C.	13011-62040	SWT10148
2563	2.6L	156	CORONA	1973 - 1976	6	4M	CARB		13011-45021	SXT10041

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S T	N D	R D	1	2	
TOYOTA									
13211-28030-A0	11-792	326	88.50	1.20	1.20		2.00		VVT-i, 16 VALVE
13211-28030-A0	11-792	326	88.50	1.20	1.20		2.00		16 VALVE
13211-28030-A0	11-792	326	88.50	1.20	1.20		2.00		16 VALVE
13211-28031-A0	11-792	326	88.50	1.20	1.20		2.00		VVT-i, 16 VALVE
13211-28112-A0	11-896	348	88.50	1.00	1.00		2.00		16 VALVE
13211-28112-A0	11-896	348	88.50	1.00	1.00		2.00		16 VALVE
13211-28112-A0	11-896	348	88.50	1.00	1.00		2.00		XRS, 16 VALVE
13211-28112-A0	11-896	348	88.50	1.00	1.00		2.00		XRS, 16 VALVE
13211-28112-A0	11-896	348	88.50	1.00	1.00		2.00		XRS, 16 VALVE
13211-28121-A0	NA		88.50	1.00	1.00		2.00		16 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35020	11-241	287	92.00	2.00	2.50		4.00		8 VALVE
13101-35032-01	11-239	287	92.00	1.50	1.50		4.00		8 VALVE
13101-35032-02	11-239	287	92.00	1.50	1.50		4.00		8 VALVE
13101-35032-02	11-239	287	92.00	1.50	1.50		4.00		8 VALVE
13101-35032-02	11-239	287	92.00	1.50	1.50		4.00		8 VALVE
13101-35050-02	11-677	306	92.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
13101-35050-02	11-677	306	92.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
13101-76041	11-636	300	95.00	1.75	1.50		4.00		16 VALVE
13101-76050	11-725	313	95.00	1.75	1.50		4.00		w/ TURBO, 16 VALVE
13101-75071	11-745	318	95.00	1.50	1.50		4.00		16 VALVE
13101-54050-02	11-631	299	92.00	2.00	2.00		4.00		w/ TURBO
13101-54060-02	11-632	300	92.00	2.00	2.00		4.00		
13211-0V012-B0	11-897	348	90.00	1.00	1.00		2.00		VVT-i, 16 VALVE
13211-36032-C0	11-897	348	90.00	1.00	1.00		2.00		VVT-i, 16 VALVE
13211-36060-A0	NA		90.00	1.00	1.00		2.00		VVT-i, 16 VALVE
13211-36060-A0	NA		90.00	1.00	1.00		2.00		VVT-i, 16 VALVE
13101-62020-01	11-651	303	87.50	1.50	1.50		3.00		24 VALVE
13101-45011	DISC. 11-166		80.00	2.00	2.00		4.00		

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
2563	2.6L	156	CRESSIDA	1978 - 1980	6	4M, 4M-E	CARB		13011-45021	SXT10041
2563	2.6L	156	SUPRA	1979 - 1980	6	4M-E	F.I.		13011-45021	SXT10041
2672	2.7L	163	SIENNA	2011 - 2012	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT09001
2672	2.7L	163	HIGHLANDER	2009 - 2015	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT09001
2672	2.7L	163	VENZA	2009 - 2015	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT09001
2693	2.7L	164	T100	1993 - 1998	4	3RZ-FE	F.I.	D.O.H.C.	13011-75040	SWT10139
2693	2.7L	164	4 RUNNER	1996 - 2000	4	3RZ-FE	F.I.	D.O.H.C.	13011-75040	SWT10139
2693	2.7L	164	TACOMA	1995 - 2004	4	3RZ-FE	F.I.	D.O.H.C.	13011-75041	SWT10139
2693	2.7L	164	4 RUNNER	2010 ONLY	4	2TR-FE	F.I.	D.O.H.C.	13011-75110	SDT10193
2693	2.7L	164	TACOMA	2005 - 2015	4	2TR-FE	F.I.	D.O.H.C.	13011-75110	SDT10193
2759	2.8L	168	CRESSIDA	1984 - 1988	6	5M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2759	2.8L	168	SUPRA	1984 - 1987	6	5M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2759	2.8L	168	CRESSIDA	1981 - 1982	6	5M-E	F.I.	D.O.H.C.	13011-43031	SXT10072
2759	2.8L	168	SUPRA	1981 ONLY	6	5M-E	F.I.	D.O.H.C.	13011-43031	SXT10072
2759	2.8L	168	CRESSIDA	1983 ONLY	6	5M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2759	2.8L	168	SUPRA	1982 - 1983	6	5M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2954	3.0L	180	SUPRA	1986 - 1993	6	7M-GTE	F.I.	D.O.H.C.	13011-42011	SWT10115
2954	3.0L	180	SUPRA	1986 - 1992	6	7M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2954	3.0L	180	CRESSIDA	1989 - 1992	6	7M-GE	F.I.	D.O.H.C.	13011-42060	SWT10079
2958	3.0L	181	4 RUNNER	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	4 RUNNER	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	PICKUP	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	PICKUP	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	T100	1992 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	T100	1992 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	SWT10144
2958	3.0L	181	CAMRY	1992 - 1993	V6	3VZ-E	F.I.	D.O.H.C.	13011-62060	SWT10144
2959	3.0L	181	SUPRA	1993 - 1998	6	2JZ-GTE	F.I.	D.O.H.C.	13011-46051	SWT10134
2995	3.0L	183	AVALON	1995 ONLY	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	SWT10177
2995	3.0L	183	AVALON	1995 ONLY	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	SWT10177
2995	3.0L	183	CAMRY	1994 - 1997	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	SWT10177
2995	3.0L	183	CAMRY	1994 - 1997	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	SWT10177
2995	3.0L	183	HIGHLANDER	2001 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	HIGHLANDER	2001 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	SIENNA	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	SIENNA	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S	N	R	1	2	
TOYOTA									
13101-45021	<i>DISC. 11-167</i>		80.00	2.00	2.00		4.00		
13101-45021	<i>DISC. 11-167</i>		80.00	2.00	2.00		4.00		
13211-36040-A0	NA		90.00	1.00	1.00		2.00		16 VALVE
13211-36040-A0	NA		90.00	1.00	1.00		2.00		16 VALVE
13211-36040-A0	NA		90.00	1.00	1.00		2.00		16 VALVE
13101-75040	11-724	313	95.00	1.50	1.50		4.00		16 VALVE
13101-75041	11-724	313	95.00	1.50	1.50		4.00		16 VALVE
13101-75041	11-724	313	95.00	1.50	1.50		4.00		16 VALVE
13101-75130	11-880	344	95.00	1.20	1.20		2.00		16 VALVE
13101-75130	11-880	344	95.00	1.20	1.20		2.00		VVT-i, 16 VALVE
13101-43051-02	11-641	301	83.00	1.50	1.50		4.00		12 VALVE
13101-43051-02	11-641	301	83.00	1.50	1.50		4.00		12 VALVE
13101-43011-02	<i>DISC. 11-168</i>		83.00	2.00	2.00		4.00		12 VALVE
13101-43011-02	<i>DISC. 11-168</i>		83.00	2.00	2.00		4.00		12 VALVE
13101-43041-02	<i>DISC. 11-169</i>		83.00	1.50	1.50		4.00		12 VALVE
13101-43041-02	<i>DISC. 11-169</i>		83.00	1.50	1.50		4.00		12 VALVE
13101-42050-02	11-639	301	83.00	1.50	1.50		4.00		w/ TURBO, 24 VALVE
13101-42060	11-642	301	83.00	1.50	1.50		4.00		24 VALVE
13101-42070-01	11-642	301	83.00	1.50	1.50		4.00		24 VALVE
13101-65040-01	11-653	303	87.50	1.50	1.50		4.00		RIGHT, 12 VALVE
13301-65040-01	11-653	303	87.50	1.50	1.50		4.00		LEFT, 12 VALVE
13101-65040-01	11-653	303	87.50	1.50	1.50		4.00		RIGHT, 12 VALVE
13301-65040-01	11-653	303	87.50	1.50	1.50		4.00		LEFT, 12 VALVE
13101-65040-01	11-653	303	87.50	1.50	1.50		4.00		RIGHT, 12 VALVE
13301-65040-01	11-653	303	87.50	1.50	1.50		4.00		LEFT, 12 VALVE
13101-62040-01	11-661	305	87.50	1.50	1.50		4.00		24 VALVE
13101-46091	11-778	324	86.00	1.50	1.50		4.00		w/ TURBO, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-20030	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-20020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
TOYOTA										
2995	3.0L	183	AVALON	1996 - 2004	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	AVALON	1996 - 2004	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	CAMRY	1998 - 2006	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	CAMRY	1998 - 2006	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	CAMRY SOLARA	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2995	3.0L	183	CAMRY SOLARA	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	SWT10177
2997	3.0L	183	SUPRA	1998 ONLY	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
2997	3.0L	183	SUPRA	1993 - 1998	6	2JZ-GE	F.I.	D.O.H.C.	13011-46041	SWT10134
3311	3.3L	202	CAMRY	2003 - 2006	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A030	SWT10228
3311	3.3L	202	CAMRY SOLARA	2003 - 2008	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A030	SWT10228
3311	3.3L	202	HIGHLANDER	2004 - 2008	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A031	SWT10228
3311	3.3L	202	HIGHLANDER H	2006 - 2010	V6	3MZ-FXE	F.I.	D.O.H.C.	13011-0A031	SWT10228
3311	3.3L	202	SIENNA	2004 - 2006	V6	3MZ-FE	F.I.	D.O.H.C.	13011-0A040	SWT10228
3378	3.4L	206	4 RUNNER	1996 - 2002	V6	5VZ-FE	F.I.	D.O.H.C.	13011-62100	SWT10178
3378	3.4L	206	T100	1996 - 1999	V6	5VZ-FE	F.I.	D.O.H.C.	13011-62100	SWT10178
3378	3.4L	206	TACOMA	1995 - 2004	V6	5VZ-FE	F.I.	D.O.H.C.	13011-62100	SWT10178
3378	3.4L	206	TUNDRA	1996 - 2005	V6	5VZ-FE	F.I.	D.O.H.C.	13011-62100	SWT10178
3456	3.5L	211	AVALON	2005 ONLY	V6	2GR-FE	F.I.	D.O.H.C.	13011-31140	SDT10194
3456	3.5L	211	AVALON	2006 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	CAMRY	2007 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	HIGHLANDER	2009 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	RAV4	2007 - 2012	V6	2GR-FE	F.I.	D.O.H.C.	13011-31130	SDT10194
3456	3.5L	211	SIENNA	2007 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	VENZA	2009 - 2015	V6	2GR-FE	F.I.	D.O.H.C.	13011-0P040	SDT10194
3456	3.5L	211	AVALON HYBRID	2013 - 2015	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31160	SDT10194
3456	3.5L	211	HIGHLANDER H	2011 - 2015	V6	2GR-FXE	F.I.	D.O.H.C.	13011-31160	SDT10194
3878	3.9L	237	LAND CRUISER	1971 ONLY	6	F	CARB		13011-60011	SWT10026
3878	3.9L	237	LAND CRUISER	1972 ONLY	6	F	CARB		13011-60040	SWT10044
3878	3.9L	237	LAND CRUISER	1973 - 1975	6	F	CARB		13011-60040	SWT10044
3955	4.0L	241	TACOMA	2005 - 2015	V6	1GR-FE	F.I.	D.O.H.C.	13011-0P020	SWT10195
3955	4.0L	241	TACOMA X-RUNNER	2005 - 2015	V6	1GR-FE	F.I.	D.O.H.C.	13011-0P020	SWT10195
3955	4.0L	241	4 RUNNER	2003 - 2009	V6	1GR-FE	F.I.	D.O.H.C.	13011-31100	SWT10195
3955	4.0L	241	FJ CRUISER	2006 - 2009	V6	1GR-FE	F.I.	D.O.H.C.	13011-0P020	SWT10195
3955	4.0L	241	4 RUNNER	2010 - 2015	V6	1GR-FE	F.I.	D.O.H.C.	13011-31210	SWT10195
3955	4.0L	241	FJ CRUISER	2010 - 2015	V6	1GR-FE	F.I.	D.O.H.C.	13011-31210	SWT10195
3955	4.0L	241	TUNDRA	2005 - 2015	V6	1GR-FE	F.I.	D.O.H.C.	13011-31210	SWT10195
TOYOTA - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S T	N D	R D	1	2	
TOYOTA									
13101-0A020	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-0A020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-0A020	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-0A020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-0A020	11-720	312	87.50	1.20	1.20		3.00		RIGHT, 24 VALVE
13301-0A020	11-720	312	87.50	1.20	1.20		3.00		LEFT, 24 VALVE
13101-46081	11-851	337	86.00	1.50	1.50		4.00		24 VALVE
13101-46031	DISC. 11-770		86.00	1.50	1.50		4.00		24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		SE Model, 24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		SE Model, 24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		VVT-i, 24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		HYBRID, 24 VALVE
13101-0A040	11-867	341	92.00	1.20	1.20		3.00		VVT-i, 24 VALVE
13101-62060-01	11-722	313	93.50	1.50	1.50		4.00		24 VALVE
13101-62060-01	11-722	313	93.50	1.50	1.50		4.00		24 VALVE
13101-62060-01	11-722	313	93.50	1.50	1.50		4.00		24 VALVE
13101-62060-01	11-722	313	93.50	1.50	1.50		4.00		24 VALVE
13101-31090	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-0P053	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-0P053	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-31092-A0	11-870	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-0P053	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-0P053	11-870	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-31092-B0	11-870	342	94.00	1.20	1.20		2.00		24 VALVE
13101-31110-A0	NA		94.00	1.20	1.20		2.00		24 VALVE
13101-31110-A0	NA		94.00	1.20	1.20		2.00		HYBRID, 24 VALVE
13101-60011	11-171	286	90.00	3.00	3.00		4.00	4.00	
13101-60020	DISC. 11-172		90.00	2.00	2.50		4.00	4.00	
13101-60030	DISC. 11-173		90.00	2.00	2.50		4.00	4.00	
13101-0P020	11-871	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-0P020	11-871	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-31030	11-871	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-31030	11-871	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
13101-31120-A0	11-871	342	94.00	1.20	1.20		2.00		DUAL VVT-i, 24 VALVE
13101-31120-A0	11-871	342	94.00	1.20	1.20		2.00		DUAL VVT-i, 24 VALVE
13101-31120-A0	11-871	342	94.00	1.20	1.20		2.00		VVT-i, 24 VALVE
TOYOTA - CONTINUED									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
TOYOTA										
3956	4.0L	241	LAND CRUISER	1988 - 1992	6	3F-E	F.I.		13011-76013-71	SWT10151
4230	4.2L	258	LAND CRUISER	1974 - 1980	6	2F	CARB		13011-76012-71	SWT10049
4230	4.2L	258	LAND CRUISER	1981 - 1987	6	2F	CARB		13011-76012-71	SWT10049
4477	4.5L	273	LAND CRUISER	1993 - 1995	V6	1FZ-FE	F.I.	D.O.H.C.	13011-66021	SWT10184
4477	4.5L	273	LAND CRUISER	1996 - 1997	V6	1ZF-TE	F.I.	D.O.H.C.	13011-66021	SWT10184
4608	4.6L	281	SEQUOIA	2009 - 2012	V8	1UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
4608	4.6L	281	TUNDRA	2010 - 2015	V8	1UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
4663	4.7L	285	4 RUNNER	2003 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	4 RUNNER	2003 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	LAND CRUISER	1998 - 2003	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	LAND CRUISER	1998 - 2003	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	SEQUOIA	2001 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	SEQUOIA	2001 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	TUNDRA	1999 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	TUNDRA	1999 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	SWT10203
4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F010	SWT10203
4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F010	SWT10203
4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10203
5663	5.7L	346	LAND CRUISER	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
5663	5.7L	346	SEQUOIA	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
5663	5.7L	346	TUNDRA	2007 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	NA
TOYOTA - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
TOYOTA									
13101-61032-01	11-673	305	94.00	2.00	2.00		4.00		
13101-61020	11-174	286	94.00	2.00	2.50		4.00		
13101-76008-71	11-175	286	94.00	2.00	2.50		4.00		
13101-66040-01	DISC. 11-700		100.00	1.75	2.00		4.00		24 VALVE
13101-66040-01	DISC. 11-700		100.00	1.75	2.00		4.00		24 VALVE
13101-0S020	NA		94.00						32 VALVE
13101-0S020	NA		94.00						32 VALVE
13101-50050-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50040-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50050-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50050-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50050-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50061-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50061-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50061-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50061-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50061-01	11-801	328	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	11-801	328	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-0S011	NA		94.00						i-Force, 32 VALVE
13101-0S011	NA		94.00						i-Force, 32 VALVE
13101-0S011	NA		94.00						i-Force, 32 VALVE
TOYOTA - END									

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
UD TRUCKS										
4730	4.7L	289	1400	2009 - 2010	4	J05D-TF	DIESEL	D.O.H.C.	-	NA
4730	4.7L	289	1800CS	2009 - 2010	4	J05D-TF	DIESEL	D.O.H.C.	-	NA
7013	7.0L	428	1800	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	2000	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	2300DH	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	2300LP	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	2600	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	2600LP	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7013	7.0L	428	3300	2011 - 2015	6	GH7	DIESEL	S.O.H.C.	-	NA
7684	7.7L	469	1800HD	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	2000	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	2300DH	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	2300LP	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	2600	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	2600LP	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
7684	7.7L	469	3300	2009 - 2010	6	J08E-UJ	DIESEL	D.O.H.C.	13011-4040A	SDH20102
UD TRUCKS - END										

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								

VOLKSWAGEN

1781	1.8L	109	NEW BEETLE	1999 - 2005	4	AEB	F.I.	D.O.H.C.	058 198 151 B	SWL03456
1781	1.8L	109	PASSAT	1998 - 2005	4	AEB, AWM, ATW	F.I.	D.O.H.C.	058 198 151 B	SWL03456
1781	1.8L	109	GTI	2000 - 2005	4	AEB	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1781	1.8L	109	JETTA	2000 - 2004	4	AEB, AWP	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1786	1.8L	109	CORRADO	1990 - 1992	4	PG	F.I.	D.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	GTI	1987 - 1989	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	JETTA	1988 - 1989	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	SCIROCCO	1986 - 1988	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	CABRIOLET	1990 - 1993	4	2H	F.I.	S.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	GTI	1985 - 1992	4	HT	F.I.	S.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	GOLF	1988 - 1992	4	RD	F.I.	S.O.H.C.	026 198 151 A	SWL02405
1786	1.8L	109	JETTA	1985 - 1992	4	RD	F.I.	S.O.H.C.	026 198 151 A	SWL02405
1896	1.9L	116	JETTA	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151	SDL03460
1896	1.9L	116	JETTA	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151	SDL03460
1896	1.9L	116	JETTA	1998 - 2006	4	BRM	DIESEL	S.O.H.C.	038 198 151	SDL03460
1896	1.9L	116	JETTA	1998 - 2006	4	BRM	DIESEL	S.O.H.C.	038 198 151	SDL03460
1896	1.9L	116	NEW BEETLE	1998 - 2006	4	BEW	DIESEL	S.O.H.C.	038 198 151	SDL03460
1896	1.9L	116	NEW BEETLE	1998 - 2006	4	BEW	DIESEL	S.O.H.C.	038 198 151	SDL03460
1896	1.9L	116	PASSAT	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151 C	SDL03460
1896	1.9L	116	PASSAT	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151 C	SDL03460
1968	2.0L	120	GOLF	2009 - 2012	5	CBAA, CBAB	DIESEL	D.O.H.C.	-	NA
1968	2.0L	120	PASSAT	2004 - 2005	4	BHW	DIESEL	S.O.H.C.	03G 198 151 A	NA
1968	2.0L	120	PASSAT	2004 - 2005	4	BHW	DIESEL	S.O.H.C.	03G 198 151 A	NA
1981	2.0L	121	JETTA	2011 - 2012	4		F.I.	S.O.H.C.	-	NA
1984	2.0L	121	CABRIO	1996 - 2002	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	GTI	1996 - 1997	4	ABA	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	GOLF	1996 - 1997	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	GOLF	1998 - 2006	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	JETTA	1996 - 1997	4	AGG, ADY	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	JETTA	1998 - 2004	4	AVH, AZG, BEV	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	JETTA III	1993 - 1995	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	JETTA SPORTWAGON	1998 - 2004	4	AVH, AZG, BEV	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	PASSAT	1990 - 1992	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	PASSAT	1993 ONLY	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	PASSAT	1996 ONLY	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03461
1984	2.0L	121	GTI	1998 - 2000	4	9A	F.I.	S.O.H.C.	06A 198 151 C	SWL03461
1984	2.0L	121	NEW BEETLE	1998 - 2005	4	AVH, AZG, BEV	F.I.	S.O.H.C.	06A 198 151 C	SWL03461
1984	2.0L	121	EOS	2007 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
1984	2.0L	121	JETTA	2006 - 2009	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1	2	3	O	O	REMARK
				S T	N D	R D	1	2	
VOLKSWAGEN									
058 107 065 F	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
058 107 065 F	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	11-872	342	81.00	1.50	1.75		2.00		20 VALVE
027 107 065	X		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	X		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	X		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	X		81.00	1.50	1.75		3.00		16 VALVE
026 107 065 R	X		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	X		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	X		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	X		81.00	1.50	1.75		3.00		GLI MODELS, 8 VALVE
038 107 065 D 001	X		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	X		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
038 107 065 D 001	X		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	X		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
071 107 065 C	X		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
071 107 065 C	X		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
038 107 065 D 001	X		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	X		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
-	X		81.00						w/ TURBO, 16VALVE
038 107 065 HE 001	X		81.00						CYL #1,2, 8 VALVE
038 107 065 HF 001	X		81.00						CYL #3,4, 8 VALVE
-	X		82.50						8 VALVE
037 107 065 M	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M**	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
053 107 065 H	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	11-9000	352	82.50	1.20	1.50		2.00		8 VALVE
06A 107 065 F	X		82.50	1.20	1.50		2.00		8 VALVE
06A 107 065 F	X		82.50	1.20	1.50		2.00		8 VALVE
06D 107 066 C	X		82.50	1.20	1.50		2.00		16 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE			MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
cc	L	ci								
VOLKSWAGEN										
1984	2.0L	121	CC	2009 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
1984	2.0L	121	GLI	2008 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
1984	2.0L	121	GTI	2006 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
1984	2.0L	121	PASSAT	2006 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
1984	2.0L	121	TIGUAN	2009 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03461
2480	2.5L	151	GOLF	2010 - 2012	5	BGQ	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 5CYL
2480	2.5L	151	JETTA	2005 - 2012	5	BGP, BPQ	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 5CYL
2480	2.5L	151	JETTA SPORTWAGON	2009 - 2012	5	BGP, BPQ	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 5CYL
2480	2.5L	151	NEW BEETLE	2006 - 2012	5	BPR, BPS	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 5CYL
2480	2.5L	151	RABBIT	2006 - 2009	5	BGP, BGQ	F.I.	D.O.H.C.	06D 198 151 C	SWL03296 5CYL
2771	2.8L	169	PASSAT	1998 - 2005	V6	ALG	F.I.	D.O.H.C.	06A 198 151 C	SWL03296 6CYL
2995	3.0L	183	TOUAREG II HYBRID	2009 - 2012	V6		F.I.	D.O.H.C.	-	NA
3598	3.6L	220	CC	2009 - 2012	V6	3.6 VR6 FSI	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	CC	2009 - 2012	V6	3.6 VR6 FSI	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	PASSAT	2006 - 2008	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	PASSAT	2006 - 2008	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	TOUAREG	2007 - 2008	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	TOUAREG	2007 - 2008	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	TOUAREG II	2007 - 2012	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3598	3.6L	220	TOUAREG II	2007 - 2012	V6	BHK	F.I.	D.O.H.C.	03H 198 151 B	NA
3778	3.8L	231	ROUTAN	2009 - 2012	V6	EGH 3.8	F.I.	O.H.V.	68001386AA	SWC10015
3952	4.0L	241	ROUTAN	2011 - 2012	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	-	TBA
3952	4.0L	241	ROUTAN	2009 - 2012	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4897035AB	SWC10013
3999	4.0L	244	PASSAT	2002 - 2004	W8	BDN	F.I.	D.O.H.C.	-	NA
3999	4.0L	244	PASSAT	2002 - 2004	W8	BDN	F.I.	D.O.H.C.	-	NA
4921	4.9L	300	TOUAREG	2004 - 2007	V10	BKW	DIESEL	S.O.H.C.	07Z 198 151	NA
4921	4.9L	300	TOUAREG II	2004 - 2007	V10	BKW	DIESEL	S.O.H.C.	07Z 198 151	NA
VOLKSWAGEN - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
VOLKSWAGEN									
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.55	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.55	1.20	1.50		2.00		20 VALVE
078 107 065 AF	X		82.50	1.20	1.50		2.00		w/ VTECH, 24 VALVE
-	X		83.00						24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 066 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
4666129AA	11-864*	340	96.00	1.20	1.50		3.00		CHRYSLER Engine, 12 VALVE
-	X		96.00	1.20	1.20		2.00		CHRYSLER Engine, 24 VALVE
4593589AA	X		96.00	1.20	1.50		3.00		CHRYSLER Engine, 24 VALVE
-	X		84.00						32 VALVE
-	X		84.00						32 VALVE
-	X		81.00						w/ TURBO, 20 VALVE
-	X		81.00						w/ TURBO, 20 VALVE
VOLKSWAGEN - END									

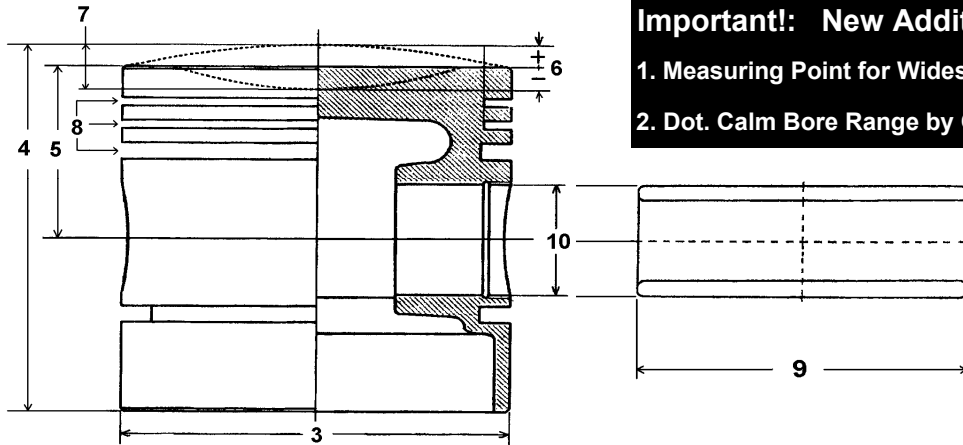
PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



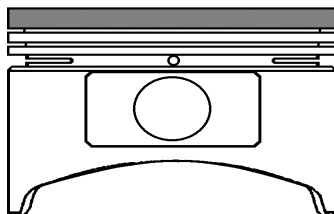
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT										PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE	LENGTH	COMP.	+	DIST.				mm	inch	mm	inch	mm	inch	mm	inch
		mm inch	mm inch	mm inch	-	mm inch				MID	MID	MID	MID	MID			
1	2	3	4	5	6	7	8	9	17	18	19	20	21	22			
PISTON RING #		Wall Clearance		11	12										10		
13						Cir Clip	14	SURFACE TREATMENT	REMARKS: Measure for OIL Clearance:	23	mm inch	from Bottom of Skirt.					
					15	15											
						16											

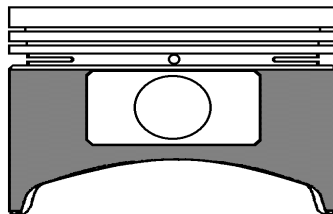


Important!: New Additions to Buyer's Guide.
 1. Measuring Point for Widest Point on Piston Skirt.
 2. Dot. Calm Bore Range by Color Code.

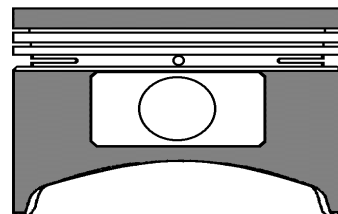
- 1: NOA's Piston Part Number.
- 2: Number of Cylinder.
- 3: Cylinder Bore Diameter.
- 4: Piston Length.
- 5: Compression Distance.
- 6: Dome or Dish.
- 7: Dome or Dish Height.
- 8: Piston Ring Groove.
- 9: Piston Pin Length.
- 10: Piston Pin Diameter.
- 11: NPR's Piston Ring for Piston Kit.
- 12: Cylinder Wall Clearance.
- 13: Piston Drawing.
- 14: Cir Clip.
- 15: Head Surface Treatment Information.
- 16: Skirt Surface Treatment Information.
- 17: Color Code.
- 18: Piston Mid. Diameter - 0 (STD) Size.
- 19: Piston Mid. Diameter - 1 (0.25) Size.
- 20: Piston Mid. Diameter - 2 (0.50) Size.
- 21: Piston Mid. Diameter - 3 (0.75) Size.
- 22: Piston Mid. Diameter - 4 (1.00) Size.
- 23: Piston Diameter Measuring Point.



Anodized Head



Moly Skirt



Anodized Head & Moly Skirt

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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RED = NEW INFORMATION

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-012	4	84.000	80.00	37.00	-	0.80	2.00	66.00	84.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.307	3.150	1.457									
		PISTON RING #		Total Clearance						REMARKS:			
SWI10056		mm	inch					Measure for CYL					
		-0.04	-0.00157					Clearance: 15.00 mm from Bottom of Skirt.					
								0.591 inch					
		Cir Clip						SURFACE TREATMENT					
		NONE						NONE					
		C17						NONE					
PAGE #		95	177										
11-016	4	87.000	80.00	37.00		1.50	77.00	87.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		3.425	3.150	1.457									0.059
		PISTON RING #		Total Clearance						REMARKS:			
SWI10096		mm	inch					Measure for CYL					
		-0.04	-0.00157					Clearance: 10.00 mm from Bottom of Skirt.					
								0.394 inch					
		Cir Clip						SURFACE TREATMENT					
		NONE						NONE					
		C17						NONE					
PAGE #		97	177										
11-020	4	74.000	58.00	29.00	-	1.50	60.00	73.980 Tolerance is +/- (mm inch) : 0.003 0.00012					
		2.913	2.283	1.142									0.059
		PISTON RING #		Total Clearance						REMARKS:			
SWM31027		mm	inch					Measure for CYL					
		-0.04	-0.00157					Clearance: 10.00 mm from Bottom of Skirt.					
								0.394 inch					
		Cir Clip						SURFACE TREATMENT					
		NONE						NONE					
		T01						NONE					
PAGE #		13											
11-027	4	85.000	72.20	35.20	-	5.20	72.00	84.980 Tolerance is +/- (mm inch) : 0.0045 0.00018					
		3.346	2.843	1.386									0.205
		PISTON RING #		Total Clearance						REMARKS:			
SWM31013		mm	inch					Measure for CYL					
		-0.04	-0.00157					Clearance: 30.00 mm from Bottom of Skirt.					
								1.181 inch					
		Cir Clip						SURFACE TREATMENT					
		NONE						NONE					
		J05						NONE					
PAGE #		17	211										

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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RED = NEW INFORMATION

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-028	4	91.100	88.70	48.70	-	2.30	75.00	YELLOW:	91.0775	91.3275	91.5775	91.8275	92.0775
		3.587	3.492	1.917		0.091	0.098		2.953	3.58573	3.59557	3.60541	3.61526
PISTON RING #		Total Clearance				2.00		RED:	91.0675	91.3175	91.5675	91.8175	92.0675
		mm	inch			0.079		3.58533	3.59518	3.60502	3.61486	3.62470	
SDM31038		-0.1016	-0.00400			4.00	29.00	BLUE:	91.0625	91.3125	91.5625	91.8125	92.0625
						0.157	1.142	3.58514	3.59498	3.60482	3.61467	3.62451	
								GREEN:	91.0725	91.3225	91.5725	91.8225	92.0725
								3.58553	3.59537	3.60522	3.61506	3.62490	
								REMARKS:					
								Measure for CYL		10.00 mm	from Bottom of Skirt.		
								Clearance:		0.394 inch			
PAGE #		21	213										
C17													
11-031	4	91.100	77.20	35.20		2.00	75.00	YELLOW:	91.0805	91.3305	91.5805	91.8305	92.0805
		3.587	3.039	1.386		0.079	0.079		2.953	3.58585	3.59569	3.60553	3.61537
PISTON RING #		Total Clearance				2.00		WHITE:	91.0725	91.3225	91.5725	91.8225	92.0725
		mm	inch			0.079		3.58553	3.59537	3.60522	3.61506	3.62490	
SWM31047		-0.04	-0.00157			4.00	22.00	BLUE:	91.0595	91.3095	91.5595	91.8095	92.0595
						0.157	0.866	3.58502	3.59486	3.60470	3.61455	3.62439	
								GREEN:	91.0675	91.3175	91.5675	91.8175	92.0675
								3.58533	3.59518	3.60502	3.61486	3.62470	
								REMARKS:					
								Measure for CYL		37.50 mm	from Bottom of Skirt.		
								Clearance:		1.476 inch			
PAGE #		29	215										
NONE													
J05													
11-035	4	91.100	78.30	36.00	+	1.50	79.00	YELLOW:	91.0775	91.3275	91.5775	91.8275	92.0775
		3.587	3.083	1.417		0.012	0.059		3.110	3.58573	3.59557	3.60541	3.61526
PISTON RING #		Total Clearance				1.50		RED:	91.0675	91.3175	91.5675	91.8175	92.0675
		mm	inch			0.059		3.58533	3.59518	3.60502	3.61486	3.62470	
SWM31039		-0.04	-0.00157			4.00	22.00	BLUE:	91.0625	91.3125	91.5625	91.8125	92.0625
						0.157	0.866	3.58514	3.59498	3.60482	3.61467	3.62451	
								GREEN:	91.0725	91.3225	91.5725	91.8225	92.0725
								3.58553	3.59537	3.60522	3.61506	3.62490	
								REMARKS:					
								Measure for CYL		25.00 mm	from Bottom of Skirt.		
								Clearance:		0.984 inch			
PAGE #		29	31	205	215								
C17													
11-049	4	76.000	65.00	30.00	-	1.20	63.00	YELLOW:	75.9730	76.2230	76.4730	76.7230	76.9730
		2.992	2.559	1.181		0.256	0.047		2.480	2.99106	3.00091	3.01075	3.02059
PISTON RING #		Total Clearance				2.00		RED:	75.9865	76.2365	76.4865	76.7365	76.9865
		mm	inch			0.079		2.99159	3.00144	3.01128	3.02112	3.03096	
SWN30052		-0.04	-0.00157			4.00	19.00	BLUE:	75.9795	76.2295	76.4795	76.7295	76.9795
						0.157	0.748	2.99132	3.00116	3.01100	3.02085	3.03069	
								REMARKS:					
								Measure for CYL		10.00 mm	from Bottom of Skirt.		
								Clearance:		0.394 inch			
PAGE #		221											
T01													

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-050	4	76.000	62.70	32.50	9.40	1.50	62.00	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		2.992	2.469	1.280		0.059			2.99124	3.00108	3.01093	3.02077	3.03061
PISTON RING #		Total Clearance				1.50		RED:	75.9675	76.2175	76.4675	76.7175	76.9675
SWN30057		mm	inch			0.059		2.99085	3.00069	3.01053	3.02037	3.03022	
		-0.04	-0.00157			4.00		BLUE:	75.9625	76.2125	76.4625	76.7125	76.9625
						0.157		2.99065	3.00049	3.01033	3.02018	3.03002	
								GREEN:	75.9725	76.2225	76.4725	76.7225	76.9725
								2.99104	3.00089	3.01073	3.02057	3.03041	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		C17						0.394 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-052	4	76.000	62.50	32.50	9.50	1.50	62.00	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		2.992	2.461	1.280		0.059			2.99124	3.00108	3.01093	3.02077	3.03061
PISTON RING #		Total Clearance				1.50		RED:	75.9675	76.2175	76.4675	76.7175	76.9675
SWN30057		mm	inch			0.059		2.99085	3.00069	3.01053	3.02037	3.03022	
		-0.04	-0.00157			4.00		BLUE:	75.9625	76.2125	76.4625	76.7125	76.9625
						0.157		2.99065	3.00049	3.01033	3.02018	3.03002	
								GREEN:	75.9725	76.2225	76.4725	76.7225	76.9725
								2.99104	3.00089	3.01073	3.02057	3.03041	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		C17						0.394 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-059	4	85.000	78.10	38.10	2.20	2.00	72.00	YELLOW:	84.9905	85.2405	85.4905	85.7405	85.9905
		3.346	3.075	1.500		0.079			3.34608	3.35593	3.36577	3.37561	3.38545
PISTON RING #		Total Clearance				2.00		WHITE:	84.9825	85.2325	85.4825	85.7325	85.9825
SWN30048		mm	inch			0.079		3.34577	3.35561	3.36545	3.37530	3.38514	
		-0.04	-0.00157			4.00		BLUE:	84.9695	85.2195	85.4695	85.7195	85.9695
						0.157		3.34526	3.35510	3.36494	3.37478	3.38463	
								GREEN:	84.9775	85.2275	85.4775	85.7275	85.9775
								3.34557	3.35541	3.36526	3.37510	3.38494	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		J05						0.591 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-060	4	85.000	78.00	38.00	3.00	2.00	72.00	YELLOW:	84.9430	85.1930	85.4430	85.6930	85.9430
		3.346	3.071	1.496		0.079			3.34421	3.35406	3.36390	3.37374	3.38358
PISTON RING #		Total Clearance				2.00		RED:	84.9565	85.2065	85.4565	85.7065	85.9565
SWN30048		mm	inch			0.079		3.34474	3.35459	3.36443	3.37427	3.38411	
		-0.04	-0.00157			4.00		BLUE:	84.9495	85.1995	85.4495	85.6995	85.9495
						0.157		3.34447	3.35431	3.36415	3.37400	3.38384	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		T01						0.591 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-062	4	84.500	65.00	30.00	2.20	1.50	61.00	YELLOW:	84.4775	84.7275	84.9775	85.2275	85.4775
		3.327	2.559	1.181	0.087	0.059	2.402		3.32589	3.33573	3.34557	3.35541	3.36526
PISTON RING #		Total Clearance		-	0.059	1.50	0.059	RED:	84.4675	84.7175	84.9675	85.2175	85.4675
SWN30053		mm	inch						mm	inch	mm	mm	mm
		-0.04	-0.00157			4.00	0.157	BLUE:	84.4625	84.7125	84.9625	85.2125	85.4625
						20.00	0.787	GREEN:	3.32530	3.33514	3.34498	3.35482	3.36467
									84.4725	84.7225	84.9725	85.2225	85.4725
									3.32569	3.33553	3.34537	3.35522	3.36506
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.					
		C17		NONE		NONE							
PAGE #		225						84.500 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-064	4	85.000	67.00	32.00	1.50	1.50	72.00	YELLOW:	84.9830	85.2330	85.4830	85.7330	85.9830
		3.346	2.638	1.260	0.059	0.059	2.835		3.34579	3.35563	3.36547	3.37531	3.38516
PISTON RING #		Total Clearance		-	0.10	1.50	0.059	RED:	84.9965	85.2465	85.4965	85.7465	85.9965
SWN30086		mm	inch						mm	inch	mm	mm	mm
		-0.04	-0.00157			4.00	0.157	BLUE:	3.34632	3.35616	3.36600	3.37585	3.38569
						21.00	0.827		84.9895	85.2395	85.4895	85.7395	85.9895
									3.34604	3.35589	3.36573	3.37557	3.38541
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 20.00 mm from Bottom of Skirt.					
		T01		NONE		NONE							
PAGE #		223						84.990 Tolerance is +/- (mm inch) : 0.003 0.00012					
11-068	4	83.000	90.00	48.00	2.00	2.50	71.00	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	3.543	1.890	0.079	0.098	2.795		3.26683	3.27667	3.28652	3.29636	3.30620
PISTON RING #		Total Clearance		-	0.02	2.00	0.079	RED:	82.9675	83.2175	83.4675	83.7175	83.9675
SDN31027		mm	inch						mm	inch	mm	mm	mm
		-0.1016	-0.00400			4.50	0.177	BLUE:	3.26644	3.27628	3.28612	3.29596	3.30581
						26.00	1.024		82.9625	83.2125	83.4625	83.7125	83.9625
									3.26624	3.27608	3.28593	3.29577	3.30561
									82.9725	83.2225	83.4725	83.7225	83.9725
									3.26663	3.27648	3.28632	3.29616	3.30600
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		C17		NONE		NONE							
PAGE #		225						83.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-069	4	87.000	72.00	32.00	2.50	1.50	64.00	YELLOW:	86.9905	87.2405	87.4905	87.7405	87.9905
		3.425	2.835	1.260	0.098	0.059	2.520		3.42482	3.43467	3.44451	3.45435	3.46419
PISTON RING #		Total Clearance		-	0.059	1.50	0.059	WHITE:	86.9825	87.2325	87.4825	87.7325	87.9825
SWN30054		mm	inch						mm	inch	mm	mm	mm
		-0.04	-0.00157			4.00	0.157	BLUE:	3.42451	3.43435	3.44419	3.45404	3.46388
						21.00	0.827		86.9695	87.2195	87.4695	87.7195	87.9695
									3.42400	3.43384	3.44368	3.45352	3.46337
									86.9775	87.2275	87.4775	87.7275	87.9775
									3.42431	3.43415	3.44400	3.45384	3.46368
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 0.00 mm from Bottom of Skirt.					
		J05		NONE		NONE							
PAGE #		225						86.980 Tolerance is +/- (mm inch) : 0.0045 0.00018					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-070	4	89.000	72.00	34.00	-	4.00	1.50	72.00	84.980 Tolerance is + / - (mm inch) : 0.0045 0.00018				
		3.504	2.835	1.339		0.157	0.059		2.835	YELLOW:	84.9850	85.2350	85.4850
PISTON RING #		Total Clearance											
		mm	inch										
SWN30059		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.	
				J05		NONE		NONE		NONE			
PAGE #		225											
11-071	6	83.000	78.00	38.00		2.00	2.00	72.00	83.000 Tolerance is + / - (mm inch) : 0.0025 0.00010				
		3.268	3.071	1.496		0.079	0.079		2.835	YELLOW:	82.9775	83.2275	83.4775
PISTON RING #		Total Clearance											
		mm	inch										
SWN30034		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 25.00 mm from Bottom of Skirt.	
				C17		NONE		NONE		NONE			
PAGE #		225											
11-076	6	83.000	78.00	38.00	-	0.80	2.00	72.00	82.980 Tolerance is + / - (mm inch) : 0.0045 0.00018				
		3.268	3.071	1.496		0.031	0.079		2.835	YELLOW:	82.9905	83.2405	83.4905
PISTON RING #		Total Clearance											
		mm	inch										
SWN30034		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 12.00 mm from Bottom of Skirt.	
				J05		NONE		NONE		NONE			
PAGE #		227											
11-081	6	86.000	78.30	38.00	-	3.00	2.00	72.00	85.950 Tolerance is + / - (mm inch) : 0.003 0.00012				
		3.386	3.083	1.496		0.118	0.079		2.835	YELLOW:	85.9430	86.1930	86.4430
PISTON RING #		Total Clearance											
		mm	inch										
SWN30047		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.	
				T01		NONE		NONE		NONE			
PAGE #		229											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-082	6	86.000	78.20	38.00	-	2.00	72.00	YELLOW:	85.9430	86.1930	86.4430	86.6930	86.9430
		3.386	3.079	1.496		0.079			0.079	2.835	3.38358	3.39343	3.40327
PISTON RING #		Total Clearance				2.00		RED:	85.9565	86.2065	86.4565	86.7065	86.9565
SWN30047		mm	inch			0.079		BLUE:	3.38411	3.39396	3.40380	3.41364	3.42348
		-0.04	-0.00157			4.00	21.00		3.38384	3.39368	3.40352	3.41337	3.42321
						0.157	0.827	REMARKS: Measure for CYL Clearance: 22.00 mm from Bottom of Skirt. 0.866 inch					
PAGE #		229						85.950 Tolerance is +/- (mm inch) : 0.003 0.00012					
11-084	6	86.000	78.80	38.50		1.50	72.00	YELLOW:	85.9430	86.1930	86.4430	86.6930	86.9430
		3.386	3.102	1.516		0.059			0.079	2.835	3.38358	3.39343	3.40327
PISTON RING #		Total Clearance				2.00		RED:	85.9565	86.2065	86.4565	86.7065	86.9565
SWN30066		mm	inch			0.079		BLUE:	3.38411	3.39396	3.40380	3.41364	3.42348
		-0.04	-0.00157			4.00	21.00		3.38384	3.39368	3.40352	3.41337	3.42321
						0.157	0.827	REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch					
PAGE #		229						85.950 Tolerance is +/- (mm inch) : 0.003 0.00012					
11-105	4	74.000	57.70	27.70	-	1.50	62.00	YELLOW:	73.9775	74.2275	74.4775	74.7275	74.9775
		2.913	2.272	1.091		0.059			0.059	2.441	2.91250	2.92234	2.93219
PISTON RING #		Total Clearance				1.50		RED:	73.9675	74.2175	74.4675	74.7175	74.9675
SWH30114		mm	inch			0.059		BLUE:	2.91211	2.92195	2.93179	2.94163	2.95148
		-0.04	-0.00157			4.00	17.00		73.9625	74.2125	74.4625	74.7125	74.9625
						0.157	0.669	GREEN:	2.91191	2.92175	2.93159	2.94144	2.95128
						0.157	0.669	REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		157						74.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-106	4	74.000	62.70	27.70		1.50	62.00	YELLOW:	73.9775	74.2275	74.4775	74.7275	74.9775
		2.913	2.469	1.091		0.059			0.059	2.441	2.91250	2.92234	2.93219
PISTON RING #		Total Clearance				1.50		RED:	73.9675	74.2175	74.4675	74.7175	74.9675
SWH30114		mm	inch			0.059		BLUE:	2.91211	2.92195	2.93179	2.94163	2.95148
		-0.04	-0.00157			4.00	17.00		73.9625	74.2125	74.4625	74.7125	74.9625
						0.157	0.669	GREEN:	2.91191	2.92175	2.93159	2.94144	2.95128
						0.157	0.669	REMARKS: Measure for CYL Clearance: 20.00 mm from Bottom of Skirt. 0.787 inch					
PAGE #		157						74.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-111	4	74.000	59.80	29.80	-	4.70	1.20	74.000	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		2.913	2.354	1.173		0.185	0.047						2.205
PISTON RING #		Total Clearance						REMARKS:					
SWH30253		mm	inch					Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				C17		NONE							
PAGE #		157											
11-113	4	74.000	57.50	27.50	-	2.50	1.50	74.000	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		2.913	2.264	1.083		0.098	0.059						2.441
PISTON RING #		Total Clearance						REMARKS:					
SWH30114		mm	inch					Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				C17		NONE							
PAGE #		161											
11-122	4	80.000	65.30	29.80	-	0.50	1.50	79.950	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.150	2.571	1.173		0.020	0.059						2.402
PISTON RING #		Total Clearance						REMARKS:					
SWH30251		mm	inch					Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.					
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				T01		NONE							
PAGE #		161											
11-124	4	77.000	61.80	29.00	+	0.80	1.50	76.970	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.031	2.433	1.142		0.031	0.059						2.559
PISTON RING #		Total Clearance						REMARKS:					
SWT20045		mm	inch					Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				T01		NONE							
PAGE #		199											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-127	4	77.000	60.60	28.60	2.00	1.50	65.00	YELLOW:	76.9775	77.2275	77.4775	77.7275	77.9775
		3.031	2.386	1.126	0.079	0.059	2.559		3.03061	3.04045	3.05030	3.06014	3.06998
PISTON RING #		Total Clearance				2.00		RED:	76.9675	77.2175	77.4675	77.7175	77.9675
SWT20045		mm	inch			0.079		3.03022	3.04006	3.04990	3.05974	3.06959	
		-0.04	-0.00157			4.00		BLUE:	76.9625	77.2125	77.4625	77.7125	77.9625
						0.157		3.03002	3.03986	3.04970	3.05955	3.06939	
		Cir Clip						GREEN:	76.9725	77.2225	77.4725	77.7225	77.9725
		NONE						3.03041	3.04026	3.05010	3.05994	3.06978	
		C17						REMARKS:					
		SURFACE TREATMENT						Measure for CYL Clearance: 1.00 mm from Bottom of Skirt.					
		NONE											
		C17											
PAGE #		199											
11-129	4	86.000	70.80	34.00	2.60	1.50	67.00	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
		3.386	2.787	1.339	0.102	0.059	2.638		3.38494	3.39478	3.40463	3.41447	3.42431
PISTON RING #		Total Clearance				1.50		RED:	85.9675	86.2175	86.4675	86.7175	86.9675
SWT20048		mm	inch			0.059		3.38455	3.39439	3.40423	3.41407	3.42392	
		-0.04	-0.00157			4.00		BLUE:	85.9625	86.2125	86.4625	86.7125	86.9625
						0.157		3.38435	3.39419	3.40404	3.41388	3.42372	
		Cir Clip						GREEN:	85.9725	86.2225	86.4725	86.7225	86.9725
		NONE						3.38474	3.39459	3.40443	3.41427	3.42411	
		C17						REMARKS:					
		SURFACE TREATMENT						Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		NONE											
		C17											
PAGE #		185	201										
11-140	4	75.000	75.00	36.00		2.00	61.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	2.953	1.417		0.079	2.402		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				2.00		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWT10052		mm	inch			0.079		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			4.00		BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.157		2.95128	2.96112	2.97096	2.98081	2.99065	
		Cir Clip						GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
		NONE						2.95167	2.96152	2.97136	2.98120	2.99104	
		C17						REMARKS:					
		SURFACE TREATMENT						Measure for CYL Clearance: 12.00 mm from Bottom of Skirt.					
		NONE											
		C17											
PAGE #		253											
11-141	4	75.000	69.00	36.00	4.00	1.50	61.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	2.717	1.417	0.157	0.059	2.402		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				1.50		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWT10109		mm	inch			0.059		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			4.00		BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.157		2.95128	2.96112	2.97096	2.98081	2.99065	
		Cir Clip						GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
		NONE						2.95167	2.96152	2.97136	2.98120	2.99104	
		C17						REMARKS:					
		SURFACE TREATMENT						Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		NONE											
		C17											
PAGE #		253											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm			
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch			
11-142	4	77.500	61.00	31.00	-	3.20	1.50	77.500	Tolerance is +/- (mm inch) :	0.0025		0.00010				
		3.051	2.402	1.220		0.126	0.059			2.402	YELLOW:	77.4775	77.7275	77.9775	78.2275	78.4775
											3.05030	3.06014	3.06998	3.07982	3.08967	
PISTON RING #		Total Clearance				1.50		RED:	77.4675	77.7175	77.9675	78.2175	78.4675			
SWT10078		mm	inch			0.059		BLUE:	3.04990	3.05974	3.06959	3.07943	3.08927			
		-0.04	-0.00157			2.80	18.00	GREEN:	77.4625	77.7125	77.9625	78.2125	78.4625			
						0.110	0.709		3.04970	3.05955	3.06939	3.07923	3.08907			
		Cir Clip						REMARKS:	77.4725	77.7225	77.9725	78.2225	78.4725			
		NONE						Measure for CYL	3.05010	3.05994	3.06978	3.07963	3.08947			
		C17				NONE		Clearance:	10.00 mm		from Bottom of Skirt.					
						NONE			0.394 inch							
11-143	4	77.500	61.00	31.00	-	3.00	1.50	77.500	Tolerance is +/- (mm inch) :	0.0025		0.00010				
		3.051	2.402	1.220		0.118	0.059			2.402	YELLOW:	77.4775	77.7275	77.9775	78.2275	78.4775
											3.05030	3.06014	3.06998	3.07982	3.08967	
PISTON RING #		Total Clearance				1.50		RED:	77.4675	77.7175	77.9675	78.2175	78.4675			
SWT10078		mm	inch			0.059		BLUE:	3.04990	3.05974	3.06959	3.07943	3.08927			
		-0.04	-0.00157			2.80	18.00	GREEN:	77.4625	77.7125	77.9625	78.2125	78.4625			
						0.110	0.709		3.04970	3.05955	3.06939	3.07923	3.08907			
		Cir Clip						REMARKS:	77.4725	77.7225	77.9725	78.2225	78.4725			
		NONE						Measure for CYL	3.05010	3.05994	3.06978	3.07963	3.08947			
		C17				NONE		Clearance:	10.00 mm		from Bottom of Skirt.					
						NONE			0.394 inch							
11-144	4	81.000	60.50	30.50	-	3.00	1.50	80.980	Tolerance is +/- (mm inch) :	0.003		0.00012				
		3.189	2.382	1.201		0.118	0.059			2.402	YELLOW:	80.9730	81.2230	81.4730	81.7230	81.9730
											3.18791	3.19776	3.20760	3.21744	3.22728	
PISTON RING #		Total Clearance				1.50		RED:	80.9865	81.2365	81.4865	81.7365	81.9865			
SWT10108		mm	inch			0.059		BLUE:	3.18844	3.19829	3.20813	3.21797	3.22781			
		-0.04	-0.00157			2.80	18.00		80.9795	81.2295	81.4795	81.7295	81.9795			
						0.110	0.709		3.18817	3.19801	3.20785	3.21770	3.22754			
		Cir Clip						REMARKS:								
		NONE						Measure for CYL	13.00 mm		from Bottom of Skirt.					
		T01				NONE		Clearance:	0.512 inch							
						NONE										
11-145	4	85.000	91.10	39.00	+	6.10	2.00	84.970	Tolerance is +/- (mm inch) :	0.003		0.00012				
		3.346	3.587	1.535		0.240	0.079			2.598	YELLOW:	84.9630	85.2130	85.4630	85.7130	85.9630
											3.34500	3.35484	3.36469	3.37453	3.38437	
PISTON RING #		Total Clearance				2.00		RED:	84.9765	85.2265	85.4765	85.7265	85.9765			
SWT10040		mm	inch			0.079		BLUE:	3.34553	3.35537	3.36522	3.37506	3.38490			
		-0.04	-0.00157			4.00	22.00		84.9695	85.2195	85.4695	85.7195	85.9695			
						0.157	0.866		3.34526	3.35510	3.36494	3.37478	3.38463			
		Cir Clip						REMARKS:								
		NONE						Measure for CYL	25.00 mm		from Bottom of Skirt.					
		T01				NONE		Clearance:	0.984 inch							
						NONE										

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-149	4	85.000	82.50	35.20	-	5.40	1.50	66.00	84.980 Tolerance is +/- (mm inch) : 0.003 0.00012				
		3.346	3.248	1.386		0.213	0.059		2.598	YELLOW:	84.9730	85.2230	85.4730
PISTON RING #		Total Clearance											
SWT10059		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				T01		NONE							
								REMARKS:					
								Measure for CYL		30.00 mm		from Bottom of Skirt.	
								Clearance:		1.181 inch			
11-153	4	88.500	84.80	39.80		2.00	75.00	88.490 Tolerance is +/- (mm inch) : 0.003 0.00012					
		3.484	3.339	1.567		0.079	2.953	YELLOW:	88.4830	88.7330	88.9830	89.2330	89.4830
PISTON RING #		Total Clearance											
SWT10043		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				T01		NONE							
								REMARKS:					
								Measure for CYL		20.00 mm		from Bottom of Skirt.	
								Clearance:		0.787 inch			
11-155	4	86.000	70.00	35.00	-	5.00	1.50	66.00	85.980 Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.386	2.756	1.378		0.197	0.059		2.598	YELLOW:	85.9905	86.2405	86.4905
PISTON RING #		Total Clearance											
SWT10090		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				J05		NONE							
								REMARKS:					
								Measure for CYL		mm		from Bottom of Skirt.	
								Clearance:		inch			
11-157	4	88.500	88.10	38.70	+	2.80	2.00	75.00	88.467 Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.484	3.469	1.524		0.110	0.079		2.953	YELLOW:	88.4775	88.7275	88.9775
PISTON RING #		Total Clearance											
SWT10043		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
				NONE		SURFACE TREATMENT							
				J05		NONE							
								REMARKS:					
								Measure for CYL		20.00 mm		from Bottom of Skirt.	
								Clearance:		0.787 inch			

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-171	6	90.000	95.50	47.50		3.00	80.00	YELLOW:	89.9905	90.2405	90.4905	90.7405	90.9905
		3.543	3.760	1.870		0.118	3.150		3.54293	3.55278	3.56262	3.57246	3.58230
		Total Clearance											
PISTON RING #		Total Clearance						WHITE:	89.9825	90.2325	90.4825	90.7325	90.9825
SWT10026		mm	inch			0.118		3.54262	3.55246	3.56230	3.57215	3.58199	
		-0.04	-0.00157			4.00		BLUE:	89.9695	90.2195	90.4695	90.7195	90.9695
						0.157		3.54211	3.55195	3.56179	3.57163	3.58148	
		Cir Clip						GREEN:	89.9775	90.2275	90.4775	90.7275	90.9775
		NONE						3.54242	3.55226	3.56211	3.57195	3.58179	
		SURFACE TREATMENT						REMARKS:					
		NONE						Measure for CYL Clearance: mm from Bottom of Skirt.					
		NONE											
		J05											
PAGE # 263													
11-174	6	94.000	95.50	47.22	+	6.50	72.00	YELLOW:	93.9630	94.2130	94.4630	94.7130	94.9630
		3.701	3.760	1.859		0.256	2.835		3.69933	3.70917	3.71902	3.72886	3.73870
		Total Clearance											
PISTON RING #		Total Clearance						RED:	93.9765	94.2265	94.4765	94.7265	94.9765
SWT10049		mm	inch			0.098		3.69986	3.70970	3.71955	3.72939	3.73923	
		-0.04	-0.00157			4.00		BLUE:	93.9695	94.2195	94.4695	94.7195	94.9695
						0.157		3.69959	3.70943	3.71927	3.72911	3.73896	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		SURFACE TREATMENT											
		NONE											
		T01											
PAGE # 265													
11-175	6	94.000	95.80	47.58	+	0.30	72.00	YELLOW:	93.9775	94.2275	94.4775	94.7275	94.9775
		3.701	3.772	1.873		0.012	2.835		3.69990	3.70974	3.71959	3.72943	3.73927
		Total Clearance											
PISTON RING #		Total Clearance						RED:	93.9675	94.2175	94.4675	94.7175	94.9675
SWT10049		mm	inch			0.098		3.69951	3.70935	3.71919	3.72904	3.73888	
		-0.04	-0.00157			4.00		BLUE:	93.9625	94.2125	94.4625	94.7125	94.9625
						0.157		3.69931	3.70915	3.71900	3.72884	3.73868	
		Cir Clip						GREEN:	93.9725	94.2225	94.4725	94.7225	94.9725
		NONE						3.69970	3.70955	3.71939	3.72923	3.73907	
		SURFACE TREATMENT						REMARKS:					
		NONE						Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		NONE											
		C17											
PAGE # 265													
11-236	4	87.000	67.00	32.00	-	2.20	72.00	YELLOW:	86.9630	87.2130	87.4630	87.7130	87.9630
		3.425	2.638	1.260		0.087	2.835		3.42374	3.43358	3.44343	3.45327	3.46311
		Total Clearance											
PISTON RING #		Total Clearance						RED:	86.9765	87.2265	87.4765	87.7265	87.9765
SWN30054		mm	inch			0.059		3.42427	3.43411	3.44396	3.45380	3.46364	
		-0.04	-0.00157			4.00		BLUE:	86.9695	87.2195	87.4695	87.7195	87.9695
						0.157		3.42400	3.43384	3.44368	3.45352	3.46337	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		SURFACE TREATMENT											
		NONE											
		T01											
PAGE # 225													

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch	
PAGE #		225						89.000 Tolerance is +/- (mm inch) : 0.0025 0.00010						
11-238	4	89.000	70.40	33.80	-	4.00	2.00	YELLOW:	88.9775	89.2275	89.4775	89.7275	89.9775	
		3.504	2.772	1.331		0.157	0.079		2.618	3.50305	3.51289	3.52274	3.53258	3.54242
		PISTON RING #		Total Clearance					1.50	RED:	88.9675	89.2175	89.4675	89.7175
SWN30085		mm	inch			0.059	BLUE:	3.50266	3.51250	3.52234	3.53219	3.54203		
		-0.04	-0.00157			4.00	21.00	GREEN:	88.9625	89.2125	89.4625	89.7125	89.9625	
						0.157	0.827		3.50246	3.51230	3.52215	3.53199	3.54183	
		Cir Clip						REMARKS:						
		NONE				SURFACE TREATMENT		Measure for CYL						
		C17				NONE		Clearance: 10.00 mm from Bottom of Skirt.						
								0.394 inch						
PAGE #		259						91.970 Tolerance is +/- (mm inch) : 0.0045 0.00018						
11-239	4	92.000	63.40	34.40	-	1.60	1.50	YELLOW:	91.9805	92.2305	92.4805	92.7305	92.9805	
		3.622	2.496	1.354		0.063	0.059		2.756	3.62128	3.63112	3.64096	3.65081	3.66065
		PISTON RING #		Total Clearance					1.50	WHITE:	91.9725	92.2225	92.4725	92.7225
SWT10103		mm	inch			0.059	22.00	BLUE:	3.62096	3.63081	3.64065	3.65049	3.66033	
		-0.04	-0.00157			4.00	0.866	GREEN:	91.9595	92.2095	92.4595	92.7095	92.9595	
						0.157			3.62045	3.63030	3.64014	3.64998	3.65982	
		Cir Clip						REMARKS:						
		NONE				SURFACE TREATMENT		Measure for CYL						
		J05				NONE		Clearance: 26.00 mm from Bottom of Skirt.						
								1.024 inch						
PAGE #		259						91.960 Tolerance is +/- (mm inch) : 0.0045 0.00018						
11-241	4	92.000	92.50	39.00	+	1.50	2.00	YELLOW:	91.9705	92.2205	92.4705	92.7205	92.9705	
		3.622	3.642	1.535		0.059	0.079		2.953	3.62089	3.63073	3.64057	3.65041	3.66026
		PISTON RING #		Total Clearance					1.50	WHITE:	91.9625	92.2125	92.4625	92.7125
SXT10077		mm	inch			0.26	22.00	BLUE:	3.62057	3.63041	3.64026	3.65010	3.65994	
		-0.04	-0.00157			4.00	0.866	GREEN:	91.9495	92.1995	92.4495	92.6995	92.9495	
						0.157			3.62006	3.62990	3.63974	3.64959	3.65943	
		Cir Clip						REMARKS:						
		NONE				SURFACE TREATMENT		Measure for CYL						
		J05				NONE		Clearance: 32.00 mm from Bottom of Skirt.						
								1.260 inch						
PAGE #		3						75.000 Tolerance is +/- (mm inch) : 0.0025 0.00010						
11-502	4	75.000	63.00	30.00	+	3.00	1.20	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775	
		2.953	2.480	1.181		0.118	0.047		2.205	2.95187	2.96171	2.97156	2.98140	2.99124
		PISTON RING #		Total Clearance					1.50	RED:	74.9675	75.2175	75.4675	75.7175
SWH30362		mm	inch			0.059	19.00	BLUE:	2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			2.00	0.748	GREEN:	74.9625	75.2125	75.4625	75.7125	75.9625	
						0.079			2.95128	2.96112	2.97096	2.98081	2.99065	
		Cir Clip						REMARKS:						
		NONE				SURFACE TREATMENT		Measure for CYL						
		C17				NONE		Clearance: 15.00 mm from Bottom of Skirt.						
								0.591 inch						

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-514	4	75.000	59.60	29.50	1.00	1.20	56.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	2.346	1.161	-	0.039	0.047		2.205	2.95187	2.96171	2.97156	2.98140
PISTON RING #		Total Clearance				1.50		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWH30362		mm	inch			0.059		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			2.80	19.00	BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.110	0.748	2.95128	2.96112	2.97096	2.98081	2.99065	
				Cir Clip				GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
				NONE				2.95167	2.96152	2.97136	2.98120	2.99104	
				C17		NONE		REMARKS: Measure for CYL Clearance: 30.00 mm from Bottom of Skirt. 1.181 inch					
PAGE #		159							75.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
11-515	4	74.000	59.80	29.80	2.70	1.50	56.00	YELLOW:	73.9775	74.2275	74.4775	74.7275	74.9775
		2.913	2.354	1.173	-	0.106	0.059		2.205	2.91250	2.92234	2.93219	2.94203
PISTON RING #		Total Clearance				1.50		RED:	73.9675	74.2175	74.4675	74.7175	74.9675
SWH30186		mm	inch			0.059		2.91211	2.92195	2.93179	2.94163	2.95148	
		-0.04	-0.00157			4.00	19.00	BLUE:	73.9625	74.2125	74.4625	74.7125	74.9625
						0.157	0.748	2.91191	2.92175	2.93159	2.94144	2.95128	
				Cir Clip				GREEN:	73.9725	74.2225	74.4725	74.7225	74.9725
				NONE				2.91230	2.92215	2.93199	2.94183	2.95167	
				C17		NONE		REMARKS: Measure for CYL Clearance: 17.50 mm from Bottom of Skirt. 0.689 inch					
PAGE #		159							74.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
11-518	4	75.000	60.80	30.80		1.20	56.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	2.394	1.213		0.047	2.205		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				1.50		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWH30365		mm	inch			0.059		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			2.80	19.00	BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.110	0.748	2.95128	2.96112	2.97096	2.98081	2.99065	
				Cir Clip				GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
				NONE				2.95167	2.96152	2.97136	2.98120	2.99104	
				C17		NONE		REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		159							75.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
11-519	4	82.700	65.30	29.80	2.40	1.50	62.00	YELLOW:	82.6905	82.9405	83.1905	83.4405	83.6905
		3.256	2.571	1.173	-	0.094	0.059		2.441	3.25553	3.26537	3.27522	3.28506
PISTON RING #		Total Clearance				1.50		WHITE:	82.6825	82.9325	83.1825	83.4325	83.6825
SWH30366		mm	inch			0.059		3.25522	3.26506	3.27490	3.28474	3.29459	
		-0.04	-0.00157			4.00	20.00	BLUE:	82.6695	82.9195	83.1695	83.4195	83.6695
						0.157	0.787	3.25470	3.26455	3.27439	3.28423	3.29407	
				Cir Clip				GREEN:	82.6775	82.9275	83.1775	83.4275	83.6775
				NONE				3.25502	3.26486	3.27470	3.28455	3.29439	
				J05		NONE		REMARKS: Measure for CYL Clearance: 30.00 mm from Bottom of Skirt. 1.181 inch					
PAGE #		161							82.680 Tolerance is +/- (mm inch) : 0.0045 0.00018				

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)				
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm				
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch					
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID					
11-520	4	82.700	65.20	29.80	-	1.70	1.50	YELLOW:	82.6905	82.9405	83.1905	83.4405	83.6905				
		3.256	2.567	1.173		0.067	0.059		2.402	3.25553	3.26537	3.27522	3.28506	3.29490			
PISTON RING #		Total Clearance				2.90	1.50	WHITE:	82.6825	82.9325	83.1825	83.4325	83.6825				
		mm	inch			0.11	0.059		3.25522	3.26506	3.27490	3.28474	3.29459				
SWH30366		-0.04	-0.00157			1.90	4.00	BLUE:	82.6695	82.9195	83.1695	83.4195	83.6695				
						0.07	0.157		3.25470	3.26455	3.27439	3.28423	3.29407				
				Cir Clip				REMARKS: Measure for CYL Clearance: 0.00 mm from Bottom of Skirt.	82.6775				82.9275	83.1775	83.4275	83.6775	
				NONE		SURFACE TREATMENT			3.25502				3.26486	3.27470	3.28455	3.29439	
				J05		NONE											
PAGE #		161						82.680		Tolerance is +/- (mm inch):		0.0045	0.00013				
11-521	4	74.000	59.70	29.70	-	3.30	1.00	YELLOW:									
		2.913	2.350	1.169		0.130	0.039		2.205								
PISTON RING #		Total Clearance				1.20	1.20	RED:									
		mm	inch			0.047	0.047										
SWH30374		-0.04	-0.00157			2.80	19.00	BLUE:									
						0.110	0.748										
				Cir Clip				REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.	GREEN:								
				NONE		SURFACE TREATMENT											
				T05		NONE											
PAGE #		159						74.000		Tolerance is +/- (mm inch):		0.0025	0.00010				
11-524	4	81.000	65.20	29.80	-	2.00	1.20	YELLOW:	80.9775	81.2275	81.4775	81.7275	81.9775				
		3.189	2.567	1.173		0.079	0.047		2.441	3.18809	3.19793	3.20778	3.21762	3.22746			
PISTON RING #		Total Clearance				1.50	1.50	RED:	80.9675	81.2175	81.4675	81.7175	81.9675				
		mm	inch			0.059	0.059		3.18770	3.19754	3.20738	3.21722	3.22707				
SWH30375		-0.04	-0.00157			2.80	20.00	BLUE:	80.9625	81.2125	81.4625	81.7125	81.9625				
						0.110	0.787		3.18750	3.19734	3.20719	3.21703	3.22687				
				Cir Clip				REMARKS: Measure for CYL Clearance: 9.00 mm from Bottom of Skirt.	GREEN:				80.9725	81.2225	81.4725	81.7225	81.9725
				NONE		SURFACE TREATMENT							3.18789	3.19774	3.20758	3.21742	3.22726
				C17		NONE											
PAGE #		161						81.000		Tolerance is +/- (mm inch):		0.0025	0.00010				
11-525	4	81.000	65.40	30.80	-	2.10	1.20	YELLOW:	80.9775	81.2275	81.4775	81.7275	81.9775				
		3.189	2.575	1.213		0.083	0.047		2.244	3.18809	3.19793	3.20778	3.21762	3.22746			
PISTON RING #		Total Clearance				1.50	1.50	RED:	80.9675	81.2175	81.4675	81.7175	81.9675				
		mm	inch			0.059	0.059		3.18770	3.19754	3.20738	3.21722	3.22707				
SWH30375		-0.04	-0.00157			2.80	22.00	BLUE:	80.9625	81.2125	81.4625	81.7125	81.9625				
						0.110	0.866		3.18750	3.19734	3.20719	3.21703	3.22687				
				Cir Clip				REMARKS: Measure for CYL Clearance: 9.00 mm from Bottom of Skirt.	GREEN:				80.9725	81.2225	81.4725	81.7225	81.9725
				NONE		SURFACE TREATMENT							3.18789	3.19774	3.20758	3.21742	3.22726
				C17		NONE											
PAGE #		161						81.000		Tolerance is +/- (mm inch):		0.0025	0.00010				

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-529	4	75.500	58.00	29.00	0.70	1.50	60.00	YELLOW:	75.4775	75.7275	75.9775	76.2275	76.4775
		2.972	2.283	1.142	0.028	0.059	2.362		2.97156	2.98140	2.99124	3.00108	3.01093
PISTON RING #		Total Clearance				1.50		RED:	75.4675	75.7175	75.9675	76.2175	76.4675
SWM31063		mm	inch			0.059		2.97116	2.98100	2.99085	3.00069	3.01053	
		-0.04	-0.00157			4.00		BLUE:	75.4625	75.7125	75.9625	76.2125	76.4625
						0.157		2.97096	2.98081	2.99065	3.00049	3.01033	
								GREEN:	75.4725	75.7225	75.9725	76.2225	76.4725
								2.97136	2.98120	2.99104	3.00089	3.01073	
PAGE #		13	167	211	75.500		Tolerance is +/- (mm inch) :		0.0025	0.00010			
CIR CLIP		SURFACE TREATMENT						REMARKS:		Measure for CYL Clearance: 7.00 mm from Bottom of Skirt.			
		NONE											
		C17		NONE									
11-530	4	75.500	58.60	29.40	3.60	1.50	60.00	YELLOW:	75.4775	75.7275	75.9775	76.2275	76.4775
		2.972	2.307	1.157	0.142	0.059	2.362		2.97156	2.98140	2.99124	3.00108	3.01093
PISTON RING #		Total Clearance				1.50		RED:	75.4675	75.7175	75.9675	76.2175	76.4675
SWM31063		mm	inch			0.059		2.97116	2.98100	2.99085	3.00069	3.01053	
		-0.04	-0.00157			4.00		BLUE:	75.4625	75.7125	75.9625	76.2125	76.4625
						0.157		2.97096	2.98081	2.99065	3.00049	3.01033	
								GREEN:	75.4725	75.7225	75.9725	76.2225	76.4725
								2.97136	2.98120	2.99104	3.00089	3.01073	
PAGE #		13	167	211	75.500		Tolerance is +/- (mm inch) :		0.0025	0.00010			
CIR CLIP		SURFACE TREATMENT						REMARKS:		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.			
		NONE											
		C17		NONE									
11-531	4	75.500	58.00	29.00	0.50	1.20	56.00	YELLOW:	75.4850	75.7350	75.9850	76.2350	76.4850
		2.972	2.283	1.142	0.020	0.047	2.205		2.97185	2.98169	2.99154	3.00138	3.01122
PISTON RING #		Total Clearance				1.50		WHITE:	75.4825	75.7325	75.9825	76.2325	76.4825
SWM31076		mm	inch			0.059		2.97175	2.98159	2.99144	3.00128	3.01112	
		-0.02	-0.00079			3.00		BLUE:	75.4750	75.7250	75.9750	76.2250	76.4750
						0.118		2.97146	2.98130	2.99114	3.00098	3.01083	
								GREEN:	75.4775	75.7275	75.9775	76.2275	76.4775
								2.97156	2.98140	2.99124	3.00108	3.01093	
PAGE #		13	211	75.480		Tolerance is +/- (mm inch) :		0.0045	0.00018				
CIR CLIP		SURFACE TREATMENT						REMARKS:		Measure for CYL Clearance: 19.00 mm from Bottom of Skirt.			
		NONE											
		J05		NONE									
11-536	4	86.500	67.40	35.00	0.30	1.20	62.00	YELLOW:	86.4775	86.7275	86.9775	87.2275	87.4775
		3.406	2.654	1.378	0.012	0.047	2.441		3.40463	3.41447	3.42431	3.43415	3.44400
PISTON RING #		Total Clearance				1.50		RED:	86.4675	86.7175	86.9675	87.2175	87.4675
SWM31072		mm	inch			0.059		3.40423	3.41407	3.42392	3.43376	3.44360	
		-0.04	-0.00157			3.00		BLUE:	86.4625	86.7125	86.9625	87.2125	87.4625
						0.118		3.40404	3.41388	3.42372	3.43356	3.44341	
								GREEN:	86.4725	86.7225	86.9725	87.2225	87.4725
								3.40443	3.41427	3.42411	3.43396	3.44380	
PAGE #		213	86.500		Tolerance is +/- (mm inch) :		0.0025	0.00010					
CIR CLIP		SURFACE TREATMENT						REMARKS:		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.			
		NONE											
		C17		NONE									

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-538	4	86.500	72.40	34.90	+	0.50	1.50	72.00	86.500	86.750	86.975	87.225	87.475
		3.406	2.850	1.374		0.020	0.059						
PISTON RING #		Total Clearance		+	0.30	1.50	21.00	86.500	86.750	86.975	87.225	87.475	87.725
SWM31037		mm	inch										
		-0.04	-0.00157					86.4625	86.7125	86.9625	87.2125	87.4625	87.7125
								3.40404	3.41388	3.42372	3.43356	3.44341	3.45325
								86.4725	86.7225	86.9725	87.2225	87.4725	87.7225
								3.40443	3.41427	3.42411	3.43396	3.44380	3.45364
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		C17		NONE		NONE							
PAGE #		17	211					84.954 Tolerance is +/- (mm inch) : 0.0045 0.0018					
11-539	4	85.000	72.30	35.20	-	5.00	1.50	72.00	84.954	85.204	85.454	85.704	85.954
		3.346	2.846	1.386		0.197	0.059						
PISTON RING #		Total Clearance		-	7.30	1.50	21.00	84.954	85.204	85.454	85.704	85.954	86.204
SWM31044		mm	inch										
		-0.04	-0.00157					3.34474	3.35459	3.36443	3.37427	3.38411	3.39395
								84.9435	85.1935	85.4435	85.6935	85.9435	86.1935
								3.34423	3.35407	3.36392	3.37376	3.38360	3.39344
								84.9515	85.2015	85.4515	85.7015	85.9515	86.2015
								3.34455	3.35439	3.36423	3.37407	3.38391	3.39375
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 17.00 mm from Bottom of Skirt.					
		J05		NONE		NONE							
PAGE #		17	213					85.000 Tolerance is +/- (mm inch) : 0.0025 0.0010					
11-540	4	85.000	67.00	35.00	-	2.10	1.20	66.00	85.000	85.250	85.475	85.725	85.975
		3.346	2.638	1.378		0.083	0.047						
PISTON RING #		Total Clearance			1.50	1.50	21.00	85.000	85.250	85.475	85.725	85.975	86.225
SWM31048		mm	inch										
		-0.04	-0.00157					3.34518	3.35502	3.36486	3.37470	3.38455	3.39439
								84.9625	85.2125	85.4625	85.7125	85.9625	86.2125
								3.34498	3.35482	3.36467	3.37451	3.38435	3.39419
								84.9725	85.2225	85.4725	85.7225	85.9725	86.2225
								3.34537	3.35522	3.36506	3.37490	3.38474	3.39458
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		C17		NONE		NONE							
PAGE #		33	215					91.000 Tolerance is +/- (mm inch) : 0.0025 0.0010					
11-543	6	91.000	66.50	32.00	+	0.50	1.20	64.00	91.000	91.250	91.475	91.725	91.975
		3.587	2.618	1.260		0.020	0.047						
PISTON RING #		Total Clearance			1.50	1.50	22.00	91.000	91.250	91.475	91.725	91.975	92.225
SWM31078		mm	inch										
		-0.04	-0.00157					3.58533	3.59518	3.60502	3.61486	3.62470	3.63454
								91.0625	91.3125	91.5625	91.8125	92.0625	92.3125
								3.58514	3.59498	3.60482	3.61467	3.62451	3.63435
								91.0725	91.3225	91.5725	91.8225	92.0725	92.3225
								3.58553	3.59537	3.60522	3.61506	3.62490	3.63474
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		C17		NONE		NONE							

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch	
11-545	4	80.600	72.00	34.00	+	4.00	1.50	64.00	80.600 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		3.173	2.835	1.339		0.157	0.059	2.520	YELLOW:	80.5775	80.8275	81.0775	81.3275	81.5775
PISTON RING #		Total Clearance				1.50			RED:	80.5675	80.8175	81.0675	81.3175	81.5675
SWM31041		mm	inch			0.059			BLUE:	3.17195	3.18179	3.19163	3.20148	3.21132
		-0.04	-0.00157			4.00	19.00		GREEN:	80.5625	80.8125	81.0625	81.3125	81.5625
						0.157	0.748			3.17175	3.18159	3.19144	3.20128	3.21112
				Cir Clip				REMARKS:	Measure for CYL 15.00 mm from Bottom of Skirt. Clearance: 0.591 inch					
				NONE		SURFACE TREATMENT								
				C17		NONE								
PAGE #		13	211											
11-546	4	85.000	67.00	35.00	-	5.40	1.20	66.00	84.980 Tolerance is +/- (mm inch) : 0.0045 0.00018					
		3.346	2.638	1.378		0.213	0.047	2.598	YELLOW:	84.9905	85.2405	85.4905	85.7405	85.9905
PISTON RING #		Total Clearance				1.50			WHITE:	84.9825	85.2325	85.4825	85.7325	85.9825
SWM31048		mm	inch			0.059			BLUE:	3.34577	3.35561	3.36545	3.37530	3.38514
		-0.04	-0.00157			3.00	21.00		GREEN:	84.9695	85.2195	85.4695	85.7195	85.9695
						0.118	0.827			3.34526	3.35510	3.36494	3.37478	3.38463
				Cir Clip				REMARKS:	Measure for CYL 26.00 mm from Bottom of Skirt. Clearance: 1.024 inch					
				NONE		SURFACE TREATMENT								
				J05		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE #		17	213											
11-547	6	91.100	65.90	31.90	-	3.40	1.20	64.00	91.080 Tolerance is +/- (mm inch) : 0.01 0.00039					
		3.587	2.594	1.256		0.134	0.047	2.520	RED:	91.0700	91.3200	91.5700	91.8200	92.0700
PISTON RING #		Total Clearance				1.50				3.58543	3.59528	3.60512	3.61496	3.62480
SWM31078		mm	inch			0.059			GREEN:	91.0900	91.3400	91.5900	91.8400	92.0900
		-0.04	-0.00157			3.00	22.00			3.58622	3.59606	3.60591	3.61575	3.62559
						0.118	0.866		REMARKS:	Measure for CYL 15.00 mm from Bottom of Skirt. Clearance: 0.591 inch				
				Cir Clip										
				NONE		SURFACE TREATMENT								
				T03		NONE								
PAGE #		33	215											
11-549	6	91.100	68.20	32.20	-	3.00	1.50	64.00	91.100 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		3.587	2.685	1.268		0.118	0.059	2.520	YELLOW:	91.0775	91.3275	91.5775	91.8275	92.0775
PISTON RING #		Total Clearance				1.50			RED:	91.0675	91.3175	91.5675	91.8175	92.0675
SWM31080		mm	inch			0.059			BLUE:	3.58533	3.59518	3.60502	3.61486	3.62470
		-0.04	-0.00157			4.00	22.00		GREEN:	91.0625	91.3125	91.5625	91.8125	92.0625
						0.157	0.866			3.58514	3.59498	3.60482	3.61467	3.62451
				Cir Clip				REMARKS:	Measure for CYL 8.00 mm from Bottom of Skirt. Clearance: 0.315 inch					
				NONE		SURFACE TREATMENT								
				C17		NONE								
PAGE #		31	33	169	217									

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-554	4	89.300	81.00	39.00	-	5.20	1.50	YELLOW:	89.2775	89.5275	89.7775	90.0275	90.2775
		3.516	3.189	1.535		0.205	0.059		3.031	3.51486	3.52470	3.53455	3.54439
PISTON RING #		Total Clearance				1.50		RED:	89.2675	89.5175	89.7675	90.0175	90.2675
		mm	inch			0.059			3.51447	3.52431	3.53415	3.54400	3.55384
SW110123		-0.04	-0.00157			4.00	23.00	BLUE:	89.2625	89.5125	89.7625	90.0125	90.2625
						0.157	0.906		3.51427	3.52411	3.53396	3.54380	3.55364
				Cir Clip				GREEN:	89.2725	89.5225	89.7725	90.0225	90.2725
				NONE		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.					
								1.181 inch					
PAGE #		179											
11-555	4	92.600	79.00	36.50	-	1.40	1.50	YELLOW:	92.5775	92.8275	93.0775	93.3275	93.5775
		3.646	3.110	1.437		0.055	0.059		2.835	3.64478	3.65463	3.66447	3.67431
PISTON RING #		Total Clearance				1.50		RED:	92.5675	92.8175	93.0675	93.3175	93.5675
		mm	inch			0.059			3.64439	3.65423	3.66407	3.67392	3.68376
SW110144		-0.04	-0.00157			4.00	23.00	BLUE:	92.5625	92.8125	93.0625	93.3125	93.5625
						0.157	0.906		3.64419	3.65404	3.66388	3.67372	3.68356
				Cir Clip				GREEN:	92.5725	92.8225	93.0725	93.3225	93.5725
				NONE		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 25.00 mm from Bottom of Skirt.					
								0.984 inch					
PAGE #		179											
11-558	4	88.000	80.10	37.00	-	2.00	1.50	YELLOW:	87.9775	88.2275	88.4775	88.7275	88.9775
		3.465	3.154	1.457		0.079	0.059		3.031	3.46368	3.47352	3.48337	3.49321
PISTON RING #		Total Clearance				1.50		RED:	87.9675	88.2175	88.4675	88.7175	88.9675
		mm	inch			0.059			3.46329	3.47313	3.48297	3.49281	3.50266
SW110133		-0.04	-0.00157			4.00	22.00	BLUE:	87.9625	88.2125	88.4625	88.7125	88.9625
						0.157	0.866		3.46309	3.47293	3.48278	3.49262	3.50246
				Cir Clip				GREEN:	87.9725	88.2225	88.4725	88.7225	88.9725
				NONE		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
								0.394 inch					
PAGE #		177											
11-559	4	92.600	79.00	36.50	-	4.50	1.50	YELLOW:	92.5775	92.8275	93.0775	93.3275	93.5775
		3.646	3.110	1.437		0.177	0.059		2.835	3.64478	3.65463	3.66447	3.67431
PISTON RING #		Total Clearance				1.50		RED:	92.5675	92.8175	93.0675	93.3175	93.5675
		mm	inch			0.059			3.64439	3.65423	3.66407	3.67392	3.68376
SW110144		-0.04	-0.00157			4.00	23.00	BLUE:	92.5625	92.8125	93.0625	93.3125	93.5625
						0.157	0.906		3.64419	3.65404	3.66388	3.67372	3.68356
				Cir Clip				GREEN:	92.5725	92.8225	93.0725	93.3225	93.5725
				NONE		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 25.00 mm from Bottom of Skirt.					
								0.984 inch					
PAGE #		165 179											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	+ DIST.	2ND	LENGTH	mm		mm	mm	mm	mm	
		mm inch	mm inch	mm inch	- mm inch	OIL1 OIL2	DIA. mm	inch		inch	inch	inch	inch	
11-573	4	PAGE #	61	203					86.000 Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:				
		BORE	86.000 3.386	71.40 2.811	36.50 1.437	- 9.50 0.374	1.50 0.059	67.00 2.638		mm inch	mm inch	mm inch	mm inch	mm inch
		PISTON RING #	Total Clearance							RED:				
		SWT20048	mm	inch			1.50 0.059	4.00 0.157		22.00 0.866	mm inch	mm inch	mm inch	mm inch
								REMARKS: Measure for CYL Clearance: 15.00 mm 0.591 inch from Bottom of Skirt.	BLUE:					
									GREEN:					
									C17					
									SURFACE TREATMENT					
									NONE					
									NONE					
									Moly Skirt					
11-575	6	PAGE #	205						90.000 Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:				
		BORE	90.000 3.543	74.00 2.913	35.50 1.398	- 3.60 0.142	1.50 0.059	77.00 3.031		mm inch	mm inch	mm inch	mm inch	mm inch
		PISTON RING #	Total Clearance							RED:				
		SWT20062	mm	inch			1.50 0.059	4.00 0.157		23.00 0.906	mm inch	mm inch	mm inch	mm inch
								REMARKS: Measure for CYL Clearance: 10.00 mm 0.394 inch from Bottom of Skirt.	BLUE:					
									GREEN:					
									C17					
									SURFACE TREATMENT					
									NONE					
									Moly Skirt					
11-579	4	PAGE #	199						78.000 Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:				
		BORE	78.000 3.071	63.50 2.500	32.30 1.272	- 1.30 0.051	1.50 0.059	62.00 2.441		mm inch	mm inch	mm inch	mm inch	mm inch
		PISTON RING #	Total Clearance							RED:				
		SWT20060	mm	inch			1.50 0.059	4.00 0.157		20.00 0.787	mm inch	mm inch	mm inch	mm inch
								REMARKS: Measure for CYL Clearance: 10.00 mm 0.394 inch from Bottom of Skirt.	BLUE:					
									GREEN:					
									C17					
									SURFACE TREATMENT					
									NONE					
									Moly Skirt					
11-580	4	PAGE #	205						92.000 Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:				
		BORE	92.000 3.622	73.70 2.902	35.40 1.394	- 8.70 0.343	1.50 0.059	63.00 2.480		mm inch	mm inch	mm inch	mm inch	mm inch
		PISTON RING #	Total Clearance							RED:				
		SWT20064	mm	inch			1.50 0.059	4.00 0.157		23.00 0.906	mm inch	mm inch	mm inch	mm inch
								REMARKS: Measure for CYL Clearance: 10.00 mm 0.394 inch from Bottom of Skirt.	BLUE:					
									GREEN:					
									C17					
									SURFACE TREATMENT					
									NONE					
									NONE					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-582	4	86.000	71.50	36.50	7.00	1.50	66.00	YELLOW:	85.9730	86.2230	86.4730	86.7230	86.9730
		3.386	2.815	1.437	0.276	0.059	2.598		3.38476	3.39461	3.40445	3.41429	3.42413
PISTON RING #		Total Clearance				1.50		RED:	85.9865	86.2365	86.4865	86.7365	86.9865
SWT20048		mm	inch			0.059		BLUE:	3.38530	3.39514	3.40498	3.41482	3.42467
		-0.04	-0.00157			4.00	22.00		3.38502	3.39486	3.40470	3.41455	3.42439
						0.157	0.866	REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch					
PAGE #		61	203										
11-583	4	86.000	71.00	36.00	5.40	1.50	67.00	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
		3.386	2.795	1.417	0.213	0.059	2.638		3.38494	3.39478	3.40463	3.41447	3.42431
PISTON RING #		Total Clearance				1.50		RED:	85.9675	86.2175	86.4675	86.7175	86.9675
SWT20048		mm	inch			0.059		BLUE:	3.38455	3.39439	3.40423	3.41407	3.42392
		-0.04	-0.00157			4.00	22.00		85.9625	86.2125	86.4625	86.7125	86.9625
						0.157	0.866	GREEN:	3.38435	3.39419	3.40404	3.41388	3.42372
									85.9725	86.2225	86.4725	86.7225	86.9725
									3.38474	3.39459	3.40443	3.41427	3.42411
PAGE #		61	203										
11-584	4	83.000	61.00	30.70	2.50	1.50	61.00	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	2.402	1.209	0.098	0.059	2.402		3.26683	3.27667	3.28652	3.29636	3.30620
PISTON RING #		Total Clearance				1.50		RED:	82.9675	83.2175	83.4675	83.7175	83.9675
SWT20066		mm	inch			0.059		BLUE:	3.26644	3.27628	3.28612	3.29596	3.30581
		-0.04	-0.00157			3.00	20.00		82.9625	83.2125	83.4625	83.7125	83.9625
						0.118	0.787	GREEN:	3.26624	3.27608	3.28593	3.29577	3.30561
									82.9725	83.2225	83.4725	83.7225	83.9725
									3.26663	3.27648	3.28632	3.29616	3.30600
PAGE #		201											
11-589	4	71.000	60.00	28.70	1.00	1.20	55.00	YELLOW:	70.9730	71.2230	71.4730	71.7230	71.9730
		2.795	2.362	1.130	0.039	0.047	2.165		2.79421	2.80406	2.81390	2.82374	2.83358
PISTON RING #		Total Clearance				1.50		RED:	70.9865	71.2365	71.4865	71.7365	71.9865
SWT20052		mm	inch			0.059		BLUE:	2.79474	2.80459	2.81443	2.82427	2.83411
		-0.04	-0.00157			3.00	20.00		70.9795	71.2295	71.4795	71.7295	71.9795
						0.118	0.787		2.79447	2.80431	2.81415	2.82400	2.83384
								REMARKS: Measure for CYL Clearance: 12.00 mm from Bottom of Skirt. 0.472 inch					
PAGE #		57											

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-590		PAGE # 221											
4		76.000	54.00	29.50	5.20	1.50	52.00	76.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		2.992	2.126	1.161	0.205	0.059	2.047	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		PISTON RING #		Total Clearance				RED:	75.9675	76.2175	76.4675	76.7175	76.9675
		SWN30097		mm	inch			BLUE:	2.99085	3.00069	3.01053	3.02037	3.03022
		-0.04	-0.00157					GREEN:	75.9625	76.2125	76.4625	76.7125	76.9625
									2.99065	3.00049	3.01033	3.02018	3.03002
									75.9725	76.2225	76.4725	76.7225	76.9725
									2.99104	3.00089	3.01073	3.02057	3.03041
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			
								SURFACE TREATMENT					
								NONE					
								C17 NONE					
11-598		PAGE # 225											
4		89.000	68.30	34.00	6.60	1.50	61.50	88.980 Tolerance is +/- (mm inch) : 0.01 0.00039					
		3.504	2.689	1.339	0.260	0.059	2.421	RED:	88.9700	89.2200	89.4700	89.7200	89.9700
		PISTON RING #		Total Clearance				GREEN:	88.9900	89.2400	89.4900	89.7400	89.9900
		SWN30096		mm	inch				3.50354	3.51339	3.52323	3.53307	3.54291
		-0.04	-0.00157					REMARKS:					
								Measure for CYL		17.00 mm	from Bottom of Skirt.		
								Clearance:		0.669 inch			
								SURFACE TREATMENT					
								Anodized Head					
								T03 NONE					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
11-600		PAGE # 225											
4		89.000	68.30	34.00	0.50	1.50	59.00	88.990 Tolerance is +/- (mm inch) : 0.003 0.00012					
		3.504	2.689	1.339	0.020	0.059	2.323	YELLOW:	88.9830	89.2330	89.4830	89.7330	89.9830
		PISTON RING #		Total Clearance				RED:	88.9965	89.2465	89.4965	89.7465	89.9965
		SWN30096		mm	inch			BLUE:	3.50380	3.51364	3.52348	3.53333	3.54317
		-0.04	-0.00157						88.9895	89.2395	89.4895	89.7395	89.9895
									3.50352	3.51337	3.52321	3.53305	3.54289
								REMARKS:					
								Measure for CYL		5.00 mm	from Bottom of Skirt.		
								Clearance:		0.197 inch			
								SURFACE TREATMENT					
								NONE					
								C17 NONE					
11-601		PAGE # 221											
4		76.000	54.00	29.50	4.80	1.50	52.00	76.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		2.992	2.126	1.161	0.189	0.059	2.047	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		PISTON RING #		Total Clearance				RED:	75.9675	76.2175	76.4675	76.7175	76.9675
		SWN30104		mm	inch			BLUE:	2.99085	3.00069	3.01053	3.02037	3.03022
		-0.04	-0.00157					GREEN:	75.9625	76.2125	76.4625	76.7125	76.9625
									2.99065	3.00049	3.01033	3.02018	3.03002
									75.9725	76.2225	76.4725	76.7225	76.9725
									2.99104	3.00089	3.01073	3.02057	3.03041
								REMARKS:					
								Measure for CYL		10.00 mm	from Bottom of Skirt.		
								Clearance:		0.394 inch			
								SURFACE TREATMENT					
								NONE					
								C17 NONE					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-602	4	86.000	63.00	32.00	-	0.90	1.50	60.00	86.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.386	2.480	1.260					0.035	0.059	2.362	YELLOW: 85.9775 86.2275 86.4775 86.7275 86.9775 3.38494 3.39478 3.40463 3.41447 3.42431	
PISTON RING #		Total Clearance								REMARKS:			
SWN30102		mm	inch					Measure for CYL		10.00 mm	from Bottom of Skirt.		
		-0.04	-0.00157					Clearance:		0.394 inch			
		Cir Clip						SURFACE TREATMENT					
								NONE					
		C17						NONE					
PAGE #		65	173							87.000 Tolerance is +/- (mm inch) : 0.0025 0.00010			
11-603	6	87.000	67.00	32.00			1.50	64.00	87.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.425	2.638	1.260					0.059	0.059	2.520	YELLOW: 86.9775 87.2275 87.4775 87.7275 87.9775 3.42431 3.43415 3.44400 3.45384 3.46368	
PISTON RING #		Total Clearance								REMARKS:			
SWN30058		mm	inch					Measure for CYL		10.00 mm	from Bottom of Skirt.		
		-0.04	-0.00157					Clearance:		0.394 inch			
		Cir Clip						SURFACE TREATMENT					
								NONE					
		C17						NONE					
PAGE #		225								88.980 Tolerance is +/- (mm inch) : 0.01 0.00039			
11-609	4	89.000	68.30	34.00	-	6.60	1.50	61.50	88.980 Tolerance is +/- (mm inch) : 0.01 0.00039				
		3.504	2.689	1.339					0.260	0.059	2.421	RED: 88.9700 89.2200 89.4700 89.7200 89.9700 3.50276 3.51260 3.52244 3.53228 3.54213	
PISTON RING #		Total Clearance								REMARKS:			
SWN30118		mm	inch					Measure for CYL		17.00 mm	from Bottom of Skirt.		
		-0.04	-0.00157					Clearance:		0.669 inch			
		Cir Clip						SURFACE TREATMENT					
								Anodized Head					
		C17						NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.			
PAGE #		239								92.000 Tolerance is +/- (mm inch) : 0.0025 0.00010			
11-610	4	92.000	65.00	31.50			1.20	70.00	92.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.622	2.559	1.240					0.047	0.047	2.756	YELLOW: 91.9775 92.2275 92.4775 92.7275 92.9775 3.62116 3.63100 3.64085 3.65069 3.66053	
PISTON RING #		Total Clearance								REMARKS:			
SWF20057		mm	inch					Measure for CYL		10.00 mm	from Bottom of Skirt.		
		-0.04	-0.00157					Clearance:		0.394 inch			
		Cir Clip						SURFACE TREATMENT					
								NONE					
		C17						NONE					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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RED = NEW INFORMATION

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-612	4	96.900	68.10	33.30	2.60	1.20	58.00	97.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		3.815	2.681	1.311	0.102	0.047	2.283	YELLOW:	96.9775	97.2275	97.4775	97.7275	97.9775
PISTON RING #		Total Clearance				1.50		RED:	96.9675	97.2175	97.4675	97.7175	97.9675
SWF20045		mm	inch			0.059		BLUE:	3.81762	3.82746	3.83730	3.84715	3.85699
		-0.04	-0.00157			3.00	23.00	GREEN:	96.9625	97.2125	97.4625	97.7125	97.9625
						0.118	0.906		3.81742	3.82726	3.83711	3.84695	3.85679
				Cir Clip				REMARKS:	96.9725	97.2225	97.4725	97.7225	97.9725
								Measure for CYL	3.81781	3.82766	3.83750	3.84734	3.85719
				NONE				Clearance:	10.00 mm from Bottom of Skirt.				
				C17					0.394 inch				
11-625	3	74.000	55.30	28.40	1.30	1.20	65.00	74.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		2.913	2.177	1.118	0.051	0.047	2.559	YELLOW:	73.9775	74.2275	74.4775	74.7275	74.9775
PISTON RING #		Total Clearance				1.50		RED:	73.9675	74.2175	74.4675	74.7175	74.9675
SWS20141		mm	inch			0.059	17.00	BLUE:	2.91211	2.92195	2.93179	2.94163	2.95148
		-0.04	-0.00157			2.80	0.669	GREEN:	73.9625	74.2125	74.4625	74.7125	74.9625
						0.110			2.91191	2.92175	2.93159	2.94144	2.95128
				Cir Clip				REMARKS:	73.9725	74.2225	74.4725	74.7225	74.9725
				NONE				Measure for CYL	2.91230	2.92215	2.93199	2.94183	2.95167
				C17				Clearance:	10.00 mm from Bottom of Skirt.				
									0.394 inch				
11-626	4	74.000	56.20	29.30	4.80	1.20	65.00	73.980 Tolerance is +/- (mm inch) : 0.003 0.00012					
		2.913	2.213	1.154	0.189	0.047	2.559	YELLOW:	73.9730	74.2230	74.4730	74.7230	74.9730
PISTON RING #		Total Clearance				1.50		RED:	2.91232	2.92217	2.93201	2.94185	2.95169
SWS20143		mm	inch			0.059	17.00	BLUE:	73.9865	74.2365	74.4865	74.7365	74.9865
		-0.03	-0.00118			2.80	0.669		2.91285	2.92270	2.93254	2.94238	2.95222
						0.110		GREEN:	73.9795	74.2295	74.4795	74.7295	74.9795
				Cir Clip					2.91258	2.92242	2.93226	2.94211	2.95195
				NONE				REMARKS:	12.00 mm from Bottom of Skirt.				
				T01				Measure for CYL	0.472 inch				
								Clearance:					
11-627	4	74.000	56.20	29.20		1.20	61.00	73.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
		2.913	2.213	1.150		0.047	2.402	RED:	73.9600	74.2100	74.4600	74.7100	74.9600
PISTON RING #		Total Clearance				1.50			2.91181	2.92165	2.93150	2.94134	2.95118
SWS20143		mm	inch			0.059	19.00	GREEN:					
		-0.03	-0.00118			2.80	0.748		73.9800	74.2300	74.4800	74.7300	74.9800
						0.110			2.91260	2.92244	2.93228	2.94213	2.95197
				Cir Clip				REMARKS:	14.00 mm from Bottom of Skirt.				
								Measure for CYL	0.551 inch				
				NONE				Clearance:					
				J05									

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch	
11-628	4	74.000	55.30	28.30		1.20	62.00	YELLOW:	73.9905	74.2405	74.4905	74.7405	74.9905	
		2.913	2.177	1.114		0.047	2.441		2.91301	2.92285	2.93270	2.94254	2.95238	
PISTON RING #		Total Clearance				1.50		WHITE:	73.9825	74.2325	74.4825	74.7325	74.9825	
SWS20143		mm	inch			0.059		2.91270	2.92254	2.93238	2.94222	2.95207		
		-0.04	-0.00157			2.80	17.00	BLUE:	73.9695	74.2195	74.4695	74.7195	74.9695	
						0.110	0.669	2.91219	2.92203	2.93187	2.94171	2.95156		
		Cir Clip						GREEN:	73.9775	74.2275	74.4775	74.7275	74.9775	
		NONE						2.91250	2.92234	2.93219	2.94203	2.95187		
		J05						REMARKS: Measure for CYL Clearance: 7.50 mm from Bottom of Skirt. 0.295 inch						
PAGE #		249												
11-629	4	75.000	58.20	28.50	-	3.30	1.20	63.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	2.291	1.122		0.130	0.047	2.480		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				4.70	1.50	RED:	74.9675	75.2175	75.4675	75.7175	75.9675	
SWS20142		mm	inch			0.19	0.059	2.95148	2.96132	2.97116	2.98100	2.99085		
		-0.04	-0.00157			2.80	19.00	BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625	
						0.110	0.748	2.95128	2.96112	2.97096	2.98081	2.99065		
		Cir Clip						GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725	
		NONE						2.95167	2.96152	2.97136	2.98120	2.99104		
		C17						REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
PAGE #		93	249											
11-630	4	75.000	55.20	28.20	-	4.10	1.20	61.50	YELLOW:	74.9805	75.2305	75.4805	75.7305	75.9805
		2.953	2.173	1.110		0.161	0.047	2.421		2.95199	2.96183	2.97167	2.98152	2.99136
PISTON RING #		Total Clearance				1.50		WHITE:	74.9725	75.2225	75.4725	75.7225	75.9725	
SWS20142		mm	inch			0.059		2.95167	2.96152	2.97136	2.98120	2.99104		
		-0.04	-0.00157			2.80	19.00	BLUE:	74.9595	75.2095	75.4595	75.7095	75.9595	
						0.110	0.748	2.95116	2.96100	2.97085	2.98069	2.99053		
		Cir Clip						GREEN:	74.9675	75.2175	75.4675	75.7175	75.9675	
		NONE						2.95148	2.96132	2.97116	2.98100	2.99085		
		J05						REMARKS: Measure for CYL Clearance: 21.00 mm from Bottom of Skirt. 0.827 inch						
PAGE #		93	249											
11-631	4	92.000	86.20	49.20	-	2.40	2.00	74.00	YELLOW:	91.9775	92.2275	92.4775	92.7275	92.9775
		3.622	3.394	1.937		0.094	0.079	2.913		3.62116	3.63100	3.64085	3.65069	3.66053
PISTON RING #		Total Clearance				2.00		RED:	91.9675	92.2175	92.4675	92.7175	92.9675	
SDT10089		mm	inch			0.079		3.62077	3.63061	3.64045	3.65030	3.66014		
		-0.1016	-0.00400			4.00	29.00	BLUE:	91.9625	92.2125	92.4625	92.7125	92.9625	
						0.157	1.142	3.62057	3.63041	3.64026	3.65010	3.65994		
		Cir Clip						GREEN:	91.9725	92.2225	92.4725	92.7225	92.9725	
		NONE						3.62096	3.63081	3.64065	3.65049	3.66033		
		C17						REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch						
PAGE #		259												

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm			
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch			
11-632	4	92.000	86.20	49.20	-	1.30	2.00	92.000	Tolerance is + / - (mm inch) : 0.0025 0.00010	YELLOW:	91.9775	92.2275	92.4775	92.7275	92.9775	
		3.622	3.394	1.937		0.051	0.079				2.913	3.62116	3.63100	3.64085	3.65069	3.66053
PISTON RING #		Total Clearance								RED:		91.9675	92.2175	92.4675	92.7175	92.9675
SDT10089		mm	inch							BLUE:		3.62077	3.63061	3.64045	3.65030	3.66014
		-0.1016	-0.00400							GREEN:		91.9625	92.2125	92.4625	92.7125	92.9625
										REMARKS:		3.62057	3.63041	3.64026	3.65010	3.65994
										Measure for CYL		91.9725	92.2225	92.4725	92.7225	92.9725
										Clearance:		3.62096	3.63081	3.64065	3.65049	3.66033
										10.00 mm						
										0.394 inch		from Bottom of Skirt.				
										Cir Clip						
										SURFACE TREATMENT						
										NONE						
										C17						
										NONE						
PAGE #		257										89.950		Tolerance is + / - (mm inch) : 0.0045 0.00018		
11-634	4	90.000	99.00	52.00	-	1.40	2.00	89.950	YELLOW:	89.9605	90.2105	90.4605	90.7105	90.9605		
		3.543	3.898	2.047		0.055	0.079			2.894	3.54175	3.55159	3.56144	3.57128	3.58112	
PISTON RING #		Total Clearance								WHITE:		89.9525	90.2025	90.4525	90.7025	90.9525
SDT10082		mm	inch							BLUE:		3.54144	3.55128	3.56112	3.57096	3.58081
		-0.1016	-0.00400							GREEN:		89.9395	90.1895	90.4395	90.6895	90.9395
										REMARKS:		3.54093	3.55077	3.56061	3.57045	3.58030
										Measure for CYL		89.9475	90.1975	90.4475	90.6975	90.9475
										Clearance:		3.54124	3.55108	3.56093	3.57077	3.58061
										32.00 mm		from Bottom of Skirt.				
										1.260 inch						
										Cir Clip						
										SURFACE TREATMENT						
										NONE						
										J05						
										NONE						
PAGE #		259										95.000		Tolerance is + / - (mm inch) : 0.0025 0.00010		
11-636	4	95.000	67.50	35.50	-	2.20	1.75	95.000	YELLOW:	94.9775	95.2275	95.4775	95.7275	95.9775		
		3.740	2.657	1.398		0.087	0.069			2.756	3.73927	3.74911	3.75896	3.76880	3.77864	
PISTON RING #		Total Clearance								RED:		94.9675	95.2175	95.4675	95.7175	95.9675
SWT10127		mm	inch							BLUE:		3.73888	3.74872	3.75856	3.76841	3.77825
		-0.04	-0.00157							GREEN:		94.9625	95.2125	95.4625	95.7125	95.9625
										REMARKS:		3.73868	3.74852	3.75837	3.76822	3.77805
										Measure for CYL		94.9725	95.2225	95.4725	95.7225	95.9725
										Clearance:		3.73907	3.74892	3.75876	3.76860	3.77844
										15.00 mm		from Bottom of Skirt.				
										0.591 inch						
										Cir Clip						
										SURFACE TREATMENT						
										NONE						
										C17						
										NONE						
PAGE #		257										90.980		Tolerance is + / - (mm inch) : 0.0045 0.00018		
11-637	4	91.000	65.00	35.00	-	6.20	1.50	90.980	YELLOW:	90.9850	91.2350	91.4850	91.7350	91.9850		
		3.583	2.559	1.378		0.244	0.059			2.598	3.58209	3.59193	3.60177	3.61161	3.62146	
PISTON RING #		Total Clearance								WHITE:		90.9825	91.2325	91.4825	91.7325	91.9825
SWT10111		mm	inch							BLUE:		3.58199	3.59183	3.60167	3.61152	3.62136
		-0.03	-0.00118							GREEN:		90.9750	91.2250	91.4750	91.7250	91.9750
										REMARKS:		3.58169	3.59154	3.60138	3.61122	3.62106
										Measure for CYL		90.9775	91.2275	91.4775	91.7275	91.9775
										Clearance:		3.58179	3.59163	3.60148	3.61132	3.62116
										25.00 mm		from Bottom of Skirt.				
										0.984 inch						
										Cir Clip						
										SURFACE TREATMENT						
										NONE						
										J05						
										NONE						

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION										
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)				
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm				
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch				
11-639	6	PAGE # 261		83.000	71.00	33.00	5.80	1.50	66.00	83.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.268	2.795	1.299	-	0.228	0.059		2.598	YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
		PISTON RING #		Total Clearance					1.50				RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596
		SWT10115		-0.04	-0.00157		4.00	22.00		BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561		
						Cir Clip				GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600		
							SURFACE TREATMENT			REMARKS:							
							Anodized Head			Measure for CYL		10.00 mm	from Bottom of Skirt.				
						C17	NONE			Clearance:		0.394 inch					
CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.																	
11-641	6	PAGE # 261		83.000	74.10	32.90	3.30	1.50	66.00	83.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.268	2.917	1.295	+	0.130	0.059		2.598	YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
		PISTON RING #		Total Clearance					1.50				RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596
		SWT10079		-0.04	-0.00157		4.00	22.00		BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561		
						Cir Clip				GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600		
							SURFACE TREATMENT			REMARKS:							
							NONE			Measure for CYL		15.00 mm	from Bottom of Skirt.				
						C17	NONE			Clearance:		0.591 inch					
11-642	6	PAGE # 261		83.000	71.00	33.00	3.30	1.50	66.00	83.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.268	2.795	1.299	-	0.130	0.059		2.598	YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
		PISTON RING #		Total Clearance					1.50				RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596
		SWT10079		-0.04	-0.00157		4.00	22.00		BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561		
						Cir Clip				GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600		
							SURFACE TREATMENT			REMARKS:							
							NONE			Measure for CYL		10.00 mm	from Bottom of Skirt.				
						C17	NONE			Clearance:		0.394 inch					
11-644	4	PAGE # 257		86.000	68.40	35.00	3.90	1.50	66.00	86.000	Tolerance is +/- (mm inch) : 0.0045 0.00018						
				3.386	2.693	1.378	-	0.154	0.059		2.598	YELLOW:	86.0105 3.38624	86.2605 3.39608	86.5105 3.40593	86.7605 3.41577	87.0105 3.42561
		PISTON RING #		Total Clearance					1.50				WHITE:	86.0025 3.38593	86.2525 3.39577	86.5025 3.40561	86.7525 3.41545
		SWT10090		-0.04	-0.00157		4.00	20.01		BLUE:	85.9895 3.38541	86.2395 3.39526	86.4895 3.40510	86.7395 3.41494	86.9895 3.42478		
						Cir Clip				GREEN:	85.9975 3.38573	86.2475 3.39557	86.4975 3.40541	86.7475 3.41526	86.9975 3.42510		
							SURFACE TREATMENT			REMARKS:							
						NONE	NONE			Measure for CYL		7.00 mm	from Bottom of Skirt.				
						J05	NONE			Clearance:		0.276 inch					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)		
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm		
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch		
11-646	4	PAGE # 257						85.980	Tolerance is +/- (mm inch) : 0.003 0.00012						
		86.000 3.386	67.10 2.642	35.00 1.378	-	1.60 0.063	1.20 0.047	66.00 2.598	YELLOW:	85.9730 3.38476	86.2230 3.39461	86.4730 3.40445	86.7230 3.41429	86.9730 3.42413	
		PISTON RING #		Total Clearance						RED:	85.9865 3.38530	86.2365 3.39514	86.4865 3.40498	86.7365 3.41482	86.9865 3.42467
		SWT10141	mm	inch	-	5.10 0.20	1.50 0.059			BLUE:	85.9795 3.38502	86.2295 3.39486	86.4795 3.40470	86.7295 3.41455	86.9795 3.42439
			-0.04	-0.00157			4.00 0.157	22.00 0.866							
						Cir Clip									
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 5.00 mm from Bottom of Skirt. 0.197 inch						
						T01	NONE								
11-647	4	PAGE # 257						85.980	Tolerance is +/- (mm inch) : 0.01 0.00039						
		86.000 3.386	62.10 2.445	35.10 1.382	-	0.80 0.031	1.20 0.047	66.00 2.598	RED:	85.9700 3.38465	86.2200 3.39449	86.4700 3.40433	86.7200 3.41417	86.9700 3.42402	
		PISTON RING #		Total Clearance											
		SWT10141	mm	inch		1.50 0.059	4.00 0.157	22.00 0.866							
			-0.03	-0.00118						GREEN:	85.9900 3.38543	86.2400 3.39528	86.4900 3.40512	86.7400 3.41496	86.9900 3.42480
						Cir Clip									
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 11.00 mm from Bottom of Skirt. 0.433 inch						
						T03	NONE								
11-648	4	PAGE # 257						86.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
		86.000 3.386	67.10 2.642	35.10 1.382	-	5.00 0.197	1.20 0.047	66.00 2.598	YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431	
		PISTON RING #		Total Clearance						RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
		SWT10141	mm	inch		1.50 0.059	4.00 0.157	22.00 0.866							
			-0.03	-0.00118						BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
						Cir Clip				GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
						C17	NONE								
11-649	4	PAGE # 93 253						81.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
		81.000 3.189	61.10 2.406	30.60 1.205	-	3.00 0.118	1.50 0.059	61.00 2.402	YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746	
		PISTON RING #		Total Clearance						RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
		SWT10142	mm	inch		1.50 0.059	3.00 0.118	18.00 0.709							
			-0.04	-0.00157						BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
						Cir Clip				GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
						C17	NONE								

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-650	4	73.000	62.00	30.00	2.90	1.50	59.00	YELLOW:	72.9775	73.2275	73.4775	73.7275	73.9775
		2.874	2.441	1.181	0.114	0.059	2.323		2.87313	2.88297	2.89281	2.90266	2.91250
PISTON RING #		Total Clearance				1.50		RED:	72.9675	73.2175	73.4675	73.7175	73.9675
SWT10143		mm	inch			0.059			2.87274	2.88258	2.89242	2.90226	2.91211
		-0.04	-0.00157			3.00	18.00	BLUE:	72.9625	73.2125	73.4625	73.7125	73.9625
						0.118	0.709		2.87254	2.88238	2.89222	2.90207	2.91191
								GREEN:	72.9725	73.2225	73.4725	73.7225	73.9725
									2.87293	2.88278	2.89262	2.90246	2.91230
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											
PAGE #		193	259										
11-651	6	87.500	65.20	32.30	2.20	1.50	63.00	YELLOW:	87.4775	87.7275	87.9775	88.2275	88.4775
		3.445	2.567	1.272	0.087	0.059	2.480		3.44400	3.45384	3.46368	3.47352	3.48337
PISTON RING #		Total Clearance				1.50		RED:	87.4675	87.7175	87.9675	88.2175	88.4675
SWT10148		mm	inch			0.059			3.44360	3.45344	3.46329	3.47313	3.48297
		-0.04	-0.00157			3.00	21.00	BLUE:	87.4625	87.7125	87.9625	88.2125	88.4625
						0.118	0.827		3.44341	3.45325	3.46309	3.47293	3.48278
								GREEN:	87.4725	87.7225	87.9725	88.2225	88.4725
									3.44380	3.45364	3.46348	3.47333	3.48317
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		Anodized Head											
		NONE											
		C17											
		NONE											
PAGE #		261											
11-653	6	87.500	62.60	33.70	3.80	1.50	63.00	YELLOW:	87.4905	87.7405	87.9905	88.2405	88.4905
		3.445	2.465	1.327	0.150	0.059	2.480		3.44451	3.45435	3.46419	3.47404	3.48388
PISTON RING #		Total Clearance				1.50		WHITE:	87.4825	87.7325	87.9825	88.2325	88.4825
SWT10144		mm	inch			0.059			3.44419	3.45404	3.46388	3.47372	3.48356
		-0.04	-0.00157			4.00	21.00	BLUE:	87.4695	87.7195	87.9695	88.2195	88.4695
						0.157	0.827		3.44368	3.45352	3.46337	3.47321	3.48305
								GREEN:	87.4775	87.7275	87.9775	88.2275	88.4775
									3.44400	3.45384	3.46368	3.47352	3.48337
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 2.00 mm from Bottom of Skirt.					
		J05						Clearance: 0.079 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											
PAGE #		257											
11-654	4	87.000	63.00	32.50	4.70	1.50	66.00	YELLOW:	86.9775	87.2275	87.4775	87.7275	87.9775
		3.425	2.480	1.280	0.185	0.059	2.598		3.42431	3.43415	3.44400	3.45384	3.46368
PISTON RING #		Total Clearance				1.50		RED:	86.9675	87.2175	87.4675	87.7175	87.9675
SWT10133		mm	inch			0.059			3.42392	3.43376	3.44360	3.45344	3.46329
		-0.04	-0.00157			4.00	22.00	BLUE:	86.9625	87.2125	87.4625	87.7125	87.9625
						0.157	0.866		3.42372	3.43356	3.44341	3.45325	3.46309
								GREEN:	86.9725	87.2225	87.4725	87.7225	87.9725
									3.42411	3.43396	3.44380	3.45364	3.46348
		Cir Clip						REMARKS:					
		C17						Measure for CYL 10.00 mm from Bottom of Skirt.					
		NONE						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-656	4	74.000	58.60	29.70	+	0.70	1.20	YELLOW:	73.9775	74.2275	74.4775	74.7275	74.9775
		2.913	2.307	1.169		0.028	0.047		2.323	2.91250	2.92234	2.93219	2.94203
PISTON RING #		Total Clearance				0.20	1.20	RED:	73.9675	74.2175	74.4675	74.7175	74.9675
		mm	inch			0.01	0.047		2.91211	2.92195	2.93179	2.94163	2.95148
SWT10128		-0.04	-0.00157				3.00	BLUE:	73.9625	74.2125	74.4625	74.7125	74.9625
							0.118		2.91191	2.92175	2.93159	2.94144	2.95128
							18.00	GREEN:	73.9725	74.2225	74.4725	74.7225	74.9725
							0.709		2.91230	2.92215	2.93199	2.94183	2.95167
								REMARKS:	Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch				
								SURFACE TREATMENT: NONE					
								C17: NONE					
PAGE #		253						74.000 Tolerance is +/- (mm inch): 0.0025 0.00010					
11-657	4	87.000	63.00	32.60	-	5.00	1.50	YELLOW:	86.9775	87.2275	87.4775	87.7275	87.9775
		3.425	2.480	1.283		0.197	0.059		2.598	3.42431	3.43415	3.44400	3.45384
PISTON RING #		Total Clearance					1.50	RED:	86.9675	87.2175	87.4675	87.7175	87.9675
		mm	inch				0.059		3.42392	3.43376	3.44360	3.45344	3.46329
SWT10149		-0.04	-0.00157				3.00	BLUE:	86.9625	87.2125	87.4625	87.7125	87.9625
							0.118		3.42372	3.43356	3.44341	3.45325	3.46309
							22.00	GREEN:	86.9725	87.2225	87.4725	87.7225	87.9725
							0.866		3.42411	3.43396	3.44380	3.45364	3.46348
								REMARKS:	Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch				
								SURFACE TREATMENT: NONE					
								C17: NONE					
PAGE #		257						87.000 Tolerance is +/- (mm inch): 0.0025 0.00010					
11-659	4	81.000	64.80	30.00	-	4.00	1.50	YELLOW:	80.9905	81.2405	81.4905	81.7405	81.9905
		3.189	2.551	1.181		0.157	0.059		2.402	3.18860	3.19844	3.20829	3.21813
PISTON RING #		Total Clearance				5.00	1.50	WHITE:	80.9825	81.2325	81.4825	81.7325	81.9825
		mm	inch			0.20	0.059		3.18829	3.19813	3.20797	3.21781	3.22766
SWT10108		-0.04	-0.00157				2.80	BLUE:	80.9695	81.2195	81.4695	81.7195	81.9695
							0.110		3.18778	3.19762	3.20746	3.21730	3.22715
							18.00	GREEN:	80.9775	81.2275	81.4775	81.7275	81.9775
							0.709		3.18809	3.19793	3.20778	3.21762	3.22746
								REMARKS:	Measure for CYL Clearance: 0.00 mm from Bottom of Skirt. 0.000 inch				
								SURFACE TREATMENT: NONE					
								J05: NONE					
PAGE #		93 253						80.980 Tolerance is +/- (mm inch): 0.0045 0.00018					
11-660	4	81.000	64.50	30.50	+	0.30	1.50	YELLOW:	80.9775	81.2275	81.4775	81.7275	81.9775
		3.189	2.539	1.201		0.012	0.059		2.402	3.18809	3.19793	3.20778	3.21762
PISTON RING #		Total Clearance					1.50	RED:	80.9675	81.2175	81.4675	81.7175	81.9675
		mm	inch				0.059		3.18770	3.19754	3.20738	3.21722	3.22707
SWT10108		-0.04	-0.00157				2.80	BLUE:	80.9625	81.2125	81.4625	81.7125	81.9625
							0.110		3.18750	3.19734	3.20719	3.21703	3.22687
							20.00	GREEN:	80.9725	81.2225	81.4725	81.7225	81.9725
							0.787		3.18789	3.19774	3.20758	3.21742	3.22726
								REMARKS:	Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch				
								SURFACE TREATMENT: NONE					
								C17: NONE					
PAGE #		93 253						81.000 Tolerance is +/- (mm inch): 0.0025 0.00010					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-661	6	87.500	62.20	34.00	-	3.40	1.50	YELLOW:	87.4775	87.7275	87.9775	88.2275	88.4775
		3.445	2.449	1.339		0.134	0.059		2.441	3.44400	3.45384	3.46368	3.47352
PISTON RING #		Total Clearance					1.50	RED:	87.4675	87.7175	87.9675	88.2175	88.4675
SWT10144		mm	inch			0.059	0.059		3.44360	3.45344	3.46329	3.47313	3.48297
		-0.04	-0.00157			4.00	22.00	BLUE:	87.4625	87.7125	87.9625	88.2125	88.4625
						0.157	0.866		3.44341	3.45325	3.46309	3.47293	3.48278
								GREEN:	87.4725	87.7225	87.9725	88.2225	88.4725
									3.44380	3.45364	3.46348	3.47333	3.48317
		Cir Clip						REMARKS:					
								Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		SURFACE TREATMENT						Clearance: 0.394 inch					
		NONE											
		C17											
PAGE #		91						73.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
11-665	3	74.000	55.70	28.70	-	2.10	1.20	RED:	73.9600	74.2100	74.4600	74.7100	74.9600
		2.913	2.193	1.130		0.083	0.047		2.559	2.91181	2.92165	2.93150	2.94134
PISTON RING #		Total Clearance					1.50	GREEN:	73.9800	74.2300	74.4800	74.7300	74.9800
SWS20144		mm	inch			0.059	0.059		2.91260	2.92244	2.93228	2.94213	2.95197
		-0.03	-0.00118			2.80	17.00	REMARKS:					
						0.110	0.669	Measure for CYL Clearance: 13.80 mm from Bottom of Skirt.					
								Clearance: 0.543 inch					
		Cir Clip											
		SURFACE TREATMENT											
		NONE											
		T03											
PAGE #		265						93.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
11-673	6	94.000	79.70	37.40	+	0.30	2.00	RED:	93.9600	94.2100	94.4600	94.7100	94.9600
		3.701	3.138	1.472		0.012	0.079		2.953	3.69921	3.70906	3.71890	3.72874
PISTON RING #		Total Clearance					2.00	GREEN:	93.9800	94.2300	94.4800	94.7300	94.9800
SWT10151		mm	inch			0.079	0.079		3.70000	3.70984	3.71969	3.72953	3.73937
		-0.03	-0.00118			4.00	22.00	REMARKS:					
						0.157	0.866	Measure for CYL Clearance: 27.50 mm from Bottom of Skirt.					
								Clearance: 1.083 inch					
		Cir Clip											
		SURFACE TREATMENT											
		NONE											
		T03											
PAGE #		229						87.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-675	6	87.000	64.50	32.00			1.50	YELLOW:	86.9775	87.2275	87.4775	87.7275	87.9775
		3.425	2.539	1.260			0.059		2.638	3.42431	3.43415	3.44400	3.45384
PISTON RING #		Total Clearance					1.50	RED:	86.9675	87.2175	87.4675	87.7175	87.9675
SWN30058		mm	inch			0.059	0.059		3.42392	3.43376	3.44360	3.45344	3.46329
		-0.04	-0.00157			2.80	22.00	BLUE:	86.9625	87.2125	87.4625	87.7125	87.9625
						0.110	0.866		3.42372	3.43356	3.44341	3.45325	3.46309
								GREEN:	86.9725	87.2225	87.4725	87.7225	87.9725
									3.42411	3.43396	3.44380	3.45364	3.46348
		Cir Clip						REMARKS:					
								Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		SURFACE TREATMENT						Clearance: 0.394 inch					
		NONE											
		C17											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	Tolerance is + / - (mm inch) :				
		BORE mm inch	LENGTH mm inch	COMP. mm inch	+ DIST. mm inch	- DIST. mm inch				-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
										mm	mm	mm	mm	mm
11-676	4	PAGE # 227		89.000	68.30	34.00	0.60	1.50	66.50	89.000 Tolerance is + / - (mm inch) : 0.0025 0.00010 YELLOW: 88.9775 89.2275 89.4775 89.7275 89.9775 3.50305 3.51289 3.52274 3.53258 3.54242 RED: 88.9675 89.2175 89.4675 89.7175 89.9675 3.50266 3.51250 3.52234 3.53219 3.54203 BLUE: 88.9625 89.2125 89.4625 89.7125 89.9625 3.50246 3.51230 3.52215 3.53199 3.54183 GREEN: 88.9725 89.2225 89.4725 89.7225 89.9725 3.50285 3.51270 3.52254 3.53238 3.54222 REMARKS: Measure for CYL Clearance: 10.00 mm 0.394 inch from Bottom of Skirt.				
		Total Clearance												
		mm												
		inch												
PISTON RING #		SWN30118		-0.04	-0.00157		2.80	21.00						
mm							0.110	0.827						
inch														
C17														
SURFACE TREATMENT														
NONE														
C17														
11-677	4	PAGE # 259		92.000	63.80	34.80	5.30	1.50	73.00	92.000 Tolerance is + / - (mm inch) : 0.0025 0.00010 YELLOW: 91.9775 92.2275 92.4775 92.7275 92.9775 3.62116 3.63100 3.64085 3.65069 3.66053 RED: 91.9675 92.2175 92.4675 92.7175 92.9675 3.62077 3.63061 3.64045 3.65030 3.66014 BLUE: 91.9625 92.2125 92.4625 92.7125 92.9625 3.62057 3.63041 3.64026 3.65010 3.65994 GREEN: 91.9725 92.2225 92.4725 92.7225 92.9725 3.62096 3.63081 3.64065 3.65049 3.66033 REMARKS: Measure for CYL Clearance: 10.00 mm 0.394 inch from Bottom of Skirt.				
		Total Clearance												
		mm												
		inch												
PISTON RING #		SWT10103		-0.04	-0.00157		4.00	22.00						
mm							0.157	0.866						
inch														
C17														
SURFACE TREATMENT														
NONE														
C17														
11-678	4	PAGE # 163		85.000	65.30	30.80	3.70	1.20	57.00	85.000 Tolerance is + / - (mm inch) : 0.0025 0.00010 YELLOW: 84.9775 85.2275 85.4775 85.7275 85.9775 3.34557 3.35541 3.36526 3.37510 3.38494 RED: 84.9675 85.2175 85.4675 85.7175 85.9675 3.34518 3.35502 3.36486 3.37470 3.38455 BLUE: 84.9625 85.2125 85.4625 85.7125 85.9625 3.34498 3.35482 3.36467 3.37451 3.38435 GREEN: 84.9725 85.2225 85.4725 85.7225 85.9725 3.34537 3.35522 3.36506 3.37490 3.38474 REMARKS: Measure for CYL Clearance: 20.00 mm 0.787 inch from Bottom of Skirt.				
		Total Clearance												
		mm												
		inch												
PISTON RING #		SWH30383		-0.04	-0.00157		2.80	22.00						
mm							0.110	0.866						
inch														
C17														
SURFACE TREATMENT														
NONE														
C17														
11-679	4	PAGE # 159		75.000	60.00	30.00	3.50	1.20	56.00	74.980 Tolerance is + / - (mm inch) : 0.0045 0.00018 YELLOW: 74.9905 75.2405 75.4905 75.7405 75.9905 2.95238 2.96222 2.97207 2.98191 2.99175 WHITE: 74.9825 75.2325 75.4825 75.7325 75.9825 2.95207 2.96191 2.97175 2.98159 2.99144 BLUE: 74.9695 75.2195 75.4695 75.7195 75.9695 2.95156 2.96140 2.97124 2.98108 2.99093 GREEN: 74.9775 75.2275 75.4775 75.7275 75.9775 2.95187 2.96171 2.97156 2.98140 2.99124 REMARKS: Measure for CYL Clearance: 27.00 mm 1.063 inch from Bottom of Skirt.				
		Total Clearance												
		mm												
		inch												
PISTON RING #		SWH30362		-0.04	-0.00157		2.80	19.00						
mm							0.110	0.748						
inch														
C17														
SURFACE TREATMENT														
NONE														
J05														

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-680	4	76.000	54.30	29.70	-	4.70	1.50	75.980	Tolerance is +/- (mm inch) :	0.01	0.00039		
		2.992	2.138	1.169		0.185	0.059						2.047
PISTON RING #		Total Clearance											
SWN30116		mm	inch										
		-0.03	-0.00118										
				Cir Clip									
						SURFACE TREATMENT							
						Anodized Head							
				T01		NONE							
PAGE #		223											
REMARKS:								Measure for CYL		12.00 mm		from Bottom of Skirt.	
								Clearance:		0.472 inch			
CAUTION!!!												Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.	
11-681	6	87.000	67.80	31.85	+	0.80	1.50	87.000	Tolerance is +/- (mm inch) :	0.0025	0.00010		
		3.425	2.669	1.254		0.031	0.059						2.520
PISTON RING #		Total Clearance											
SWN30058		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
						SURFACE TREATMENT							
						NONE							
				C17		NONE							
PAGE #		229											
REMARKS:								Measure for CYL		10.00 mm		from Bottom of Skirt.	
								Clearance:		0.394 inch			
CAUTION!!!												Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.	
11-685	6	93.400	65.20	31.70		1.50	1.50	93.500	Tolerance is +/- (mm inch) :	0.0025	0.00010		
		3.677	2.567	1.248		0.059	0.059						2.598
PISTON RING #		Total Clearance											
SWI10185		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
						SURFACE TREATMENT							
						NONE							
				C17		NONE							
PAGE #		179											
REMARKS:								Measure for CYL		10.00 mm		from Bottom of Skirt.	
								Clearance:		0.394 inch			
CAUTION!!!												Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.	
11-686	6	93.400	65.20	31.70		1.50	1.50	93.500	Tolerance is +/- (mm inch) :	0.0025	0.00010		
		3.677	2.567	1.248		0.059	0.059						2.598
PISTON RING #		Total Clearance											
SWI10185		mm	inch										
		-0.04	-0.00157										
				Cir Clip									
						SURFACE TREATMENT							
						NONE							
				C17		NONE							
PAGE #		165		179									
REMARKS:								Measure for CYL		10.00 mm		from Bottom of Skirt.	
								Clearance:		0.394 inch			
CAUTION!!!												Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.	

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-689	4	76.000	60.70	30.70	-	0.50	1.20	76.000	76.2275	76.4775	76.7275	76.9775	
		2.992	2.390	1.209		0.020	0.047						2.283
PISTON RING #		Total Clearance				1.50		76.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
SWD10031		mm	inch			0.059		mm	mm	mm	mm	mm	
		-0.04	-0.00157			3.00	19.00	inch	inch	inch	inch	inch	
						0.118	0.748	MID	MID	MID	MID	MID	
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
		C17				NONE							
PAGE # 55													
11-690	4	81.500	67.00	35.00	-	1.00	1.20	81.500	81.7275	81.9775	82.2275	82.4775	
		3.209	2.638	1.378		0.039	0.047						2.598
PISTON RING #		Total Clearance				1.50		81.500 Tolerance is +/- (mm inch) : 0.0025 0.00010					
SWM31058		mm	inch			0.059		mm	mm	mm	mm	mm	
		-0.04	-0.00157			3.00	21.00	inch	inch	inch	inch	inch	
						0.118	0.827	MID	MID	MID	MID	MID	
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 20.00 mm from Bottom of Skirt.					
		C17				NONE							
PAGE # 167													
11-691	4	75.500	54.30	31.40	-	0.70	1.50	75.500	75.7275	75.9775	76.2275	76.4775	
		2.972	2.138	1.236		0.028	0.059						1.870
PISTON RING #		Total Clearance				1.50		75.500 Tolerance is +/- (mm inch) : 0.0025 0.00010					
SWG30017		mm	inch			0.059		mm	mm	mm	mm	mm	
		-0.04	-0.00157			3.00	18.00	inch	inch	inch	inch	inch	
						0.118	0.709	MID	MID	MID	MID	MID	
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		C17				NONE							
PAGE # 167													
11-692	4	85.000	67.00	35.00	-	2.10	1.20	85.000	85.2275	85.4775	85.7275	85.9775	
		3.346	2.638	1.378		0.083	0.047						2.598
PISTON RING #		Total Clearance				1.50		85.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
SWM31071		mm	inch			0.059		mm	mm	mm	mm	mm	
		-0.04	-0.00157			3.00	21.00	inch	inch	inch	inch	inch	
						0.118	0.827	MID	MID	MID	MID	MID	
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		C17				NONE							
PAGE # 169													

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-693	4	82.000	63.20	31.10	+	2.10	1.20	82.000	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.228	2.488	1.224	+	0.083	0.047						59.00
PISTON RING #		Total Clearance				1.20							
		mm	inch			0.047							
SWG30028		-0.04	-0.00157			2.50	20.00						
		inch				0.098	0.787						
				Cir Clip									
				NONE		SURFACE TREATMENT							
				NONE		NONE							
				J05		NONE							
PAGE #		167						82.000 Tolerance is +/- (mm inch) : 0.0045 0.00018					
YELLOW:		82.0105	82.2605	82.5105	82.7605	83.0105							
		3.22876	3.23860	3.24844	3.25829	3.26813							
WHITE:		82.0025	82.2525	82.5025	82.7525	83.0025							
		3.22844	3.23829	3.24813	3.25797	3.26781							
BLUE:		81.9895	82.2395	82.4895	82.7395	82.9895							
		3.22793	3.23778	3.24762	3.25746	3.26730							
GREEN:		81.9975	82.2475	82.4975	82.7475	82.9975							
		3.22825	3.23809	3.24793	3.25778	3.26762							
REMARKS:		Measure for CYL		24.00 mm		from Bottom of							
		Clearance:		0.945 inch		Skirt.							
11-696	4	88.000	82.40	47.60	-	2.60	2.00	87.970	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.465	3.244	1.874	-	0.102	0.079						68.00
PISTON RING #		Total Clearance				2.00							
		mm	inch			0.079							
SDI10101		-0.1016	-0.00400			4.00	27.00						
		inch				0.157	1.063						
				Cir Clip									
						SURFACE TREATMENT							
				NONE		NONE							
				J05		NONE							
PAGE #		177						87.970 Tolerance is +/- (mm inch) : 0.0045 0.00018					
YELLOW:		87.9805	88.2305	88.4805	88.7305	88.9805							
		3.46380	3.47364	3.48348	3.49333	3.50317							
WHITE:		87.9725	88.2225	88.4725	88.7225	88.9725							
		3.46348	3.47333	3.48317	3.49301	3.50285							
BLUE:		87.9595	88.2095	88.4595	88.7095	88.9595							
		3.46297	3.47281	3.48266	3.49250	3.50234							
GREEN:		87.9675	88.2175	88.4675	88.7175	88.9675							
		3.46329	3.47313	3.48297	3.49281	3.50266							
REMARKS:		Measure for CYL		mm		from Bottom of							
		Clearance:		inch		Skirt.							
11-699	4	86.000	71.00	36.00	-	0.70	1.50	85.960	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.386	2.795	1.417	-	0.028	0.059						71.50
PISTON RING #		Total Clearance				5.50	1.50						
		mm	inch			0.22	0.059						
SWT20048*		-0.04	-0.00157			4.00	22.00						
		inch				0.157	0.866						
				Cir Clip									
						SURFACE TREATMENT							
				NONE		NONE							
				T01		NONE							
PAGE #		185						85.960 Tolerance is +/- (mm inch) : 0.003 0.00012					
YELLOW:		85.9530	86.2030	86.4530	86.7030	86.9530							
		3.38398	3.39382	3.40366	3.41350	3.42335							
RED:		85.9665	86.2165	86.4665	86.7165	86.9665							
		3.38451	3.39435	3.40419	3.41404	3.42388							
BLUE:		85.9595	86.2095	86.4595	86.7095	86.9595							
		3.38423	3.39407	3.40392	3.41376	3.42360							
REMARKS:		Measure for CYL		18.00 mm		from Bottom of							
		Clearance:		0.709 inch		Skirt.							
11-701	4	86.000	86.40	47.30	-	1.50	2.00	85.970	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		3.386	3.402	1.862	-	0.059	0.079						68.00
PISTON RING #		Total Clearance				2.00							
		mm	inch			0.079							
SDT20055		-0.1016	-0.00400			4.00	25.00						
		inch				0.157	0.984						
				Cir Clip									
						SURFACE TREATMENT							
				NONE		NONE							
				T03		NONE							
PAGE #		201						85.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
RED:		85.9600	86.2100	86.4600	86.7100	86.9600							
		3.38425	3.39409	3.40394	3.41378	3.42362							
GREEN:		85.9800	86.2300	86.4800	86.7300	86.9800							
		3.38504	3.39488	3.40472	3.41457	3.42441							
REMARKS:		Measure for CYL		20.00 mm		from Bottom of							
		Clearance:		0.787 inch		Skirt.							

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION								
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)		
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm		
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch		
11-703	4	83.000	61.50	30.60	+	0.50	1.50	83.000	Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	2.421	1.205		0.020	0.059				2.756	3.26683	3.27667	3.28652	3.29636
PISTON RING #		Total Clearance				1.50		RED:	82.9675	83.2175	83.4675	83.7175	83.9675		
SWT20066		mm	inch			0.059								3.26644	3.27628
		-0.04	-0.00157			3.00	32.00	BLUE:	82.9625	83.2125	83.4625	83.7125	83.9625		
						0.118	1.260							3.26624	3.27608
								GREEN:	82.9725	83.2225	83.4725	83.7225	83.9725		
														3.26663	3.27648
								REMARKS:							
								Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.							
								Measure for CYL Clearance: 0.591 inch from Bottom of Skirt.							
11-704	6	90.000	71.30	35.70	-	3.60	1.50	89.990	Tolerance is +/- (mm inch) : 0.003 0.00012	YELLOW:	89.9830	90.2330	90.4830	90.7330	90.9830
		3.543	2.807	1.406		0.142	0.059				2.480	3.54264	3.55248	3.56232	3.57217
PISTON RING #		Total Clearance				1.50		RED:	89.9965	90.2465	90.4965	90.7465	90.9965		
SWT20062		mm	inch			0.059								3.54317	3.55301
		-0.04	-0.00157			4.00	26.63	BLUE:	89.9895	90.2395	90.4895	90.7395	90.9895		
						0.157	1.048							3.54289	3.55274
								REMARKS:							
								Measure for CYL Clearance: 5.00 mm from Bottom of Skirt.							
								Measure for CYL Clearance: 0.197 inch from Bottom of Skirt.							
								CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
11-706	4	83.000	53.80	30.00	-	8.40	1.20	83.000	Tolerance is +/- (mm inch) : 0.0025 0.00010	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	2.118	1.181		0.331	0.047				2.283	3.26683	3.27667	3.28652	3.29636
PISTON RING #		Total Clearance				1.50		RED:	82.9675	83.2175	83.4675	83.7175	83.9675		
SWF30001 SWT20078		mm	inch			0.059								3.26644	3.27628
		-0.04	-0.00157			3.00	19.00	BLUE:	82.9625	83.2125	83.4625	83.7125	83.9625		
						0.118	0.748							3.26624	3.27608
								GREEN:	82.9725	83.2225	83.4725	83.7225	83.9725		
														3.26663	3.27648
								REMARKS:							
								Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.							
								Measure for CYL Clearance: 0.394 inch from Bottom of Skirt.							
11-707	6	91.100	66.00	32.00	-	2.30	1.20	91.080	Tolerance is +/- (mm inch) : 0.003 0.00012	YELLOW:	91.0730	91.3230	91.5730	91.8230	92.0730
		3.587	2.598	1.260		0.091	0.047				2.520	3.58555	3.59539	3.60524	3.61508
PISTON RING #		Total Clearance				1.50		RED:	91.0865	91.3365	91.5865	91.8365	92.0865		
SWM31078		mm	inch			0.059								3.58608	3.59593
		-0.04	-0.00157			3.00	22.00	BLUE:	91.0795	91.3295	91.5795	91.8295	92.0795		
						0.118	0.866							3.58581	3.59565
								REMARKS:							
								Measure for CYL Clearance: 16.00 mm from Bottom of Skirt.							
								Measure for CYL Clearance: 0.630 inch from Bottom of Skirt.							

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-709	4	86.500	67.10	35.00	-	4.30	1.20	86.495	Tolerance is +/- (mm inch) : 0.003 0.00012				
		3.406	2.642	1.378		0.169	0.047		2.441	YELLOW:	86.4880	86.7380	86.9880
PISTON RING #		Total Clearance						mm		inch			
SWM31116		-0.03 -0.00118						2.80		22.00			
								0.110		0.866			
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				T01		NONE		NONE		NONE		Measure for CYL Clearance: 12.00 mm from Bottom of Skirt. 0.472 inch	
PAGE #		21		215									
11-711	4	93.000	58.30	30.20	-	0.40	1.20	92.980	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.661	2.295	1.189		0.016	0.047		2.283	YELLOW:	92.9905	93.2405	93.4905
PISTON RING #		Total Clearance						mm		inch			
SWN30115		-0.04 -0.00157						1.20		22.00			
								0.047		0.866			
				Cir Clip		NONE		SURFACE TREATMENT		Anodized Head		REMARKS:	
				J05		Moly Skirt		NONE		NONE		Measure for CYL Clearance: 14.00 mm from Bottom of Skirt. 0.551 inch	
PAGE #		93		255									
												CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.	
11-713	4	81.000	56.00	30.50	-	3.40	1.20	81.000	Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.189	2.205	1.201		0.134	0.047		2.205	YELLOW:	80.9775	81.2275	81.4775
PISTON RING #		Total Clearance						mm		inch			
SWT10156		-0.04 -0.00157						1.50		20.00			
								0.059		0.787			
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				C17		NONE		NONE		NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch	
PAGE #		93		253									
11-714	4	81.000	55.60	30.50	-	2.50	1.20	81.000	Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.189	2.189	1.201		0.098	0.047		2.205	YELLOW:	80.9775	81.2275	81.4775
PISTON RING #		Total Clearance						mm		inch			
SWT10156		-0.04 -0.00157						1.50		20.00			
								0.059		0.787			
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				C17		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch	
PAGE #		93		253									

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-716	6	84.500	55.90	29.20	-	1.70	1.50	84.480	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.327	2.201	1.150		0.067	0.059		2.402	YELLOW:	84.4905	84.7405	84.9905
PISTON RING #		Total Clearance				1.50		WHITE:	84.4825	84.7325	84.9825	85.2325	85.4825
SWT20073		mm	inch			0.059		BLUE:	84.4695	84.7195	84.9695	85.2195	85.4695
		-0.04	-0.00157			3.00	19.98	GREEN:	84.4775	84.7275	84.9775	85.2275	85.4775
						0.118	0.787	REMARKS:					
				Cir Clip		NONE		Measure for CYL 11.00 mm from Bottom of Skirt.					
				NONE		SURFACE TREATMENT		Clearance: 0.433 inch					
				NONE		NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
				J05		Moly Skirt							
PAGE #		17	213						84.980 Tolerance is +/- (mm inch) : 0.003 0.00012				
11-718	4	85.000	67.00	35.00	-	2.20	1.20	84.970	YELLOW:				
		3.346	2.638	1.378		0.087	0.047		2.441	84.9730	85.2230	85.4730	85.7230
PISTON RING #		Total Clearance				3.60	1.50	84.980	RED:				
SWM31071		mm	inch			0.142	0.059		84.9865	85.2365	85.4865	85.7365	85.9865
		-0.04	-0.00157			3.00	22.00	BLUE:	84.9795	85.2295	85.4795	85.7295	85.9795
						0.118	0.866	GREEN:	84.9725	85.2225	85.4725	85.7225	85.9725
				Cir Clip		NONE		REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				T01		NONE		Clearance: 0.394 inch					
				T01		NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		17	213						85.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
11-719	4	85.000	67.00	35.00	-	5.40	1.20	85.000	YELLOW:				
		3.346	2.638	1.378		0.213	0.047		2.441	84.9775	85.2275	85.4775	85.7275
PISTON RING #		Total Clearance				1.50		85.000	RED:				
SWM31071		mm	inch			0.059			84.9675	85.2175	85.4675	85.7175	85.9675
		-0.04	-0.00157			3.00	22.00	BLUE:	84.9625	85.2125	85.4625	85.7125	85.9625
						0.118	0.866	GREEN:	84.9725	85.2225	85.4725	85.7225	85.9725
				Cir Clip		NONE		REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				C17		NONE		Clearance: 0.394 inch					
				C17		NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		193	261		263				87.500 Tolerance is +/- (mm inch) : 0.0025 0.00010				
11-720	6	87.500	51.00	31.20	-		1.20	87.500	YELLOW:				
		3.445	2.008	1.228			0.047		2.126	87.4775	87.7275	87.9775	88.2275
PISTON RING #		Total Clearance				1.20		87.500	RED:				
SWT10177		mm	inch			0.047			87.4675	87.7175	87.9675	88.2175	88.4675
		-0.04	-0.00157			3.00	22.00	BLUE:	87.4625	87.7125	87.9625	88.2125	88.4625
						0.118	0.866	GREEN:	87.4725	87.7225	87.9725	88.2225	88.4725
				Cir Clip		NONE		REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				C17		Moly Skirt		Clearance: 0.394 inch					
				C17		Moly Skirt		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION								
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)		
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm		
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch		
11-722	6	93.500	63.00	34.00	4.90	1.50	62.00	93.500	Tolerance is + / - (mm inch) : 0.0025 0.00010	YELLOW:	93.4775	93.7275	93.9775	94.2275	94.4775
		3.681	2.480	1.339	0.193	0.059	2.441				3.68022	3.69006	3.69990	3.70974	3.71959
PISTON RING #		Total Clearance				1.50		RED:	93.4675	93.7175	93.9675	94.2175	94.4675		
SWT10178		mm	inch			0.059								3.67982	3.68967
						4.00	22.00	BLUE:	93.4625	93.7125	93.9625	94.2125	94.4625		
		-0.04	-0.00157			0.157	0.866							3.67963	3.68947
								GREEN:	93.4725	93.7225	93.9725	94.2225	94.4725		
														3.68002	3.68986
				Cir Clip		SURFACE TREATMENT		REMARKS:							
						Anodized Head		Measure for CYL 10.00 mm from Bottom of Skirt.							
				C17		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
PAGE #		263													
11-723	4	86.000	67.90	35.00	5.00	1.50	66.00	86.000	Tolerance is + / - (mm inch) : 0.0025 0.00010	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
		3.386	2.673	1.378	0.197	0.059	2.598				3.38494	3.39478	3.40463	3.41447	3.42431
PISTON RING #		Total Clearance				1.50		RED:	85.9675	86.2175	86.4675	86.7175	86.9675		
SWT10090		mm	inch			0.059								3.38455	3.39439
						4.00	22.00	BLUE:	85.9625	86.2125	86.4625	86.7125	86.9625		
		-0.04	-0.00157			0.157	0.866							3.38435	3.39419
								GREEN:	85.9725	86.2225	86.4725	86.7225	86.9725		
														3.38474	3.39459
				Cir Clip		SURFACE TREATMENT		REMARKS:							
						NONE		Measure for CYL 20.00 mm from Bottom of Skirt.							
				C17		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
PAGE #		257													
11-724	4	95.000	61.00	37.20	2.60	1.50	70.00	95.000	Tolerance is + / - (mm inch) : 0.0025 0.00010	YELLOW:	94.9775	95.2275	95.4775	95.7275	95.9775
		3.740	2.402	1.465	0.102	0.059	2.756				3.73927	3.74911	3.75896	3.76880	3.77864
PISTON RING #		Total Clearance				1.50		RED:	94.9675	95.2175	95.4675	95.7175	95.9675		
SWT10139		mm	inch			0.059								3.73888	3.74872
						4.00	24.00	BLUE:	94.9625	95.2125	95.4625	95.7125	95.9625		
		-0.04	-0.00157			0.157	0.945							3.73868	3.74852
								GREEN:	94.9725	95.2225	95.4725	95.7225	95.9725		
														3.73907	3.74892
				Cir Clip		SURFACE TREATMENT		REMARKS:							
						Anodized Head		Measure for CYL 10.00 mm from Bottom of Skirt.							
				C17		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
PAGE #		261													
11-725	4	95.000	67.50	35.50	2.00	1.75	70.00	95.000	Tolerance is + / - (mm inch) : 0.0025 0.00010	YELLOW:	94.9775	95.2275	95.4775	95.7275	95.9775
		3.740	2.657	1.398	0.079	0.069	2.756				3.73927	3.74911	3.75896	3.76880	3.77864
PISTON RING #		Total Clearance				1.50		RED:	94.9675	95.2175	95.4675	95.7175	95.9675		
SWT10127		mm	inch			0.059								3.73888	3.74872
						4.00	24.00	BLUE:	94.9625	95.2125	95.4625	95.7125	95.9625		
		-0.03	-0.00118			0.157	0.945							3.73868	3.74852
								GREEN:	94.9725	95.2225	95.4725	95.7225	95.9725		
														3.73907	3.74892
				Cir Clip		SURFACE TREATMENT		REMARKS:							
						Anodized Head		Measure for CYL 15.00 mm from Bottom of Skirt.							
				C17		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
PAGE #		259													

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-726	4	83.000	65.40	30.90	-	1.20	56.00	82.980	Tolerance is +/- (mm inch) :	0.01	0.00039		
		3.268	2.575	1.217		0.80							0.047
PISTON RING #		Total Clearance				1.20		RED:	82.9700	83.2200	83.4700	83.7200	83.9700
SWH30448		mm	inch			0.047			3.26654	3.27638	3.28622	3.29606	3.30591
		-0.03	-0.00118			2.80	22.00	GREEN:	82.9900	83.2400	83.4900	83.7400	83.9900
						0.110	0.866		3.26732	3.27717	3.28701	3.29685	3.30669
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 16.00 mm from Bottom of Skirt.					
		C17				NONE							
PAGE #		163											
11-727	6	87.000	61.00	32.00	+	1.50	69.00	86.990	Tolerance is +/- (mm inch) :	0.003	0.00012		
		3.425	2.402	1.260		1.50							0.059
PISTON RING #		Total Clearance				1.50		YELLOW:	86.9830	87.2330	87.4830	87.7330	87.9830
SWN30058		mm	inch			0.05			3.42453	3.43437	3.44421	3.45406	3.46390
		-0.04	-0.00157			2.80	22.00	RED:	86.9965	87.2465	87.4965	87.7465	87.9965
						0.110	0.866		3.42506	3.43490	3.44474	3.45459	3.46443
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		T01				NONE		Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.					
		NONE				NONE							
PAGE #		173 229											
11-728	6	91.500	63.00	32.00	-	1.50	60.00	91.470	Tolerance is +/- (mm inch) :	0.003	0.00012		
		3.602	2.480	1.260		1.50							0.059
PISTON RING #		Total Clearance				1.50		YELLOW:	91.4630	91.7130	91.9630	92.2130	92.4630
SWN30120		mm	inch			0.059			3.60091	3.61075	3.62059	3.63043	3.64028
		-0.03	-0.00118			2.80	20.98	RED:	91.4765	91.7265	91.9765	92.2265	92.4765
						0.110	0.826		3.60144	3.61128	3.62112	3.63096	3.64081
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		T01				Anodized Head		Measure for CYL Clearance: 11.00 mm from Bottom of Skirt.					
		NONE				NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		173 231											
11-729	4	82.300	66.00	32.50	+	1.50	66.00	82.240	Tolerance is +/- (mm inch) :	0.0045	0.00018		
		3.240	2.598	1.280		1.50							0.059
PISTON RING #		Total Clearance				1.50		YELLOW:	82.2505	82.5005	82.7505	83.0005	83.2505
SWM31049		mm	inch			0.059			3.23821	3.24805	3.25789	3.26774	3.27758
		-0.04	-0.00157			3.00	21.00	WHITE:	82.2425	82.4925	82.7425	82.9925	83.2425
						0.118	0.827		3.23789	3.24774	3.25758	3.26742	3.27726
		Cir Clip				SURFACE TREATMENT		REMARKS:					
		NONE				NONE		Measure for CYL Clearance: 28.00 mm from Bottom of Skirt.					
		J05				NONE							
PAGE #		167											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-730	4	75.500	53.50	30.50	4.10	1.20	47.50	YELLOW:	75.4775	75.7275	75.9775	76.2275	76.4775
		2.972	2.106	1.201	0.161	0.047	1.870		2.97156	2.98140	2.99124	3.00108	3.01093
PISTON RING #		Total Clearance				1.50		RED:	75.4675	75.7175	75.9675	76.2175	76.4675
SWG30019		mm	inch			0.059		2.97116	2.98100	2.99085	3.00069	3.01053	
		-0.04	-0.00157			3.00		BLUE:	75.4625	75.7125	75.9625	76.2125	76.4625
						0.118		2.97096	2.98081	2.99065	3.00049	3.01033	
								GREEN:	75.4725	75.7225	75.9725	76.2225	76.4725
								2.97136	2.98120	2.99104	3.00089	3.01073	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											
		C17											
		NONE											
PAGE #		199						75.300 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-731	4	75.300	51.80	28.00	6.30	1.00	61.00	YELLOW:	75.2775	75.5275	75.7775	76.0275	76.2775
		2.965	2.039	1.102	0.248	0.039	2.402		2.96368	2.97352	2.98337	2.99321	3.00305
PISTON RING #		Total Clearance				1.20		RED:	75.2675	75.5175	75.7675	76.0175	76.2675
SWT20074		mm	inch			0.047		2.96329	2.97313	2.98297	2.99281	3.00266	
		-0.04	-0.00157			2.50		BLUE:	75.2625	75.5125	75.7625	76.0125	76.2625
						0.098		2.96309	2.97293	2.98278	2.99262	3.00246	
								GREEN:	75.2725	75.5225	75.7725	76.0225	76.2725
								2.96348	2.97333	2.98317	2.99301	3.00285	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											
PAGE #		159						75.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-732	4	75.000	49.90	29.90	2.80	1.00	56.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	1.965	1.177	0.110	0.039	2.205		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				1.20		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWH30423		mm	inch			0.047		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.04	-0.00157			2.80		BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.110		2.95128	2.96112	2.97096	2.98081	2.99065	
								GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
								2.95167	2.96152	2.97136	2.98120	2.99104	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											
PAGE #		3						81.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-733	4	81.000	60.00	30.00	1.30	1.00	56.00	YELLOW:	80.9775	81.2275	81.4775	81.7275	81.9775
		3.189	2.362	1.181	0.051	0.039	2.205		3.18809	3.19793	3.20778	3.21762	3.22746
PISTON RING #		Total Clearance				1.20		RED:	80.9675	81.2175	81.4675	81.7175	81.9675
SWH30373		mm	inch			0.047		3.18770	3.19754	3.20738	3.21722	3.22707	
		-0.04	-0.00157			2.80		BLUE:	80.9625	81.2125	81.4625	81.7125	81.9625
						0.110		3.18750	3.19734	3.20719	3.21703	3.22687	
								GREEN:	80.9725	81.2225	81.4725	81.7225	81.9725
								3.18789	3.19774	3.20758	3.21742	3.22726	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 14.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.551 inch					
		SURFACE TREATMENT											
		NONE											
		C17											
		NONE											

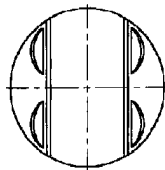
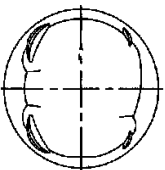
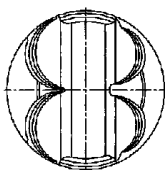
PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-734	6	93.000	58.30	30.30	-	0.40	1.20	93.000	Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.661	2.295	1.193		0.016	0.047		2.283	YELLOW:	92.9775	93.2275	93.4775
									3.66053	3.67037	3.68022	3.69006	3.69990
PISTON RING #		Total Clearance		<div style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">11-734 Piston is <u>11-711</u> now.</div>									
SWN30115		mm	inch										
				Bottom of									
				ment. To Determine									
				"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.									
11-735	4	87.500	64.80	31.40	+	0.90	1.20	87.470	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.445	2.551	1.236		0.035	0.047		2.953	YELLOW:	87.4805	87.7305	87.9805
									3.44411	3.45396	3.46380	3.47364	3.48348
PISTON RING #		Total Clearance											
SWM31120		mm	inch										
				Cir Clip									
				NONE									
				J05									
				SURFACE TREATMENT									
				NONE									
				REMARKS:									
				Measure for CYL Clearance: 13.00 mm from Bottom of Skirt. 0.512 inch									
11-736	4	75.000	57.80	27.80	-	7.20	1.00	74.970	Tolerance is +/- (mm inch) : 0.01 0.00039				
		2.953	2.276	1.094		0.283	0.039		2.205	RED:	74.9600	75.2100	75.4600
									2.95118	2.96102	2.97087	2.98071	2.99055
PISTON RING #		Total Clearance											
SWH30423		mm	inch										
				Cir Clip									
				NONE									
				T03									
				SURFACE TREATMENT									
				NONE									
				REMARKS:									
				Measure for CYL Clearance: 15.50 mm from Bottom of Skirt. 0.610 inch									
11-737	4	81.000	62.60	30.00	+	2.60	1.00	80.980	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.189	2.465	1.181		0.102	0.039		2.205	YELLOW:	80.9905	81.2405	81.4905
									3.18860	3.19844	3.20829	3.21813	3.22797
PISTON RING #		Total Clearance											
SWH30373		mm	inch										
				Cir Clip									
				NONE									
				J05									
				SURFACE TREATMENT									
				NONE									
				REMARKS:									
				Measure for CYL Clearance: 16.00 mm from Bottom of Skirt. 0.630 inch									

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION										
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)				
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm				
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch				
11-738	4	84.000	59.60	29.60	+	4.10	1.20	83.980	Tolerance is +/- (mm inch) : 0.0045 0.00018								
		3.307	2.346	1.165	-	0.161	0.047		2.224	YELLOW:	83.9905	84.2405	84.4905	84.7405	84.9905		
PISTON RING #		Total Clearance					1.20	WHITE:	83.9825	84.2325	84.4825	84.7325	84.9825				
SWH30437		mm	inch				0.047	BLUE:	3.30640	3.31624	3.32608	3.33593	3.34577				
		-0.04	-0.00157				2.80	GREEN:	3.30589	3.31573	3.32557	3.33541	3.34526				
							0.110	83.9775	84.2275	84.4775	84.7275	84.9775	3.30620	3.31604	3.32589	3.33573	3.34557
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:									
		NONE		NONE		NONE		Measure for CYL Clearance: mm from Bottom of Skirt.									
		J05		NONE		NONE											
PAGE # 161																	
11-739	4	87.000	61.00	31.00	+	0.90	1.20	87.000	Tolerance is +/- (mm inch) : 0.003 0.00012								
		3.425	2.402	1.220	-	0.035	0.047		2.244	YELLOW:	86.9930	87.2430	87.4930	87.7430	87.9930		
PISTON RING #		Total Clearance					5.50	RED:	3.42492	3.43476	3.44461	3.45445	3.46429				
SWH30433		mm	inch				0.217	0.047	87.0065	87.2565	87.5065	87.7565	88.0065				
		-0.04	-0.00157				3.00	2.80	3.42545	3.43530	3.44514	3.45498	3.46482				
							0.118	0.110	86.9995	87.2495	87.4995	87.7495	87.9995				
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:									
		NONE		NONE		NONE		Measure for CYL Clearance: 7.00 mm from Bottom of Skirt.									
		T01		NONE		NONE											
PAGE # 163																	
11-740	4	87.000	60.50	30.60	-	2.30	1.20	86.980	Tolerance is +/- (mm inch) : 0.003 0.00012								
		3.425	2.382	1.205	-	0.091	0.047		2.362	YELLOW:	86.9730	87.2230	87.4730	87.7230	87.9730		
PISTON RING #		Total Clearance					3.20	RED:	3.42413	3.43398	3.44382	3.45366	3.46350				
SWH30433		mm	inch				0.126	0.047	86.9865	87.2365	87.4865	87.7365	87.9865				
		-0.04	-0.00157				3.00	2.80	3.42467	3.43451	3.44435	3.45419	3.46404				
							0.118	0.110	86.9795	87.2295	87.4795	87.7295	87.9795				
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:									
		NONE		NONE		NONE		Measure for CYL Clearance: 11.00 mm from Bottom of Skirt.									
		T01		NONE		NONE											
PAGE # 163																	
11-741	4	87.000	61.80	31.00	+	0.80	1.20	86.970	Tolerance is +/- (mm inch) : 0.003 0.00012								
		3.425	2.433	1.220	-	0.031	0.047		2.244	YELLOW:	86.9630	87.2130	87.4630	87.7130	87.9630		
PISTON RING #		Total Clearance					1.20	RED:	3.42374	3.43358	3.44343	3.45327	3.46311				
SWH30433		mm	inch				0.047	0.047	86.9765	87.2265	87.4765	87.7265	87.9765				
		-0.04	-0.00157				2.80	21.97	3.42427	3.43411	3.44396	3.45380	3.46364				
							0.110	0.865	86.9695	87.2195	87.4695	87.7195	87.9695				
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:									
		NONE		NONE		NONE		Measure for CYL Clearance: 7.00 mm from Bottom of Skirt.									
		T01		NONE		NONE											
PAGE # 163																	

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-742	4	75.500	54.40	31.40	-	2.30	1.50	75.480	YELLOW:	0.0045	0.00018		
		2.972	2.142	1.236		0.091	0.059			1.862	75.4905	75.7405	75.9905
PISTON RING #		Total Clearance				6.70	1.50						
SWG30017		mm	inch			0.264	0.059						
		-0.04	-0.00157				3.00						
							0.118						
		Cir Clip											
		NONE											
		J05											
		SURFACE TREATMENT											
		NONE											
		NONE											
		REMARKS:											
		Measure for CYL											
		Clearance:											
		5.00 mm											
		0.197 inch											
		from Bottom of Skirt.											
PAGE #		3											
11-743	4	81.000	62.20	30.40	+	1.80	1.00	81.000	YELLOW:	0.0025	0.00010		
		3.189	2.449	1.197		0.071	0.039			2.205	80.9775	81.2275	81.4775
PISTON RING #		Total Clearance					1.20						
SWH30373		mm	inch				0.047						
		-0.04	-0.00157				2.80						
							0.110						
		Cir Clip											
		NONE											
		C17											
		SURFACE TREATMENT											
		NONE											
		Moly Skirt											
		REMARKS:											
		Measure for CYL											
		Clearance:											
		15.00 mm											
		0.591 inch											
		from Bottom of Skirt.											
		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
PAGE #		259											
11-745	4	95.000	59.00	35.60	-	0.90	1.50	94.980	YELLOW:	0.0045	0.00018		
		3.740	2.323	1.402		0.035	0.059			2.756	94.9905	95.2405	95.4905
PISTON RING #		Total Clearance					1.50						
SWT10139		mm	inch				0.059						
		-0.04	-0.00157				4.00						
							0.157						
		Cir Clip											
		NONE											
		J05											
		SURFACE TREATMENT											
		Anodized Head											
		Moly Skirt											
		REMARKS:											
		Measure for CYL											
		Clearance:											
		7.00 mm											
		0.276 inch											
		from Bottom of Skirt.											
		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
PAGE #		177											
11-747	4	86.000	55.50	30.40	-	7.50	1.50	86.000	YELLOW:	0.0025	0.00010		
		3.386	2.185	1.197		0.295	0.059			2.421	85.9775	86.2275	86.4775
PISTON RING #		Total Clearance					1.50						
SWI10205		mm	inch				0.059						
		-0.03	-0.00118				3.00						
							0.118						
		Cir Clip											
		NONE											
		C17											
		SURFACE TREATMENT											
		NONE											
		NONE											
		REMARKS:											
		Measure for CYL											
		Clearance:											
		10.00 mm											
		0.394 inch											
		from Bottom of Skirt.											

PISTON BUYER'S GUIDE

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EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-749	6	93.000	86.00	32.00	2.70	1.50	64.00	93.000	Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.661	3.386	1.260	0.106	0.059	2.520		YELLOW:	92.9775	93.2275	93.4775	93.7275
PISTON RING #		Total Clearance		-	-	-	-	RED:	92.9675	93.2175	93.4675	93.7175	93.9675
SWM31121		mm	inch						3.00	22.00	3.66014	3.66998	3.67982
		-0.04	-0.00157					BLUE:	92.9625	93.2125	93.4625	93.7125	93.9625
								GREEN:	92.9725	93.2225	93.4725	93.7225	93.9725
									3.66033	3.67018	3.68002	3.68986	3.69970
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			
								SURFACE TREATMENT					
								NONE					
								C17 NONE					
11-750	4	87.000	56.50	32.50	4.50	1.20	66.00	87.000	Tolerance is +/- (mm inch) : 0.0025 0.00010				
		3.425	2.224	1.280	0.177	0.047	2.598		YELLOW:	86.9775	87.2275	87.4775	87.7275
PISTON RING #		Total Clearance		-	-	-	-	RED:	86.9675	87.2175	87.4675	87.7175	87.9675
SWT10166		mm	inch						1.20	22.00	3.42392	3.43376	3.44360
		-0.04	-0.00157					BLUE:	86.9625	87.2125	87.4625	87.7125	87.9625
								GREEN:	86.9725	87.2225	87.4725	87.7225	87.9725
									3.42411	3.43396	3.44380	3.45364	3.46348
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			
								SURFACE TREATMENT					
								NONE					
								C17 NONE					
11-751	4	85.000	65.00	30.50	3.80	1.20	57.00	84.980	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		3.346	2.559	1.201	0.150	0.047	2.244		YELLOW:	84.9905	85.2405	85.4905	85.7405
PISTON RING #		Total Clearance		-	-	-	-	WHITE:	84.9825	85.2325	85.4825	85.7325	85.9825
SWH30383		mm	inch						1.20	22.00	3.34577	3.35561	3.36545
		-0.04	-0.00157					BLUE:	84.9695	85.2195	85.4695	85.7195	85.9695
								GREEN:	84.9775	85.2275	85.4775	85.7275	85.9775
									3.34557	3.35541	3.36526	3.37510	3.38494
								REMARKS:					
								Measure for CYL		14.00 mm	from Bottom of Skirt.		
								Clearance:		0.551 inch			
								SURFACE TREATMENT					
								NONE					
								J05 NONE					
11-752	4	75.000	50.00	30.00	3.40	1.00	56.00	74.960	Tolerance is +/- (mm inch) : 0.0045 0.00018				
		2.953	1.969	1.181	0.134	0.039	2.205		YELLOW:	74.9705	75.2205	75.4705	75.7205
PISTON RING #		Total Clearance		-	-	-	-	WHITE:	74.9625	75.2125	75.4625	75.7125	75.9625
SWH30423		mm	inch						1.20	22.00	2.95128	2.96112	2.97096
		-0.04	-0.00157					BLUE:	74.9495	75.1995	75.4495	75.6995	75.9495
								GREEN:	74.9575	75.2075	75.4575	75.7075	75.9575
									2.95077	2.96061	2.97045	2.98030	2.99014
									74.9575	75.2075	75.4575	75.7075	75.9575
									2.95108	2.96093	2.97077	2.98061	2.99045
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			
								SURFACE TREATMENT					
								NONE					
								J05 NONE					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-753	4	81.000	60.00	30.00	-	1.60	1.00	YELLOW:	80.9930	81.2430	81.4930	81.7430	81.9930
		3.189	2.362	1.181		0.063	0.039		2.205	3.18870	3.19854	3.20839	3.21823
PISTON RING #		Total Clearance				4.60	1.20	RED:	81.0065	81.2565	81.5065	81.7565	82.0065
		mm	inch			0.18	0.047		3.18923	3.19907	3.20892	3.21876	3.22860
SWH30373		-0.04	-0.00157				2.80	BLUE:	80.9995	81.2495	81.4995	81.7495	81.9995
							0.110		3.18896	3.19880	3.20864	3.21848	3.22833
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL					
				T01		NONE		Clearance: 6.00 mm from Bottom of Skirt.					
								6.00 mm from Bottom of Skirt.					
								0.236 inch					
11-754	4	81.000	60.00	30.20	-	2.40	1.00	YELLOW:	80.9830	81.2330	81.4830	81.7330	81.9830
		3.189	2.362	1.189		0.094	0.039		2.224	3.18831	3.19815	3.20799	3.21783
PISTON RING #		Total Clearance				4.80	1.20	RED:	80.9965	81.2465	81.4965	81.7465	81.9965
		mm	inch			0.19	0.047		3.18884	3.19868	3.20852	3.21837	3.22821
SWH30373		-0.04	-0.00157				2.80	BLUE:	80.9895	81.2395	81.4895	81.7395	81.9895
							0.110		3.18856	3.19841	3.20825	3.21809	3.22793
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL					
				T01		NONE		Clearance: 12.00 mm from Bottom of Skirt.					
								0.472 inch					
11-755	4	89.000	60.90	34.00	-	6.40	1.20	YELLOW:	88.9775	89.2275	89.4775	89.7275	89.9775
		3.504	2.398	1.339		0.252	0.047		2.244	3.50305	3.51289	3.52274	3.53258
PISTON RING #		Total Clearance				6.50	1.20	RED:	88.9675	89.2175	89.4675	89.7175	89.9675
		mm	inch			0.26	0.047		3.50266	3.51250	3.52234	3.53219	3.54203
SWN30143		-0.04	-0.00157				2.50	BLUE:	88.9625	89.2125	89.4625	89.7125	89.9625
							0.098		3.50246	3.51230	3.52215	3.53199	3.54183
				Cir Clip				GREEN:	88.9725	89.2225	89.4725	89.7225	89.9725
						SURFACE TREATMENT		REMARKS:					
				C17		Anodized Head		Measure for CYL					
						NONE		Clearance: 10.00 mm from Bottom of Skirt.					
								0.394 inch					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
11-756	4	79.000	51.60	29.90	+	4.20	1.20	YELLOW:	78.9775	79.2275	79.4775	79.7275	79.9775
		3.110	2.031	1.177		0.165	0.047		1.969	3.10935	3.11919	3.12904	3.13888
PISTON RING #		Total Clearance				2.30	1.20	RED:	78.9675	79.2175	79.4675	79.7175	79.9675
		mm	inch			0.09	0.047		3.10896	3.11880	3.12864	3.13848	3.14833
SWT10183		-0.04	-0.00157				3.00	BLUE:	78.9625	79.2125	79.4625	79.7125	79.9625
							0.118		3.10876	3.11860	3.12844	3.13829	3.14813
				Cir Clip				GREEN:	78.9725	79.2225	79.4725	79.7225	79.9725
						SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL					
								Clearance: 10.00 mm from Bottom of Skirt.					
								0.394 inch					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch	
11-757	4	PAGE # 3		85.000	65.00	30.50	2.20	1.20	57.00	84.995 Tolerance is +/- (mm inch) : 0.003 0.00012				
				3.346	2.559	1.201	-	0.087	0.047	2.244	YELLOW:	84.9880	85.2380	85.4880
PISTON RING #		Total Clearance				4.65	1.20	REMARKS:						
		mm inch				0.18	0.047	Measure for CYL Clearance: 14.00 mm from Bottom of Skirt.						
SWH30383		-0.04 -0.00157				3.40	2.80							
						0.13	0.110							
				Cir Clip		NONE		SURFACE TREATMENT						
						T01		NONE						
11-758	4	PAGE # 17 213		85.000	67.00	35.00	3.30	1.20	62.00	85.000 Tolerance is +/- (mm inch) : 0.0025 0.00010				
				3.346	2.638	1.378	-	0.130	0.047	2.441	YELLOW:	84.9775	85.2275	85.4775
PISTON RING #		Total Clearance				1.50	1.50	REMARKS:						
		mm inch				0.059	0.059	Measure for CYL Clearance: 10.00 mm from Bottom of Skirt.						
SWM31103		-0.04 -0.00157				2.80	2.80							
						0.110	0.110							
				Cir Clip		NONE		SURFACE TREATMENT						
						C17		Anodized Head						
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
11-759	6	PAGE # 205		90.000	70.70	35.20	1.45	1.50	63.00	89.995 Tolerance is +/- (mm inch) : 0.003 0.00012				
				3.543	2.783	1.386	+	0.057	0.059	2.480	YELLOW:	89.9880	90.2380	90.4880
PISTON RING #		Total Clearance				5.60	1.50	REMARKS:						
		mm inch				0.22	0.059	Measure for CYL Clearance: 16.00 mm from Bottom of Skirt.						
SWT20062		-0.04 -0.00157				4.00	4.00							
						0.157	0.157							
				Cir Clip		NONE		SURFACE TREATMENT						
						T01		Moly Skirt						
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
11-762	6	PAGE # 217		91.100	65.80	31.80	3.20	1.20	64.00	91.100 Tolerance is +/- (mm inch) : 0.0025 0.00010				
				3.587	2.591	1.252	-	0.126	0.047	2.520	YELLOW:	91.0775	91.3275	91.5775
PISTON RING #		Total Clearance				1.50	1.50	REMARKS:						
		mm inch				0.059	0.059	Measure for CYL Clearance: 20.00 mm from Bottom of Skirt.						
SWM31078		-0.04 -0.00157				3.00	3.00							
						0.118	0.118							
				Cir Clip		NONE		SURFACE TREATMENT						
						C17		NONE						

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-764	6	93.400	57.00	33.70	-	1.90	66.00	93.400	Tolerance is +/- (mm inch) :	0.0025	0.00010	YELLOW:	
		3.677	2.244	1.327		0.075	0.059						2.598
PISTON RING #		Total Clearance				1.50		RED:	93.3675	93.6175	93.8675	94.1175	94.3675
		mm	inch			0.059		BLUE:	3.67589	3.68573	3.69557	3.70541	3.71526
SW10191		-0.04	-0.00157			3.00	22.00	GREEN:	93.3625	93.6125	93.8625	94.1125	94.3625
						0.118	0.866		3.67569	3.68553	3.69537	3.70522	3.71506
				Cir Clip				REMARKS:	93.3725	93.6225	93.8725	94.1225	94.3725
				NONE		SURFACE TREATMENT		Measure for CYL	3.67608	3.68593	3.69577	3.70561	3.71545
				C17		NONE		Clearance:	10.00 mm		from Bottom of Skirt.		
								0.394 inch					
PAGE #		179											
11-767	4	81.000	60.00	30.80	+	0.20	58.00	81.000	Tolerance is +/- (mm inch) :	0.0025	0.00010	YELLOW:	
		3.189	2.362	1.213		0.008	0.047						2.283
PISTON RING #		Total Clearance				1.20		RED:	80.9675	81.2175	81.4675	81.7175	81.9675
		mm	inch			0.047		BLUE:	3.18770	3.19754	3.20738	3.21722	3.22707
SWM31079		-0.04	-0.00157			2.80	19.00	GREEN:	80.9625	81.2125	81.4625	81.7125	81.9625
						0.110	0.748		3.18750	3.19734	3.20719	3.21703	3.22687
				Cir Clip				REMARKS:	80.9725	81.2225	81.4725	81.7225	81.9725
				NONE		SURFACE TREATMENT		Measure for CYL	3.18789	3.19774	3.20758	3.21742	3.22726
				C17		NONE		Clearance:	10.00 mm		from Bottom of Skirt.		
								0.394 inch					
PAGE #		15 211											
11-769	4	74.000	56.00	29.00	-	1.80	61.50	74.000	Tolerance is +/- (mm inch) :	0.0025	0.00010	YELLOW:	
		2.913	2.205	1.142		0.071	0.047						2.421
PISTON RING #		Total Clearance				1.20		RED:	73.9675	74.2175	74.4675	74.7175	74.9675
		mm	inch			0.047		BLUE:	2.91211	2.92195	2.93179	2.94163	2.95148
SWS20186		-0.04	-0.00157			2.50	19.00	GREEN:	73.9625	74.2125	74.4625	74.7125	74.9625
						0.098	0.748		2.91191	2.92175	2.93159	2.94144	2.95128
				Cir Clip				REMARKS:	73.9725	74.2225	74.4725	74.7225	74.9725
				NONE		SURFACE TREATMENT		Measure for CYL	2.91230	2.92215	2.93199	2.94183	2.95167
				C17		NONE		Clearance:	10.00 mm		from Bottom of Skirt.		
								0.394 inch					
PAGE #		249											
11-771	6	84.000	52.50	30.60		1.20	59.00	83.980	Tolerance is +/- (mm inch) :	0.003	0.00012	YELLOW:	
		3.307	2.067	1.205		0.047	2.323						83.9730
PISTON RING #		Total Clearance				1.20		RED:	83.9865	84.2365	84.4865	84.7365	84.9865
		mm	inch			0.047		BLUE:	3.30656	3.31640	3.32624	3.33608	3.34593
NA		-0.03	-0.00118			2.50	21.00	GREEN:	83.9795	84.2295	84.4795	84.7295	84.9795
						0.098	0.827		3.30628	3.31612	3.32596	3.33581	3.34565
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL	6.00 mm		from Bottom of Skirt.		
				T01		NONE		Clearance:	0.236 inch				
PAGE #		169 187											

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-772	4	86.500	66.70	34.60	3.50	1.20	62.00	YELLOW:	86.4830	86.7330	86.9830	87.2330	87.4830
		3.406	2.626	1.362	0.138	0.047	2.441		3.40484	3.41469	3.42453	3.43437	3.44421
PISTON RING #		Total Clearance						RED:	86.4965	86.7465	86.9965	87.2465	87.4965
SWG30047		mm	inch					BLUE:	3.40537	3.41522	3.42506	3.43490	3.44474
		-0.03	-0.00118			2.80	22.00		3.40510	3.41494	3.42478	3.43463	3.44447
						0.110	0.866	REMARKS: Measure for CYL Clearance: 5.00 mm from Bottom of Skirt. 0.197 inch					
PAGE #		169		187									
11-773	4	75.500	51.30	28.30	2.30	1.20	52.00	YELLOW:	75.4850	75.7350	75.9850	76.2350	76.4850
		2.972	2.020	1.114	0.091	0.047	2.047		2.97185	2.98169	2.99154	3.00138	3.01122
PISTON RING #		Total Clearance						WHITE:	75.4825	75.7325	75.9825	76.2325	76.4825
SWK30019		mm	inch			1.20	19.98	BLUE:	2.97175	2.98159	2.99144	3.00128	3.01112
		-0.03	-0.00118			0.047	0.787	GREEN:	75.4750	75.7250	75.9750	76.2250	76.4750
						0.098			2.97146	2.98130	2.99114	3.00098	3.01083
								REMARKS: Measure for CYL Clearance: 18.00 mm from Bottom of Skirt. 0.709 inch					
PAGE #		185											
11-774	6	93.000	65.20	31.20	6.00	1.50	64.00	YELLOW:	92.9775	93.2275	93.4775	93.7275	93.9775
		3.661	2.567	1.228	0.236	0.059	2.520		3.66053	3.67037	3.68022	3.69006	3.69990
PISTON RING #		Total Clearance						RED:	92.9675	93.2175	93.4675	93.7175	93.9675
SWM31121		mm	inch			1.50	22.00	BLUE:	3.66014	3.66998	3.67982	3.68967	3.69951
		-0.03	-0.00118			0.059	0.866	GREEN:	92.9625	93.2125	93.4625	93.7125	93.9625
						0.118			3.65994	3.66978	3.67963	3.68947	3.69931
								REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		217											
11-775	4	84.000	58.90	29.40	4.90	1.20	58.00	YELLOW:	83.9775	84.2275	84.4775	84.7275	84.9775
		3.307	2.319	1.157	0.193	0.047	2.283		3.30620	3.31604	3.32589	3.33573	3.34557
PISTON RING #		Total Clearance						RED:	83.9675	84.2175	84.4675	84.7175	84.9675
SWS20178		mm	inch			1.50	21.00	BLUE:	3.30581	3.31565	3.32549	3.33533	3.34518
		-0.04	-0.00157			0.059	0.827	GREEN:	83.9625	84.2125	84.4625	84.7125	84.9625
						0.098			3.30561	3.31545	3.32530	3.33514	3.34498
								REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		249											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-776	4	PAGE #	237	253				75.000	49.00	30.10	6.20	1.20	53.00
			2.953	1.929	1.185	-	0.244	0.047	2.087				
PISTON RING #		Total Clearance			2.20	1.20							
SWT10192		mm	inch	-	0.087	0.047							
		-0.03	-0.00118			2.00	18.00						
						0.079	0.709						
		Cir Clip											
		NONE			SURFACE TREATMENT								
		C17			NONE								
REMARKS:							Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
11-777	4	PAGE #	93	255				79.000	51.70	29.80	2.40	1.20	50.00
			3.110	2.035	1.173	+	0.094	0.047	1.969				
PISTON RING #		Total Clearance				1.20							
SWT10183		mm	inch			0.047	20.010						
		-0.03	-0.00118			3.00	0.788						
						0.118							
		Cir Clip											
		J05			SURFACE TREATMENT								
		Anodized Head			Moly Skirt								
REMARKS:							Measure for CYL Clearance: 19.50 mm from Bottom of Skirt. 0.768 inch						
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.													
11-778	6	PAGE #	261					86.000	65.00	34.00	3.80	1.50	66.00
			3.386	2.559	1.339	-	0.150	0.059	2.598				
PISTON RING #		Total Clearance				1.50							
SWT10134		mm	inch			0.059	22.000						
		-0.03	-0.00118			4.00	0.866						
						0.157							
		Cir Clip											
		T03			SURFACE TREATMENT								
		Anodized Head			Moly Skirt								
REMARKS:							Measure for CYL Clearance: 12.30 mm from Bottom of Skirt. 0.484 inch						
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.													
11-779	4	PAGE #	53					79.000	51.30	28.30	2.90	1.20	54.70
			3.110	2.020	1.114	-	0.114	0.047	2.154				
PISTON RING #		Total Clearance				1.50							
SWD20004		mm	inch			0.059	18.00						
		-0.03	-0.00118			3.00	0.709						
						0.118							
		Cir Clip											
		J05			SURFACE TREATMENT								
		NONE			NONE								
REMARKS:							Measure for CYL Clearance: 8.00 mm from Bottom of Skirt. 0.315 inch						

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-780	6	86.000	53.20	31.20		1.50	60.00						
		3.386	2.094	1.228		0.059	2.362						
PISTON RING #		Total Clearance				1.50							
		mm	inch			0.059							
SWC10001		-0.04	-0.00157			3.00	22.000						
						0.118	0.866						
		Cir Clip											
		SURFACE TREATMENT											
		Anodized Head											
		J05											
		Moly Skirt											
PAGE #		31											
REMARKS:		Measure for CYL				7.00 mm							
		Clearance:				0.276 inch						from Bottom of Skirt.	
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-781	4	86.000	51.50	30.02	-	2.40	1.20	54.00					
		3.386	2.028	1.182		0.094	0.047	2.126					
PISTON RING #		Total Clearance				4.80	1.20						
		mm	inch			0.19	0.047						
SWH30443		-0.04	-0.00157			3.20	2.80	21.97					
						0.13	0.110	0.865					
		Cir Clip											
		SURFACE TREATMENT											
		NONE											
		T01											
		NONE											
PAGE #		3	163										
REMARKS:		Measure for CYL				16.00 mm						from Bottom of Skirt.	
		Clearance:				0.630 inch							
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-785	4	75.000	49.10	29.10	-	2.40	1.00	56.00					
		2.953	1.933	1.146		0.094	0.039	2.205					
PISTON RING #		Total Clearance				4.40	1.20						
		mm	inch			0.17	0.047						
SWH30423		-0.03	-0.00118			2.60	2.80	19.00					
						0.10	0.110	0.748					
		Cir Clip											
		SURFACE TREATMENT											
		NONE											
		T01											
		NONE											
PAGE #		161											
REMARKS:		Measure for CYL				3.00 mm						from Bottom of Skirt.	
		Clearance:				0.118 inch							
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-788	4	99.500	50.00	29.50	-	1.70	1.20	64.00					
		3.917	1.969	1.161		0.067	0.047	2.520					
PISTON RING #		Total Clearance				1.20							
		mm	inch			0.047							
SWF20066		-0.04	-0.00157			2.50	23.00						
						0.098	0.906						
		Cir Clip											
		SURFACE TREATMENT											
		NONE											
		C17											
		Moly Skirt											
PAGE #		235	245										
REMARKS:		Measure for CYL				10.00 mm						from Bottom of Skirt.	
		Clearance:				0.394 inch							
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
85.960	YELLOW:	85.9705	86.2205	86.4705		86.7205	86.9705						
		3.38467	3.39451	3.40435		3.41419	3.42404						
85.960	WHITE:	85.9625	86.2125	86.4625		86.7125	86.9625						
		3.38435	3.39419	3.40404		3.41388	3.42372						
85.960	BLUE:	85.9495	86.1995	86.4495		86.6995	86.9495						
		3.38384	3.39368	3.40352		3.41337	3.42321						
85.960	GREEN:	85.9575	86.2075	86.4575		86.7075	86.9575						
		3.38415	3.39400	3.40384		3.41368	3.42352						

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-791	6	PAGE #	5	165				86.000					
			86.000 3.386	51.50 2.028	30.00 1.181	0.80 0.031	1.20 0.047	54.00 2.126					
PISTON RING #		Total Clearance											
SWH30432		mm	inch										
		-0.04	-0.00157										
		Cir Clip											
				SURFACE TREATMENT									
		NONE		NONE									
		C17		NONE									
		REMARKS:		Measure for CYL									
		Clearance:		15.00 mm	from Bottom of Skirt.								
				0.591 inch									
11-792	4	PAGE #	103	237				88.470					
			88.500 3.484	55.80 2.197	33.70 1.327	6.40 0.252	1.20 0.047	56.00 2.205					
PISTON RING #		Total Clearance											
SWT10182		mm	inch										
		-0.03	-0.00118										
		Cir Clip											
				SURFACE TREATMENT									
		Anodized Head		Anodized Head									
		J05		Moly Skirt									
		REMARKS:		Measure for CYL									
		Clearance:		4.00 mm	from Bottom of Skirt.								
				0.157 inch									
		CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.									
11-793	6	PAGE #	5	179				93.500					
			93.500 3.681	52.70 2.075	29.70 1.169	3.00 0.118	1.50 0.059	66.00 2.598					
PISTON RING #		Total Clearance											
SW10191		mm	inch										
		-0.04	-0.00157										
		Cir Clip											
		NONE		SURFACE TREATMENT									
		C17		NONE									
		REMARKS:		Measure for CYL									
		Clearance:		15.00 mm	from Bottom of Skirt.								
				0.591 inch									
11-794	4	PAGE #	199					78.000					
			78.000 3.071	62.40 2.457	31.90 1.256	2.50 0.098	1.50 0.059	57.00 2.244					
PISTON RING #		Total Clearance											
SWT20060		mm	inch										
		-0.04	-0.00157										
		Cir Clip											
				SURFACE TREATMENT									
		NONE		NONE									
		C17		NONE									
		REMARKS:		Measure for CYL									
		Clearance:		15.00 mm	from Bottom of Skirt.								
				0.591 inch									

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-795	4	86.000	59.10	35.00	3.90	1.20	56.00	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
		3.386	2.327	1.378	0.154	0.047	2.205		3.38494	3.39478	3.40463	3.41447	3.42431
PISTON RING #		Total Clearance				1.20		RED:	85.9675	86.2175	86.4675	86.7175	86.9675
SWT10162		mm	inch			0.047		3.38455	3.39439	3.40423	3.41407	3.42392	
		-0.04	-0.00157			3.00	22.00	BLUE:	85.9625	86.2125	86.4625	86.7125	86.9625
						0.118	0.866	3.38435	3.39419	3.40404	3.41388	3.42372	
								GREEN:	85.9725	86.2225	86.4725	86.7225	86.9725
								3.38474	3.39459	3.40443	3.41427	3.42411	
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			
PAGE #		161						75.000	Tolerance is +/- (mm inch):		0.0025	0.00010	
11-797	4	75.000	46.50	26.90	2.90	1.00	56.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	1.831	1.059	0.114	0.039	2.205		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				1.20		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWH30440		mm	inch			0.047		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.03	-0.00118			2.00	19.00	BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.079	0.748	2.95128	2.96112	2.97096	2.98081	2.99065	
								GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
								2.95167	2.96152	2.97136	2.98120	2.99104	
								REMARKS:					
								Measure for CYL		5.00 mm	from Bottom of Skirt.		
								Clearance:		0.197 inch			
PAGE #		161						75.000	Tolerance is +/- (mm inch):		0.0025	0.00010	
11-798	4	75.000	45.60	27.00	2.70	1.00	56.00	YELLOW:	74.9775	75.2275	75.4775	75.7275	75.9775
		2.953	1.795	1.063	0.106	0.039	2.205		2.95187	2.96171	2.97156	2.98140	2.99124
PISTON RING #		Total Clearance				1.20		RED:	74.9675	75.2175	75.4675	75.7175	75.9675
SWH30440		mm	inch			0.047		2.95148	2.96132	2.97116	2.98100	2.99085	
		-0.03	-0.00118			2.00	19.00	BLUE:	74.9625	75.2125	75.4625	75.7125	75.9625
						0.079	0.748	2.95128	2.96112	2.97096	2.98081	2.99065	
								GREEN:	74.9725	75.2225	75.4725	75.7225	75.9725
								2.95167	2.96152	2.97136	2.98120	2.99104	
								REMARKS:					
								Measure for CYL		5.00 mm	from Bottom of Skirt.		
								Clearance:		0.197 inch			
PAGE #		161						84.000	Tolerance is +/- (mm inch):		0.0025	0.00010	
11-799	4	84.000	59.60	29.60	0.70	1.20	56.50	YELLOW:	83.9775	84.2275	84.4775	84.7275	84.9775
		3.307	2.346	1.165	0.028	0.047	2.224		3.30620	3.31604	3.32589	3.33573	3.34557
PISTON RING #		Total Clearance				1.20		RED:	83.9675	84.2175	84.4675	84.7175	84.9675
SWH30437		mm	inch			0.047		3.30581	3.31565	3.32549	3.33533	3.34518	
		-0.03	-0.00118			2.80	21.00	BLUE:	83.9625	84.2125	84.4625	84.7125	84.9625
						0.110	0.827	3.30561	3.31545	3.32530	3.33514	3.34498	
								GREEN:	83.9725	84.2225	84.4725	84.7225	84.9725
								3.30600	3.31585	3.32569	3.33553	3.34537	
								REMARKS:					
								Measure for CYL		15.00 mm	from Bottom of Skirt.		
								Clearance:		0.591 inch			

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	+ DIST.					mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	mm inch				inch	inch	inch	inch	inch	
11-800	6	93.000	58.00	30.40		0.50	1.20	58.00	92.970	Tolerance is + / - (mm inch) : 0.01 0.00039					
		3.661	2.283	1.197	-	0.020	0.047	2.283							
PISTON RING #		Total Clearance								100	93.9600				
SWN30115		mm inch								937	3.69921				
		-0.03 -0.00118													
										300	93.9800				
										016	3.70000				
										Bottom of					
										ent. To Determine					
										"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		173	229							11-800 Piston is 11-711 now.					
11-801	8	94.000	60.30	33.90		6.80	1.50	62.00	93.980	Tolerance is + / - (mm inch) : 0.01 0.00039					
		3.701	2.374	1.335	-	0.268	0.059	2.441							
PISTON RING #		Total Clearance								RED:	93.9700	94.2200	94.4700	94.7200	94.9700
SWT10203		mm inch									3.69961	3.70945	3.71929	3.72913	3.73898
		-0.03 -0.00118								GREEN:	93.9900	94.2400	94.4900	94.7400	94.9900
											3.70039	3.71024	3.72008	3.72992	3.73976
										REMARKS: Measure for CYL 10.50 mm from Bottom of Skirt. Clearance: 0.413 inch					
										CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		197	265												
11-802	4	82.000	57.70	31.30		1.40	1.20	56.58	81.980	Tolerance is + / - (mm inch) : 0.01 0.00039					
		3.228	2.272	1.232	+	0.055	0.047	2.228							
PISTON RING #		Total Clearance								RED:	81.9700	82.2200	82.4700	82.7200	82.9700
SWT10196		mm inch									3.22717	3.23701	3.24685	3.25669	3.26654
		-0.03 -0.00118								GREEN:	81.9900	82.2400	82.4900	82.7400	82.9900
											3.22795	3.23780	3.24764	3.25748	3.26732
										REMARKS: Measure for CYL 25.00 mm from Bottom of Skirt. Clearance: 0.984 inch					
										CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		255													
11-804	4	86.500	53.50	30.50			1.20	62.00	86.480	Tolerance is + / - (mm inch) : 0.0045 0.00018					
		3.406	2.106	1.201			0.047	2.441							
PISTON RING #		Total Clearance								YELLOW:	86.4850	86.7350	86.9850	87.2350	87.4850
SWM31116		mm inch									3.40492	3.41476	3.42461	3.43445	3.44429
		-0.03 -0.00118								WHITE:	86.4825	86.7325	86.9825	87.2325	87.4825
											3.40482	3.41467	3.42451	3.43435	3.44419
										BLUE:	86.4750	86.7250	86.9750	87.2250	87.4750
											3.40453	3.41437	3.42421	3.43406	3.44390
										GREEN:	86.4775	86.7275	86.9775	87.2275	87.4775
											3.40463	3.41447	3.42431	3.43415	3.44400
										REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch					
										CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		21	215												

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-806	6	93.000	53.90	31.80		1.50	59.00	92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
		3.661	2.122	1.252		0.059	2.323		YELLOW:	92.9705	93.2205	93.4705	93.7205
PISTON RING #		Total Clearance				1.50		WHITE:	92.9625	93.2125	93.4625	93.7125	93.9625
		mm	inch			0.059		BLUE:	3.65994	3.66978	3.67963	3.68947	3.69931
SWC10002		-0.04	-0.00157			3.00	24.022	GREEN:	92.9495	93.1995	93.4495	93.6995	93.9495
						0.118	0.946		3.65943	3.66927	3.67911	3.68896	3.69880
		Cir Clip						REMARKS:	92.9575	93.2075	93.4575	93.7075	93.9575
								Measure for CYL	3.65974	3.66959	3.67943	3.68927	3.69911
		NONE						Clearance:	13.00 mm from Bottom of Skirt.				
		J05						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		43	219					92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
11-807	8	93.000	53.90	31.80		1.50	59.00	92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
		3.661	2.122	1.252		0.059	2.323		YELLOW:	92.9705	93.2205	93.4705	93.7205
PISTON RING #		Total Clearance				1.50		WHITE:	92.9625	93.2125	93.4625	93.7125	93.9625
		mm	inch			0.059		BLUE:	3.65994	3.66978	3.67963	3.68947	3.69931
SWC10002 8CYL		-0.04	-0.00157			3.00	24.022	GREEN:	92.9495	93.1995	93.4495	93.6995	93.9495
						0.118	0.946		3.65943	3.66927	3.67911	3.68896	3.69880
		Cir Clip						REMARKS:	92.9575	93.2075	93.4575	93.7075	93.9575
								Measure for CYL	3.65974	3.66959	3.67943	3.68927	3.69911
		NONE						Clearance:	13.00 mm from Bottom of Skirt.				
		J05						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		43	219					92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
11-807D	8	93.000	55.40	33.50	+	1.50	59.00	92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
		3.661	2.181	1.319	0.079	0.059	2.323		YELLOW:	92.9705	93.2205	93.4705	93.7205
PISTON RING #		Total Clearance				1.50		WHITE:	92.9625	93.2125	93.4625	93.7125	93.9625
		mm	inch			0.059		BLUE:	3.65994	3.66978	3.67963	3.68947	3.69931
SWC10002 8CYL		-0.04	-0.00157			3.00	24.022	GREEN:	92.9495	93.1995	93.4495	93.6995	93.9495
						0.118	0.946		3.65943	3.66927	3.67911	3.68896	3.69880
		Cir Clip						REMARKS:	92.9575	93.2075	93.4575	93.7075	93.9575
								Measure for CYL	3.65974	3.66959	3.67943	3.68927	3.69911
		NONE						Clearance:	10.00 mm from Bottom of Skirt.				
		J05						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		43	219					92.960	Tolerance is + / - (mm inch) : 0.0045 0.00018				
11-808	6	83.500	64.00	31.90	+	1.20	64.00	83.500	Tolerance is + / - (mm inch) : 0.0025 0.00010				
		3.287	2.520	1.256	0.004	0.047	2.520		YELLOW:	83.4775	83.7275	83.9775	84.2275
PISTON RING #		Total Clearance				1.50		RED:	3.28652	3.29636	3.30620	3.31604	3.32589
		mm	inch			0.059		BLUE:	83.4675	83.7175	83.9675	84.2175	84.4675
SWC10009		-0.03	-0.00118			3.00	22.00	GREEN:	3.28612	3.29596	3.30581	3.31565	3.32549
						0.118	0.866		83.4625	83.7125	83.9625	84.2125	84.4625
		Cir Clip						REMARKS:	3.28593	3.29577	3.30561	3.31545	3.32530
								Measure for CYL	83.4725	83.7225	83.9725	84.2225	84.4725
		NONE						Clearance:	3.28632	3.29616	3.30600	3.31585	3.32569
		C17						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		25						83.500	Tolerance is + / - (mm inch) : 0.0025 0.00010				

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	CYL	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
						OIL1	DIA.		inch	inch	inch	inch	inch	
mm	inch	mm	inch	mm	mm	OIL2	mm	mm	mm	mm	mm			
PAGE #		81						90.170 Tolerance is +/- (mm inch) : 0.0045 0.00018						
11-809	8	90.200	52.10	30.75	-	3.50	1.50	YELLOW:	90.1805	90.4305	90.6805	90.9305	91.1805	
		3.551	2.051	1.211		0.138	0.059		2.402	3.55041	3.56026	3.57010	3.57994	3.58978
		PISTON RING #		Total Clearance					1.50	WHITE:	90.1725	90.4225	90.6725	90.9225
SWF30006		mm	inch			0.059	3.55010	3.55994	3.56978		3.57963	3.58947		
		-0.04	-0.00157			3.00	22.000	BLUE:	90.1595	90.4095	90.6595	90.9095	91.1595	
						0.118	0.866		3.54959	3.55943	3.56927	3.57911	3.58986	
								GREEN:	90.1675	90.4175	90.6675	90.9175	91.1675	
									3.54990	3.55974	3.56959	3.57943	3.58927	
								REMARKS:						
								Measure for CYL 6.00 mm from Bottom of Skirt.						
								Clearance: 0.236 inch						
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE #		81						90.180 Tolerance is +/- (mm inch) : 0.0045 0.00018						
11-810	8	90.200	52.00	31.00	-	1.75	1.50	YELLOW:	90.1905	90.4405	90.6905	90.9405	91.1905	
		3.551	2.047	1.220		0.069	0.059		2.402	3.55081	3.56065	3.57049	3.58033	3.59018
		PISTON RING #		Total Clearance					1.50	WHITE:	90.1825	90.4325	90.6825	90.9325
SWF30006		mm	inch			0.059	3.55049	3.56033	3.57018		3.58002	3.58986		
		-0.04	-0.00157			3.00	22.00	BLUE:	90.1695	90.4195	90.6695	90.9195	91.1695	
						0.118	0.866		3.54998	3.55982	3.56967	3.57951	3.58935	
								GREEN:	90.1775	90.4275	90.6775	90.9275	91.1775	
									3.55030	3.56014	3.56998	3.57982	3.58967	
								REMARKS:						
								Measure for CYL 5.00 mm from Bottom of Skirt.						
								Clearance: 0.197 inch						
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE #		87						90.170 Tolerance is +/- (mm inch) : 0.0045 0.00018						
11-811	10	90.200	52.10	30.75	-	3.50	1.50	YELLOW:	90.1805	90.4305	90.6805	90.9305	91.1805	
		3.551	2.051	1.211		0.138	0.059		2.402	3.55041	3.56026	3.57010	3.57994	3.58978
		PISTON RING #		Total Clearance					1.50	WHITE:	90.1725	90.4225	90.6725	90.9225
SWF30013 10CYL		mm	inch			0.059	3.55010	3.55994	3.56978		3.57963	3.58947		
		-0.04	-0.00157			3.00	22.00	BLUE:	90.1595	90.4095	90.6595	90.9095	91.1595	
						0.118	0.866		3.54959	3.55943	3.56927	3.57911	3.58986	
								GREEN:	90.1675	90.4175	90.6675	90.9175	91.1675	
									3.54990	3.55974	3.56959	3.57943	3.58927	
								REMARKS:						
								Measure for CYL 6.00 mm from Bottom of Skirt.						
								Clearance: 0.236 inch						
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE #		23						87.470 Tolerance is +/- (mm inch) : 0.0035 0.00014						
11-814	4	87.500	66.30	30.20	+	11.50	1.50	YELLOW:	87.4630	87.7130	87.9630	88.2130	88.4630	
		3.445	2.610	1.189		0.453	0.059		2.858	3.44343	3.45327	3.46311	3.47295	3.48280
		PISTON RING #		Total Clearance					1.50	RED:	87.4765	87.7265	87.9765	88.2265
SWC10007		mm	inch			0.059	3.44396	3.45380	3.46364		3.47348	3.48333		
		-0.03	-0.00118			3.00	22.00	BLUE:	87.4695	87.7195	87.9695	88.2195	88.4695	
						0.118	0.866		3.44368	3.45352	3.46337	3.47321	3.48305	
								REMARKS:						
								Measure for CYL 5.00 mm from Bottom of Skirt.						
								Clearance: 0.197 inch						

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-817	6	91.100	64.20	30.20	-	1.30	64.00	YELLOW:	91.0775	91.3275	91.5775	91.8275	92.0775
		3.587	2.528	1.189		0.051	0.047		2.520	3.58573	3.59557	3.60541	3.61526
PISTON RING #		Total Clearance				1.50		RED:	91.0675	91.3175	91.5675	91.8175	92.0675
		mm		inch		0.059		3.58533	3.59518	3.60502	3.61486	3.62470	
SWM31078		-0.03		-0.00118		3.00	22.00	BLUE:	91.0625	91.3125	91.5625	91.8125	92.0625
						0.118	0.866	3.58514	3.59498	3.60482	3.61467	3.62451	
				Cir Clip				GREEN:	91.0725	91.3225	91.5725	91.8225	92.0725
				NONE		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
								0.591 inch					
PAGE #		33		217				91.100 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-820	8	90.200	56.20	30.86	-	3.86	62.00	YELLOW:	90.1905	90.4405	90.6905	90.9405	91.1905
		3.551	2.213	1.215		0.152	0.059		2.441	3.55081	3.56065	3.57049	3.58033
PISTON RING #		Total Clearance				1.50		WHITE:	90.1825	90.4325	90.6825	90.9325	91.1825
		mm		inch		0.059		3.55049	3.56033	3.57018	3.58002	3.58986	
SWF30006		-0.04		-0.00157		3.00	22.00	BLUE:	90.1695	90.4195	90.6695	90.9195	91.1695
						0.118	0.866	3.54998	3.55982	3.56967	3.57951	3.58935	
				Cir Clip				GREEN:	90.1775	90.4275	90.6775	90.9275	91.1775
				NONE		SURFACE TREATMENT		REMARKS:					
				J05		Moly Skirt		Measure for CYL Clearance: 11.00 mm from Bottom of Skirt.					
								0.433 inch					
PAGE #		73		75				90.180 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-821	8	99.310	86.40	43.80		1.98	76.00	YELLOW:	99.3005	99.5505	99.8005	100.0505	100.3005
		3.910	3.402	1.724		0.078	0.078		2.992	3.90947	3.91931	3.92915	3.93900
PISTON RING #		Total Clearance				1.98		WHITE:	99.2925	99.5425	99.7925	100.0425	100.2925
		mm		inch		0.078		3.90915	3.91900	3.92884	3.93868	3.94852	
SWC10019		-0.04		-0.00157		4.76	22.00	BLUE:	99.2795	99.5295	99.7795	100.0295	100.2795
						0.187	0.866	3.90864	3.91848	3.92833	3.93817	3.94801	
				Cir Clip				GREEN:	99.2875	99.5375	99.7875	100.0375	100.2875
				NONE		SURFACE TREATMENT		REMARKS:					
				J05		NONE		Measure for CYL Clearance: 14.00 mm from Bottom of Skirt.					
								0.551 inch					
PAGE #		45						99.290 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-822	4	84.860	47.10	37.10	+	4.70	63.30	YELLOW:	84.8205	85.0705	85.3205	85.5705	85.8205
		3.341	1.854	1.461		0.185	0.059		2.492	3.33939	3.34923	3.35907	3.36892
PISTON RING #		Total Clearance				1.50		WHITE:	84.8125	85.0625	85.3125	85.5625	85.8125
		mm		inch		0.059		3.33907	3.34892	3.35876	3.36860	3.37844	
SWF30005		-0.04		-0.00157		3.00	20.63	BLUE:	84.7995	85.0495	85.2995	85.5495	85.7995
						0.118	0.812	3.33856	3.34841	3.35825	3.36809	3.37793	
				Cir Clip				GREEN:	84.8075	85.0575	85.3075	85.5575	85.8075
				NONE		SURFACE TREATMENT		REMARKS:					
				J05		NONE		Measure for CYL Clearance: 7.00 mm from Bottom of Skirt.					
								0.276 inch					
PAGE #		59						84.810 Tolerance is +/- (mm inch) : 0.0045 0.00018					

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-823	8	101.600	60.60	33.80	1.10	1.50	70.00	101.560 Tolerance is +/- (mm inch) : 0.0045 0.00018					
		4.000	2.386	1.331	0.043	0.059	2.756	YELLOW:	101.5705	101.8205	102.0705	102.3205	102.5705
PISTON RING #		Total Clearance				1.50		WHITE:	101.5625	101.8125	102.0625	102.3125	102.5625
SWI10197		mm	inch			0.059		BLUE:	3.99852	4.00837	4.01821	4.02805	4.03789
		-0.04	-0.00157			3.00	24.00	GREEN:	101.5495	101.7995	102.0495	102.2995	102.5495
						0.118	0.945		3.99801	4.00785	4.01770	4.02754	4.03738
		Cir Clip						REMARKS:		21.00 mm	from Bottom of Skirt.		
		NONE		SURFACE TREATMENT				Measure for CYL		0.827 inch			
		J05		NONE		Moly Skirt		Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		141											
11-825	6	89.000	66.30	38.50		1.50	70.00	88.960 Tolerance is +/- (mm inch) : 0.0045 0.00018					
		3.504	2.610	1.516		0.059	2.756	YELLOW:	88.9705	89.2205	89.4705	89.7205	89.9705
PISTON RING #		Total Clearance				1.50		WHITE:	88.9625	89.2125	89.4625	89.7125	89.9625
SWI10155 SWT20075		mm	inch			0.059		BLUE:	3.50246	3.51230	3.52215	3.53199	3.54183
		-0.04	-0.00157			4.00	23.17	GREEN:	88.9495	89.1995	89.4495	89.6995	89.9495
						0.157	0.912		3.50195	3.51179	3.52163	3.53148	3.54132
		Cir Clip						REMARKS:		8.00 mm	from Bottom of Skirt.		
		NONE		SURFACE TREATMENT				Measure for CYL		0.315 inch			
		J05		NONE		NONE		Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		67											
11-826	6	96.800	59.10	31.80	3.60	1.50	63.30	96.830 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		3.811	2.327	1.252	0.142	0.059	2.492	YELLOW:	96.8075	97.0575	97.3075	97.5575	97.8075
PISTON RING #		Total Clearance				1.50		RED:	96.7975	97.0475	97.2975	97.5475	97.7975
SWF30004		mm	inch			0.059		BLUE:	3.81093	3.82077	3.83061	3.84045	3.85030
		-0.04	-0.00157			3.00	23.00	GREEN:	96.7925	97.0425	97.2925	97.5425	97.7925
						0.118	0.906		3.81073	3.82057	3.83041	3.84026	3.85010
		Cir Clip						REMARKS:		11.50 mm	from Bottom of Skirt.		
		NONE		SURFACE TREATMENT				Measure for CYL		0.453 inch			
		C17		NONE		Moly Skirt		Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		73											
11-827	6	101.600	66.00	39.40	2.60	1.50	69.70	101.580 Tolerance is +/- (mm inch) : 0.0045 0.00018					
		4.000	2.598	1.551	0.102	0.059	2.744	YELLOW:	101.5905	101.8405	102.0905	102.3405	102.5905
PISTON RING #		Total Clearance				1.50		WHITE:	101.5825	101.8325	102.0825	102.3325	102.5825
SWI10196		mm	inch			0.059		BLUE:	3.99931	4.00915	4.01900	4.02884	4.03868
		-0.04	-0.00157			3.00	23.56	GREEN:	101.5695	101.8195	102.0695	102.3195	102.5695
						0.118	0.928		3.99880	4.00864	4.01848	4.02833	4.03817
		Cir Clip						REMARKS:		12.00 mm	from Bottom of Skirt.		
		NONE		SURFACE TREATMENT				Measure for CYL		0.472 inch			
		J05		NONE		NONE		Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		121 123											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-828	8	101.600	66.00	39.40	2.60	1.50	69.70	YELLOW:	101.5905	101.8405	102.0905	102.3405	102.5905
		4.000	2.598	1.551	0.102	0.059	2.744		3.99963	4.00947	4.01931	4.02915	4.03900
		Total Clearance							1.50	101.5825	101.8325	102.0825	102.3325
PISTON RING #		mm		inch		0.059	3.99931	4.00915	4.01900	4.02884	4.03868		
SWI10197		-0.04	-0.00157			3.00	101.5695	101.8195	102.0695	102.3195	102.5695		
						0.118	3.99880	4.00864	4.01848	4.02833	4.03817		
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 12.00 mm from Bottom of Skirt.					
		J05		NONE				0.472 inch					
PAGE # 141								101.580 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-829	8	96.000	64.80	33.70	1.70	1.50	72.00	YELLOW:	95.9775	96.2275	96.4775	96.7275	96.9775
		3.780	2.551	1.327	0.067	0.059	2.835		3.77864	3.78848	3.79833	3.80817	3.81801
		Total Clearance							1.50	95.9675	96.2175	96.4675	96.7175
PISTON RING #		mm		inch		0.059	3.77825	3.78809	3.79793	3.80778	3.81762		
SWG10005		-0.04	-0.00157			3.00	95.9625	96.2125	96.4625	96.7125	96.9625		
						0.118	3.77805	3.78789	3.79774	3.80758	3.81742		
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 16.00 mm from Bottom of Skirt.					
		C17		Moly Skirt				CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 133 181								96.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-830	8	103.000	91.80	53.50	3.70	3.00	70.00	YELLOW:	102.9585	103.2085	103.4585	103.7085	103.9585
		4.055	3.614	2.106	0.146	0.118	2.756		4.05348	4.06333	4.07317	4.08301	4.09285
		Total Clearance							2.00	102.9485	103.1985	103.4485	103.6985
PISTON RING #		mm		inch		0.079	4.05309	4.06293	4.07278	4.08262	4.09246		
SDG10024		-0.1016	-0.00400			4.00	102.9435	103.1935	103.4435	103.6935	103.9435		
						0.157	4.05289	4.06274	4.07258	4.08242	4.09226		
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		Anodized Head		Measure for CYL Clearance: 17.00 mm from Bottom of Skirt.					
		C17		NONE				CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 145 147								102.981 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-832	6	86.000	52.20	30.00	0.70	1.20	54.00	RED:	85.9600	86.2100	86.4600	86.7100	86.9600
		3.386	2.055	1.181	0.028	0.047	2.126		3.38425	3.39409	3.40394	3.41378	3.42362
		Total Clearance							1.20	85.9600	86.2100	86.4600	86.7100
PISTON RING #		mm		inch		0.047	3.38425	3.39409	3.40394	3.41378	3.42362		
SWH30432		-0.03	-0.00118			2.80	85.9800	86.2300	86.4800	86.7300	86.9800		
						0.110	3.38504	3.39488	3.40472	3.41457	3.42441		
		Cir Clip		NONE		SURFACE TREATMENT		REMARKS:					
		NONE		NONE		NONE		Measure for CYL Clearance: 7.00 mm from Bottom of Skirt.					
		T03		Moly Skirt				CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 165								85.970 Tolerance is +/- (mm inch) : 0.01 0.00039					

PISTON BUYER'S GUIDE

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EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch	
11-833	4	87.000	53.60	29.60	-	2.60	1.20	86.970					0.01	0.00039
		3.425	2.110	1.165		0.102	0.047							
PISTON RING #		Total Clearance				1.20		RED:	86.9600	87.2100	87.4600	87.7100	87.9600	
SWH30466		mm	inch			0.047			3.42362	3.43346	3.44331	3.45315	3.46299	
		-0.03	-0.00118			2.00	21.97	GREEN:	86.9800	87.2300	87.4800	87.7300	87.9800	
						0.079	0.865		3.42441	3.43425	3.44409	3.45394	3.46378	
				Cir Clip		SURFACE TREATMENT		REMARKS:						
						NONE		Measure for CYL 11.00 mm from Bottom of Skirt.						
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE # 163								86.970 Tolerance is +/- (mm inch) : 0.01 0.00039						
11-834	4	87.000	56.60	29.50	+	3.10	1.20	86.970					0.01	0.00039
		3.425	2.228	1.161		0.122	0.047							
PISTON RING #		Total Clearance				1.20		RED:	86.9600	87.2100	87.4600	87.7100	87.9600	
SWH30466		mm	inch			0.047			3.42362	3.43346	3.44331	3.45315	3.46299	
		-0.03	-0.00118			2.00	21.97	GREEN:	86.9800	87.2300	87.4800	87.7300	87.9800	
						0.079	0.865		3.42441	3.43425	3.44409	3.45394	3.46378	
				Cir Clip		SURFACE TREATMENT		REMARKS:						
						NONE		Measure for CYL 11.00 mm from Bottom of Skirt.						
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE # 163								86.970 Tolerance is +/- (mm inch) : 0.01 0.00039						
11-835	6	89.000	51.50	30.00	-	2.40	1.20	88.970					0.01	0.00039
		3.504	2.028	1.181		0.094	0.047							
PISTON RING #		Total Clearance				1.20		RED:	88.9600	89.2100	89.4600	89.7100	89.9600	
SWH30438		mm	inch			0.047			3.50236	3.51220	3.52205	3.53189	3.54173	
		-0.03	-0.00118			2.80	21.97	GREEN:	88.9800	89.2300	89.4800	89.7300	89.9800	
						0.110	0.865		3.50315	3.51299	3.52283	3.53268	3.54252	
				Cir Clip		SURFACE TREATMENT		REMARKS:						
						NONE		Measure for CYL 7.00 mm from Bottom of Skirt.						
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE # 165								88.970 Tolerance is +/- (mm inch) : 0.01 0.00039						
11-836	6	89.000	51.50	30.00	-	1.20	1.20	88.970					0.01	0.00039
		3.504	2.028	1.181		0.047	0.047							
PISTON RING #		Total Clearance				1.20		RED:	88.9600	89.2100	89.4600	89.7100	89.9600	
SWH30438		mm	inch			0.047			3.50236	3.51220	3.52205	3.53189	3.54173	
		-0.03	-0.00118			2.80	21.97	GREEN:	88.9800	89.2300	89.4800	89.7300	89.9800	
						0.110	0.865		3.50315	3.51299	3.52283	3.53268	3.54252	
				Cir Clip		SURFACE TREATMENT		REMARKS:						
						NONE		Measure for CYL 7.00 mm from Bottom of Skirt.						
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.						
PAGE # 5 113 165								88.970 Tolerance is +/- (mm inch) : 0.01 0.00039						

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-837	4	75.500	53.70	30.70	0.20	1.50	47.50	YELLOW:	75.4775	75.7275	75.9775	76.2275	76.4775
		2.972	2.114	1.209	0.008	0.059	1.870		2.97156	2.98140	2.99124	3.00108	3.01093
PISTON RING #		Total Clearance				1.50		RED:	75.4675	75.7175	75.9675	76.2175	76.4675
SWG30017		mm	inch			0.059		2.97116	2.98100	2.99085	3.00069	3.01053	
		-0.03	-0.00118			3.00		BLUE:	75.4625	75.7125	75.9625	76.2125	76.4625
						0.118		2.97096	2.98081	2.99065	3.00049	3.01033	
								GREEN:	75.4725	75.7225	75.9725	76.2225	76.4725
								2.97136	2.98120	2.99104	3.00089	3.01073	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-838	4	82.000	57.80	31.00	0.30	1.20	59.00	YELLOW:	81.9775	82.2275	82.4775	82.7275	82.9775
		3.228	2.276	1.220	0.012	0.047	2.323		3.22746	3.23730	3.24715	3.25699	3.26683
PISTON RING #		Total Clearance				1.20		RED:	81.9675	82.2175	82.4675	82.7175	82.9675
SWG30028		mm	inch			0.047		3.22707	3.23691	3.24675	3.25659	3.26644	
		-0.03	-0.00118			2.50		BLUE:	81.9625	82.2125	82.4625	82.7125	82.9625
						0.098		3.22687	3.23671	3.24656	3.25640	3.26624	
								GREEN:	81.9725	82.2225	82.4725	82.7225	82.9725
								3.22726	3.23711	3.24695	3.25679	3.26663	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-840	4	86.000	53.70	27.60	1.20	1.20	61.00	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
		3.386	2.114	1.087	0.047	0.047	2.402		3.38494	3.39478	3.40463	3.41447	3.42431
PISTON RING #		Total Clearance				1.50		RED:	85.9675	86.2175	86.4675	86.7175	86.9675
SW110206		mm	inch			0.059		3.38455	3.39439	3.40423	3.41407	3.42392	
		-0.03	-0.00118			2.50		BLUE:	85.9625	86.2125	86.4625	86.7125	86.9625
						0.098		3.38435	3.39419	3.40404	3.41388	3.42372	
								GREEN:	85.9725	86.2225	86.4725	86.7225	86.9725
								3.38474	3.39459	3.40443	3.41427	3.42411	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 15.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.591 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											
11-841	4	81.000	50.30	30.20	2.60	1.20	58.00	YELLOW:	80.9775	81.2275	81.4775	81.7275	81.9775
		3.189	1.980	1.189	0.102	0.047	2.283		3.18809	3.19793	3.20778	3.21762	3.22746
PISTON RING #		Total Clearance				1.20		RED:	80.9675	81.2175	81.4675	81.7175	81.9675
SWG30040		mm	inch			0.047		3.18770	3.19754	3.20738	3.21722	3.22707	
		-0.03	-0.00118			2.50		BLUE:	80.9625	81.2125	81.4625	81.7125	81.9625
						0.098		3.18750	3.19734	3.20719	3.21703	3.22687	
								GREEN:	80.9725	81.2225	81.4725	81.7225	81.9725
								3.18789	3.19774	3.20758	3.21742	3.22726	
		Cir Clip						REMARKS:					
		NONE						Measure for CYL 10.00 mm from Bottom of Skirt.					
		C17						Clearance: 0.394 inch					
		SURFACE TREATMENT											
		NONE											
		NONE											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-842	4	PAGE # 201		83.000	64.00	30.70	+	3.00	1.50	57.00	83.000 Tolerance is +/- (mm inch) : 0.0025 0.00010		
				3.268	2.520	1.209	+	0.118	0.059	2.244	YELLOW:	82.9775 83.2275 83.4775 83.7275 83.9775 3.26683 3.27667 3.28652 3.29636 3.30620	
		PISTON RING #		Total Clearance						1.50			
				SWT20066	mm	inch			0.059				
				-0.03	-0.00118				3.00	20.00	RED:	82.9675 83.2175 83.4675 83.7175 83.9675 3.26644 3.27628 3.28612 3.29596 3.30581	
									0.118	0.787	BLUE:	82.9625 83.2125 83.4625 83.7125 83.9625 3.26624 3.27608 3.28593 3.29577 3.30561	
											GREEN:	82.9725 83.2225 83.4725 83.7225 83.9725 3.26663 3.27648 3.28632 3.29616 3.30600	
											REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch		
											CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
11-843	4	PAGE # 203		87.500	51.00	28.50	-	4.00	1.20	61.50	87.470 Tolerance is +/- (mm inch) : 0.0045 0.00018		
				3.445	2.008	1.122	-	0.157	0.047	2.421	YELLOW:	87.4805 87.7305 87.9805 88.2305 88.4805 3.44411 3.45396 3.46380 3.47364 3.48348	
		PISTON RING #		Total Clearance						1.20			
				SWT20090	mm	inch			0.047				
				-0.03	-0.00118				2.50	21.00	WHITE:	87.4725 87.7225 87.9725 88.2225 88.4725 3.44380 3.45364 3.46348 3.47333 3.48317	
									0.098	0.827	BLUE:	87.4595 87.7095 87.9595 88.2095 88.4595 3.44329 3.45313 3.46297 3.47281 3.48266	
											GREEN:	87.4675 87.7175 87.9675 88.2175 88.4675 3.44360 3.45344 3.46329 3.47313 3.48297	
											REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch		
											CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
11-844	4	PAGE # 203		87.500	51.00	28.50	-	3.30	1.20	61.50	87.480 Tolerance is +/- (mm inch) : 0.0045 0.00018		
				3.445	2.008	1.122	-	0.130	0.047	2.421	YELLOW:	87.4905 87.7405 87.9905 88.2405 88.4905 3.44451 3.45435 3.46419 3.47404 3.48388	
		PISTON RING #		Total Clearance						1.20			
				SWT20090	mm	inch			0.047				
				-0.03	-0.00118				2.50	21.00	WHITE:	87.4825 87.7325 87.9825 88.2325 88.4825 3.44419 3.45404 3.46388 3.47372 3.48356	
									0.098	0.827	BLUE:	87.4695 87.7195 87.9695 88.2195 88.4695 3.44368 3.45352 3.46337 3.47321 3.48305	
											GREEN:	87.4775 87.7275 87.9775 88.2275 88.4775 3.44400 3.45384 3.46368 3.47352 3.48337	
											REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch		
											CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
11-847	6	PAGE # 217		93.000	64.20	30.20	-	4.70	1.50	64.00	93.000 Tolerance is +/- (mm inch) : 0.0025 0.00010		
				3.661	2.528	1.189	-	0.185	0.059	2.520	YELLOW:	92.9775 93.2275 93.4775 93.7275 93.9775 3.66053 3.67037 3.68022 3.69006 3.69990	
		PISTON RING #		Total Clearance						1.50			
				SWM31121	mm	inch			0.059				
				-0.03	-0.00118				3.00	22.00	RED:	92.9675 93.2175 93.4675 93.7175 93.9675 3.66014 3.66998 3.67982 3.68967 3.69951	
									0.118	0.866	BLUE:	92.9625 93.2125 93.4625 93.7125 93.9625 3.65994 3.66978 3.67963 3.68947 3.69931	
											GREEN:	92.9725 93.2225 93.4725 93.7225 93.9725 3.66033 3.67018 3.68002 3.68986 3.69970	
											REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch		
											CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH	mm		mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm	inch		inch	inch	inch	inch	
11-848	6	95.000	56.80	29.10	+	0.20	1.20	58.00	94.970	Tolerance is + / - (mm inch) :	0.01	0.00039		
		3.740	2.236	1.146		0.008	0.047							2.283
PISTON RING #		Total Clearance												
SWM31148		mm	inch											
		-0.03	-0.00118											
				Cir Clip										
						SURFACE TREATMENT								
						Anodized Head								
				T03		Moly Skirt								
PAGE #		219												
REMARKS:		Measure for CYL		12.00 mm		from Bottom of								
		Clearance:		0.472 inch		Skirt.								
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.												
11-849	4	84.000	52.80	31.20	+	3.20	1.20	53.00	83.970	Tolerance is + / - (mm inch) :	0.01	0.00039		
		3.307	2.079	1.228		0.126	0.047							2.087
PISTON RING #		Total Clearance												
SWN30154		mm	inch											
		-0.03	-0.00118											
				Cir Clip										
						SURFACE TREATMENT								
						Anodized Head								
				J05		Moly Skirt								
PAGE #		223												
REMARKS:		Measure for CYL		5.50 mm		from Bottom of								
		Clearance:		0.217 inch		Skirt.								
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.												
11-850	4	86.000	60.80	40.80	-	5.80	1.20	56.00	86.000	Tolerance is + / - (mm inch) :	0.0025	0.00010	YELLOW:	
		3.386	2.394	1.606		0.228	0.047							2.205
PISTON RING #		Total Clearance												
SWT10186		mm	inch											
		-0.03	-0.00118											
				Cir Clip										
						SURFACE TREATMENT								
						NONE								
				C17		Moly Skirt								
PAGE #		257												
REMARKS:		Measure for CYL		10.00 mm		from Bottom of								
		Clearance:		0.394 inch		Skirt.								
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.												
11-851	6	86.000	59.00	34.00	-	2.30	1.50	66.00	85.970	Tolerance is + / - (mm inch) :	0.01	0.00039	RED:	
		3.386	2.323	1.339		0.091	0.059							2.598
PISTON RING #		Total Clearance												
SWT10134		mm	inch											
		-0.03	-0.00118											
				Cir Clip										
						SURFACE TREATMENT								
						NONE								
				T03		Moly Skirt								
PAGE #		193 263												
REMARKS:		Measure for CYL		10.00 mm		from Bottom of								
		Clearance:		0.394 inch		Skirt.								
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.												

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION							
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)		
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm		
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch		
11-852	4	89.000	54.80	32.00	+	4.00	1.20	57.00	YELLOW:	88.9905	89.2405	89.4905	89.7405	89.9905	
		3.504	2.157	1.260	-	0.157	0.047	2.244		3.50356	3.51341	3.52325	3.53309	3.54293	
PISTON RING #		Total Clearance													
SWN30143		mm	inch												
		-0.03	-0.00118												
				Cir Clip											
						SURFACE TREATMENT									
				J05		Anodized Head									
				J05		Moly Skirt									
PAGE #		227													
88.980		Tolerance is +/- (mm inch) :		0.0045		0.00018									
REMARKS:		Measure for CYL		19.00 mm		from Bottom of									
		Clearance:		0.748 inch		Skirt.									
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine		"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-853	8	90.200	52.00	30.70		1.50	62.00	YELLOW:	90.1905	90.4405	90.6905	90.9405	91.1905		
		3.551	2.047	1.209		0.059	2.441		3.55081	3.56065	3.57049	3.58033	3.59018		
PISTON RING #		Total Clearance													
SWF30006		mm	inch												
		-0.04	-0.00157												
				Cir Clip											
						SURFACE TREATMENT									
				J05		Anodized Head									
				J05		Moly Skirt									
PAGE #		83													
90.180		Tolerance is +/- (mm inch) :		0.0045		0.00018									
REMARKS:		Measure for CYL		13.00 mm		from Bottom of									
		Clearance:		0.512 inch		Skirt.									
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine		"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-854	8	87.500	51.00	28.50		1.20	61.50	YELLOW:	87.4905	87.7405	87.9905	88.2405	88.4905		
		3.445	2.008	1.122		0.079	2.421		3.44451	3.45435	3.46419	3.47404	3.48388		
PISTON RING #		Total Clearance													
SWT20090		mm	inch												
		-0.03	-0.00118												
				Cir Clip											
				NONE		SURFACE TREATMENT									
				J05		Anodized Head									
				J05		Moly Skirt									
PAGE #		201													
87.480		Tolerance is +/- (mm inch) :		0.0045		0.00018									
REMARKS:		Measure for CYL		10.00 mm		from Bottom of									
		Clearance:		0.394 inch		Skirt.									
CAUTION!!:		Bore diameter is measured before skirt Surface Treatment. To Determine		"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-855	6	99.300	86.40	43.80		1.98	76.00	YELLOW:	99.3005	99.5505	99.8005	100.0505	100.3005		
		3.909	3.402	1.724		0.078	2.992		3.90947	3.91931	3.92915	3.93900	3.94884		
PISTON RING #		Total Clearance													
SWC10018		mm	inch												
		-0.04	-0.00157												
				Cir Clip											
				NONE		SURFACE TREATMENT									
				J05		NONE									
PAGE #		41													
99.290		Tolerance is +/- (mm inch) :		0.0045		0.00018									
REMARKS:		Measure for CYL		14.00 mm		from Bottom of									
		Clearance:		0.551 inch		Skirt.									

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
						OIL1	DIA.		inch	inch	inch	inch	inch	
mm	inch	mm	inch	mm	inch	OIL2	mm	mm	mm	mm	mm			
inch	inch	inch	inch	inch	inch	mm	mm	inch	inch	inch	inch	inch		
PAGE #		51	85				102.000 Tolerance is +/- (mm inch) : 0.0025 0.00010							
11-856	6	102.000	105.20	71.40	-	12.50	3.00K	YELLOW:	101.9775	102.2275	102.4775	102.7275	102.9775	
		4.016	4.142	2.811		0.492	0.118K		83.00	4.01486	4.02470	4.03455	4.04439	4.05423
		PISTON RING #		Total Clearance			2.35			RED:	101.9675	102.2175	102.4675	102.7175
SDC10022		mm	inch		0.093		BLUE:	4.01447	4.02431	4.03415	4.04400	4.05384		
		-0.1016	-0.00400		4.00	40.00	GREEN:	101.9625	102.2125	102.4625	102.7125	102.9625		
					0.157	1.575		4.01427	4.02411	4.03396	4.04380	4.05364		
								4.01467	4.02451	4.03435	4.04419	4.05404		
		Cir Clip					REMARKS:							
		SURFACE TREATMENT					Measure for CYL 20.00 mm from Bottom of Skirt.							
		NONE					Clearance: 0.787 inch							
		C17												
PAGE #		85					95.000 Tolerance is +/- (mm inch) : 0.0025 0.00010							
11-857	8	95.000	85.80	52.04	-	16.40	2.25	YELLOW:	94.9775	95.2275	95.4775	95.7275	95.9775	
		3.740	3.378	2.049		0.646	0.089		65.00	3.73927	3.74911	3.75896	3.76880	3.77864
		PISTON RING #		Total Clearance			2.00			RED:	94.9675	95.2175	95.4675	95.7175
SDF30002		mm	inch		0.079		BLUE:	3.73888	3.74872	3.75856	3.76841	3.77825		
		-0.1016	-0.00400		3.50	34.00	GREEN:	94.9625	95.2125	95.4625	95.7125	95.9625		
					0.138	1.339		3.73868	3.74852	3.75837	3.76821	3.77805		
								94.9725	95.2225	95.4725	95.7225	95.9725		
		Cir Clip					REMARKS:							
		SURFACE TREATMENT					Measure for CYL 15.00 mm from Bottom of Skirt.							
		NONE					Clearance: 0.591 inch							
		C17					Moly Skirt							
PAGE #		173					95.500 Tolerance is +/- (mm inch) : 0.0025 0.00010							
11-859	6	95.500	52.60	29.60		1.20	1.20	YELLOW:	95.4775	95.7275	95.9775	96.2275	96.4775	
		3.760	2.071	1.165		0.047	58.00		3.75896	3.76880	3.77864	3.78848	3.79833	
		PISTON RING #		Total Clearance			1.20			RED:	95.4675	95.7175	95.9675	96.2175
SWN30131		mm	inch		0.047		BLUE:	3.75856	3.76841	3.77825	3.78809	3.79793		
		-0.03	-0.00118		2.50	22.00	GREEN:	95.4625	95.7125	95.9625	96.2125	96.4625		
					0.098	0.866		3.75837	3.76821	3.77805	3.78789	3.79774		
								95.4725	95.7225	95.9725	96.2225	96.4725		
		Cir Clip					REMARKS:							
		SURFACE TREATMENT					Measure for CYL 10.00 mm from Bottom of Skirt.							
		Anodized Head					Clearance: 0.394 inch							
		C17					Moly Skirt							
PAGE #		173		231					95.440 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-860	6	95.500	53.90	29.50	+	0.80	1.20	YELLOW:	95.4450	95.6950	95.9450	96.1950	96.4450	
		3.760	2.122	1.161		0.047	58.00		3.75768	3.76752	3.77736	3.78720	3.79705	
		PISTON RING #		Total Clearance			1.20			WHITE:	95.4425	95.6925	95.9425	96.1925
SWN30131		mm	inch		0.047		BLUE:	3.75758	3.76742	3.77726	3.78711	3.79695		
		-0.03	-0.00118		2.50	22.00	GREEN:	95.4350	95.6850	95.9350	96.1850	96.4350		
					0.098	0.866		3.75728	3.76713	3.77697	3.78681	3.79665		
								95.4375	95.6875	95.9375	96.1875	96.4375		
		Cir Clip					REMARKS:							
		SURFACE TREATMENT					Measure for CYL 6.00 mm from Bottom of Skirt.							
		Anodized Head					Clearance: 0.236 inch							
		J05					Moly Skirt							
							CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm			
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch			
11-861	8	PAGE # 47		99.500	59.00	31.00	+	4.00	1.50	71.00	99.530 Tolerance is +/- (mm inch) : 0.0045 0.00018					
				3.917	2.323	1.220			0.059	2.795	YELLOW:	99.5405	99.7905	100.0405	100.2905	100.5405
												3.91892	3.92876	3.93860	3.94844	3.95829
PISTON RING #		Total Clearance						1.50			WHITE:					
SWC10016		mm	inch					0.059			99.5325	99.7825	100.0325	100.2825	100.5325	
		-0.04	-0.00157					3.00	24.00	BLUE:	3.91860	3.92844	3.93829	3.94813	3.95797	
								0.118	0.945	GREEN:	99.5195	99.7695	100.0195	100.2695	100.5195	
		Cir Clip									3.91809	3.92793	3.93778	3.94762	3.95746	
		NONE		SURFACE TREATMENT		REMARKS:										
		J05		Anodized Head		Measure for CYL 5.00 mm from Bottom of Skirt.										
				Moly Skirt		Clearance: 0.197 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-862	6	PAGE # 169 187		86.700	54.00	30.40	-	0.80	1.20	60.00	86.680 Tolerance is +/- (mm inch) : 0.0045 0.00018					
				3.413	2.126	1.197			0.047	2.362	YELLOW:	86.6905	86.9405	87.1905	87.4405	87.6905
												3.41301	3.42285	3.43270	3.44254	3.45238
PISTON RING #		Total Clearance						1.20			WHITE:					
SWG30037		mm	inch					0.047			86.6825	86.9325	87.1825	87.4325	87.6825	
		-0.03	-0.00118					2.50	21.01	BLUE:	3.41270	3.42254	3.43238	3.44222	3.45207	
								0.098	0.827	GREEN:	86.6695	86.9195	87.1695	87.4195	87.6695	
		Cir Clip									3.41219	3.42203	3.43187	3.44171	3.45156	
		NONE		SURFACE TREATMENT		REMARKS:										
		J05		NONE		Measure for CYL 6.00 mm from Bottom of Skirt.										
						Clearance: 0.236 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-863	6	PAGE # 35		93.000	53.60	31.70	-	2.30	1.50	67.50	92.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
				3.661	2.110	1.248			0.059	2.657						
PISTON RING #		Total Clearance						1.50			RED:					
SWC10002		mm	inch					0.059			92.9600	93.2100	93.4600	93.7100	93.9600	
		-0.04	-0.00157					3.00	22.89		3.65984	3.66969	3.67953	3.68937	3.69921	
								0.118	0.901							
		Cir Clip									GREEN:	92.9800	93.2300	93.4800	93.7300	93.9800
		NONE		SURFACE TREATMENT		REMARKS:										
		T03		NONE		Measure for CYL 7.00 mm from Bottom of Skirt.										
						Clearance: 0.276 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-864	6	PAGE # 41 271		96.000	54.10	32.30	-	2.30	1.20	71.50	95.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
				3.780	2.130	1.272			0.047	2.815						
PISTON RING #		Total Clearance						1.50			RED:					
SWC10015		mm	inch					0.059			95.9600	96.2100	96.4600	96.7100	96.9600	
		-0.04	-0.00157					3.00	22.89		3.77795	3.78780	3.79764	3.80748	3.81732	
								0.118	0.901							
		Cir Clip									GREEN:	95.9800	96.2300	96.4800	96.7300	96.9800
		NONE		SURFACE TREATMENT		REMARKS:										
		T03		NONE		Measure for CYL 6.50 mm from Bottom of Skirt.										
						Clearance: 0.256 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-865	4	84.800	54.20	29.40	+	0.80	1.50	84.780	Tolerance is +/- (mm inch) : 0.01 0.00039				
		3.339	2.134	1.157		0.031	0.059		2.323				
PISTON RING #		Total Clearance						RED:	84.7700	85.0200	85.2700	85.5200	85.7700
		mm	inch						3.33740	3.34724	3.35709	3.36693	3.37677
SWF30005		-0.03	-0.00118					GREEN:	84.7900	85.0400	85.2900	85.5400	85.7900
									3.33819	3.34803	3.35787	3.36772	3.37756
				Cir Clip		NONE		REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL 11.00 mm from Bottom of Skirt.					
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		59											
11-866	4	86.000	54.00	29.50	+	2.50	1.20	85.970	Tolerance is +/- (mm inch) : 0.003 0.00012				
		3.386	2.126	1.161		0.098	0.047		2.055				
PISTON RING #		Total Clearance						YELLOW:	85.9630	86.2130	86.4630	86.7130	86.9630
		mm	inch						3.38437	3.39421	3.40406	3.41390	3.42374
SWH30454		-0.03	-0.00118					RED:	85.9765	86.2265	86.4765	86.7265	86.9765
									3.38490	3.39474	3.40459	3.41443	3.42427
				Cir Clip		NONE		REMARKS:					
				T01		SURFACE TREATMENT		Measure for CYL 5.00 mm from Bottom of Skirt.					
				T01		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		3 163											
11-867	6	92.000	54.50	31.20	-	0.60	1.20	97.170	Tolerance is +/- (mm inch) : 0.01 0.00039				
		3.622	2.146	1.228		0.024	0.047		2.205				
PISTON RING #		Total Clearance						RED:	97.1600	97.4100	97.6600	97.9100	98.1600
		mm	inch						3.82520	3.83504	3.84488	3.85472	3.86457
SWT10228		-0.03	-0.00118					GREEN:	97.1800	97.4300	97.6800	97.9300	98.1800
									3.82598	3.83583	3.84567	3.85551	3.86535
				Cir Clip		NONE		REMARKS:					
				T03		SURFACE TREATMENT		Measure for CYL 9.40 mm from Bottom of Skirt.					
				T03		Anodized Head		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		193 263											
11-868	6	89.000	52.60	30.00	+	1.00	1.20	88.970	Tolerance is +/- (mm inch) : 0.01 0.00039				
		3.504	2.071	1.181		0.039	0.047		2.382				
PISTON RING #		Total Clearance						RED:	88.9600	89.2100	89.4600	89.7100	89.9600
		mm	inch						3.50236	3.51220	3.52205	3.53189	3.54173
SWF30021		-0.03	-0.00118					GREEN:	88.9800	89.2300	89.4800	89.7300	89.9800
									3.50315	3.51299	3.52283	3.53268	3.54252
				Cir Clip		NONE		REMARKS:					
				T03		SURFACE TREATMENT		Measure for CYL 7.00 mm from Bottom of Skirt.					
				T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		205											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)	
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm	
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch	
11-869	4	80.000	53.70	29.10	+	4.70	1.20	79.970						
		3.150	2.114	1.146		0.185	0.047						51.50	2.028
PISTON RING #		Total Clearance						REMARKS:		Measure for CYL			12.50 mm	from Bottom of Skirt.
SWN30142		mm	inch					Anodized Head		Clearance:		0.492 inch		
		-0.03	-0.00118					T03		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
PAGE #		223												
11-870	6	94.000	52.50	31.30	+	2.10	1.20	93.970						
		3.701	2.067	1.232		0.083	0.047						56.00	2.205
PISTON RING #		Total Clearance						REMARKS:		Measure for CYL			5.50 mm	from Bottom of Skirt.
SDT10194		mm	inch					Anodized Head		Clearance:		0.217 inch		
		-0.03	-0.00118					T03		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
PAGE #		193	263											
11-871	6	94.000	56.50	32.70	+	2.80	1.20	93.970						
		3.701	2.224	1.287		0.110	0.047						62.00	2.441
PISTON RING #		Total Clearance						REMARKS:		Measure for CYL			8.00 mm	from Bottom of Skirt.
SWT10195		mm	inch					Anodized Head		Clearance:		0.315 inch		
		-0.03	-0.00118					C17		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
PAGE #		263												
11-872	4	81.000	53.70	32.70	-	1.90	1.50	80.980						
		3.189	2.114	1.287		0.075	0.059						50.00	1.969
PISTON RING #		Total Clearance						REMARKS:		Measure for CYL			8.00 mm	from Bottom of Skirt.
SWE50744		mm	inch					Anodized Head		Clearance:		0.315 inch		
		-0.03	-0.00118					J05		Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.		
PAGE #		9	269											

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-873	8	99.500	58.70	30.70	+	4.00	1.50	YELLOW:	99.4805	99.7305	99.9805	100.2305	100.4805
		3.917	2.311	1.209		0.157	0.059		2.795	3.91656	3.92640	3.93624	3.94608
PISTON RING #		Total Clearance				1.50		WHITE:	99.4725	99.7225	99.9725	100.2225	100.4725
		mm	inch			0.059			3.91624	3.92608	3.93593	3.94577	3.95561
SWC10016		-0.03	-0.00118			3.00	24.00	BLUE:	99.4595	99.7095	99.9595	100.2095	100.4595
						0.118	0.945		3.91573	3.92557	3.93541	3.94526	3.95510
				Cir Clip				GREEN:	99.4675	99.7175	99.9675	100.2175	100.4675
				NONE		SURFACE TREATMENT		REMARKS:					
				J05		Anodized Head		Measure for CYL 6.00 mm from Bottom of Skirt.					
				J05		Moly Skirt		Clearance: 0.236 inch					
								CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 47								99.470 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-874	6	89.000	64.80	40.80	+	1.80	1.50	YELLOW:	88.9805	89.2305	89.4805	89.7305	89.9805
		3.504	2.551	1.606		0.071	0.059		2.264	3.50317	3.51301	3.52285	3.53270
PISTON RING #		Total Clearance				1.50		WHITE:	88.9725	89.2225	89.4725	89.7225	89.9725
		mm	inch			0.059			3.50285	3.51270	3.52254	3.53238	3.54222
SWF30016		-0.03	-0.00118			3.00	23.17	BLUE:	88.9595	89.2095	89.4595	89.7095	89.9595
						0.118	0.912		3.50234	3.51219	3.52203	3.53187	3.54171
				Cir Clip				GREEN:	88.9675	89.2175	89.4675	89.7175	89.9675
				NONE		SURFACE TREATMENT		REMARKS:					
				J05		NONE		Measure for CYL 11.00 mm from Bottom of Skirt.					
				J05		Moly Skirt		Clearance: 0.433 inch					
								CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 67								88.970 Tolerance is +/- (mm inch) : 0.0045 0.00018					
11-875	6	96.000	62.20	38.20	-	0.60	1.20	RED:	95.9600	96.2100	96.4600	96.7100	96.9600
		3.780	2.449	1.504		0.024	0.047		2.402	3.77795	3.78780	3.79764	3.80748
PISTON RING #		Total Clearance				1.50		GREEN:	95.9800	96.2300	96.4800	96.7300	96.9800
		mm	inch			0.059			3.77874	3.78858	3.79843	3.80827	3.81811
SWC10013		-0.03	-0.00118			3.00	24.00	REMARKS:					
						0.118	0.945	Measure for CYL 9.00 mm from Bottom of Skirt.					
				Cir Clip		SURFACE TREATMENT		Clearance: 0.354 inch					
				T03		Anodized Head		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
				T03		Moly Skirt		95.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
PAGE # 37													
11-876	4	80.000	53.70	29.20	-	4.80	1.20	YELLOW:	79.9730	80.2230	80.4730	80.7230	80.9730
		3.150	2.114	1.150		0.189	0.047		2.047	3.14854	3.15839	3.16823	3.17807
PISTON RING #		Total Clearance				1.20		RED:	79.9865	80.2365	80.4865	80.7365	80.9865
		mm	inch			0.047			3.14907	3.15892	3.16876	3.17860	3.18844
SWN30142		-0.03	-0.00118			2.50	18.99	BLUE:	79.9795	80.2295	80.4795	80.7295	80.9795
						0.098	0.748		3.14880	3.15864	3.16848	3.17833	3.18817
				Cir Clip				REMARKS:					
				T01		SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				T01		Anodized Ring Land		Clearance: 0.394 inch					
				T01		NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 223								79.980 Tolerance is +/- (mm inch) : 0.003 0.00012					

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-878	6	PAGE # 233						95.470 Tolerance is +/- (mm inch) : 0.003 0.00012					
		95.500 3.760	55.10 2.169	31.60 1.244	3.00 0.118	1.20 0.047	58.00 2.283	YELLOW:	95.4630 3.75839	95.7130 3.76823	95.9630 3.77807	96.2130 3.78791	96.4630 3.79776
		PISTON RING # SWN30131		Total Clearance mm inch					RED:	95.4765 3.75892	95.7265 3.76876	95.9765 3.77860	96.2265 3.78844
		-0.03 -0.00118				2.50 0.098	21.99 0.866	BLUE:	95.4695 3.75864	95.7195 3.76848	95.9695 3.77833	96.2195 3.78817	96.4695 3.79801
		Cir Clip		SURFACE TREATMENT		REMARKS:		Measure for CYL 6.00 mm from Bottom of Skirt. Clearance: 0.236 inch					
		T01		Anodized Head		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
		Moly Skirt											
11-879	8	PAGE # 175 233						97.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
		98.000 3.858	52.00 2.047	31.60 1.244	4.20 0.165	1.50 0.059	59.60 2.346	RED:	97.9600 3.85669	98.2100 3.86654	98.4600 3.87638	98.7100 3.88622	98.9600 3.89606
		PISTON RING # SWN30149		Total Clearance mm inch					GREEN:	97.9800 3.85748	98.2300 3.86732	98.4800 3.87717	98.7300 3.88701
		-0.03 -0.00118				2.50 0.098	22.00 0.866	REMARKS:		Measure for CYL 6.00 mm from Bottom of Skirt. Clearance: 0.236 inch			
		Cir Clip		SURFACE TREATMENT		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
		T03		Anodized Head									
		Moly Skirt											
11-880	4	PAGE # 261						95.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
		95.000 3.740	59.30 2.335	39.30 1.547	8.60 0.339	1.20 0.047	62.00 2.441	YELLOW:	94.9775 3.73927	95.2275 3.74911	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864
		PISTON RING # SDT10193		Total Clearance mm inch					RED:	94.9675 3.73888	95.2175 3.74872	95.4675 3.75856	95.7175 3.76841
		-0.03 -0.00118				2.22 0.087	22.00 0.866	BLUE:	94.9625 3.73868	95.2125 3.74852	95.4625 3.75837	95.7125 3.76821	95.9625 3.77805
		Cir Clip		SURFACE TREATMENT		REMARKS:		Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch					
		C17		Anodized Head		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
		Moly Skirt											
11-881	4	PAGE # 227 249						88.970 Tolerance is +/- (mm inch) : 0.01 0.00039					
		89.000 3.504	61.50 2.421	32.90 1.295	5.90 0.232	1.20 0.047	57.00 2.244	RED:	88.9600 3.50236	89.2100 3.51220	89.4600 3.52205	89.7100 3.53189	89.9600 3.54173
		PISTON RING # TBA		Total Clearance mm inch					GREEN:	88.9800 3.50315	89.2300 3.51299	89.4800 3.52283	89.7300 3.53268
		-0.03 -0.00118				2.50 0.098	19.99 0.787	REMARKS:		Measure for CYL 9.50 mm from Bottom of Skirt. Clearance: 0.374 inch			
		Cir Clip		SURFACE TREATMENT		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.							
		T01		Anodized Ring Land									
		Moly Skirt											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-882	4	86.000	55.80	30.00	+	3.80	1.20	86.000	86.2275	86.4775	86.7275	86.9775	
		3.386	2.197	1.181		0.150	0.047						2.067
PISTON RING #		Total Clearance						Tolerance is +/- (mm inch) : 0.0025 0.00010					
		mm	inch					REMARKS:					
TBA		-0.03	-0.00118					Measure for CYL 10.00 mm from Bottom of Skirt.					
								Clearance: 0.394 inch					
								CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		163						88.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-882		88.000	58.90	29.40	-	4.90	1.20	88.000	88.2275	88.4775	88.7275	88.9775	
		3.307	2.319	1.157		0.193	0.047						2.283
PISTON RING #		Total Clearance						REMARKS:					
		mm	inch					Measure for CYL 10.00 mm from Bottom of Skirt.					
SWS20178		-0.03	-0.00118					Clearance: 0.394 inch					
								CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		249						90.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-883		90.000	69.40	69.40	-	15.20	3.00	90.000	90.2275	90.4775	90.7275	90.9775	
		3.307	2.732	2.732		0.866	0.118						3.563
PISTON RING #		Total Clearance						REMARKS:					
		mm	inch					Measure for CYL 20.00 mm from Bottom of Skirt.					
SDI10183		TBA	TBA					Clearance: 0.787 inch					
								CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		147		149		151		100.000 Tolerance is +/- (mm inch) : 0.01 0.00039					
11-884		100.000	89.82	49.82	-	22.00	3.00	100.000	100.2275	100.4775	100.7275	100.9775	
		4.055	3.536	1.961		0.598	0.116						3.189
PISTON RING #		Total Clearance						REMARKS:					
		mm	inch					Measure for CYL 20.00 mm from Bottom of Skirt.					
SDI10183		TBA	TBA					Clearance: 0.787 inch					
								CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		51		87				102.000 Tolerance is +/- (mm inch) : 0.0025 0.00010					
11-885		102.000	103.20	69.40	-	22.00	3.00	102.000	102.2275	102.4775	102.7275	102.9775	
		4.213	4.063	2.732		0.866	0.118						3.563
PISTON RING #		Total Clearance						REMARKS:					
		mm	inch					Measure for CYL 20.00 mm from Bottom of Skirt.					
SDC10023		-0.12	-0.00472					Clearance: 0.787 inch					
								CAUTION!!! Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-886	8	98.200	78.90	52.15	15.95	2.50	75.00	YELLOW:	98.1775	98.4275	98.6775	98.9275	99.1775
		3.866	3.106	2.053	0.628	0.098	2.953		3.86526	3.87510	3.88494	3.89478	3.90463
PISTON RING #		Total Clearance				2.00		RED:	98.1675	98.4175	98.6675	98.9175	99.1675
		mm	inch			0.079		BLUE:	3.86486	3.87470	3.88455	3.89439	3.90423
SDF30022		-0.06	-0.00236			3.00	38.50	GREEN:	98.1625	98.4125	98.6625	98.9125	99.1625
						0.118	1.516		3.86467	3.87451	3.88435	3.89419	3.90404
				Cir Clip				REMARKS:	98.1725	98.4225	98.6725	98.9225	99.1725
								Measure for CYL	3.86506	3.87490	3.88474	3.89459	3.90443
				NONE				Clearance:	Tolerance is +/- (mm inch) : 0.0025 0.00010				
				C17				15.00 mm	from Bottom of Skirt.				
								0.591 inch	CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE # 85													
11-887	6	92.000	50.60	30.60	5.50	1.20	60.00	YELLOW:	91.9705	92.2205	92.4705	92.7205	92.9705
		3.622	1.992	1.205	0.217	0.047	2.362		3.62089	3.63073	3.64057	3.65041	3.66026
PISTON RING #		Total Clearance				1.50		WHITE:	91.9625	92.2125	92.4625	92.7125	92.9625
		mm	inch			0.059		BLUE:	3.62057	3.63041	3.64026	3.65010	3.65994
SWG10001		-0.04	-0.00157			4.00	23.00	GREEN:	91.9495	92.1995	92.4495	92.6995	92.9495
						0.157	0.906		3.62006	3.62990	3.63974	3.64959	3.65943
				Cir Clip				REMARKS:	91.9575	92.2075	92.4575	92.7075	92.9575
								Measure for CYL	3.62037	3.63022	3.64006	3.64990	3.65974
				NONE				Clearance:	Tolerance is +/- (mm inch) : 0.0045 0.00018				
				J05				15.00 mm	from Bottom of Skirt.				
								0.591 inch	CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE # 113													
11-888	6	96.520	53.30	27.40	1.30	1.20	65.50	YELLOW:	96.4750	96.7250	96.9750	97.2250	97.4750
		3.800	2.098	1.079	0.051	0.047	2.579		3.79823	3.80807	3.81791	3.82776	3.83760
PISTON RING #		Total Clearance				1.50		WHITE:	96.4725	96.7225	96.9725	97.2225	97.4725
		mm	inch			0.059		BLUE:	3.79813	3.80797	3.81781	3.82766	3.83750
SWG10003		-0.03	-0.00118			2.00	22.00	GREEN:	96.4650	96.7150	96.9650	97.2150	97.4650
						0.079	0.866		3.79783	3.80768	3.81752	3.82736	3.83720
				Cir Clip				REMARKS:	96.4675	96.7175	96.9675	97.2175	97.4675
								Measure for CYL	3.79793	3.80778	3.81762	3.82746	3.83730
				NONE				Clearance:	Tolerance is +/- (mm inch) : 0.0045 0.00018				
				J05				12.00 mm	from Bottom of Skirt.				
								0.472 inch	CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE # 119 121													
11-889	8	101.600	57.90	33.90	1.40	1.20	65.00	YELLOW:	101.4050	101.6550	101.9050	102.1550	102.4050
		4.000	2.280	1.335	0.055	0.047	2.559		3.99232	4.00217	4.01201	4.02185	4.03169
PISTON RING #		Total Clearance				1.50		WHITE:	101.4025	101.6525	101.9025	102.1525	102.4025
		mm	inch			0.059		BLUE:	3.99222	4.00207	4.01191	4.02175	4.03159
SWG10031		-0.03	-0.00118			2.00	23.96	GREEN:	101.3950	101.6450	101.8950	102.1450	102.3950
						0.079	0.943		3.99193	4.00177	4.01161	4.02146	4.03130
				Cir Clip				REMARKS:	101.3975	101.6475	101.8975	102.1475	102.3975
								Measure for CYL	3.99203	4.00187	4.01171	4.02156	4.03140
				NONE				Clearance:	Tolerance is +/- (mm inch) : 0.0045 0.00018				
				J05				13.00 mm	from Bottom of Skirt.				
								0.512 inch	CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE # 143													

PISTON BUYER'S GUIDE

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-890	4	73.000	49.40	26.20	+	1.70	1.00	72.980	Tolerance is +/- (mm inch) : 0.0045 0.00018	6.00 mm	0.236 inch	from Bottom of Skirt.	
		2.874	1.945	1.031		0.067	0.039						2.126
PISTON RING #		Total Clearance				1.20		YELLOW:	72.9850	73.2350	73.4850	73.7350	73.9850
		mm	inch			0.047			2.87343	2.88327	2.89311	2.90295	2.91280
TBA		-0.02	-0.00079			2.00	18.00	WHITE:	72.9825	73.2325	73.4825	73.7325	73.9825
						0.079	0.709		2.87333	2.88317	2.89301	2.90285	2.91270
								BLUE:	72.9750	73.2250	73.4750	73.7250	73.9750
									2.87303	2.88287	2.89272	2.90256	2.91240
								GREEN:	72.9775	73.2275	73.4775	73.7275	73.9775
									2.87313	2.88297	2.89281	2.90266	2.91250
								REMARKS:					
								Measure for CYL					
								Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		159											
11-891	4	81.000	49.40	28.88	-	2.00	1.20	80.980	Tolerance is +/- (mm inch) : 0.003 0.00012	6.00 mm	0.236 inch	from Bottom of Skirt.	
		3.189	1.945	1.137		0.079	0.047						1.811
PISTON RING #		Total Clearance				1.20		YELLOW:	80.9730	81.2230	81.4730	81.7230	81.9730
		mm	inch			0.047			3.18791	3.19776	3.20760	3.21744	3.22728
SWH30484		-0.02	-0.00079			2.00	19.96	RED:	80.9865	81.2365	81.4865	81.7365	81.9865
						0.079	0.786		3.18844	3.19829	3.20813	3.21797	3.22781
								BLUE:	80.9795	81.2295	81.4795	81.7295	81.9795
									3.18817	3.19801	3.20785	3.21770	3.22754
								REMARKS:					
								Measure for CYL					
								Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		161											
11-892	6	86.700	54.00	30.50	-	0.60	1.20	86.680	Tolerance is +/- (mm inch) : 0.003 0.00012	5.00 mm	0.197 inch	from Bottom of Skirt.	
		3.413	2.126	1.201		0.024	0.047						2.323
PISTON RING #		Total Clearance				1.20		YELLOW:	86.6730	86.9230	87.1730	87.4230	87.6730
		mm	inch			0.047			3.41232	3.42217	3.43201	3.44185	3.45169
SWG30045		-0.02	-0.00079			2.00	21.00	RED:	86.6865	86.9365	87.1865	87.4365	87.6865
						0.079	0.827		3.41285	3.42270	3.43254	3.44238	3.45222
								BLUE:	86.6795	86.9295	87.1795	87.4295	87.6795
									3.41258	3.42242	3.43226	3.44211	3.45195
								REMARKS:					
								Measure for CYL					
								Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		169 187											
11-893	4	78.000	46.80	28.50	-	4.50	1.20	77.970	Tolerance is +/- (mm inch) : 0.003 0.00012	8.00 mm	0.315 inch	from Bottom of Skirt.	
		3.071	1.843	1.122		0.177	0.047						2.106
PISTON RING #		Total Clearance				1.20		YELLOW:	77.9630	78.2130	78.4630	78.7130	78.9630
		mm	inch			0.047			3.06941	3.07925	3.08909	3.09894	3.10878
SWN30196		-0.03	-0.00118			2.00	19.00	RED:	77.9765	78.2265	78.4765	78.7265	78.9765
						0.079	0.748		3.06994	3.07978	3.08963	3.09947	3.10931
								BLUE:	77.9695	78.2195	78.4695	78.7195	78.9695
									3.06967	3.07951	3.08935	3.09919	3.10904
								REMARKS:					
								Measure for CYL					
								Clearance:					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		223											

PISTON BUYER'S GUIDE

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-894	4	89.000	53.50	32.40	-	6.60	1.20	YELLOW:	88.9775	89.2275	89.4775	89.7275	89.9775
		3.504	2.106	1.276		0.260	0.047		2.244	3.50305	3.51289	3.52274	3.53258
PISTON RING #		Total Clearance						RED:	88.9675	89.2175	89.4675	89.7175	89.9675
		mm	inch						3.50266	3.51250	3.52234	3.53219	3.54203
SWN30189		-0.03	-0.00118					BLUE:	88.9625	89.2125	89.4625	89.7125	89.9625
									3.50246	3.51230	3.52215	3.53199	3.54183
								GREEN:	88.9725	89.2225	89.4725	89.7225	89.9725
									3.50285	3.51270	3.52254	3.53238	3.54222
				Cir Clip				REMARKS:					
						SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				C17		Anodized Head		Clearance: 0.394 inch					
						Moly Skirt		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 227		Tolerance is +/- (mm inch) : 0.0025 0.00010											
11-895	4	75.000	49.50	30.70	-	3.30	1.20	YELLOW:	0.0050	0.2550	0.5050	0.7550	1.0050
		2.953	1.949	1.209		0.130	0.047		2.087	0.00020	0.01004	0.01988	0.02972
PISTON RING #		Total Clearance						WHITE:	0.0025	0.2525	0.5025	0.7525	1.0025
		mm	inch						0.00010	0.00994	0.01978	0.02963	0.03947
SDT10222		-0.02	-0.00079					BLUE:	-0.0050	0.2450	0.4950	0.7450	0.9950
									-0.00020	0.00965	0.01949	0.02933	0.03917
								GREEN:	-0.0025	0.2475	0.4975	0.7475	0.9975
									-0.00010	0.00974	0.01959	0.02943	0.03927
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL mm from Bottom of Skirt.					
				T01		NONE		Clearance: inch					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 253		Tolerance is +/- (mm inch) : 0.0045 0.00018											
11-896	4	88.500	55.80	35.80	-	7.80	1.00	YELLOW:	88.4630	88.7130	88.9630	89.2130	89.4630
		3.484	2.197	1.409		0.307	0.039		2.205	3.48280	3.49264	3.50248	3.51232
PISTON RING #		Total Clearance						RED:	88.4765	88.7265	88.9765	89.2265	89.4765
		mm	inch						3.48333	3.49317	3.50301	3.51285	3.52270
SDT10200		-0.03	-0.00118					BLUE:	88.4695	88.7195	88.9695	89.2195	89.4695
									3.48305	3.49289	3.50274	3.51258	3.52242
				Cir Clip				REMARKS:					
						SURFACE TREATMENT		Measure for CYL 6.00 mm from Bottom of Skirt.					
				T01		Anodized Head		Clearance: 0.236 inch					
						Moly Skirt		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 237 259		Tolerance is +/- (mm inch) : 0.003 0.00012											
11-897	4	90.000	53.30	34.80	+	3.70	1.00	YELLOW:	88.9775	89.2275	89.4775	89.7275	89.9775
		3.543	2.098	1.370		0.146	0.039		2.205	3.50305	3.51289	3.52274	3.53258
PISTON RING #		Total Clearance						RED:	88.9675	89.2175	89.4675	89.7175	89.9675
		mm	inch						3.50266	3.51250	3.52234	3.53219	3.54203
SDT09000		-0.03	-0.00118					BLUE:	88.9625	89.2125	89.4625	89.7125	89.9625
									3.50246	3.51230	3.52215	3.53199	3.54183
								GREEN:	88.9725	89.2225	89.4725	89.7225	89.9725
									3.50285	3.51270	3.52254	3.53238	3.54222
				Cir Clip				REMARKS:					
						SURFACE TREATMENT		Measure for CYL 10.00 mm from Bottom of Skirt.					
				C17		Anodized Head		Clearance: 0.394 inch					
						Moly Skirt		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE # 237 259		Tolerance is +/- (mm inch) : 0.0025 0.00010											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-898	4	87.500	51.00	28.50	-	2.00	1.20	YELLOW:	87.4775	87.7275	87.9775	88.2275	88.4775
		3.445	2.008	1.122		0.079	0.047		2.362	3.44400	3.45384	3.46368	3.47352
PISTON RING #		Total Clearance				1.20		RED:	87.4675	87.7175	87.9675	88.2175	88.4675
		mm	inch			0.047			3.44360	3.45344	3.46329	3.47313	3.48297
SWT20089		-0.03	-0.00118			2.50	21.00	BLUE:	87.4625	87.7125	87.9625	88.2125	88.4625
						0.098	0.827		3.44341	3.45325	3.46309	3.47293	3.48278
				Cir Clip		SURFACE TREATMENT		GREEN:	87.4725	87.7225	87.9725	88.2225	88.4725
				NONE		Anodized Head			3.44380	3.45364	3.46348	3.47333	3.48317
				C17		Moly Skirt		REMARKS: Measure for CYL 10.00 mm from Bottom of Skirt. Clearance: 0.394 inch					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		201											
11-899	8	96.000	59.30	33.60		1.50	65.00	YELLOW:	95.9850	96.2350	96.4850	96.7350	96.9850
		3.780	2.335	1.323		0.059	2.559		3.77894	3.78878	3.79862	3.80846	3.81831
PISTON RING #		Total Clearance				1.50		WHITE:	95.9825	96.2325	96.4825	96.7325	96.9825
		mm	inch			0.059			3.77884	3.78868	3.79852	3.80837	3.81821
SWG10005		-0.02	-0.00079			3.00	23.96	BLUE:	95.9750	96.2250	96.4750	96.7250	96.9750
						0.118	0.943		3.77854	3.78839	3.79823	3.80807	3.81791
				Cir Clip		SURFACE TREATMENT		GREEN:	95.9775	96.2275	96.4775	96.7275	96.9775
				NONE		Anodized Head			3.77864	3.78848	3.79833	3.80817	3.81801
				J05		Moly Skirt		REMARKS: Measure for CYL 16.00 mm from Bottom of Skirt. Clearance: 0.630 inch					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		127	135	235									
11-900	8	96.000	64.80	33.60		1.50	63.50	YELLOW:	95.9850	96.2350	96.4850	96.7350	96.9850
		3.780	2.551	1.323		0.059	2.500		3.77894	3.78878	3.79862	3.80846	3.81831
PISTON RING #		Total Clearance				1.50		WHITE:	95.9825	96.2325	96.4825	96.7325	96.9825
		mm	inch			0.059			3.77884	3.78868	3.79852	3.80837	3.81821
SWG10005		-0.02	-0.00079			3.00	23.96	BLUE:	95.9750	96.2250	96.4750	96.7250	96.9750
						0.118	0.943		3.77854	3.78839	3.79823	3.80807	3.81791
				Cir Clip		SURFACE TREATMENT		GREEN:	95.9775	96.2275	96.4775	96.7275	96.9775
				NONE		Anodized Head			3.77864	3.78848	3.79833	3.80817	3.81801
				J05		Moly Skirt		REMARKS: Measure for CYL 25.00 mm from Bottom of Skirt. Clearance: 0.984 inch					
								CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
PAGE #		127	133	135									
11-901	4	82.000	57.90	31.10	+	1.20	59.00	YELLOW:	81.9730	82.2230	82.4730	82.7230	82.9730
		3.228	2.280	1.224		0.012	0.047		2.323	3.22728	3.23713	3.24697	3.25681
PISTON RING #		Total Clearance				1.20		RED:	81.9865	82.2365	82.4865	82.7365	82.9865
		mm	inch			0.047			3.22781	3.23766	3.24750	3.25734	3.26719
SWG30054		-0.03	-0.00118			2.00	20.00	BLUE:	81.9795	82.2295	82.4795	82.7295	82.9795
						0.079	0.787		3.22754	3.23738	3.24722	3.25707	3.26691
				Cir Clip		SURFACE TREATMENT		REMARKS: Measure for CYL 5.00 mm from Bottom of Skirt. Clearance: 0.197 inch					
				NONE		NONE		CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
				T01		Graphite Skirt							
PAGE #		167	185										

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION								
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)		
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm		
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch		
11-902	8	93.000	56.50	35.40	+	5.30	1.20	92.950	Tolerance is +/- (mm inch) : 0.0045 0.00018						
		3.661	2.224	1.394		0.209	0.047			2.283	mm	mm	mm	mm	mm
		Total Clearance				1.50				inch	inch	inch	inch	inch	
PISTON RING #		SWG10011		-0.02 -0.00079		2.50	23.00								
				0.098		0.098	0.906								
				Cir Clip											
				NONE		SURFACE TREATMENT									
				J05		Anodized Head									
				Moly Skirt											
PAGE #		43		219											
REMARKS:				Measure for CYL		8.00 mm		from Bottom of							
				Clearance:		0.315 inch		Skirt.							
CAUTION!!!				Bore diameter is measured before skirt Surface Treatment. To Determine											
				"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-903	8	90.200	52.50	31.00	+	1.30	1.50	90.180	Tolerance is +/- (mm inch) : 0.0045 0.00018						
		3.551	2.067	1.220		0.051	0.059			2.441	mm	mm	mm	mm	mm
		Total Clearance				1.50				inch	inch	inch	inch	inch	
PISTON RING #		SWF30006		-0.02 -0.00079		3.00	22.00								
				0.118		0.118	0.866								
				Cir Clip											
				J05		SURFACE TREATMENT									
				Moly Skirt		Anodized Head									
PAGE #		75													
REMARKS:				Measure for CYL		9.00 mm		from Bottom of							
				Clearance:		0.354 inch		Skirt.							
CAUTION!!!				Bore diameter is measured before skirt Surface Treatment. To Determine											
				"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-904	8	103.250	56.00	34.00	-	3.70	1.50	103.220	Tolerance is +/- (mm inch) : 0.0045 0.00018						
		4.065	2.205	1.339		0.146	0.059			2.559	mm	mm	mm	mm	mm
		Total Clearance				1.50				inch	inch	inch	inch	inch	
PISTON RING #		TBA		-0.02 -0.00079		2.50	23.96								
				0.098		0.098	0.943								
				Cir Clip											
				J05		SURFACE TREATMENT									
				Moly Skirt		Anodized Head									
PAGE #		145													
REMARKS:				Measure for CYL		9.00 mm		from Bottom of							
				Clearance:		0.354 inch		Skirt.							
CAUTION!!!				Bore diameter is measured before skirt Surface Treatment. To Determine											
				"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											
11-905	4	87.000	57.40	28.80	+	4.20	1.20	87.000	Tolerance is +/- (mm inch) : 0.0025 0.00010						
		3.425	2.260	1.134		0.165	0.047			2.047	mm	mm	mm	mm	mm
		Total Clearance				1.20				inch	inch	inch	inch	inch	
PISTON RING #		SWH30488		-0.03 -0.00118		2.00	21.97								
				0.079		0.079	0.865								
				Cir Clip											
				C17		SURFACE TREATMENT									
				Moly Skirt		NONE									
PAGE #		165													
REMARKS:				Measure for CYL		10.00 mm		from Bottom of							
				Clearance:		0.394 inch		Skirt.							
CAUTION!!!				Bore diameter is measured before skirt Surface Treatment. To Determine											
				"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.											

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm			
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch				
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID				
11-906	6	PAGE # 165		89.000	51.30	29.40	0.30	1.20	54.00	89.000 Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.504	2.020	1.157	-	0.012	0.047	2.126	YELLOW:	88.9775	89.2275	89.4775	89.7275	89.9775
											3.50305	3.51289	3.52274	3.53258	3.54242	
PISTON RING #		Total Clearance						1.20								
SWH30438		mm	inch					0.047								
		-0.03	-0.00118					2.80	21.97							
								0.110	0.865							
		Cir Clip		SURFACE TREATMENT		NONE		REMARKS:								
		C17		Moly Skirt		Measure for CYL 15.00 mm from Bottom of Skirt.										
						Clearance: 0.591 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-907	6	PAGE # 231		95.500	49.60	29.00	2.20	1.20	54.00	95.500 Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.760	1.953	1.142	-	0.087	0.047	2.126	YELLOW:	95.4775	95.7275	95.9775	96.2275	96.4775
											3.75896	3.76880	3.77864	3.78848	3.79833	
PISTON RING #		Total Clearance						1.20								
SWN30191		mm	inch					0.047								
		-0.03	-0.00118					2.00	22.00							
								0.079	0.866							
		Cir Clip		SURFACE TREATMENT		Anodized Head		REMARKS:								
		C17		Moly Skirt		Measure for CYL 10.00 mm from Bottom of Skirt.										
						Clearance: 0.394 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-908	4	PAGE # 23 169 187 215		88.000	51.50	27.20	1.50	1.20	58.00	88.000 Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.465	2.028	1.071	-	0.059	0.047	2.283	YELLOW:	87.9775	88.2275	88.4775	88.7275	88.9775
											3.46368	3.47352	3.48337	3.49321	3.50305	
PISTON RING #		Total Clearance						3.30	1.20							
SWG30042		mm	inch					0.130	0.047							
		-0.03	-0.00118					2.00	21.00							
								0.079	0.827							
		Cir Clip		SURFACE TREATMENT		NONE		REMARKS:								
		C17		Moly Skirt		Measure for CYL 15.00 mm from Bottom of Skirt.										
						Clearance: 0.591 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										
11-909	4	PAGE # 17 167 185 213		86.000	53.00	29.70	0.40	1.20	58.00	86.000 Tolerance is +/- (mm inch) : 0.0025 0.00010						
				3.386	2.087	1.169	-	0.016	0.047	2.283	YELLOW:	85.9775	86.2275	86.4775	86.7275	86.9775
											3.38494	3.39478	3.40463	3.41447	3.42431	
PISTON RING #		Total Clearance						1.50	1.20							
SWG30041		mm	inch					0.059	0.047							
		-0.03	-0.00118					3.10	22.00							
								0.122	0.079	0.866						
		Cir Clip		SURFACE TREATMENT		Anodized Head		REMARKS:								
		C17		Moly Skirt		Measure for CYL 15.00 mm from Bottom of Skirt.										
						Clearance: 0.591 inch										
						CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.										

PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing
Total Diameter, not one side.
EX: -0.04 (Total) / 2 = -0.02 (one side)



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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-910	4	99.500	51.30	30.40	-	3.20	1.20	YELLOW:	99.4775	99.7275	99.9775	100.2275	100.4775
		3.917	2.020	1.197		0.126	0.047		2.520	3.91644	3.92628	3.93612	3.94596
PISTON RING #		Total Clearance				4.70	1.20	RED:	99.4675	99.7175	99.9675	100.2175	100.4675
SWF20068		mm	inch			0.185	0.047	BLUE:	3.91604	3.92589	3.93573	3.94557	3.95541
		-0.03	-0.00118			5.40	2.00	GREEN:	99.4625	99.7125	99.9625	100.2125	100.4625
						0.213	0.079		3.91585	3.92569	3.93553	3.94537	3.95522
		Cir Clip							99.4725	99.7225	99.9725	100.2225	100.4725
									3.91624	3.92608	3.93593	3.94577	3.95561
									REMARKS:				
									Measure for CYL	13.00 mm	from Bottom of Skirt.		
									Clearance:	0.512 inch			
									CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE #		245							99.500	Tolerance is +/- (mm inch):	0.0025	0.00010	
11-911	4	99.500	51.40	30.70	-	2.00	1.20	YELLOW:	99.4775	99.7275	99.9775	100.2275	100.4775
		3.917	2.024	1.209		0.079	0.047		2.520	3.91644	3.92628	3.93612	3.94596
PISTON RING #		Total Clearance				5.10	1.20	RED:	99.4675	99.7175	99.9675	100.2175	100.4675
SWF20068		mm	inch			0.201	0.047	BLUE:	3.91604	3.92589	3.93573	3.94557	3.95541
		-0.03	-0.00118			5.40	2.00	GREEN:	99.4625	99.7125	99.9625	100.2125	100.4625
						0.213	0.079		3.91585	3.92569	3.93553	3.94537	3.95522
		Cir Clip							99.4725	99.7225	99.9725	100.2225	100.4725
									3.91624	3.92608	3.93593	3.94577	3.95561
									REMARKS:				
									Measure for CYL	15.00 mm	from Bottom of Skirt.		
									Clearance:	0.591 inch			
									CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE #		269							99.500	Tolerance is +/- (mm inch):	0.0025	0.00010	
11-9000	4	82.500	50.60	30.60	-	5.50	1.20	RED:	82.4700	82.7200	82.9700	83.2200	83.4700
		3.248	1.992	1.205		0.217	0.047		2.205	3.24685	3.25669	3.26654	3.27638
PISTON RING #		Total Clearance				1.50	1.50	GREEN:	82.4900	82.7400	82.9900	83.2400	83.4900
SWL03461		mm	inch			0.059	0.059		3.24764	3.25748	3.26732	3.27717	3.28701
		-0.03	-0.00118			2.00	21.00						
						0.079	0.827						
		Cir Clip							REMARKS:				
									Measure for CYL	5.40 mm	from Bottom of Skirt.		
									Clearance:	0.213 inch			
									CAUTION!!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.				
PAGE #		269							82.480	Tolerance is +/- (mm inch):	0.01	0.00039	

ADDITIONS

Ruled lines for text entry.

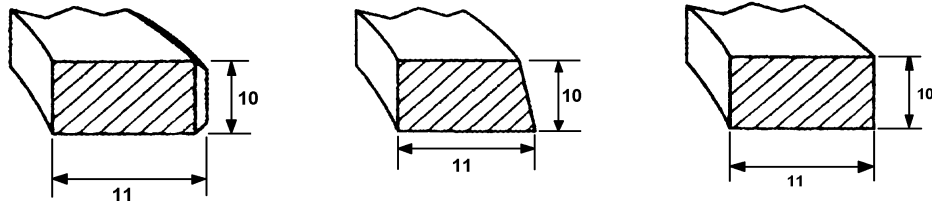
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



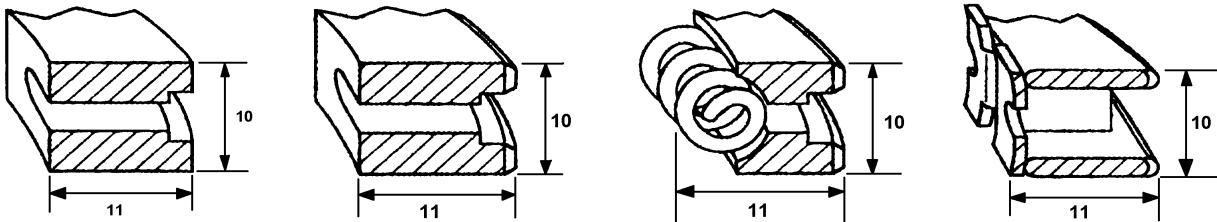
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1	3	4	5	6	8	9			12	14	17	18	19	21
2				7		10	x	11	13	15	16			20

Compression Ring



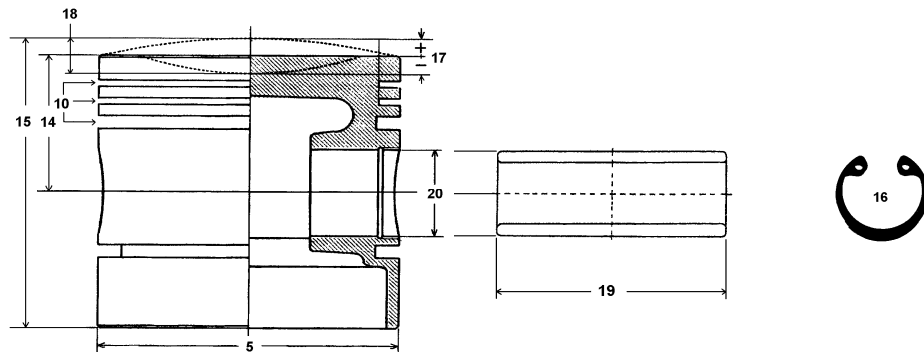
Oil Control Ring



Piston

Piston Pin

Circlip



- | | |
|--|---------------------------------------|
| 1: Engine Model Code. | 12: NOA's Piston Part Number. |
| 2: Fuel Type. | 13: Piston Reference Number. |
| 3: Number of Cylinder. | 14: Compression Distance. |
| 4: Engine Size CC. | 15: Piston Length. |
| 5: Cylinder Diameter. | 16: Circlip or Press Fit Information. |
| 6: NOA's Piston Ring Part Number. | 17: Dome or Dish. |
| 7: Piston Ring Reference Number. | 18: Dome or Dish Height. |
| 8: Piston Ring Position. | 19: Piston Pin Length. |
| 9: Piston Ring Part Number. | 20: Piston Pin Diameter. |
| 10: Width of Compression & Oil Ring. | 21: Piston Head Shape Code. |
| 11: Radial Wall Thickness of
Compression Ring & Oil Ring. | 22: Piston Head Drawing. |

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYL	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH		
FUEL	L			OEM #	T	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER		
CHRYSLER																
OM642	6	2987	83.00	TBA	1	2.00	x		NA	83.00						
DIESEL				NEW	2	2.00	x		645 030 25 17 (L) 642 030 24 17 (R)	TOTAL CLEARANCE				mm		
				642 030 00 24	3		x			mm						
					O1	2.00	x			Measure for CYL Clearance				mm		
					O2		x			mm						
														from bottom of Skirt.		
														CirClip	SURFACE TREATMENT	
															HEAD:	
														C17	SKIRT:	
PENTASTAR 3.6	6	3604	96.00	TBA	1	2.00	x		NA	96.00						
GASOLINE				NEW	2	2.00	x		5184347AG	TOTAL CLEARANCE				mm		
				68078776AA	3		x			mm						
					O1	2.00	x			Measure for CYL Clearance				mm		
					O2		x			mm						
														from bottom of Skirt.		
														CirClip	SURFACE TREATMENT	
															HEAD:	
														C17	SKIRT:	
MAGNUM 5.2	8	5211	99.31	SWC10019ZZ	1	1.98	x	4.50	11-821	99.31	86.40	43.80				
GASOLINE					2	1.98	x	4.50	4397779	TOTAL CLEARANCE				76.00 mm		
				2808550	3		x			-0.04 mm						
				2808553	O1	4.76	x	4.20		Measure for CYL Clearance				22.00 mm		
				3780007	O2		x			14.00 mm						
														from bottom of Skirt.		
														CirClip	SURFACE TREATMENT	
														NONE	HEAD: NONE	
														J05	SKIRT: NONE	
HEMI 5.7	8	5654	99.50	SWC10016ZX	1	1.50	x	3.50	11-873	99.50	58.70	34.70	+	4.00		
GASOLINE					2	1.50	x	4.50	5086010AB (L) 5086011AB (R)	TOTAL CLEARANCE				mm		
				5086002AA	3		x			-0.03 mm						
					O1	3.00	x	2.85		Measure for CYL Clearance				mm		
					O2		x			6.00 mm						
														from bottom of Skirt.		
														CirClip	SURFACE TREATMENT	
														NONE	HEAD: ANODIZED	
														J05	SKIRT: MOLY	

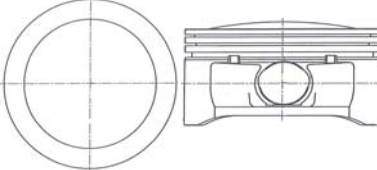
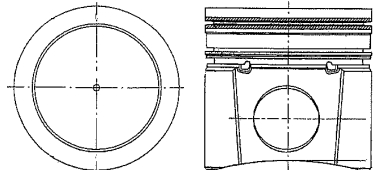
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L			OEM #	S	B	x	T	OEM #	BORE	LENGTH	COMP.	+ DIST.	LENGTH	
					T	mm		mm		mm	mm	mm	mm	DIAMETER	
CHRYSLER															
HEMI 5.7	8	5654	99.50	SWC10016ZX	1	1.50	x	3.50	11-861	99.50	59.00	31.00	+	4.00	
GASOLINE				5086002AA	2	1.50	x	4.50	53021539AD (L) 53021538AD (R)	TOTAL CLEARANCE				71.00 mm	
					3		x			-0.04 mm					
					O1	3.00	x	2.85		Measure for CYL Clearance					24.00 mm
					O2		x			5.00 mm from bottom of Skirt.					
											CirClip	SURFACE TREATMENT			
													NONE	HEAD:	ANODIZED
													J05	SKIRT:	MOLY
HEMI 5.7	8	5654	99.50	TBA	1	1.20	x		NA	99.50					
GASOLINE				NEW 68046210AB	2	1.20	x		53021538AD (L) 53021539AD (R)	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	2.00	x			Measure for CYL Clearance					mm
					O2		x			mm from bottom of Skirt.					
													CirClip	SURFACE TREATMENT	
														HEAD:	
														SKIRT:	
6BT	6	5899	102.00	SDC1002ZZ	1	3.0K	x		NA	102.00					
DIESEL				4638644 5011858AA	2	2.35	x		4429160 4638653	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x			Measure for CYL Clearance					mm
					O2		x			mm from bottom of Skirt.					
													CirClip	SURFACE TREATMENT	
														HEAD:	
														SKIRT:	
ISB 5.9	6	5899	102.00	SDC1002ZZ	1	3.0K	x		11-856	102.00	105.20	71.40	-	12.50	
DIESEL				4089258 4638644 5011858AA	2	2.35	x		3970192	TOTAL CLEARANCE				83.00 mm	
					3		x			-0.10 mm					
					O1	4.00	x			Measure for CYL Clearance					40.00 mm
					O2		x			mm from bottom of Skirt.					
											CirClip	SURFACE TREATMENT			
													16	HEAD:	NONE
													C17	SKIRT:	NONE

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	CYCLE	ENGINE SIZE	DIA	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L	CC	mm	OEM #	T	B	x	T	OEM #	BORE	LENGTH	COMP.	+	DIST.	LENGTH
CHRYSLER															
B6.7	6	6690	107.00	SDC10023ZX	1	3.0K	x		11-885	107.00	103.20	69.40	-	22.00	
DIESEL				4955366	2	2.50	x		4955365	TOTAL CLEARANCE				90.50 mm	
					3		x			-0.10 mm					
					O1	3.50	x			Measure for CYL Clearance				40.00 mm	
					O2		x			20.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	NONE	
												C17	SKIRT:	NONE	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION							
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART # OEM #	P S T	PISTON RING			PISTON PART # OEM #	PISTON INFORMATION				PISTON PIN			
						B mm	x	T mm		BORE mm	LENGTH mm	COMP. mm	+ mm	DIST. mm	LENGTH	DIAMETER	
FORD																	
ESSEX 42	6	4195	96.80	SWF30004ZZ	1	1.50	x	3.30	11-826	96.80	59.10	31.80	-	3.60			
GASOLINE				2L3Z 6148 AA F2AZ 6148 A F7AZ 6148 AA	2	1.50	x	4.20	XL3Z 6108 AA	TOTAL CLEARANCE				63.30 mm			
					3		x			-0.04 mm							
					O1	3.00	x	3.20		Measure for CYL Clearance					23.00 mm		
					O2		x			11.50 mm from bottom of Skirt.							
													CirClip	SURFACE TREATMENT			
													NONE	HEAD:	NONE		
													C17	SKIRT:	MOLY		
TRITON 46GT	8	4605	90.20	SWF30006ZZ	1	1.50	x	3.30	11-820	90.20	56.20	30.86	-	3.86			
GASOLINE				2L3Z 6148 AA F2AZ 6148 A F7AZ 6148 AA	2	1.50	x	4.10	F8AZ 6108 AA	TOTAL CLEARANCE				62.00 mm			
					3		x			-0.04 mm							
					O1	3.00	x	3.10		Measure for CYL Clearance					22.00 mm		
					O2		x			11.00 mm from bottom of Skirt.							
													CirClip	SURFACE TREATMENT			
													NONE	HEAD:	NONE		
													J05	SKIRT:	MOLY		
TRITON 54	8	5408	90.20	SWF30006ZZ	1	1.50	x	3.30	11-810	90.20	52.00	31.00	-	1.75			
GASOLINE				2L3Z 6148 AA 6L3Z 6148 A	2	1.50	x	4.10	XC3Z 6108 CA	TOTAL CLEARANCE				61.00 mm			
					3		x			-0.04 mm							
					O1	3.00	x	3.10		Measure for CYL Clearance					22.00 mm		
					O2		x			5.00 mm from bottom of Skirt.							
													CirClip	SURFACE TREATMENT			
													J05	HEAD:	NONE		
													J05	SKIRT:	MOLY		
ISB 5.9	6	5899	102.00	SDC1002ZZZ	1	2.84	x	4.20	11-856	102.00	105.20	71.40	-	12.50			
DIESEL				4089258	2	2.35	x	4.30	3970192	TOTAL CLEARANCE				83.00 mm			
					3		x			-0.10 mm							
					O1	4.00	x	4.30		Measure for CYL Clearance					40.00 mm		
					O2		x			20.00 mm from bottom of Skirt.							
													CirClip	SURFACE TREATMENT			
													J05	HEAD:	NONE		
													C17	SKIRT:	NONE		

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L			OEM #	S	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	
					T									DIAMETER	
FORD															
PowerStroke 6.0	8	5954	95.00	SDF3000ZZ	1	2.25	x		11-857	95.00	85.80	52.04	-	16.40	65.00 mm
DIESEL				3C3Z 6148 AA	2	2.00	x		3C3Z 6108 AA	TOTAL CLEARANCE					
					3		x			-0.10 mm					
					O1	3.50	x			Measure for CYL Clearance					
					O2		x			15.00 mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT				
														HEAD: NONE	
														SKIRT: MOLY	
PowerStroke 6.4	8	6400	98.20	SDF3002ZX	1	2.5K	x		11-886	98.20	78.90	52.15	-	15.95	75.00 mm
DIESEL				4C3Z 6148 AA	2	2.00	x		8C3Z 6108 EB	TOTAL CLEARANCE					
					3		x			-0.10 mm					
					O1	3.00	x			Measure for CYL Clearance					
					O2		x			15.00 mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT				
														HEAD: NONE	
														SKIRT: MOLY	
PowerStroke 6.7	8	6651	99.00	TBA	1	3.0K	x		NA	99.00					mm
DIESEL				BC3Z 6148 A	2	2.00	x		BC3Z 6108 D	TOTAL CLEARANCE					
					3		x			mm					
					O1	2.50	x			Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
														HEAD: NONE	
														SKIRT: NONE	
ISB 6.7	6	6690	107.00	SDC1002ZX	1	3.0K	x		11-885	107.00	103.20	69.40	-	22.00	90.50 mm
DIESEL				4955366	2	2.50	x		4955365	TOTAL CLEARANCE					
					3		x			-0.10 mm					
					O1	3.50	x			Measure for CYL Clearance					
					O2		x			20.00 mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT				
														HEAD: NONE	
														SKIRT: NONE	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L	CC	mm	OEM #	S	B	x	T	OEM #	BORE	LENGTH	COMP.	+	DIST.	LENGTH	
					T	mm		mm		mm	mm	mm		mm	DIAMETER	
FORD																
TRITON 68	8	6801	90.20	SWF30019ZY	1	1.50	x	3.25	11-811	90.20	52.10	30.75	-	3.50		
DIESEL				2L3Z 6148 AA 6L3Z 6148 A	2	1.50	x	4.10	XL3Z 6148 KA	TOTAL CLEARANCE				61.00 mm		
					3		x			-0.04 mm						
					O1	3.00	x	3.25		Measure for CYL Clearance						
					O2		x			6.00 mm from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												J05	HEAD:	NONE		
													SKIRT:	MOLY		
PowerStroke 7.3	8	7276	104.40	SDF30020ZZ	1	3.0K	x		DISCONTINUE	104.40						
DIESEL				F7TZ 6148 AAA F81Z 6148 AA	2	2.00	x		F81Z 6102 AA	TOTAL CLEARANCE				mm		
					3		x			-0.10 mm						
					O1	3.50	x			Measure for CYL Clearance						
					O2		x			mm from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:			
													SKIRT:			

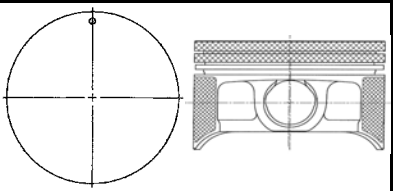

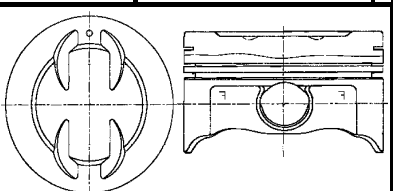
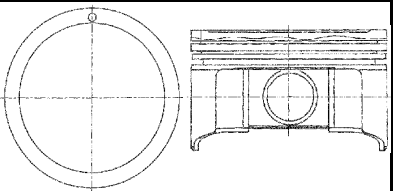
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART # OEM #	P S T	PISTON RING			PISTON PART # OEM #	PISTON INFORMATION				PISTON PIN	
						B mm	x	T mm		BORE mm	LENGTH mm	COMP. mm	+ mm	DIST. mm	LENGTH
GMC															
Vortec 4800 LY2	8	4818	96.00	SWG10005ZZ	1	1.50	x	3.30	11-899	96.00	59.30	33.60			
GASOLINE				12456338	2	1.50	x	4.00	89017577	TOTAL CLEARANCE				65.00 mm	
					3		x			-0.02 mm					
					O1	3.00	x	3.20		Measure for CYL Clearance					
					O2		x			16.00 mm from bottom of Skirt.					
															CirClip
													HEAD: ANODIZED		
													J05	SKIRT: MOLY	
Vortec 4800 LR4	8	4818	96.00	SWG10005ZZ	1	1.50	x	3.30	TBA	96.00					
GASOLINE				12456338	2	1.50	x	4.00	88894404	TOTAL CLEARANCE				mm	
					3		x			-0.02 mm					
					O1	3.00	x	3.20		Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
															CirClip
													HEAD: NONE		
													J05	SKIRT: NONE	
Vortec 5700 L31	8	5735	101.60	SWI10197ZZ	1	1.50	x		11-828	101.60					
GASOLINE				12522848	2	1.50	x		12522850	TOTAL CLEARANCE				mm	
					3		x			-0.04 mm					
					O1	3.00	x			Measure for CYL Clearance					
					O2		x			12.00 mm from bottom of Skirt.					
															CirClip
													HEAD: NONE		
													C17	SKIRT: NONE	
Vortec 5700 LQ4	8	5964 5967	101.60	SWI10197ZZ	1	1.50	x		11-823	101.60	60.60	33.80		1.10	
GASOLINE				12456342 88894243	2	1.50	x		88894003	TOTAL CLEARANCE				70.00 mm	
					3		x			-0.04 mm					
					O1	3.00	x			Measure for CYL Clearance					
					O2		x			21.00 mm from bottom of Skirt.					
															CirClip
													HEAD: NONE		
													J05	SKIRT: NONE	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	CY L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #					OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
GMC															
Vortec 6000 L76	8	5967	101.60	SWG10031ZX	1	1.20	x	3.50	11-889	101.60	57.90	33.90	-	1.40	65.00 mm
GASOLINE				19178307	2	1.50	x	4.20	89017849	TOTAL CLEARANCE					
					3		x			-0.03 mm					
					O1	2.50	x	2.55		Measure for CYL Clearance					
					O2		x			13.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	NONE	
												J05	SKIRT:	MOLY	
Vortec 6000 L96	8	5967	101.60	SWG10031ZX	1	1.20	x	3.50	11-889	101.60	57.90	33.90	-	1.40	65.00 mm
GASOLINE				19178307	2	1.50	x	4.20	89017849	TOTAL CLEARANCE					
					3		x			-0.03 mm					
					O1	2.50	x	2.55		Measure for CYL Clearance					
					O2		x			13.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	NONE	
												J05	SKIRT:	MOLY	
GM 6.5 DIESEL	8	6473	103.00	SDG10024ZZ	1	3.0K	x	3.70	11-830	103.00	91.80	53.50	-	3.70	70.00 mm
DIESEL				12369198	2	2.00	x	4.10	12550059	TOTAL CLEARANCE					
					3		x			-0.10 mm					
					O1	4.00	x	4.15		Measure for CYL Clearance					
					O2		x			17.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	NONE	
												C17	SKIRT:	NONE	
DURAMAX LB7	8	6599	103.00	SDI10183ZY	1	2.95	x	3.90	11-884	103.00	89.82	49.82	-	15.20	81.00 mm
DURAMAX LLY DURAMAX LBZ DURAMAX LMM				88894243	2	2.00	x	4.40	97226117 (L) 97226116 (R)	TOTAL CLEARANCE					
					3		x			mm					
					O1	3.00	x	3.00		Measure for CYL Clearance					
					O2		x			20.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	NONE	
												D04	SKIRT:	MOLY	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CY	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	OEM #	BORE	LENGTH	COMP.	+	DIST.	LENGTH	
					T	mm		mm		mm	mm	mm		mm	DIAMETER	
GMC																
DURAMAX LGH	8	6599	103.00	SDI10183ZY	1	2.95	x	4.30	NA	103.00						
DIESEL				97386951	2	2.00	x	4.30	19256948 (L) 19256949 (R)	TOTAL CLEARANCE				mm		
					3	2.50	x	4.80		mm						
					O1	3.00	x	3.10		Measure for CYL Clearance						
					O2		x			mm from bottom of Skirt.						
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				
DURAMAX LML	8	6599	103.00	SDI10183ZY	1	2.95	x	4.30	NA	103.00						
DIESEL				97386951	2	2.00	x	4.30	19260446	TOTAL CLEARANCE				mm		
					3	2.50	x	4.80		mm						
					O1	3.00	x	3.10		Measure for CYL Clearance						
					O2		x			mm from bottom of Skirt.						
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				
DURAMAX LG4	6	7785	115.00	SDI10178	1	2.95	x	4.30	NA	115.00						
DIESEL				NEW 94391502	2	2.00	x	4.30	-	TOTAL CLEARANCE				mm		
					3	2.50	x	4.80		mm						
					O1	3.00	x	3.10		Measure for CYL Clearance						
					O2		x			mm from bottom of Skirt.						
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CY L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #		B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
HINO															
J05E	4	5123	112.00	SDH20108ZZ	1	2.50	x	4.15	NA	112.00					
DIESEL				13011-E0350	2	2.00	x	4.30	-	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm					
										from bottom of Skirt.					
J05C	4	5307	114.00	SDH20081ZY	1	3.00	x	4.50	NA	114.00					
DIESEL				13011-3391B 13011-1380A	2	2.00	x	4.30	13216-2631	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm					
										from bottom of Skirt.					
J05C	4	5307	114.00	SDH20086ZY	1	2.50	x	4.30	NA	114.00					
DIESEL				13011-3880A 13011-3940A 13011-3221A	2	2.00	x	4.30	13301-1013 13306-1080	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm					
										from bottom of Skirt.					
J07E	5	6403	112.00	SDH20104ZY	1	2.50	x	4.15	NA	112.00					
DIESEL				13011-4050A	2	2.00	x	4.30	-	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm					
										from bottom of Skirt.					

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #		B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
HINO															
J07E	5	6403	112.00	SDH20109ZZ	1	2.5K	x	4.35	NA	112.00					
DIESEL				13011-E0370	2	2.00	x	4.30	-	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT		HEAD:		
													SKIRT:		
J07C	5	6634	114.00	SDH20087ZY	1	2.50	x	4.30	NA	114.00					
DIESEL				13011-3660A 13011-3900A	2	2.00	x	4.30	13301-1013 13306-1080	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT		HEAD:		
													SKIRT:		
J07C	5	6634	114.00	SDH20082ZZ	1	3.00	x	4.50	NA	114.00					
DIESEL				13011-3371A 13011-3371B	2	2.00	x	4.30	13216-2631	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT		HEAD:		
													SKIRT:		
J08E	6	7684	112.00	SDH20102ZY	1	2.50	x	4.15	NA	112.00					
DIESEL				13011-4040A	2	2.00	x	4.30	S130B-E0390	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance					
					O2		x			mm from bottom of Skirt.					
										CirClip	SURFACE TREATMENT		HEAD:		
													SKIRT:		

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #					OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
HINO															
J08C	6	7961	114.00	SDH2006ZZ	1	3.00	x	4.50	NA	114.00					
DIESEL				13011-2960A 13011-2961A	2	2.00	x	4.30	13216-2631	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance				mm	
					O2		x			mm from bottom of Skirt.					
															CirClip
											HEAD:				
											SKIRT:				
J08C	6	7961	114.00	SDH2008ZY	1	2.50	x	4.30	NA	114.00					
DIESEL				13011-3570A 13011-3820A 13011-3890B	2	2.00	x	4.30	13301-1013 13306-1080	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance				mm	
					O2		x			mm from bottom of Skirt.					
															CirClip
											HEAD:				
											SKIRT:				

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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	
					T	mm		mm	OEM #	mm	mm	mm		mm	DIAMETER	
ISUZU																
C240	4	2369	86.00	SDI10047ZZ	1	2.00	x	3.50	DISCONTINUE	86.00						
DIESEL				9-12181-138-0	2	2.00	x	3.50	9-12111-834-0	TOTAL CLEARANCE				mm		
					3	2.00	x	3.50		mm						
					O1	5.00	x	2.80		Measure for CYL Clearance						
					O2	5.00	x	3.50		mm						
										from bottom of Skirt.						
C240	4	2369	86.00	SDI10051ZZ	1	2.00	x	3.50	DISCONTINUE	86.00						
DIESEL				5-12181-603-0	2	2.00	x	3.50	5-12111-064-0	TOTAL CLEARANCE				mm		
					3	2.00	x	3.50		mm						
					O1	5.00	x	3.90		Measure for CYL Clearance						
					O2					mm						
										from bottom of Skirt.						
C240	4	2369	86.00	SDI10093ZZ	1	2.50	x	4.00	DISCONTINUE	86.00						
DIESEL				5-12121-022-0	2	2.00	x	3.50	5-12111-226-0	TOTAL CLEARANCE				mm		
					3					mm						
					O1	5.00	x	4.30		Measure for CYL Clearance						
					O2					mm						
										from bottom of Skirt.						
C240	4	2369	86.00	SDI10095ZZ	1	2.50	x	3.80	DISCONTINUE	86.00						
DIESEL				8-94104-949-0	2	2.00	x	3.50	8-94236-225-0	TOTAL CLEARANCE				mm		
					3					mm						
					O1	5.00	x	3.90		Measure for CYL Clearance						
					O2					mm						
										from bottom of Skirt.						

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ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART # OEM #	P S T	PISTON RING			PISTON PART # OEM #	PISTON INFORMATION				PISTON PIN		
						B mm	x	T mm		BORE mm	LENGTH mm	COMP. mm	+ mm	DIST. mm	LENGTH	DIAMETER
ISUZU																
4JJ1-TC	4	2999	95.40	SDI10215ZZ	1	2.00	x	3.45	NA	95.40						
DIESEL				NEW 8-98053-579-0	2	2.00	x	4.40	-	TOTAL CLEARANCE					mm	
					3		x			mm						
					O1	3.00	x	3.00		Measure for CYL Clearance						mm
					O2		x			mm from bottom of Skirt.						mm
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				
4JJ1-TC	4	2999	95.40	SDI10210ZZ	1	2.00	x	3.50	NA	95.40						
DIESEL				NEW 8-97388-734-0	2	1.50	x	4.00	-	TOTAL CLEARANCE					mm	
					3		x			mm						
					O1	3.00	x	3.00		Measure for CYL Clearance						mm
					O2		x			mm from bottom of Skirt.						mm
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				
4HK1-TC	4	5193	115.00	SDI10207ZZ	1	2.95	x	4.15	NA	115.00						
DIESEL				NEW 8-97017-166-0	2	2.00	x	4.30	-	TOTAL CLEARANCE					mm	
					3	2.00	x	4.80		mm						
					O1	3.00	x	3.10		Measure for CYL Clearance						mm
					O2		x			mm from bottom of Skirt.						mm
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				
Vortec 6000 L96	4	5957	101.60	SWG10031ZX	1	1.20	x	3.50	TBA	101.60						
GASOLINE				NEW 8-89017-484-0	2	1.50	x	4.20		TOTAL CLEARANCE					mm	
					3		x			mm						
					O1	2.50	x	2.55		Measure for CYL Clearance						mm
					O2		x			mm from bottom of Skirt.						mm
										CirClip		SURFACE TREATMENT				
												HEAD:				
												SKIRT:				

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ENGINE MODEL	CYCLE	ENGINE SIZE	DIA	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L	CC	mm	OEM #	T	B	x	T	OEM #	BORE	LENGTH	COMP.	+ DIST.	LENGTH	
ISUZU															
8GF1	8	6599	103.00	SDH10183ZY	1	2.95	x	3.90	11-884	103.00	89.82	49.82	-	15.20	81.00 mm
DIESEL				8-97250-331-2	2	2.00	x	4.40	97226117 (L)	TOTAL CLEARANCE					
					3		x			mm					
					O1	3.00	x	3.00	97226116 (R)	Measure for CYL Clearance					
					O2		x			20.00 mm from bottom of Skirt.					
												CirClip 	SURFACE TREATMENT		
												HEAD: NONE			
												SKIRT: MOLY			

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ENGINE MODEL	CY L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION					PISTON PIN			
FUEL	L			OEM #	S	B mm	x	T mm	#	BORE mm	LENGTH mm	COMP. mm	+	DIST. mm	LENGTH			
					T				OEM #						DIAMETER			
MAZDA																		
UA	4	1484	75.00	SCT20010ZZ	1	2.50	x	3.30	DISCONTINUE	75.00								
GASOLINE				0107-11-999 0603-23-999	2	2.50	x	3.30	0107-11-102 0603-23-200	TOTAL CLEARANCE					mm			
					3					mm								
					O1	4.00	x	3.30		Measure for CYL Clearance					mm			
					O2					mm from bottom of Skirt.								
											CirClip	SURFACE TREATMENT						
												HEAD:						
												SKIRT:						
VA	4	1985	82.00	SCT20012ZZ	1	2.50	x	3.60	DISCONTINUE	82.00								
GASOLINE				0164-11-999	2	2.50	x	3.60	0164-23-200 2477-23-200	TOTAL CLEARANCE					mm			
					3					mm								
					O1	4.00	x	3.60		Measure for CYL Clearance					mm			
					O2					mm from bottom of Skirt.								
											CirClip	SURFACE TREATMENT						
												HEAD:						
												SKIRT:						
F2	4	2184	86.00	SWT20048ZZ	1	1.50	x	3.30	11-582	86.00	71.50	36.50	-	7.00	66.00 mm			
GASOLINE				F801-23-130 F2Y1-11-SCO	2	1.50	x	3.80	F2Y2-11-SAO	TOTAL CLEARANCE								
					3					15.00 mm								
					O1	4.00	x	3.25		Measure for CYL Clearance					22.00 mm			
					O2					-0.04 mm from bottom of Skirt.								
											CirClip	SURFACE TREATMENT						
											NONE	HEAD:	NONE					
											T01	SKIRT:	NONE					
F2	4	2184	86.00	SWT20048ZZ	1	1.50	x	3.30	11-583	86.00	71.00	36.00	-	5.40	67.00 mm			
GASOLINE				F801-23-130 F2Y1-11-SCO	2	1.50	x	3.80	F2Y4-11-SAO	TOTAL CLEARANCE								
					3					10.00 mm								
					O1	4.00	x	3.25		Measure for CYL Clearance					22.00 mm			
					O2					-0.04 mm from bottom of Skirt.								
											CirClip	SURFACE TREATMENT						
											NONE	HEAD:	NONE					
											C17	SKIRT:	NONE					

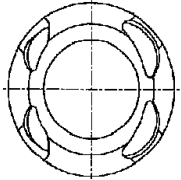
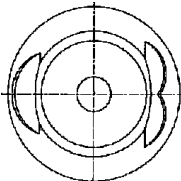
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L	CC	mm	OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+ DIST.	LENGTH	
					T	mm		mm	OEM #	mm	mm	mm	mm	DIAMETER	
MAZDA															
F2	4	2184	86.00	SWT20048ZZ	1	1.50	x	3.30	11-573	86.00	71.50	36.50	-	9.50	67.00 mm
GASOLINE				F801-23-130 F2Y1-11-SCO	2	1.50	x	3.80	F220-11-SAO	TOTAL CLEARANCE					
										-0.04 mm					
										Measure for CYL Clearance					
										15.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
												NONE	HEAD:	NONE	
												C17	SKIRT:	NONE	
FE	4	2184	86.00	SWT20048ZZ	1	1.50	x	3.30	11-129	86.00	71.00	34.00	-	2.60	65.00 mm
GASOLINE				F801-23-130 F2Y1-11-SCO	2	1.50	x	3.80	FE01-23-200	TOTAL CLEARANCE					
										-0.04 mm					
										Measure for CYL Clearance					
										10.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
												NONE	HEAD:	NONE	
												C17	SKIRT:	NONE	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
MITSUBISHI																
4G33	4	1238	73.00	SWM31016ZZ	1	1.50	x	3.30	11-249	73.00	70.00	32.70				
GASOLINE				MD009625 MD115500	2	1.50	x	3.30	MD009580 MD009581	TOTAL CLEARANCE				CirClip	64.00 mm	
					3					-0.04 mm						
					O1	4.00	x	3.05		Measure for CYL Clearance					19.00 mm	
					O2					20.00 mm from bottom of Skirt.						
															NONE	HEAD: NONE
J05	SKIRT: NONE															
SURFACE TREATMENT																
4G33	4	1289	73.00	SWM30057ZZ	1	2.00	x	3.30	DISCONTINUE	73.00						
GASOLINE				MD000770	2	2.00	x	3.30	MD002710 MD002851	TOTAL CLEARANCE				CirClip	mm	
					3					mm						
					O1	4.00	x	3.05		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
															NONE	HEAD:
SKIRT:																
SURFACE TREATMENT																
G33B	4	1439	73.00	SWM31024ZZ	1	1.50	x	2.70	DISCONTINUE	73.00						
GASOLINE				MD034010 MD115500	2	1.50	x	3.30	-	TOTAL CLEARANCE				CirClip	mm	
					3					mm						
					O1	4.00	x	3.20		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
															NONE	HEAD:
SKIRT:																
SURFACE TREATMENT																
4G32	4	1597	76.90	SWM31005ZZ	1	2.00	x	3.50	DISCONTINUE	76.90						
GASOLINE				MD000725 MD004709 MD004739 MD004770 MD005885 MD007251 MD008105 MD106741	2	2.00	x	3.50	-	TOTAL CLEARANCE				CirClip	mm	
					3					mm						
					O1	4.00	x	3.85		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
															NONE	HEAD:
SKIRT:																
SURFACE TREATMENT																

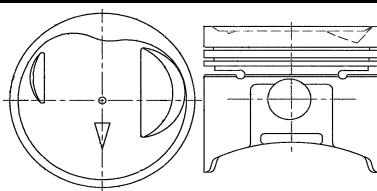



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ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART # OEM #	P S T	PISTON RING			PISTON PART # OEM #	PISTON INFORMATION				PISTON PIN					
						B mm	x	T mm		BORE mm	LENGTH mm	COMP. mm	+ mm	DIST. mm	LENGTH	DIAMETER			
MITSUBISHI																			
4G32	4	1597	76.90	SWM31043ZZ	1	1.50	x	3.10	11-3024	76.90	68.00	34.00	-	2.40					
GASOLINE				MD012765 MD062387 MD093337 MD099430	2	1.50	x	3.50	MD105495	TOTAL CLEARANCE				CirClip	64.00 mm				
					3						-0.04 mm								
					O1	4.00	x	3.85				Measure for CYL Clearance				NONE	19.00 mm		
					O2							16.00 mm from bottom of Skirt.							
																	C17	SKIRT: NONE	
G32B	4	1597	76.90	SWM31005ZZ	1	2.00	x	3.50	DISCONTINUE	76.90									
GASOLINE				MD000725 MD004709 MD004739 MD004770 MD005885 MD007251 MD008105 MD106741	2	2.00	x	3.50	MD009521	TOTAL CLEARANCE				CirClip	mm				
					3						mm								
					O1	4.00	x	3.85				Measure for CYL Clearance				NONE	mm		
					O2							mm from bottom of Skirt.							
																	C17	SKIRT: NONE	
G32B	4	1597	76.90	SWM31043ZZ	1	1.50	x	3.10	DISCONTINUE	76.90									
GASOLINE				MD012765 MD062387 MD093337 MD099430	2	1.50	x	3.50	MD100405	TOTAL CLEARANCE				CirClip	mm				
					3						mm								
					O1	4.00	x	3.85				Measure for CYL Clearance				NONE	mm		
					O2							mm from bottom of Skirt.							
																	C17	SKIRT: NONE	
G32T	4	1597	76.90	SWM31043ZZ	1	1.50	x	3.10	DISCONTINUE	76.90									
GASOLINE				MD012765 MD062387 MD093337 MD099430	2	1.50	x	3.50	MD079158	TOTAL CLEARANCE				CirClip	mm				
					3						mm								
					O1	4.00	x	3.85				Measure for CYL Clearance				NONE	mm		
					O2							mm from bottom of Skirt.							
																	C17	SKIRT: NONE	

FORKLIFT & MEDIUM SIZE DIESEL ENGINES

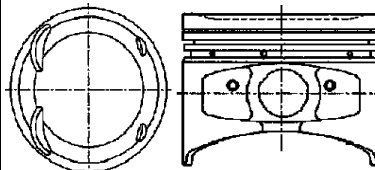


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NOA PISTON RING SPECIFICATION							NOA PISTON SPECIFICATION						
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B x T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #			OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
G32T	4	1597	76.90	SWM31043ZZ	1	1.50 x 3.10	DISCONTINUE	76.90					
GASOLINE				MD012765 MD062387 MD093337 MD099430	2	1.50 x 3.50	MD074471	TOTAL CLEARANCE				mm	
			3					mm					
			O1		4.00 x 3.85	Measure for CYL Clearance				mm			
			O2			mm				mm			
						from bottom of Skirt.							
											CirClip	SURFACE TREATMENT	
											NONE	HEAD:	
												SKIRT:	
4G52	4	1995	84.00	SWM30074ZZ	1	2.00 x 3.60	DISCONTINUE	84.00					
GASOLINE				MD021010 MD021035 MD021070	2	2.00 x 3.70	MD021000 MD021058	TOTAL CLEARANCE				mm	
			3					mm					
			O1		4.00 x 3.80	Measure for CYL Clearance				mm			
			O2			mm				mm			
						from bottom of Skirt.							
											CirClip	SURFACE TREATMENT	
											NONE	HEAD:	
												SKIRT:	
G52B	4	1995	84.00	SWM30074ZZ	1	2.00 x 3.60	DISCONTINUE	84.00					
GASOLINE				MD021010 MD021035 MD021070	2	2.00 x 3.70	MD021192	TOTAL CLEARANCE				mm	
			3					mm					
			O1		4.00 x 3.80	Measure for CYL Clearance				mm			
			O2			mm				mm			
						from bottom of Skirt.							
											CirClip	SURFACE TREATMENT	
											NONE	HEAD:	
												SKIRT:	
4G63	4	1997	85.00	SWM31048ZZ	1	1.20 x 3.10	11-540	85.00	67.00	35.00	-	2.10	
GASOLINE				MD133185	2	1.50 x 3.80	MD1292242	TOTAL CLEARANCE				66.00 mm	
			3					-0.04 mm					
			O1		3.00 x 2.85	Measure for CYL Clearance				21.00 mm			
			O2			10.00 mm							
						from bottom of Skirt.							
											CirClip	SURFACE TREATMENT	
											NONE	HEAD: NONE	
											C17	SKIRT: NONE	



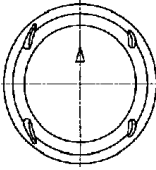
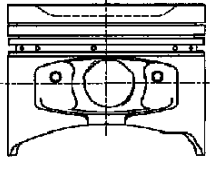
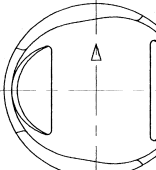
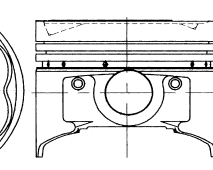

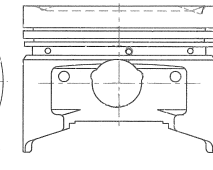
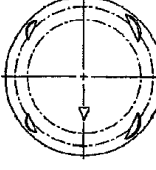
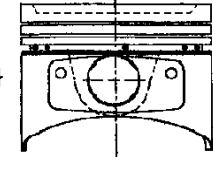
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE	DIA	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L	CC	mm	OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
MITSUBISHI																
4G63	4	1997	85.00	SWM31048ZZ	1	1.20	x	3.10	11-546	85.00	67.00	35.00	-	5.40		
GASOLINE				MD133185	2	1.50	x	3.80	MD129232	TOTAL CLEARANCE					66.00 mm	
					3					-0.04 mm						
					O1	3.00	x	2.85		Measure for CYL Clearance					21.00 mm	
					O2					26.00 mm						
										from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
													J05	SKIRT:	NONE	
4G63	4	1997	85.00	SWM31048ZZ	1	1.20	x	3.10	11-3045	85.00	67.50	35.50	-	1.70		
GASOLINE				MD133185	2	1.50	x	3.80	MD1292242	TOTAL CLEARANCE					62.00 mm	
					3					-0.04 mm						
					O1	3.00	x	2.85		Measure for CYL Clearance					22.00 mm	
					O2					10.00 mm						
										from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
													J05	SKIRT:	NONE	
4G63	4	1997	85.00	SWM31071ZZ	1	1.20	x	3.10	11-718	85.00	67.00	35.00	-	2.20		
GASOLINE				MD195850	2	1.50	x	3.80	MD190262	TOTAL CLEARANCE					62.00 mm	
					3					-0.04 mm					3.60	
					O1	3.00	x	2.55		Measure for CYL Clearance					22.00 mm	
					O2					10.00 mm						
										from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
													T01	SKIRT:	NONE	
4G63	4	1997	85.00	SWM31071ZZ	1	1.20	x	3.10	11-719	85.00	67.00	35.00	-	5.40		
GASOLINE				MD195850	2	1.50	x	3.80	MD308200	TOTAL CLEARANCE					62.00 mm	
					3					-0.04 mm						
					O1	3.00	x	2.55		Measure for CYL Clearance					22.00 mm	
					O2					10.00 mm						
										from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
													C17	SKIRT:	NONE	

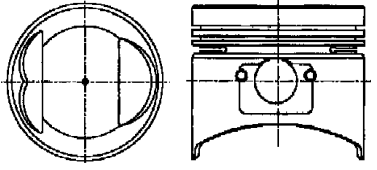
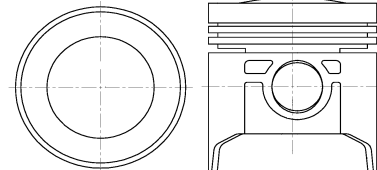
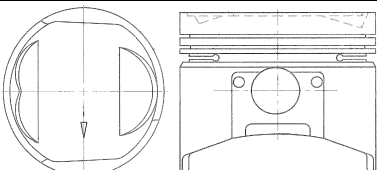
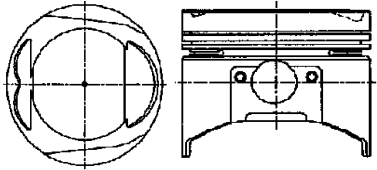
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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	T	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	DIAMETER	
MITSUBISHI																
G63B	4	1997	85.00	SWM31013ZZ	1	2.00	x	3.60	11-027	85.00	72.20	35.20	-	5.20	72.00 mm	
GASOLINE				MD040640 MD040840 MD042580	2	2.00	x	3.70	MD040591	TOTAL CLEARANCE				7.70		
										-0.04 mm						
										Measure for CYL Clearance						
										10.00 mm from bottom of Skirt.						
										21.00 mm						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
												J05	SKIRT:	NONE		
G63B	4	1997	85.00	SWM31013ZZ	1	2.00	x	3.60	11-3042	85.00	74.00	35.00	+	2.00	72.00 mm	
GASOLINE				MD040640 MD040840 MD042580	2	2.00	x	3.70	MD040821	TOTAL CLEARANCE				7.70		
										-0.04 mm						
										Measure for CYL Clearance						
										22.00 mm from bottom of Skirt.						
										21.00 mm						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
												J05	SKIRT:	NONE		
G63B	4	1997	85.00	SWM31034ZZ	1	1.50	x	3.50	11-539	85.00	72.00	35.20	-	5.00	72.00 mm	
GASOLINE				MD100467	2	1.50	x	3.80	MD100372	TOTAL CLEARANCE				7.30		
										-0.04 mm						
										Measure for CYL Clearance						
										10.00 mm from bottom of Skirt.						
										21.00 mm						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
												J05	SKIRT:	NONE		
4G64	4	2350	86.50	SWM31037ZZ	1	1.50	x	3.50	11-538	86.50	72.40	34.90	+	0.50	72.00 mm	
GASOLINE				MD085346	2	1.50	x	3.80	MD105377	TOTAL CLEARANCE				0.30		
										-0.04 mm						
										Measure for CYL Clearance						
										15.00 mm from bottom of Skirt.						
										21.00 mm						
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
												C17	SKIRT:	NONE		

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
MITSUBISHI																
4G64	4	2350	86.50	SWM31072ZZ	1	1.20	x	3.10	11-536	86.50	67.40	35.00	+	0.30		
GASOLINE				MD195872					MD1988998	TOTAL CLEARANCE				62.00 mm		
										-0.04 mm						
										Measure for CYL Clearance				22.00 mm		
										10.00 mm from bottom of Skirt.						
NONE	HEAD:	NONE														
C17	SKIRT:	NONE														
4G64	4	2350	86.50	SWM31116ZZ	1	1.20	x	3.10	11-709	86.50	67.10	35.00	-	4.30		
GASOLINE				MD195828					MD303071	TOTAL CLEARANCE				62.00 mm		
										-0.02 mm						
										Measure for CYL Clearance				22.00 mm		
										14.00 mm from bottom of Skirt.						
NONE	HEAD:	NONE														
T01	SKIRT:	NONE														
4G54	4	2555	91.10	SWM31039ZZ	1	1.50	x	3.30	DISCONTINUE	91.10						
GASOLINE				MD061258 MD076170 MD101895 MD106752					MD080394	TOTAL CLEARANCE				mm		
										mm						
										Measure for CYL Clearance				mm		
										mm from bottom of Skirt.						
NONE	HEAD:															
	SKIRT:															
G54B	4	2555	91.10	SWM31047ZZ	1	2.00	x	3.50	DISCONTINUE	91.10						
GASOLINE				MD025089 MD026835 MD026920 MD027140 MD107813 MD107818					MD024947 MD024991 MD026861	TOTAL CLEARANCE				mm		
										mm						
										Measure for CYL Clearance				mm		
										mm from bottom of Skirt.						
NONE	HEAD:															
	SKIRT:															

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION											
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN							
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER					
					T	mm		mm	OEM #	mm	mm	mm		mm							
MITSUBISHI																					
G54B	4	2555	91.10	SWM31047ZZ	1	2.00	x	3.50	11-031	91.10	77.20	35.20									
GASOLINE				MD025089 MD026835 MD026920 MD027140 MD107813 MD107818					MD026921	TOTAL CLEARANCE			75.00 mm								
										-0.04 mm											
										Measure for CYL Clearance				22.00 mm							
										10.00 mm from bottom of Skirt.											
														CirClip		SURFACE TREATMENT					
														NONE		HEAD:	NONE				
			J05		SKIRT:	NONE															
G54B	4	2555	91.10	SWM31039ZZ	1	1.50	x	3.30	11-035	91.10	78.30	36.00	+	0.30							
GASOLINE				MD061258 MD076170 MD101895 MD106752					MD071172	TOTAL CLEARANCE			79.00 mm								
										-0.04 mm											
										Measure for CYL Clearance				22.00 mm							
										25.00 mm from bottom of Skirt.											
														CirClip		SURFACE TREATMENT					
														NONE		HEAD:	NONE				
			C17		SKIRT:	NONE															

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	
					T	mm		mm	OEM #	mm	mm	mm		mm	DIAMETER	
NISSAN																
D11 (A10)	4	988	73.00	SWN30026ZZ	1	2.00	x	3.00	NA	73.00						
GASOLINE				12033-A6200 12033-B3040 12033-H6200	2	2.00	x	3.00	-	TOTAL CLEARANCE				mm		
					3					mm						
					O1	4.00	x	3.05		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT					
										NONE	HEAD:					
										NONE	SKIRT:					
A12	4	1171	75.00	SWN30073ZZ	1	2.00	x	3.20	NA	75.00						
GASOLINE				12033-H8500	2	2.00	x	3.20	-	TOTAL CLEARANCE				mm		
					3					mm						
					O1	4.00	x	3.00		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT					
										NONE	HEAD:					
										NONE	SKIRT:					
A12	4	1189	73.00	SWN30026ZZ	1	2.00	x	3.00	DISCONTINUE	73.00						
GASOLINE				12033-A6200 12033-B3040 12033-H6200	2	2.00	x	3.00	-	TOTAL CLEARANCE				mm		
					3					mm						
					O1	4.00	x	3.05		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT					
										NONE	HEAD:					
										NONE	SKIRT:					
A13	4	1270	73.00	SWN30026ZZ	1	2.00	x	3.00	DISCONTINUE	73.00						
GASOLINE				12033-A6200 12033-B3040 12033-H6200	2	2.00	x	3.00	-	TOTAL CLEARANCE				mm		
					3					mm						
					O1	4.00	x	3.05		Measure for CYL Clearance					mm	
					O2					mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT					
										NONE	HEAD:					
										NONE	SKIRT:					

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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+ DIST.	LENGTH	DIAMETER	
					T	mm		mm	OEM #	mm	mm	mm	mm			
NISSAN																
A15	4	1487	76.00	SWN30052ZZ	1	1.20	x	3.10	11-049	76.00	65.00	30.00	-	6.50		
GASOLINE				12033-H7680 12033-H9800 12033-H9810 12033-H9915 12033-H9918	O1	4.00	x	3.30	12010-H9802	TOTAL CLEARANCE				63.00 mm	SURFACE TREATMENT	
										-0.04 mm						
										Measure for CYL Clearance						
										10.00 mm						
										from bottom of Skirt.						
										CirClip		HEAD:	NONE			
										NONE		SKIRT:	NONE			
										T01						
A15	4	1487	76.00	SWN30052ZZ	1	1.20	x	3.10	11-3208	76.00	65.00	30.00	-	2.80		
GASOLINE				12033-H7680 12033-H9800 12033-H9810 12033-H9915 12033-H9918	O1	4.00	x	3.30	12010-H9704	TOTAL CLEARANCE				63.00 mm	SURFACE TREATMENT	
										-0.04 mm						
										Measure for CYL Clearance						
										10.00 mm						
										from bottom of Skirt.						
										CirClip		HEAD:	NONE			
										NONE		SKIRT:	NONE			
										T01						
J15	4	1500	78.00	SWN30033ZX	1	2.00	x	2.85	11-248	78.00	79.30	39.80				
GASOLINE				12033-B3030 12033-B8200 12033-01W60 12033-01W61 12033-01W62	O1	4.00	x	3.00	12010-01W02 12010-01W12 12010-E3002	TOTAL CLEARANCE				66.50 mm	SURFACE TREATMENT	
										-0.04 mm						
										Measure for CYL Clearance						
										0.00 mm						
										from bottom of Skirt.						
										CirClip		HEAD:	NONE			
										NONE		SKIRT:	NONE			
										J05						
H20	4	1982	87.20	SWN30069ZZ	1	2.00	x	4.05	11-247	87.20	84.00	41.00	-	1.60		
GASOLINE				12033-R9000 12033-Y4460 12033-R9023	O1	4.00	x	3.85	12010-74001 12010-R9001	TOTAL CLEARANCE				73.00 mm	SURFACE TREATMENT	
										-0.04 mm						
										Measure for CYL Clearance						
										0.00 mm						
										from bottom of Skirt.						
										CirClip		HEAD:	NONE			
										J05		SKIRT:	NONE			

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	T	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	DIAMETER	
NISSAN																
SD22	4	2164	83.00	NA	1	2.50	x		11-3249	83.00	90.00	48.00	-	0.60	71.00 mm	
DIESEL					2	2.00	x		12010-R8110	TOTAL CLEARANCE				2.00		
					3	2.00	x			-0.10 mm						
					O1	4.00	x			Measure for CYL Clearance						
					O2					16.00 mm from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
													HEAD:	NONE		
												J05	SKIRT:	NONE		
SD22	4	2164	83.00	SDN31027ZZ	1	2.50	x	3.50	11-068	83.00	90.00	48.00	-	2.00	71.00 mm	
DIESEL					2	2.00	x	3.40	12010-36W10	TOTAL CLEARANCE				0.50		
					3					0.10 mm						
					O1	4.50	x	2.80		12010-R8111	Measure for CYL Clearance					
					O2						15.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT			
													HEAD:	NONE		
												C17	SKIRT:	NONE		
SD22	4	2164	83.00	SJN31003ZZ	1	2.50	x	3.50	DISCONTINUE	83.00					mm	
DIESEL					2	2.00	x	3.40	12010-J5312	TOTAL CLEARANCE				mm		
					3	2.00	x	3.40		mm						
					O1	4.50	x	3.90		Measure for CYL Clearance						
					O2	4.50	x	3.40		mm from bottom of Skirt.						
												CirClip	SURFACE TREATMENT			
													HEAD:			
													SKIRT:			
Z24	4	2389	89.00	SWN30059ZZ	1	1.50	x	3.30	11-070	89.00	70.50	34.00	-	4.00	66.50 mm	
GASOLINE					2	1.50	x	3.90	12010-30W01	TOTAL CLEARANCE				21.00 mm		
					3					-0.04 mm						
					O1	4.00	x	3.25		12010-30W11	Measure for CYL Clearance					
					O2						20.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT			
												NONE	HEAD:	NONE		
												J05	SKIRT:	NONE		

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
NISSAN																
Z24i	4	2389	89.00	SWN30085ZZ	1	2.00	x	3.10	11-238	89.00	70.40	33.80	-	4.00		
GASOLINE				12033-83W00 12033-13G10	2	1.50	x	3.90	12010-83W01	TOTAL CLEARANCE					66.50 mm	
					3					-0.04 mm						
					O1	4.00	x	3.25	12010-83W11	Measure for CYL Clearance					21.00 mm	
					O2					10.00 mm from bottom of Skirt.						
												NONE	HEAD:	NONE		
												C17	SKIRT:	NONE		
H25	4	2472	92.00	SWN30069ZZ	1	2.00	x		11-251	92.00	71.00	36.00	-	7.30		
GASOLINE					2	2.50	x		12010-60K00	TOTAL CLEARANCE					72.00 mm	
					3					-0.04 mm						
					O1	4.00	x			Measure for CYL Clearance					21.00 mm	
					O2					27.00 mm from bottom of Skirt.						
												NONE	HEAD:	NONE		
												J05	SKIRT:	NONE		
QR25DE	4	2488	89.00	SWN30140ZZ	1	1.20	x	3.10	11-881	89.00	61.50	32.90	+	5.90		
GASOLINE				12033-EA000 12033-EA00B	2	1.20	x	3.80	A2010-EA000	TOTAL CLEARANCE					57.00 mm	
					3					-0.03 mm						
					O1	2.50	x	2.85	A2010-EA001	Measure for CYL Clearance					19.99 mm	
					O2					9.50 mm from bottom of Skirt.						
												T01	HEAD:	ANODIZED		
													SKIRT:	MOLY		
SD25	4	2488	89.00	SDN31023ZZ	1	2.50	x	3.50	NA	89.00						
DIESEL				12033-L2000 12033-L2002 12033-L2003 12033-L2004	2	2.00	x	3.40		TOTAL CLEARANCE					mm	
					3	2.00	x	3.40		mm						
					O1	4.50	x	3.90		Measure for CYL Clearance					mm	
					O2	4.50	x	3.40		mm from bottom of Skirt.						
													HEAD:			
													SKIRT:			

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	T	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ mm	DIST. mm	LENGTH	
NISSAN																
SD33	6	3246	83.00	SJN31004ZZ	1	2.50	x	3.50	NA	83.00						
DIESEL					2	2.00	x	3.40	-	TOTAL CLEARANCE					mm	
				12033-61500	3	2.00	x	3.40		mm						
				12033-61502	O1	4.50	x	3.90		Measure for CYL Clearance						
				12033-61503	O2	4.50	x	3.40		mm					mm	
				12033-J2201						from bottom of Skirt.						
				12033-J2202						CirClip	SURFACE TREATMENT					
				12033-J2203							HEAD:					
			12033-J2204					SKIRT:								
SD33T	6	3246	83.00	SDN31028ZZ	1	2.50	x	3.50	DISCONTINUE	83.00						
DIESEL					2	2.00	x	3.40	12010-C8602 12010-C8701	TOTAL CLEARANCE					mm	
				12033-C8704	3					mm						
					O1	4.00	x	2.8		Measure for CYL Clearance						
					O2					mm					mm	
										from bottom of Skirt.						
								CirClip	SURFACE TREATMENT							
									HEAD:							
								SKIRT:								
VQ40DE	6	3954	95.50	SWN30131ZZ	1	1.20	x	3.45	11-878	95.50	55.10	31.60	-	2.10		
GASOLINE					2	1.20	x	4.10	12010-EA200 12010-EA20B	TOTAL CLEARANCE					58.00 mm	
				12033-8J100	3					-0.03 mm						
					O1	2.50	x	2.75		Measure for CYL Clearance						
					O2					10.00 mm					21.99 mm	
										from bottom of Skirt.						
								CirClip	SURFACE TREATMENT							
									HEAD:		ANODIZED					
								SKIRT:		MOLY						
								T01								
VQ40DE	6	3954	95.50	SWN30191ZZ	1	1.20	x	3.10	NA	95.50						
GASOLINE					2	1.20	x	4.10	12010-EA21B	TOTAL CLEARANCE					mm	
				12033-JP00A	3					mm						
					O1	2.00	x	2.60		Measure for CYL Clearance						
					O2					mm					mm	
										from bottom of Skirt.						
								CirClip	SURFACE TREATMENT							
									HEAD:							
								SKIRT:								
								T01								

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
NISSAN																
P40	6	3956	85.69	SWN3002ZZ	1	2.50	x	3.70	NA	85.69						
PPU240					2	2.50	x	3.70		TOTAL CLEARANCE				mm		
PPU241				12033-58003	3					mm						
GASOLINE				12033-58004	O1	4.76	x	4.05		Measure for CYL Clearance				mm		
				12033-58005	O2					mm				mm		
				12033-C6000						from bottom of Skirt.						
				12033-C6011										SURFACE TREATMENT		
														HEAD: SKIRT:		
TB42	6	4169	96.00	SWN3012ZZ	1	2.00	x	3.30	11-3299	96.00	90.00	40.50			76.00 mm	
GASOLINE					2	2.00	x	4.20		TOTAL CLEARANCE						
				12033-03J00	3				12010-03J61	-0.04 mm						
					O1	4.00	x	3.25		Measure for CYL Clearance				23.00 mm		
					O2					20.00 mm				from bottom of Skirt.		
														SURFACE TREATMENT		
													HEAD: NONE SKIRT: NONE			
TD42	6	4169	96.00	SDN3105ZZ	1	2.50	x	4.00	DISCONTINUE	96.00					mm	
DIESEL					2	2.00	x	4.00		TOTAL CLEARANCE				mm		
				12033-06J10	3				12010-43G02	mm						
				12033-06J11	O1	4.00	x	4.15	12010-43G12	Measure for CYL Clearance				mm		
					O2					mm				from bottom of Skirt.		
														SURFACE TREATMENT		
													HEAD: SKIRT:			
TD42	6	4169	96.00	SDN3105ZX	1	2.50	x	4.00	DISCONTINUE	96.00					mm	
DIESEL					2	2.00	x	4.00		TOTAL CLEARANCE				mm		
				12033-06J10	3				12010-43G02	mm						
				12033-06J11	O1	4.00	x	4.15	12010-43G12	Measure for CYL Clearance				mm		
					O2					mm				from bottom of Skirt.		
														SURFACE TREATMENT		
													HEAD: SKIRT:			

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CY L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL	L			OEM #					OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
NISSAN															
VK56DE	8	5552	98.00	SWN30149ZZ	1	1.50	x	3.45	11-879	98.00	52.00	31.60	-	4.20	59.60 mm
GASOLINE				12033-7S001 12033-ZE00A	2	1.50	x	4.30	A2010-7S000	TOTAL CLEARANCE					
					3					-0.03 mm					
					O1	2.50	x	2.60		Measure for CYL Clearance					
					O2					6.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	ANODIZED	
												T03	SKIRT:	MOLY	
VK56DE	8	5552	98.00	SWN30149ZZ	1	1.50	x	3.45	11-879	98.00	52.00	31.60	-	4.20	59.60 mm
GASOLINE				12033-7S001 12033-ZE00A	2	1.50	x	4.30	A2010-7S000	TOTAL CLEARANCE					
					3					-0.03 mm					
					O1	2.50	x	2.60		Measure for CYL Clearance					
					O2					6.00 mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:	ANODIZED	
												T03	SKIRT:	MOLY	
FD6	6	5654	100.00	SDN31029ZZ	1	3.00	x	4.20	DISCONTINUE	100.00					mm
DIESEL				12040-Z5028	2	2.00	x	4.20	12010-Z5576	TOTAL CLEARANCE					
					3					mm					
					O1	4.50	x	4.50		Measure for CYL Clearance					
					O2					mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:		
													SKIRT:		
FD6T	6	5654	100.00	SDN31026ZZ	1	3.00	x	4.20	DISCONTINUE	100.00					mm
DIESEL				12040-Z5528 12033-Z5504	2	2.00	x	4.20	12010-Z5600	TOTAL CLEARANCE					
					3					mm					
					O1	4.50	x	4.50		Measure for CYL Clearance					
					O2					mm from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
													HEAD:		
													SKIRT:		

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	T	B mm	x	T mm	#	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	DIAMETER	
TOYOTA																
3P	4	1345	76.60	SWT10009ZZ	1	2.00	x	3.50	11-244	76.60	76.00	38.00				
				13011-23030	2	2.00	x	3.50	13101-23010	TOTAL CLEARANCE				65.00 mm		
					3					-0.04 mm						
					O1	4.00	x	3.30	13101-23011	Measure for CYL Clearance				20.00 mm		
					O2					13.50 mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT		HEAD: NONE	SKIRT: NONE		
												C17				
4P	4	1345	76.60	SWT10009ZZ	1	2.00	x	3.50	11-245	76.60	71.00	33.00				
				13011-23030	2	2.00	x	3.50	13101-78001	TOTAL CLEARANCE				65.00 mm		
					3					-0.04 mm						
					O1	4.00	x	3.30	13101-96001	Measure for CYL Clearance				20.00 mm		
					O2					0.00 mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT		HEAD: NONE	SKIRT: NONE		
												C17				
5K	4	1486	80.50	SWT10099ZZ	1	1.50	x	3.10	11-3729	80.50	80.50	36.00	3.00			
				13011-13040 13011-13050 13011-13090	2	1.50	x	3.65	13101-13040	TOTAL CLEARANCE				61.00 mm		
					3					-0.04 mm						
					O1	4.00	x	3.25	13101-13040	Measure for CYL Clearance				18.00 mm		
					O2					29.00 mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT		HEAD: NONE	SKIRT: NONE		
												C17				
2R	4	1490	78.00	SWT10014ZZ	1	2.00	x	3.70	11-243	78.00	78.00	39.00				
				13011-31010 13011-31030 13011-31040	2	2.50	x	3.60	13101-31010	TOTAL CLEARANCE				75.00 mm		
					3					-0.04 mm						
					O1	4.00	x	3.85	13101-31011	Measure for CYL Clearance				22.00 mm		
					O2					0.00 mm from bottom of Skirt.						
										CirClip	SURFACE TREATMENT		HEAD: NONE	SKIRT: NONE		
												T01				

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION						
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN		
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH	DIAMETER
					T	mm		mm	OEM #	mm	mm	mm		mm		
TOYOTA																
5R	4	1944	88.00	SWT10069ZZ	1	2.00	x	4.20	11-246	88.00	85.40	39.00				
GASOLINE				13011-44043	2	2.50	x	4.20	13101-44015	TOTAL CLEARANCE					75.00 mm	
					3				13101-44016	-0.04 mm						
					O1	4.00	x	3.30	Measure for CYL Clearance					22.00 mm		
					O2				0.00 mm from bottom of Skirt.							
															CirClip	SURFACE TREATMENT
										J05	HEAD:	NONE				
										J05	SKIRT:	NONE				
1TR-FE	4	1998	86.00	SDT10185ZZ	1	1.20	x	2.70	NA	86.00						
GASOLINE				13011-75100	2	1.20	x	3.10		TOTAL CLEARANCE					mm	
					3				mm							
					O1	2.00	x	2.75	Measure for CYL Clearance					mm		
					O2				mm from bottom of Skirt.							
															CirClip	SURFACE TREATMENT
											HEAD:					
											SKIRT:					
4Y	4	2208	91.00	SWT10111ZZ	1	1.50	x	3.30	11-283	91.00	65.00	35.00	-	6.20		
GASOLINE				13011-73020 13011-73030 13011-73040 13011-73042	2	1.50	x	3.95	11-637	TOTAL CLEARANCE					66.00 mm	
					3				13101-73031	-0.04 mm						
					O1	4.00	x	3.15	Measure for CYL Clearance					22.00 mm		
					O2				31.00 mm from bottom of Skirt.							
															CirClip	SURFACE TREATMENT
										NONE	HEAD:	NONE				
										T01	SKIRT:	NONE				
4Y	4	2208	91.00	SWT10111ZZ	1	1.50	x	3.30	11-637	91.00	65.00	35.00	-	7.10		
GASOLINE				13011-73020 13011-73030 13011-73040 13011-73042	2	1.50	x	3.95	13101-73030	TOTAL CLEARANCE					66.00 mm	
					3				-0.03 mm							
					O1	4.00	x	3.15	Measure for CYL Clearance					22.00 mm		
					O2				15.50 mm from bottom of Skirt.							
															CirClip	SURFACE TREATMENT
										NONE	HEAD:	NONE				
										T03	SKIRT:	NONE				

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	CY	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL	L			OEM #	T	B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
TOYOTA															
2J	4	2481	88.00	SDT10045ZX	1	2.54	x	3.80	NA	88.00					
DIESEL				13011-48013 13011-48021	2	2.50	x	3.80	-	TOTAL CLEARANCE				mm	
					3	2.50	x	3.80		mm					
					O1	4.00	x	4.20		Measure for CYL Clearance					
					O2					mm					
										from bottom of Skirt.					
															SURFACE TREATMENT
															HEAD:
															SKIRT:
2J	4	2481	88.00	SJT10050ZZ	1	2.54	x	3.80	DISCONTINUE	88.00					
DIESEL				13011-48022 13011-48023 13011-48030	2	2.50	x	3.80	13081-48014 13081-48015	TOTAL CLEARANCE				mm	
					3					mm					
					O1	4.00	x	4.20		Measure for CYL Clearance					
					O2					mm					
										from bottom of Skirt.					
															SURFACE TREATMENT
															HEAD:
															SKIRT:
2KD-FTV	4	2494	92.00	SDT10180ZZ	1	2.00	x	2.90	NA	92.00					
DIESEL				13011-30030 13011-30031 13011-30060	2	1.50	x	2.90	-	TOTAL CLEARANCE				mm	
					3					mm					
					O1	3.00	x	3.00		Measure for CYL Clearance					
					O2					mm					
										from bottom of Skirt.					
															SURFACE TREATMENT
															HEAD:
															SKIRT:
2KD-VNT	4	2494	92.00	SDT10207ZZ	1	2.0K	x	2.90	NA	92.00					
DIESEL				13011-30120	2	1.50	x	2.90	-	TOTAL CLEARANCE				mm	
					3					mm					
					O1	3.00	x	3.00		Measure for CYL Clearance					
					O2					mm					
										from bottom of Skirt.					
															SURFACE TREATMENT
															HEAD:
															SKIRT:

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION												
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN								
FUEL	L			OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+ DIST.	LENGTH								
					T	mm		mm	OEM #	mm	mm	mm	mm	DIAMETER								
TOYOTA																						
2TR-FE	4	2693	95.00	SDT10193ZY	1	1.20	x	2.90	11-880	95.00	59.30	39.30	-	8.60	62.00 mm							
GASOLINE				13011-75110					13101-75130	TOTAL CLEARANCE				-		4.50						
										-0.03 mm												
										Measure for CYL Clearance				-	2.22	10.00 mm from bottom of Skirt.				22.00 mm		
																				CirClip	SURFACE TREATMENT	
										C17	HEAD:	ANODIZED										
											SKIRT:	MOLY										
2TR-FFV	4	2693	95.00	SDT10213ZZ	1	1.20	x	2.90	NA	95.00					mm							
GASOLINE				13011-75150						TOTAL CLEARANCE												
										mm												
										Measure for CYL Clearance						mm				mm		
																				CirClip	SURFACE TREATMENT	
											HEAD:											
											SKIRT:											
5P	4	2771	93.00	SWT10048ZZ	1	2.50	x	3.80	DISCONTINUE	93.00					mm							
GASOLINE				13011-96102					13101-96101	TOTAL CLEARANCE												
										mm												
										Measure for CYL Clearance						mm				mm		
																				CirClip	SURFACE TREATMENT	
											HEAD:											
											SKIRT:											
1KD-FTV	4	2982	96.00	SDT10175ZY	1	2.00	x	3.35	NA	96.00					mm							
DIESEL				13011-30020 13011-30021 13011-30022 13011-30040 13011-30050 13011-30051						TOTAL CLEARANCE												
										mm												
										Measure for CYL Clearance						mm				mm		
																				CirClip	SURFACE TREATMENT	
																					HEAD:	
											SKIRT:											

FORKLIFT & MEDIUM SIZE DIESEL ENGINES

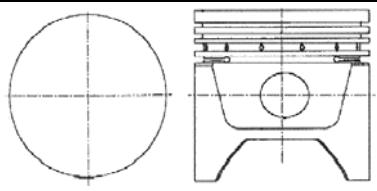


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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L			OEM #	S	B	x	T	OEM #	BORE	LENGTH	COMP.	+ DIST.	LENGTH	
					T	mm		mm		mm	mm	mm	mm	DIAMETER	
TOYOTA															
5L	4	2985	99.50	SDT10167ZZ	1	2.00	x	3.60	NA	99.50					
5L-E				13011-54130	2	1.50	x	3.70	-	TOTAL CLEARANCE				mm	
DIESEL					3						mm				
					O1	4.00	x	4.35			Measure for CYL Clearance				mm
					O2						mm from bottom of Skirt.				
														CirClip	SURFACE TREATMENT
															HEAD:
															SKIRT:
H	3	3576	88.00	SJT10051ZZ	1	2.54	x	3.80	DISCONTINUE	88.00					
				13011-47022 13011-47023	2	2.50	x	3.80	13081-47012 13081-47013	TOTAL CLEARANCE				mm	
DIESEL					3						mm				
					O1	4.00	x	4.20			Measure for CYL Clearance				mm
					O2						mm from bottom of Skirt.				
														CirClip	SURFACE TREATMENT
															HEAD:
															SKIRT:
F	6	3878	90.00	SWT10026ZZ	1	3.00	x	3.70	11-171	90.00	95.50	47.50			
				13011-69021	2	3.00	x	3.70	13101-60011	TOTAL CLEARANCE				80.00 mm	
GASOLINE					3						-0.04 mm				
					O1	4.00	x	3.90			Measure for CYL Clearance				25.15 mm
					O2	4.00	x	3.70			0.00 mm from bottom of Skirt.				
														CirClip	SURFACE TREATMENT
														NONE	HEAD: NONE
														J05	SKIRT: NONE
F	6	3878	90.00	SWT10044ZZ	1	2.00	x	4.00	NA	90.00					
				13011-60040	2	2.50	x	4.00	-	TOTAL CLEARANCE				mm	
GASOLINE					3						mm				
					O1	4.00	x	4.00			Measure for CYL Clearance				mm
					O2	4.00	x	4.00			mm from bottom of Skirt.				
														CirClip	SURFACE TREATMENT
														NONE	HEAD:
															SKIRT:



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ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN			
FUEL	L	CC	mm	OEM #	S	B	x	T	#	BORE	LENGTH	COMP.	+	DIST.	LENGTH		
					T	mm		mm	OEM #	mm	mm	mm		mm	DIAMETER		
TOYOTA																	
2H	6	3980	91.00	SDT10075ZZ	1	2.54	x	4.00	NA	91.00			-				
DIESEL				13011-68010 13011-68020 13011-96601	2	2.50	x	4.00	-	TOTAL CLEARANCE				mm			
					3					mm							
					O1	4.00	x	4.20		Measure for CYL Clearance				mm			
					O2					mm from bottom of Skirt.							
										CirClip		SURFACE TREATMENT		HEAD:			
												SKIRT:					
2F	6	4230	94.00	SWT10049ZZ	1	2.00	x	4.20	11-174	94.00	102.50	47.60	+	6.50			
GASOLINE				13011-76012	2	2.50	x	4.20	13101-61020	TOTAL CLEARANCE				72.00 mm			
					3					-0.04 mm							
					O1	4.00	x	3.85		Measure for CYL Clearance				25.15 mm			
					O2					26.30 mm from bottom of Skirt.							
										CirClip		SURFACE TREATMENT		HEAD:		NONE	
												SKIRT:		NONE			
										T01							
2F	6	4230	94.00	SWT10049ZZ	1	2.00	x	4.20	11-175	94.00	95.50	47.58	+	0.40			
GASOLINE				13011-76012	2	2.50	x	4.20	13101-61010 13101-61011	TOTAL CLEARANCE				71.80 mm			
					3					-0.03 mm							
					O1	4.00	x	3.85		Measure for CYL Clearance				25.15 mm			
					O2					15.00 mm from bottom of Skirt.							
										CirClip		SURFACE TREATMENT		HEAD:		NONE	
												SKIRT:		NONE			
										C17							

FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	CYCLE	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN	
FUEL	L			OEM #	S	B	x	T	OEM #	BORE	LENGTH	COMP.	+ DIST.	LENGTH	
					T	mm		mm		mm	mm	mm	mm	DIAMETER	
UD TRUCKS															
J05E	4	5123	112.00	SDH20108ZZ	1	2.50	x	4.15	NA	112.00					
DIESEL				13011-E0350	2	2.00	x	4.30	-	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance				mm	
					O2		x			mm				mm	
										from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
														HEAD:	
														SKIRT:	
J08E	6	7684	112.00	SDH20102ZY	1	2.50	x	4.15	NA	112.00					
DIESEL				13011-4040A	2	2.00	x	4.30	S130B-E0390	TOTAL CLEARANCE				mm	
					3		x			mm					
					O1	4.00	x	4.35		Measure for CYL Clearance				mm	
					O2		x			mm				mm	
										from bottom of Skirt.					
												CirClip	SURFACE TREATMENT		
														HEAD:	
														SKIRT:	

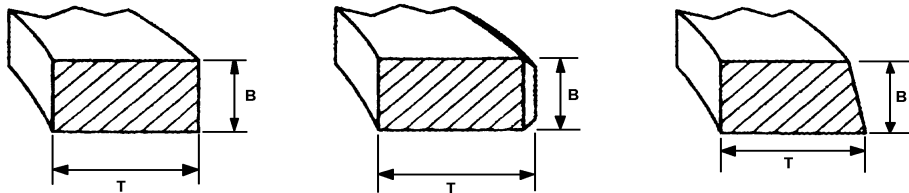
EXPORT PISTON RINGS



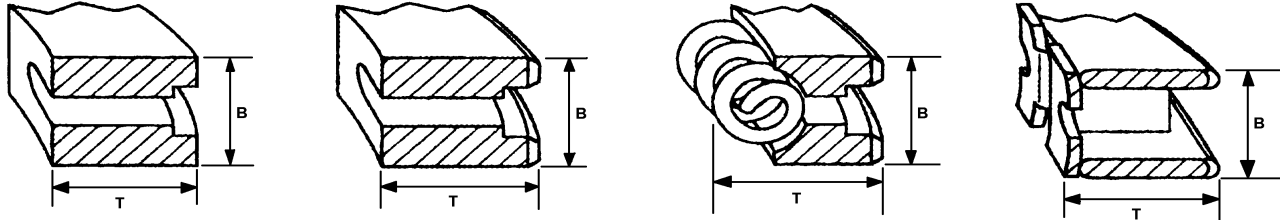
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ENGINE NUMBER	C Y L	E I N G I N E SIZE CC	D I A. mm	C M B	B mm	x	T mm	N P R P I S T O N R I N G #	P I S T O N R I N G R E F E R E N C E #	V E H I C L E N A M E
1	2	3	4	5			10	11	12	13
				6						
				7						
				8						
				9						

Compression Ring: B (Width) x T (Radial wall Thickness).



Oil Control Ring: B (Width) x T (Radial wall Thickness).



- 1: Engine Number.
- 2: Number of Cylinder.
- 3: Engine Size CC.
- 4: Cylinder Diameter.
- 5: 1 = 1st Compression Ring - B = Width (h1) x T = Radial Wall Thickness (a1).
- 6: 2 = 2nd Compression Ring - B = Width (h1) x T = Radial Wall Thickness (a1).
- 7: 3 = 3rd Compression Ring - B = Width (h1) x T = Radial Wall Thickness (a1).
- 8: O1 = 1st Oil Control Ring - B = Width (h1) x T = Radial Wall Thickness (a1).
- 9: O2 = 2nd Oil Control Ring - B = Width (h1) x T = Radial Wall Thickness (a1).
- 10: NPR's Piston Ring Part Number.
- 11: Piston Ring specification. (ex. Series Code, Surface Treatment, etc.).
- 12: Reference Number.
- 13: Vehicle Name.

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ASIA GASOLINE ENGINE										
CD800 JADE	3	600	70.000	1	1.200	x	2.500	SWA20001ZZ	AA100-11-120	TOWNER
				2	1.500	x	3.000			
				O1	2.800	x	2.850	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ASIA DIESEL ENGINE										
EM100	6	9419	124.000	1	2.806	x	4.450	SDA20002ZX	K4Y1-11-SCO	TRADE FRONTIER 2.5
				2	2.500	x	5.000			
				3	3.000	x	5.000			
				O1	3.000	x	3.250			
SH 3.6L	4	3581 3600	100.000	1	2.000	x	3.650	SDK30003ZZ	K4Y1-11-SCO	TRADE FRONTIER 2.5
				2	2.000	x	4.200			
				O1	3.000	x	3.250			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
AUDI GASOLINE ENGINE										
079.D	8	4163	84.500	1 2 O1	1.200 1.500 2.000	x x x		TBA NEW # (SWE50918)	06E 198 151 B 077 198 151 L 079 103 171 AH	
AAD, ABA ABK, ADY	4	1984	82.500	1 2 O1	1.200 1.500 2.000	x x x	3.100 3.500 2.800	SWL03461ZZ NEW # (SWE50524)	06D 198 151 G 06D 198 151 G 06F 198 151 A	
AAH, AFC AHA, AVK BGN	6	2771	82.500	1 2 O1	1.200 1.500 2.000	x x x	3.100 3.500 2.800	SWL03296AA 6CYL NEW # (SWE50526)	06A 198 151 C 06C 198 151 B	
AEB ABK, ADY	4	1781	81.000	1 2 O1	1.500 1.750 2.000	x x x	3.100 3.500 2.800	SWL03456AA NEW # (SWE50574)	058 198 151 B 06B 198 151 B	
APB	6	2671	81.000	1 2 O1	1.200 1.500 2.000	x x x	3.100 3.500 2.800	SWL03340AA 6CYL NEW # (SWE50576)	058 198 151 B	
AUA, BBY	4	1390	76.500	1 2 O1	1.200 1.500 2.500	x x x	2.700 3.100 2.800	SWL03140AA NEW #		A2
AUK	6	3123	84.500	1 2 O1	1.200 1.500 2.000	x x x		TBA NEW # (SWE50916)	06E 198 151 B	
MG	4	1786	84.500	1 2 O1	1.500 1.750 3.000	x x x	3.100 3.300 2.900	SWL02405ZZ NEW # (SWE50374)	026 198 151 A	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
420A	4	1996	87.500	1	1.200	x	3.450	SWM31120ZZ	4741401	
				2	1.200	x	4.000		M04741401	
				O1	3.000	x	2.900	777		
4G15	4	1468	75.500	1	1.500	x	2.850	SWM31063ZZ	MD074725	
				2	1.500	x	3.300			
				O1	4.000	x	3.250	777		
4G15	4	1468	75.500	1	1.200	x	2.900	SWM31077ZZ	MD180804	
				2	1.500	x	3.300	SWM31076ZZ		
				O1	3.000	x	2.800	777		
4G37	4	1755	80.600	1	1.500	x	3.500	SWM31041ZZ	MD040465	
				2	1.500	x	3.700			
				O1	4.000	x	3.250	777		
4G61	4	1597	82.300	1	1.200	x	3.100	SWM31049ZZ	MD133495	
				2	1.500	x	3.800			
				O1	3.000	x	2.850	777		
4G63	4	1997	85.000	1	1.200	x	3.100	SWM31048ZZ	MD144245	
				2	1.500	x	3.800		MD140923	
				O1	3.000	x	2.850	777		
4G63	4	1997	85.000	1	1.200	x	3.100	SWM31071ZZ	MD176437	
				2	1.500	x	3.800		MD195867	
				O1	3.000	x	2.550	777		
4G63	4	1997	85.000	1	1.200	x	3.100	SWM31103ZZ	MD313405	
				2	1.500	x	3.800			
				O1	2.800	x	2.550	777		
4G64	4	2350	86.500	1	1.500	x	3.300	SWM31037ZZ	MD085346	
				2	1.500	x	3.800			
				O1	4.000	x	3.050	777		
4G64	4	2350	86.500	1	1.200	x	3.100	SWM31116ZZ	MD195828	
				2	1.500	x	3.800			
				O1	2.800	x	2.550	777		
4G93	4	1834	81.000	1	1.200	x	3.200	SWM31079ZZ	MD173206	
				2	1.200	x	3.600			
				O1	2.800	x	2.700	777		
6G72	V6	2972	91.100	1	1.200	x	3.300	SWM31078ZZ	MD158334	
				2	1.500	x	3.800		MD301716	
				O1	3.000	x	2.900	777	MD329755	
6G72	V6	2972	91.100	1	1.500	x	3.300	SWM31080ZZ	MD104936	
				2	1.500	x	3.800		MD104939	
				O1	4.000	x	3.250	777		
6G73	V6	2497	83.500	1	1.200	x	2.850	SWC10009ZZ	MD310258	
				2	1.500	x	3.500			
				O1	3.000	x	2.850	777		
A588	4	1996	87.500	1	1.200	x	3.450	SWM31120ZZ	M04741401	
				2	1.200	x	4.000		4741401	
				O1	3.000	x	2.900	777		
AMC 150	4	2464	98.430	1	1.500	x	3.500	SWC10011ZX	4798324	
				2	1.500	x	4.500			
				O1	4.000	x	3.200	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
AMC 150	4	2464	98.425	1	1.984	x	3.500	SWC10014ZY	4762461	
				2	1.984	x	4.550		83501987	
				O1	4.763	x	4.150	777		
AMC 242	6	3966	98.425	1	1.984	x	3.500	SWC10014ZY 6CYL	4762462	
				2	1.984	x	4.550		83501987	
				O1	4.763	x	4.150	777		
EDT 2.4	4	2429	87.500	1	1.200	x	2.900	SWC10010ZY	5093441AA	
				2	1.500	x	4.000			
				O1	2.500	x	2.800	777		
EDZ 2.4	4	2429	87.500	1	1.200	x	2.900	SWC10004ZZ	4897024AA	
				2	1.500	x	3.900			
				O1	3.000	x	2.550	777		
EDZ 2.4 EDZ Power Tech 2.4	4	2429	87.500	1	1.500	x	3.300	SWC10007ZZ	4773005	
				2	1.500	x	4.000		5073524AA	
				O1	3.000	x	2.550	777		
EER 2.7	V6	2736	86.000	1	1.500	x	3.450	SWC10001ZZ	4897027AA	
				2	1.500	x	4.000			
				O1	3.000	x	3.000	777		
EGA 3.3	V6	3293	93.000	1	1.500	x	1.500	SWC10002ZZ	5241051	
				2	1.500	x	1.500		5241052	
				O1	3.000	x	3.000	777	4897033AA	
EGG 3.5	V6	3518	96.000	1	1.200	x	3.500	SWC10013ZZ	4897035AA	
				2	1.500	x	4.000			
				O1	3.000	x	3.450	777		
EGH 3.8	V6	3802	96.000	1	1.500	x	3.500	SWC10005ZZ	4626388	
				2	1.500	x	4.000			
				O1	3.000	x	3.200	777		
EGH 3.8	V6	3778	96.000	1	1.200	x	3.500	SWC10015ZX	4773023	
				2	1.500	x	4.000		68001386AA	
				O1	3.000	x	3.200	777		
EGJ 3.5	V6	3507	96.000	1	1.500	x	3.500	SWC10005ZZ	4626660	
				2	1.500	x	4.000			
				O1	3.000	x	3.200	777		
EGJ 3.5	V6	3523	96.000	1	1.200	x	3.500	SWC10015ZX	4773023	
				2	1.500	x	4.000			
				O1	3.000	x	3.200	777		
EGQ 4.0 EGS 4.0	V6	3952	96.000	1	1.200	x	3.500	SWC10013ZZ	4897035AB	
				2	1.500	x	4.000			
				O1	3.000	x	3.450	777		
EGW 3.2	V6	3195	92.000	1	1.200	x	1.200	SWC10008ZZ	4897032AA	
				2	1.500	x	1.500			
				O1	3.000	x	3.000	777		
EZB HEMI 5.7	V8	5654	99.500	1	1.500	x	3.500	SWC10016ZX	5086002AA	
				2	1.500	x	4.500			
				O1	3.000	x	2.850	777		
G12B	4	1410	74.000	1	1.500	x	3.300	SWM31027ZZ	MD031700	
				2	1.500	x	3.300			
				O1	4.000	x	3.250	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
G15B	4	1468	75.500	1	1.500	x	2.850	SWM31063ZZ	MD074725	
				2	1.500	x	3.300	777		
				O1	4.000	x	3.250			
G32B	4	1597	76.900	1	2.000	x	3.500	SWM31005ZZ	MD110632	
				2	2.000	x	3.500	777		
				O1	4.000	x	3.800			
G32B	4	1597	76.900	1	1.500	x	3.100	SWM31043ZZ	MD012765	
				2	1.500	x	3.500	777		
				O1	4.000	x	3.900			
G52B	4	1994	84.000	1	2.000	x	3.600	SWM30074ZZ	MD021070	
				2	2.000	x	3.600	777		
				O1	4.000	x	3.750			
G54B	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	MD061258 MD076170	
				2	1.500	x	3.800	777		
				O1	4.000	x	3.250			
G54B	4	2555	91.100	1	2.000	x	1.500	SWM31047ZZ	MD025080	
				2	2.000	x	1.500	777		
				O1	4.000	x	3.250			
G63B	4	1997	85.000	1	2.000	x	3.300	SWM31043ZZ	MD040640	
				2	2.000	x	3.700	SWM31013ZY		
				O1	4.000	x	3.250	777		
G63B	4	1997	85.000	1	1.500	x	3.500	SWM31044ZZ	MD100467	
				2	1.500	x	3.800	SWM31034ZZ		
				O1	4.000	x	3.300	777		
G64B	4	2350	86.500	1	1.500	x	3.300	SWM31037ZZ	MD085346	
				2	1.500	x	3.800	777		
				O1	4.000	x	3.050			
GEMA 1.8	4	1798	86.000	1	1.200	x	3.500	SWG30042ZZ	5191418AB	
				2	1.200	x	3.600	777		
				O1	2.000	x	2.450			
GEMA 2.4	4	2359	88.000	1	1.200	x	3.050	SWG30041ZZ	5191424AA	
				2	1.200	x	3.600	777		
				O1	2.000	x	2.450			
HEMI 5.7	V8	5654	99.500	1	1.500	x	3.500	SWC10016ZX	5086002AA	
				2	1.500	x	4.500	777		
				O1	3.000	x	2.850			
K 2.2 K 2.2T	4	2212	87.500	1	1.500	x	3.800	SWC10003ZZ	4626636 4626575 4411977	
				2	1.500	x	4.000	777		
				O1	4.000	x	3.800			
K 2.5 K 2.5T	4	2507	87.500	1	1.500	x	3.800	SWC10003ZZ	4626636 4626575 4636499	
				2	1.500	x	4.000	777		
				O1	4.000	x	3.800			
LA 239	V6	3917	99.310	1	1.984	x	4.500	SWC10018ZZ	3780007	
				2	1.984	x	4.500	777		
				O1	4.763	x	4.200			
LA 318	V8	5211	99.310	1	1.984	x	4.500	SWC10019ZZ	2808550 3780007	
				2	1.984	x	4.500	777		
				O1	4.763	x	4.200			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
CHRYSLER GASOLINE ENGINE										
MAGNUM 3.9	V6	3917	99.310	1	2.000	x	3.500	SWC10016ZX	4720653	
				2	2.000	x	4.500	777		
				O1	4.000	x	2.850			
MAGNUM 5.2	V8	5211	99.310	1	1.984	x	4.500	SWC10019ZZ	2808553	
				2	1.984	x	4.500	777	3780007	
				O1	4.763	x	4.200			
MAGNUM 5.2	V8	5211	99.310	1	2.000	x	3.450	SWC10020ZX	4638060	
				2	2.000	x	4.500	777	4720727	
				O1	4.000	x	3.100			
Power Tech 3.7	V6	3701	93.000	1	1.500	x	1.500	SWC10002ZZ	5012364AC	
				2	1.500	x	1.500	777		
				O1	3.000	x	3.000			
Power Tech 4.0	L6	3966	98.430	1	1.500	x	3.500	SWC10012ZY	4798878	
				2	1.500	x	4.500	777		
				O1	4.000	x	3.200			
Power Tech 4.7	V8	4703	93.000	1	1.500	x	3.250	SWC10021ZZ	5012364AC	
				2	1.500	x	3.900	777		
				O1	3.000	x	3.000			
Power Tech 4.7	V8	4703	93.000	1	1.200	x	3.500	SWG10011ZZ	-	
				2	1.500	x	3.900	777		
				O1	2.500	x	2.600			
SLANT 6	V6	3687	86.360	1	1.984	x	4.000	SWC10017ZZ	4131203	
				2	1.984	x	4.000	777		
				O1	4.763	x	4.200			
SMPI 4.0	V6	3952	96.000	1	1.200	x	3.500	SWC10015ZX	4773023	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.200			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
CHRYSLER DIESEL ENGINE										
4D55	4	2346	91.100	1	2.500	x	3.250	SDM31038ZX 555 1st-HKS	MD103391	
				2	2.000	x	3.900			
				O1	4.000	x	3.900			
6BT	6	5899	102.000	1	3.00K	x	4.200	SDC10022ZZ 555	4638644 5011858AA	
				2	2.350	x	4.300			
				O1	4.000	x	4.300			
B6.7	L6	6690	107.000	1	3.00K	x	4.400	SDC10023ZZ 555	4955366	
				2	2.500	x	4.500			
				O1	3.500	x	4.150			
ISB 5.9	6	5899	102.000	1	3.00K	x	4.200	SDC10022ZZ 555	4089258 5011858AA	
				2	2.350	x	4.300			
				O1	4.000	x	4.300			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
3EA S-TEC I 0.8	3	796	68.500	1	1.200	x	2.500	SWD20002ZZ	12140A78B01-00	MATIZ TICO
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850			
3EA S-TEC I 0.8	3	796	68.500	1	1.200	x	2.650	SWD20011ZZ	96325192	
				2	1.200	x	2.800	NEW 777		
				O1	2.500	x	2.800			
4EA S-TEC I 1.0	4	995	68.500	1	1.200	x	2.650	SWD20005ZZ	96325192	MATIZ
				2	1.200	x	2.800	777		
				O1	2.500	x	2.850			
D-TEC 1.6	4	1598	78.980	1	1.200	x	3.050	SWD20004ZZ	S1220014	ESPERO LANOS NUBIRA
				2	1.500	x	3.300	777		
				O1	3.000	x	3.000			
D-TEC 2.2	4	2198	86.000	1	1.500	x	3.450	SWD20006ZZ	92062027	LEGANZA NUBIRA PRINCE
				2	1.500	x	3.500	777		
				O1	3.000	x	3.000	SS999		
E-TEC I 1.6	4	1598	79.000	1	1.200	x	3.050	SWG10029ZZ	93235611	LANOS
				2	1.500	x	3.300	NEW 777		
				O1	3.000	x	3.000			
E-TEC II 1.4	4	1389	81.600	1	1.200	x	3.100	SWD20009ZZ	92067238	OPTRA
				2	1.500	x	3.300	777		
				O1	3.000	x	2.900			
F6B S-TEC I 0.8	3	796	68.500	1	1.200	x	2.500	SWD20002ZZ	12140A78B01-00	MATIZ TICO
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850			
F8C S-TEC I 0.8	3	796	68.500	1	1.200	x	2.500	SWD20002ZZ	12140A78B01-00	DAMAS MATIZ TICO
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850			
NP960	4	1498	76.500	1	1.500	x	3.100	SWD20003ZZ	NP960	ESPERO LANOS LEMANS NEXIA NUBIRA RACER SIELO SPAGON
				2	1.500	x	3.200	777		
				O1	3.000	x	2.950			
T18SED	4	1796	80.500	1	1.200	x	2.900	SWD20012ZZ	93742700	EXCELLE
				2	1.200	x	3.200	NEW 777		
				O1	2.000	x	3.000			
YSE S-TEC I 0.8	3	796	68.500	1	1.200	x	2.500	SWD20002ZZ	12140A78B01-00	MATIZ TICO
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850			

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
DAEWOO DIESEL ENGINE										
2848T	6		128.000	1	3.306	x	5.200	SDD20004ZZ	65.02503-8252	BUS BH126 EXCAVATOR GENERATOR
				2	3.000	x	5.200	DISCONTINUED		
				O1	5.000	x	4.800	777		
6BB1	6	5393	102.000	1	3.000	x	4.400	SJD20007ZZ	65.02503-8069	EXCAVATOR FORKLIFT GENERATOR
				2	2.500	x	4.400	SDD20077ZZ		
				O1	5.000	x	4.800	777		
DB58	6		102.000	1	3.000	x	4.400	SDD20008ZZ	65.02503-8058	
				2	2.500	x	4.400			
				O1	4.000	x	4.150	777		
P158LE	1		102.000	1	2.840	x	4.200	YDL03259ZZ		
				2	2.370	x	4.200	DISCONTINUED		
				O1	4.000	x	4.300	777		

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700G	3		68.000	1	1.500	x	2.800	SWD10040ZZ	13011-87801	
				2	1.500	x	2.800	DISCONTINUED		
				O1	2.800	x	2.550	777		
AB	2	547	71.600	1	1.500	x	3.000	SWD10023ZZ	13011-87701 13011-87702 13011-87705 13011-87709 13011-87710 13011-87714	
				2	1.500	x	3.000	777		
				O1	2.800	x	3.000			
CB10	3	993	76.000	1	1.500	x	3.100	SWD10024ZZ	13011-87704 13011-87708	CHARADE
				2	1.500	x	3.100	777		
				O1	2.800	x	3.250			
CB10	3	993	76.000	1	1.500	x	3.100	SXD10024ZZ	13011-87703 13011-87718	CHARADE
				2	1.500	x	3.100	DISCONTINUED		
				O1	2.800	x	3.250	Mt.777		
CB10	3	997	76.000	1	1.500	x	3.100	SWD10036ZZ	13011-87727	CHARADE
				2	1.500	x	3.100	777		
				O1	2.800	x	3.550			
CB32	3	993	76.000	1	1.500	x	3.100	SWD10024ZZ	13011-87704 13011-87708	CHARADE
				2	1.500	x	3.100	777		
				O1	2.800	x	3.250			
CB32	3	993	76.000	1	1.500	x	3.100	SXD10024ZZ	13011-87703 13011-87718	CHARADE
				2	1.500	x	3.100	DISCONTINUED		
				O1	2.800	x	3.250	Mt.777		
CD	3	850	70.000	1	1.500	x	3.100	SWD10028ZZ	13011-87712 13013-87710	
				2	1.500	x	3.100	Mt.777		
				O1	2.800	x	2.850			
CL (NEW)	3	993	76.000	1	2.000	x	2.900	SDD10042ZZ	13011-87721	
				2	1.500	x	3.100	SJD10042ZZ		
				O1	3.000	x	3.400	Mt.555		
CL10	3	1000	76.000	1	2.000	x	3.200	SJD10042ZZ	13011-87717 13011-87723A	
				2	1.500	x	3.100	Mt.555		
				O1	3.000	x	2.000			
D070	3		68.000	1	1.500	x	2.800	SWD10040ZZ	13011-87801	
				2	1.500	x	2.800	DISCONTINUED		
				O1	2.800	x	2.550	777		
D07	3		72.000	1	1.500	x	3.000	SWD10041ZZ	13011-87803	
				2	1.500	x	2.900	777		
				O1	2.800	x	2.550			
EB	3	547	62.000	1	1.200	x	2.300	SWD10029ZZ	13011-87206	
				2	1.500	x	2.500	777		
				O1	2.800	x	2.800			
EB	3	547	62.000	1	1.200	x	2.300	SWD10032ZZ	13011-87217	
				2	1.500	x	2.700	DISCONTINUED		
				O1	2.800	x	2.800	777		
ED2	3	847	66.600	1	1.200	x	2.500	SWD10045ZZ	13011-87232	
				2	1.500	x	2.800	777		
				O1	2.800	x	2.550			

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ED-10	3	847	66.600	1	1.200	x	2.300	SWD10051ZZ	13011-97209	
				2	1.200	x	2.600	NEW		
				O1	2.000	x	2.200	777		
EF	3	659	68.000	1	1.200	x	2.700	SWD10033ZZ	13011-87219	MIRA
				2	1.500	x	2.800	777		
				O1	2.800	x	2.500	777		
EF	3	659	68.000	1	1.200	x	2.670	SWD10044ZZ	13011-97204-A	MIRA
				2	1.500	x	2.800	777		
				O1	2.500	x	2.550	777		
EF	1	659	68.000	1	1.000	x	2.500	YWD10037ZZ	13011-87229	
				2	1.200	x	2.600	DISCONTINUED		
				O1	2.000	x	2.500	777		
EF-VD	3	659	68.000	1	1.000	x	2.100	SWD10046ZZ	13011-97206	
				2	1.200	x	2.200	777		
				O1	2.000	x	2.250	777		
EJ	3	989	72.000	1	1.000	x	2.450	SWD10047ZZ	13011-97201-000	
				2	1.200	x	2.900	777		
				O1	2.500	x	2.550	777		
FE051	4	958	68.000	1	2.000	x	3.000	SWD10020ZZ	13011-87103	
				2	2.000	x	3.000	777		
				O1	4.000	x	3.100	777		
G10	3	997	76.000	1	1.500	x	3.100	SWD10036ZZ	13011-87727	CHARADE
				2	1.500	x	3.100	777		
				O1	2.800	x	3.550	777		
G102S HC HCE	4	1295	76.000	1	1.200	x	2.900	SWD10031ZZ	13011-87105 13011-87108	CHARADE
				2	1.500	x	3.200	777		
				O1	3.000	x	2.850	777		
HD	4	1589	76.000	1	1.200	x	2.700	SWD10034ZZ	13011-87110	FEROZA
				2	1.500	x	3.200	777		
				O1	3.000	x	2.550	777		
HD HDE	4	1589	76.000	1	1.200	x	2.700	SWD10030ZZ	13011-87106 13011-87109	FEROZA ROCKY
				2	1.500	x	3.200	SWD10031ZZ		
				O1	3.000	x	2.850	777		
K3	4	1300	72.000	1	1.200	x	2.450	SWD10050ZZ	13011-97401-000	CHARADE
				2	1.200	x	2.600	777		
				O1	2.000	x	2.150	777		
KF-VE HDE	3	63.000	63.000	1	1.000	x	2.270	SWD10049ZZ	13011-B2020	
				2	1.200	x	2.300	DISCONTINUED		
				O1	2.000	x	2.400	777		
KF-VE KF-VE3	3	63.000	63.000	1	1.000	x	2.270	SWD10052ZZ	13011-B2091	
				2	1.000	x	2.100	NEW		
				O1	1.500	x	2.200	777		
L38 L38S	2	356	62.000	1	2.000	x	2.800	SBD10016ZZ	13011-87204 13011-87205 13011-87501	
				2	2.000	x	2.800	DISCONTINUED		
				3	2.000	x	2.800	300 1st-HKS		
Z738	2	547	71.600	1	1.500	x	3.000	SWD10023ZZ	13011-87701 13011-87702 13011-87705 13011-87709	
				2	1.500	x	3.000	777		
				O1	2.800	x	3.000	777		

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DF	4	2270	85.000	1	2.000	x	3.500	SJD10010ZZ	92-4223-1410	DV202
				2	2.000	x	3.500			
				3	2.000	x	3.500			
				O1	4.000	x	4.000			
Mt.555										
DG	4	2530	88.000	1	2.000	x	3.800	SJD10012ZZ	992-5113-1410-00	D300 DV32L SV32
				2	2.000	x	3.800			
				3	2.000	x	3.800			
				O1	4.000	x	2.800			
				O2	4.000	x	3.800			
Mt.555										
DG	4	2530	88.000	1	2.000	x	3.800	SJD10021ZZ	13011-87304	DELTA
				2	2.000	x	3.800			
				3	2.000	x	3.800			
				O1	4.000	x	4.000			
Mt.555										
DG	4	2530	88.000	1	2.500	x	3.800	SJD10025ZZ	13011-87036 13011-87305 13011-87307 13011-87308	DELTA
				2	2.000	x	3.800			
				O1	4.000	x	4.100			
				Mt.555 All Plt						
DL	4	2765	92.000	1	2.500	x	3.800	SJD10026ZZ	13011-87310 13011-87311 13011-87312 13011-97313	DELTA
				2	2.000	x	3.800			
				O1	4.000	x	4.100			
				Mt.555 All Plt						
DL	4	2765	92.000	1	2.500	x	3.800	SDD10026ZZ	13011-87320A	DELTA
				2	2.000	x	3.800			
				O1	4.000	x	4.100			
555										
DL-T	4	2765	92.000	1	2.500	x	3.450	SDD10048ZZ	13011-87317-000	
				2	2.000	x	3.800			
				O1	4.000	x	4.350			
555										
F50	4	2530	88.000	1	2.500	x	3.800	SJD10025ZZ	13011-87036 13011-87305 13011-87307 13011-87308	
				2	2.000	x	3.800			
				O1	4.000	x	4.100			
				Mt.555 All Plt						
FB	4	1861	85.000	1	2.000	x	3.900	SCD10049ZZ	13011-87301-00	
				2	2.000	x	3.900			
				O1	4.000	x	3.900			
DISCONTINUED 500 All Plt										
V20	4	2530	88.000	1	2.500	x	3.800	SJD10025ZZ	13011-87036 13011-87305 13011-87307 13011-87308	
				2	2.000	x	3.800			
				O1	4.000	x	4.100			
				Mt.555 All Plt						

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1.3L	4	1322	71.000	1	1.200	x	2.500	SWT20052ZZ	F4BZ 6149 A	
				2	1.500	x	3.100		E9BZ 6149 A	
				O1	3.000	x	2.950	777		
B6	4	1597	78.000	1	1.500	x	3.100	SWT20060ZZ	E8GY 6149 A	
				2	1.500	x	3.400			
				O1	4.000	x	3.050	777		
BP05	4	1839	83.000	1	1.500	x	3.300	SWT20066ZZ	FOCZ 6149 A	
				2	1.500	x	3.600			
				O1	3.000	x	2.800	777		
COLOGNE 29	6	2901	93.000	1	1.600	x	3.900	SWF30014ZZ	E7RY 6148 A	
				2	1.750	x	3.900			
				O1	3.500	x	3.050	777		
COLOGNE 40	6	4015	100.400	1	1.200	x	3.500	SWF30012ZZ	2U3Z 6148 AA	
				2	1.500	x	4.200			
				O1	3.000	x	3.250	777		
COLOGNE 40	6	4015	100.400	1	1.600	x	4.050	SWT20072ZZ	F7TZ 6148 BA	
				2	1.750	x	4.000		FOTZ 6148 M	
				O1	3.500	x	3.100	777		
CVH 1.9	4	1901	81.940	1	1.500	x	2.900	SWF30010ZX	FOCZ 6148 A	
				2	1.500	x	3.200			
				O1	3.000	x	2.950	777		
CVH 2.0	4	1986	84.860	1	1.500	x	3.100	SWF30005ZZ	2MGZ 6135 AA	
				2	1.500	x	3.900		F7CZ 6148 AA	
				O1	3.000	x	3.100	777		
DURATEC 20 LF	4	1999	87.500	1	1.200	x	2.700	SWT20090ZZ	8S7Z 6312 A	
				2	1.200	x	3.400		3S4Z 6148 BA	
				O1	2.500	x	2.600	777		
DURATEC 23EW DURATEC 23H DURATEC 23NS	4	2261	87.500	1	1.200	x	2.700	SWT20090ZZ	-	
				2	1.200	x	3.400			
				O1	2.500	x	2.600	777		
DURATEC 25SVT	6	2540	82.420	1	1.200	x	2.900	SWF30003ZZ	XS2Z 6148 AA	
				2	1.500	x	3.600			
				O1	3.000	x	2.850	777		
DURATEC 30	6	2967	89.000	1	1.200	x	3.500	SWF30021ZZ	AL8Z 6148 A	
				2	1.500	x	4.100		XW4Z 6148 A	
				O1	2.500	x	2.850	777	YF1Z 6148 BA	
DURATEC 30	6	2982	89.000	1	1.200	x	3.500	SWG10004ZZ	XW4Z 6148 CA	
				2	1.500	x	3.600			
				O1	3.000	x	2.850	777		
DURATEC VE	6	2540	82.420	1	1.200	x	2.900	SWF30003ZZ	F5RZ 6148 E	
				2	1.500	x	3.600			
				O1	3.000	x	2.850	777		
ESSEX V6 38	6	3802	96.800	1	1.500	x	3.300	SWF30004ZZ	2L3Z 6148 KA	
				2	1.500	x	4.200		F6ZZ 6148 A	
				O1	3.000	x	3.200	777		
ESSEX V6 38	6	3802	96.800	1	1.500	x	3.450	SWF30013ZY	E8DZ 6148 A	
				2	1.500	x	4.200		E9SZ 6148 B	
				O1	4.000	x	3.200	777	F4SZ 6148 A	

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ESSEX V6 38	6	3802	96.800	1	2.000	x	4.400	SWF30015ZZ	E2DZ 6148 A	
				2	2.000	x	4.400	777		
				O1	4.000	x	4.050			
ESSEX V6 42	6	4195	96.800	1	1.500	x	3.300	SWF30004ZZ	F6ZZ 6148 A	
				2	1.500	x	4.200	777		
				O1	3.000	x	3.200			
F2	4	2184	86.000	1	1.500	x	3.300	SWT20048ZZ	E92Z 6149 A	
				2	1.500	x	3.800	777		
				O1	4.000	x	2.680			
FS	4	1991	83.000	1	1.200	x	3.100	SWF30001ZZ	E62Z 6149 AA	
				2	1.500	x	3.600	777		
				O1	3.000	x	3.200			
HSC 2.3	4	2311	93.470	1	2.000	x	3.300	SWF30011ZX	E63Z 6148 A*	
				2	2.000	x	4.300	777		
				O1	4.760	x	4.200			
HSC 2.5	4	2496	93.470	1	2.000	x	3.300	SWF30011ZX	E63Z 6148 A*	
				2	2.000	x	4.300	777		
				O1	4.760	x	4.200			
INTECH 46	8	4605	90.200	1	1.500	x	3.300	SWF30006ZZ	F3LY 6148 A F5LY 6148 A	
				2	1.500	x	4.100	777		
				O1	3.000	x	2.850			
INTECH 46	8	4605	90.200	1	1.200	x	3.300	SWF30008ZZ	F8LZ 6148 AA	
				2	1.500	x	3.900	777		
				O1	3.000	x	3.100			
INTECH 54	8	5409	90.200	1	1.500	x	3.300	SWF30006ZZ	2L3Z 6148 AA	
				2	1.500	x	4.100	777		
				O1	3.000	x	2.850			
KL	6	2507	84.500	1	1.500	x	3.050	SWT20073ZZ	E32Z 6149 D E42Z 6149 D	
				2	1.500	x	3.600	777		
				O1	3.000	x	2.850			
MA	4	1970	80.000	1	1.200	x	3.600	SWT20031ZZ		
				2	1.500	x	3.600	777		
				O1	4.000	x	3.250			
OHC 2.3	4	2295	96.000	1	1.500	x	4.000	SWT20071ZZ	F1ZZ 6148 A F3ZZ 6148 A	
				2	1.500	x	4.000	777		
				O1	4.000	x	3.250			
OHC 2.3	4	2298	96.000	1	1.500	x	4.000	SWT20076ZZ	F67Z 6148 AA	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.450			
OHC 2.5	4	2507	96.000	1	1.500	x	4.000	SWT20076ZZ	F87Z 6148 AA	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.450			
TRITON 46C	8	4605	90.200	1	1.200	x	3.300	SWF30008ZZ	F8LZ 6148 AA	
				2	1.500	x	3.900	777		
				O1	3.000	x	3.100			

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TRITON 46C TRITON 46GT	8	4605	90.200	1 2 O1	1.500 1.500 3.000	x x x	3.300 4.100 2.850	SWF30006ZZ 777	1L2Z 6148 AA 2L3Z 6148 AA 2L3Z 6148 GA 6L3Z 6148 A F2AZ 6148 A F5LY 6148 A F7AZ 6148 AA	
TRITON 54 TRITON 54V	8	5408	90.200	1 2 O1	1.500 1.500 3.000	x x x	3.300 4.100 2.850	SWF30006ZZ 777	2L3Z 6148 AA 4G7Z 6148 AA 6L3Z 6148 A	
TRITON 68 TRITON 68V	10	6801	90.200	1 2 O1	1.500 1.500 3.000	x x x	3.250 4.100 3.250	SWF30019ZY 777	2L3Z 6148 AA 2L3Z 6148 AA 6L3Z 6148 A	
TSG-416	4	1596	82.000	1 2 O1	1.200 1.500 2.000	x x x	2.850 3.500 3.050	SWF30019ZY NEW 777	XS6E 6148 DA	
VG30E	6	2960	87.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.800 2.500	SWN30058ZZ 777	F6XZ 6148 AA	
VG33E	6	3272	91.500	1 2 O1	1.500 1.500 2.800	x x x	3.250 4.000 3.050	SWN30120ZZ 777	XF5Z 6148 AA	
VULCAN V6	6	2997	89.000	1 2 O1	1.500 1.500 3.000	x x x	3.450 3.700 2.950	SWF30016ZZ 777	2F1Z 6148 AA 4F1Z 6148 CA	
VULCAN V6	6	2983	89.000	1 2 O1	1.500 1.500 4.000	x x x	3.700 3.600 3.650	SWI10155ZZ 777	F6DZ 6148 RA*	
VULCAN V6	6	2983	89.000	1 2 O1	1.500 1.500 4.000	x x x	3.450 3.700 3.250	SWT20075ZZ 777	F6DZ 6148 RA*	
ZETEC-E 2.0	4	1991	84.860	1 2 O1	1.500 1.750 3.000	x x x	3.050 3.800 3.100	SWF30007ZZ 777	F5RZ 6148 A	
ZETEC-R 2.0	4	1991	84.800	1 2 O1	1.500 1.750 3.000	x x x	3.050 3.900 3.200	SWF30002ZZ 777	F8CZ 6148 AA YS4Z 6135 AA	

FORD GASOLINE ENGINE

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
FORD DIESEL ENGINE										
4D55	4	2346	91.100	1 2 O1	2.500 2.000 4.000	x x x	3.250 3.900 3.900	SDM31038ZX 555 1st-HKS	E5TZ 6149 A	
PowerStroke 6.0	8	5954	95.000	1 2 O1	2.250 2.000 3.500	x x x		TBA 555	3C3Z 6148 AA	
PowerStroke 6.4	8	6400	98.200	1 2 O1	2.35K 2.000 3.000	x x x	3.500 4.300 3.250	SDF30022ZX 555	4C3Z 6148 AA	
PowerStroke 7.3T	8	7276	104.400	1 2 O1	3.00K 2.000 3.500	x x x	3.900 4.000 3.850	SDF30020ZZ 555	F81Z 6148 AA	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME				
1ZZ-FE	4	1794	79.000	1	1.200	x	2.650	SWT10183ZZ	88972331					
				2	1.200	x	3.200		94856686					
				O1	3.000	x	2.550	777	94859421					
2AZ-FE	4	2401	88.500	1	1.200	x	2.700	SWT10182ZZ	13011-28102					
				2	1.200	x	3.200							
				O1	2.000	x	2.500	777						
2ZR-FE	4	1798	80.500	1	1.000	x	2.700	SWT10232ZZ	19185554					
				2	1.000	x	2.500	NEW						
				O1	1.500	x	1.950	777						
2ZZ-FE	4	1796	82.000	1	1.200	x	2.850	SWT10196ZZ	88969557					
				2	1.200	x	3.050							
				O1	3.000	x	3.200	777						
4A-FE	4	1587	81.000	1	1.500	x	2.700	SWT10142ZZ	94847305					
				2	1.500	x	3.400							
				O1	3.000	x	2.250	777						
4A-FE	4	1587	81.000	1	1.200	x	2.900	SWT10156ZZ	94854159					
				2	1.500	x	3.400							
				O1	3.000	x	2.900	777						
4A-GE	4	1587	81.000	1	1.500	x	3.100	SWT10108ZZ	94845462					
				2	1.500	x	3.600							
				O1	2.800	x	2.250	777						
4A-GE	4	1587	81.000	1	1.200	x	2.900	SWT10150ZZ	94847635					
				2	1.500	x	3.400							
				O1	2.800	x	2.800	777						
4A-LC	4	1587	81.000	1	1.500	x	3.100	SWT10108ZZ	94840036					
				2	1.500	x	3.600							
				O1	2.800	x	2.250	777						
4XC1	4	1471	77.000	1	1.200	x	3.300	SWI10151ZZ	94141947					
				2	-	x	-							
				O1	2.800	x	3.050	777						
4XC1T	4	1471	77.000	1	1.200	x	2.800	SWI10153ZZ	94109650					
				2	1.200	x	3.500							
				O1	2.800	x	3.100	777						
4XE1	4	1587	80.000	1	1.200	x	3.100	SWI10149ZZ	94331660					
				2	1.200	x	3.300		94370434					
4XE1W	4	1587	80.000	O1	3.000	x	2.000	777						
				4XF1	4	1809	80.000	1	1.200		x	3.100	SWI10149ZZ	94342124
								2	1.200		x	3.300		
7A-FE	4	1762	81.000	1	1.200	x	2.900	SWT10156ZZ	94855500					
				2	1.500	x	3.400							
				O1	3.000	x	2.900	777						
Alloytec LCS Alloytec LY7	6	3564	94.000	1	1.200	x	2.900	SWG10039ZZ	12608615					
				2	1.500	x	3.400							
				O1	2.500	x	2.500	777						
ATLAS LLR	5	3653	95.500	1	1.200	x	3.300	SWG10036ZZ	89018219					
				2	1.500	x	3.700							
				O1	2.500	x	2.850	777						

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
ATLAS LLV	4	2921	95.500	1	1.200	x	3.300	SWG10037ZZ	89018219		
					2	1.500	x	3.700			777
					O1	2.500	x	2.850			
BUICK 3300	6	3343	94.000	1	1.500	x	3.500	SWG10012ZZ	24501065 24501330		
					2	1.500	x	3.700			777
					O1	3.000	x	3.200			
BUICK V6 L26	6	3785	96.520	1	1.200	x	3.500	SWG10003ZZ	12480825		
					2	1.500	x	3.800			777
					O1	2.000	x	2.800			
BUICK V6 L27	6	3785	96.500	1	1.200	x	3.500	SWG10006ZZ	24502947		
					2	1.500	x	3.800			777
					O1	3.000	x	2.852			
BUICK V6 L36 BUICK V6 L67	6	3791	96.520	1	1.200	x	3.500	SWG10003ZZ	12480825 12537410		
					2	1.500	x	3.800			777
					O1	2.000	x	2.800			
BUICK V6 L67	6	3791	96.500	1	1.200	x	3.500	SWG10006ZZ	24502947		
					2	1.500	x	3.800			777
					O1	3.000	x	2.852			
BUICK V6 LD5	6	3753	94.890	1	1.984	x	3.450	SWG10007ZZ	12518282		
					2	1.984	x	4.100			777
					O1	4.763	x	3.850			
Chevy S.B. 305	8	4998	94.890	1	2.000	x	3.450	SWG10007ZZ 8CYL	12518282		
					2	2.000	x	4.100			777
					O1	4.760	x	3.850			
CID 121	4	1983	86.000	1	1.500	x	3.300	SWG10010ZZ	52273305		
					2	1.500	x	3.600			777
					O1	3.000	x	3.050			
CPC	6	3130	89.000	1	1.500	x	3.700	SWI10155ZZ	10181330		
					2	1.500	x	3.600			777
					O1	4.000	x	3.650			
ECOTEC 2.0 LTG	4	1998	86.000	1	1.200	x	3.100	SWG10032ZX	89018107		
					2	1.500	x	3.500			555
					O1	2.000	x	2.750			
ECOTEC 2.2 L61	4	2196	86.000	1	1.200	x	2.900	SWG10016ZZ 4CYL	9118853		
					2	1.500	x	3.500			777
					O1	3.000	x	2.850			
ECOTEC 2.2 L61	4	2196	86.000	1	1.200	x	2.900	SWG10019ZY	21018813		
					2	1.500	x	3.500			777
					O1	2.500	x	2.950			
ECOTEC 2.2 LAP	4	2201	86.000	1	1.200	x	3.100	SWG10032ZX	19180831		
					2	1.500	x	3.500			555
					O1	2.000	x	2.750			
ECOTEC LHU ECOTEC LNF ECOTEC LTG	4	1998	86.000	1	1.200	x	3.100	SWG10032ZX	89018107		
					2	1.500	x	3.500			555
					O1	2.000	x	2.750			
ECOTEC LSJ	4	1998	86.000	1	1.200	x	2.900	SWG10019ZY	96180138		
					2	1.500	x	3.500			777
					O1	2.500	x	2.950			

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ELLESMERE L81	6	2962	86.000	1	1.500	x	3.450	SWC10001ZZ	90509740	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.000			
ELLESMERE L81	6	2962	86.000	1	1.200	x	2.900	SWG10016ZZ	9118853	
				2	1.500	x	3.500	777		
				O1	3.000	x	2.850			
E-TEC I 13N 13S	4	1297	75.000	1	1.500	x	3.250	SWG10041ZZ	93244958	
				2	1.500	x	3.300	NEW 777		
				O1	3.000	x	2.900			
E-TEC I X14XE1	4	1389	77.600	1	1.500	x	2.850	SWG10028ZZ	93227616	
				2	1.500	x	3.200	NEW 777		
				O1	3.000	x	3.200			
E-TEC I X16XE1	4	1598	79.000	1	1.200	x	3.050	SWG10029ZZ	93235611	
				2	1.500	x	3.300	NEW 777		
				O1	3.000	x	3.000			
E-TEC I X18XE1	4	1796	80.500	1	1.200	x	3.100	SWG10035ZZ	93332835	
				2	1.200	x	3.000	NEW 777		
				O1	2.000	x	3.000			
E-TEC II LV8	4	1498	74.000	1	1.200	x	2.850	SWS20145ZZ	96061652	
				2	-	x	-	NEW 777		
				O1	2.800	x	2.800			
F14D3 85CB 89CB	4	1796	77.880	1	1.200		2.850	SWG10026ZZ	93740229	
				2	1.500		3.300	NEW 777		
				O1	2.500		2.900			
G10	3	993	74.000	1	1.200	x	2.850	SWS20145ZZ	96061652	
				2	-	x	-	777		
				O1	2.800	x	2.800			
G10 G10T	3	993	74.000	1	1.200	x	2.850	SWS20144ZZ	96055394 96057087 96068389	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800			
G13BA	4	1298	74.000	1	1.200	x	2.900	SWS20143ZZ	91173873 96068389	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.000			
G16K G16KV	4	1587	75.000	1	1.200	x	2.700	SWS20142ZZ	96067669 91173290	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800			
G180Z	4	1817	84.000	1	2.000	x	4.000	SWI10056ZZ	94216641	
				2	2.000	x	4.000	777		
				O1	4.000	x	3.800			
G180Z	4	1817	84.000	1	1.500	x	3.500	SWI10098ZZ	-	
				2	1.500	x	3.800	777		
				O1	4.000	x	3.200			
G200Z	4	1817	84.000	1	2.000	x	4.000	SWI10056ZZ	94216641	
				2	2.000	x	4.000	777		
				O1	4.000	x	3.800			
G200Z	4	1949	87.000	1	1.500	x	3.500	SWI10096ZZ	94438086	
				2	1.500	x	3.800	777		
				O1	4.000	x	3.200			

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G20K	4	1983	84.000	1	1.200	x	2.700	SWS20142ZZ	91174392	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800	777		
GM 60° G-II GM 60° L82 GM 60° LG6 GM 60° LH0	6	2835	89.000	1	1.500	x	3.700	SWI10155ZZ	10181330	
				2	1.500	x	3.600	777		
				O1	4.000	x	3.650	777		
GM 60° L32 GM 60° LQ1	6	3392	92.000	1	1.500	x	3.300	SWG80011	12520260	
				2	1.500	x	4.000	777		
				O1	4.000	x	3.300	777		
GM 60° L44 GM 60° LH7	6	2827	89.000	1	1.500	x	4.050	SWI10154ZZ	14089059	
				2	2.000	x	4.050	777		
				O1	4.760	x	3.850	777		
GM 60° LA1	6	3392	92.000	1	1.200	x	3.300	SWG10001ZZ	12537866	
				2	1.500	x	3.700	777		
				O1	4.000	x	2.650	777		
GM 60° LA1 GM 60° LNJ	6	3392	92.000	1	1.200	x	3.300	SWG10009ZZ	12481322	
				2	1.500	x	3.800	777		
				O1	3.000	x	2.550	777		
GM 60° LE2	6	2835	89.000	1	1.500	x	3.250	SWL03235ZX	14034969	
				2	2.000	x	4.050	777		
				O1	4.760	x	3.850	777		
GM 60° LG8	6	3136	89.000	1	1.200	x	3.500	SWG10004ZZ	12481987	
				2	1.500	x	3.600	777		
				O1	3.000	x	2.850	777		
GM122 2.0L	4	1999	86.000	1	1.500	x	3.300	SWG10010ZZ	52273308	
				2	1.500	x	3.600	777		
				O1	3.000	x	3.050	777		
GM122 2.0L	4	1999	89.000	1	1.500	x	4.050	SWI10195ZZ	12363179	
				2	1.500	x	3.600	777		
				O1	3.000	x	2.950	777		
GM122 2.2L	4	2197	89.000	1	1.500	x	4.050	SWI10195ZZ	12363179	
				2	1.500	x	3.600	777		
				O1	3.000	x	2.950	777		
H25A	6	2494	84.000	1	1.200	x	2.900	SWS20207ZZ	12140-86FA0	
				2	1.500	x	3.550	NEW		
				O1	2.500	x	2.850	777		
High Value LGD High Value LZ4 High Value LZ8 High Value LZ9 High Value LZE	6	3880	99.000	1	1.200	x		SWG80056	89060428 89018067	
				2	1.500	x				
				O1	2.500	x				
High Value LX9	6	3498	94.000	1	1.200	x	3.300	SWG10038ZX	12584525	
				2	1.500	x	3.800	777		
				O1	2.500	x	2.700	777		
HT-4500	8	4474	92.000	1	1.500	x	3.800	SWG10002ZZ	1645491	
				2	1.500	x	3.800	777		
				O1	3.000	x	3.100	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
				2	1.500	x	3.800			
				O1	3.000	x	3.100	777		
J35A3	6	3471	89.000	1	1.200	x	3.050	SWH30438ZZ	13011-PGE-A01	
				2	1.200	x	3.400			
				O1	2.800	x	2.850	777		
LG4	8	4998	94.890	1	1.984	x	3.450	SWG10007ZZ 8CYL	12518282*	
				2	1.984	x	4.100			
				O1	4.763	x	3.850	777		
LT1 4.3 L99	8	4343	94.900	1	2.000	x	3.450	SWG10007ZZ 8CYL	12518282	
				2	2.000	x	4.100			
				O1	4.760	x	3.850	777		
Northstar L37	8	4605	93.000	1	1.500	x	3.300	SWG10008ZZ	3543903	
				2	1.500	x	3.900			
				O1	3.000	x	2.850	777		
Northstar L37	8	4605	93.000	1	1.200	x	3.500	SWG10011ZZ	12564801	
				2	1.500	x	3.900			
				O1	2.500	x	2.600	777		
Northstar L37	8	4605	93.000	1	1.200	x	3.500	SWG10013ZZ	12555217	
				2	1.500	x	3.900			
				O1	3.000	x	2.850	777		
Northstar L47	8	3995	87.000	1	1.200	x	2.900	SWG10015ZY	12555219	
				2	1.500	x	3.600		12564802	
				O1	3.000	x	2.850	777		
Northstar L47	8	3995	87.000	1	1.500	x	3.100	SWG10017ZZ	3546717	
				2	1.500	x	3.600			
				O1	3.000	x	3.100	777		
NP960	4	1559	76.500	1	1.500	x	3.100	SWD20003ZZ	90273451	
				2	1.500	x	3.200			
				O1	3.000	x	2.950	777		
Oldsmobile V8 307	8	5031	96.500	1	1.984	x	3.500	SWG10023ZY	22529562	
				2	1.984	x	4.400			
				O1	4.763	x	4.050	777		
QUAD-4 LD9	4	2392	90.000	1	1.200	x	3.300	SWG10022ZX	24575965	
				2	1.500	x	3.800			
				O1	3.000	x	3.250	777		
QUAD-4 LG0	4	2254	92.000	1	1.500	x	3.300	SWG10014ZZ	22548439	
				2	1.500	x	3.700			
				O1	3.000	x	3.050	777		
SATURN I4 L24 SATURN I4 LL0	4	1901	82.000	1	1.200	x	2.850	SWG10021ZY	21007180	
				2	1.500	x	3.500			
				O1	3.000	x	3.200	777		
SATURN I4 LK0 SATURN I4 LL0	4	1901	82.000	1	1.500	x	3.050	SWG10020ZX	21006715	
				2	1.500	x	3.500		21006721	
				O1	3.000	x	3.200	777		
S-TEC II	4	1206	69.700	1	1.200	x	2.650	SWG10033ZZ	93744884	
				2	1.500	x	2.800	NEW		
				O1	2.000	x	2.400	777		
S-TEC III	4	1400	73.800	1	1.200	x	2.500	SWG10034ZZ	93736247	
				2	1.200	x	2.800	NEW		
				O1	2.000	x	2.450	777		

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Vortec 2900 LLV	4	2921	95.500	1	1.200	x	3.300	SWG10037ZZ	89018219	
				2	1.500	x	3.700	777		
				O1	2.500	x	2.850			
Vortec 3700 LLR	5	3653	95.500	1	1.200	x	3.300	SWG10036ZZ	89018219	
				2	1.500	x	3.700	777		
				O1	2.500	x	2.850			
Vortec 4300 L35 Vortec 4300 LF6 Vortec 4300 LU3	6	4294	101.600	1	1.500	x	3.650	SWI10196ZZ	12522848	
				2	1.500	x	4.300	777		
				O1	3.000	x	3.350			
Vortec 4800 L20 Vortec 4800 LR4 Vortec 4800 LY2	8	4818	96.000	1	1.500	x	3.300	SWG10005ZZ	19208677 12456338 19208677	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.200			
Vortec 5300 III Vortec 5300 IV Vortec 5300 LH6 Vortec 5300 LH8 Vortec 5300 LM7 Vortec 5300 LS4	8	5328	96.000	1	1.500	x	3.300	SWG10005ZZ	12456338 19208677	
				2	1.500	x	4.000	777		
				O1	3.000	x	3.200			
Vortec 5700 L31	8	5735	101.600	1	1.500	x	3.650	SWI10197ZZ	12522848	
				2	1.500	x	4.300	777		
				O1	3.000	x	3.350			
Vortec 5700 LS1 Vortec 5700 LS6	8	5670	99.000	1	1.500	x	3.500	SWG10018ZZ	88984247 88894299	
				2	1.500	x	4.100	777		
				O1	3.000	x	3.200			
Vortec 6000 L76 Vortec 6000 L77 Vortec 6000 L96 Vortec 6000 LFA	8	5967	101.600	1	1.200	x	3.500	SWG10031ZX	19178307 89017484	
				2	1.500	x	4.200	777		
				O1	2.500	x	2.550			
Vortec 6000 LQ4 Vortec 6000 LQ9	8	5967	101.600	1	1.500	x	3.650	SWI10197ZZ	12456342 88894243	
				2	1.500	x	4.300	777		
				O1	3.000	x	3.350			
Vortec 6000 LS2 Vortec 6000 LY6 Vortec 6000 LZ1	8	5967	101.600	1	1.200	x	3.500	SWG10031ZX	89017484 19178307	
				2	1.500	x	4.200	777		
				O1	2.500	x	2.550			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
GM DIESEL ENGINE										
4FB1	4	1817	84.000	1	2.500	x	3.500	SDI10086ZX	94224221	
				2	2.000	x	3.500	555		
				O1	4.000	x	4.200	SS999		
C223	4	2238	88.000	1	2.500	x	4.000	SJI10089ZZ	94250730	
				2	2.000	x	4.000	Mt.555		
				O1	4.500	x	4.700			
Duramax LB7 Duramax LGH Duramax LLY Duramax LML Duramax LMM	8	6599	103.000	1	2.950	x	3.900	SDI10183ZY	97386951	
				2	2.000	x	4.400	555		
				O1	3.000	x	3.000			
Duramax LG4	6	7785	115.000	1	2.948	x	4.300	SDI10178ZZ	94391502*	
				2	2.000	x	4.300	555		
				O1	2.500	x	4.800			
				O2	3.000	x	3.000			
GM 6.5 Diesel	8	6473	103.000	1	3.0K	x	3.700	SDG10024ZX	12369198	
				2	2.000	x	4.100	555		
				O1	4.000	x	4.150			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
HINO DIESEL ENGINE										
A09C	4	8866	112.000	1	2.948	x	4.350	SDH20107ZZ	13011-E0060	
				2	2.000	x	4.300	NEW		
				O1	4.000	x	4.350	555		
DK10 DK20	6	10178	120.000	1	3.500	x	4.600	SJH20012ZZ	13011-1270	
				2	3.500	x	4.600	Mt.555	13011-1200	
				3	3.500	x	4.600		13011-1280A	
				O1	5.000	x	4.500		13011-1290	
				O2	5.000	x	4.600		3311-1205-05	
DK10 DK20	6	10178	120.000	1	3.500	x	4.600	SCH20042ZZ	13011-1270	
				2	3.500	x	4.600	SJH20012ZZ	13011-1200	
				3	3.500	x	4.600	555	13011-1280A	
				O1	5.000	x	4.600		13011-1290	
				O2	5.000	x	4.600		3311-1205-05	
DM100	6	4313	90.000	1	2.500	x	3.700	SCH20004ZZ	13011-1350	
				2	2.500	x	3.700	500	13011-1350A	
				3	2.500	x	3.700		3352-12057	
				O1	4.000	x	3.700		3352-193901	
				O2	4.000	x	3.700			
DM100	6	4313	90.000	1	2.500	x	3.700	SJH20004ZZ	13011-1350	
				2	2.500	x	3.700	SCH20004ZZ	13011-1350A	
				3	2.500	x	3.700	Mt.555	3352-12057	
				O1	4.000	x	3.700		3352-193901	
				O2	4.000	x	3.700			
DQ100	6	4507	92.000	1	2.500	x	3.900	SCH20032ZZ	13011-1360A	
				2	2.500	x	3.900	500		
				3	2.500	x	3.900			
				O1	4.000	x	3.900			
				O2	4.000	x	3.900			
DS50 DS60 DS80	6	7982	110.000	1	3.000	x	4.500	SJH20007ZZ	13011-1680	
				2	3.000	x	4.500	Mt.555		
				3	3.000	x	4.500			
				O1	4.500	x	4.400			
				O2	4.500	x	4.500			
DS50 DS60 DS80	6	7982	110.000	1	3.000	x	4.500	SCH20007ZZ	13011-1250	
				2	3.000	x	4.500	500	13011-1230	
				3	3.000	x	4.500		13011-1261	
				O1	4.500	x	4.500		13011-1650	
				O2	4.500	x	4.500		13011-1830	
DS50 DS60 DS80	6	7982	110.000	1	3.000	x	4.500	SDH20007ZZ	13011-1680	
				2	3.000	x	4.500	SJH20007ZZ		
				3	3.000	x	4.500	555		
				O1	4.500	x	4.400			
				O2	4.500	x	4.400			
DS70 DS90	6	7013	105.000	1	3.000	x	4.200	SCH20006ZZ	13011-1210	
				2	3.000	x	4.200	500	13011-1550	
				3	3.000	x	4.200		13011-1550A	
				O1	4.500	x	4.200			
				O2	4.500	x	4.200			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
HINO DIESEL ENGINE										
DS70 DS90	6	7013	105.000	1	3.000	x	4.200	SJH20006ZZ	13011-1210	
				2	3.000	x	4.200	SCH20006ZZ	13011-1550	
				3	3.000	x	4.200	Mt.555	13011-1550A	
				O1	4.500	x	4.200			
				O2	4.500	x	4.200			
DS70A For industrial machine.	6	7013	105.000	1	3.000	x	4.200	SCH20015ZZ	13011-1220	
				2	3.000	x	4.200	500		
				3	3.000	x	4.200			
				O1	4.500	x	4.200			
				O2	4.500	x	4.200			
DS140	12	17449	115.000	1	3.500	x	4.700	SCH20041ZZ	3360-120-501	
				2	3.000	x	4.600	DISCONTINUED		
				3	3.000	x	4.600	500		
				O1	5.000	x	4.600			
EB100 EB200	6	9036	115.000	1	3.500	x	4.700	SJH20040ZZ	13011-1780	
				2	3.000	x	4.600	DISCONTINUED		
				3	3.000	x	4.600	Mt.555		
				O1	5.000	x	4.500			
				O2	5.000	x	4.600			
EB100 EB200	6	9036	115.000	1	3.500	x	4.700	SCH20040ZZ	13011-1300	
				2	3.000	x	4.600	DISCONTINUED	13011-1310	
				3	3.000	x	4.600	500	13011-1690	
				O1	5.000	x	4.600			
				O2	5.000	x	4.600			
EB100 EB200	6	9036	115.000	1	3.500	x	4.600	SDH20040ZZ	13011-1300C	
				2	3.000	x	4.600	DISCONTINUED	13011-1430A(CYL)	
				3	3.000	x	4.600	500	13011-1690	
				O1	5.000	x	4.600			
				O2	5.000	x	4.600			
EB300	6	9838	120.000	1	3.500	x	4.600	SDH20017ZZ	13011-1720	
				2	3.500	x	4.600	555	12011-1330	
				3	3.500	x	4.600		12011-1730A	
				O1	6.000	x	3.700		3334-1205-09	
EB400	6	9838	120.000	1	3.306	x	4.600	SDH20027ZY	13011-1630	
				2	3.000	x	4.600	555	13011-1640	
				3	3.000	x	4.600		13011-1640A	
				O1	6.000	x	5.500			
EB400	6	9838	120.000	1	3.500	x	4.600	SDH20035ZZ	13011-1940	
				2	3.000	x	4.600	555		
				3	3.000	x	4.600	1st-Plt		
				O1	6.000	x	5.500	2nd-Plt		
EC100	6	5010	97.000	1	2.500	x	4.300	SCH20005ZZ	13011-1390	
				2	2.500	x	4.300	500		
				3	2.500	x	4.300			
				O1	4.000	x	4.300			
				O2	4.000	x	4.300			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
HINO DIESEL ENGINE										
EC100	6	5010	97.000	1	2.500	x	4.300	SHH20005ZZ SCH20005ZZ Mt.555	13011-1400	
				2	2.500	x	4.300			
				3	2.500	x	4.300			
				O1	4.000	x	4.300			
				O2	4.000	x	4.300			
ED100	6	11581	128.000	1	3.500	x	4.800	SDH20020ZZ 555 2nd-IC	13011-1470 13011-1480 13011-1660 13011-1670 13011-1670A 3400-1205-09	
				2	3.500	x	4.800			
				3	3.500	x	4.800			
				O1	6.000	x	5.500			
ED100	6	11581	128.000	1	4.000	x	4.800	SDH20048ZZ 555	13011-2230A	
				2	4.000	x	4.800			
				3	3.500	x	4.800			
				O1	6.000	x	5.500			
EF100 EF100T	8	13804	130.000	1	3.500	x	5.200	SDH20018ZZ 555	13011-1580 13011-1590A 13011-1180 13011-1570 13011-1590 13011-1180A 13011-1570A 3391-1205-04	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
EF300 EF350	8	14232	132.000	1	3.306	x	5.200	SDH20024ZZ 555	13011-1091A 13011-1091B 13011-1100 13011-1101	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
EF500	8	14886	135.000	1	3.306	x	4.700	SDH20019ZX 555	13011-1131 13011-1131B 13011-1141 13011-1460	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
EF500	8	14886	135.000	1	3.306	x	4.850	SXH20019ZX DISCONTINUED 555 SS999	13011-1131 13011-1131B 13011-1141 13011-1460	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
EF550	8	16250	135.000	1	2.800	x	5.400	SDH20039ZX 1st-KS 2nd-IC	13011-2010A	
				2	3.500	x	5.400			
				3	6.000	x	5.400			
				O1	5.000	x	4.950			
EF550	8	16250	135.000	1	3.306	x	4.700	SDH20058ZX 555	13011-2700	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	5.000	x	4.950			
EF700 EF750	8	15920	137.000	1	3.306	x	4.700	SDH20025ZX 555	13011-1111 13011-1112 13011-1121 13011-1122	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			

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HINO DIESEL ENGINE										
EF700T EF750T	8	15920 16745	137.000	1 2 3 O1	3.306 3.306 3.500 6.000	x x x x	5.400 5.400 5.400 5.500	SDH20031ZZ SDH20031ZX 555 All Plt	13011-1890 13011-1891	
EF700T EF750T	8	15920 16745	137.000	1 2 3 O1	3.306 3.306 3.500 6.000	x x x x	5.050 5.400 5.400 5.700	SDH20031ZX 555 SS999	13011-1890 13011-1891	
EF700T EF750T	8	15920 16745	137.000	1 2 3 O1	3.306 3.306 3.500 6.000	x x x x	5.050 5.400 5.400 5.700	SJH20031ZX DISCONTINUED Mt.555	13011-1890 13011-1891	
EF750	8	15920	137.000	1 2 3 O1	2.806 3.500 3.000 5.000	x x x x	5.400 5.400 5.400 5.000	SDH20040ZZ 555 1st-KS	13011-1990A	
EG100	8	14886	135.000	1 2 3 O1	3.306 3.500 3.500 6.000	x x x x	5.400 5.400 5.400 5.500	SDH20019ZZ 555	13011-1131 13011-1131B 13011-1141 13011-1460	
EG100	8	14886	135.000	1 2 3 O1	3.306 3.500 3.500 6.000	x x x x	4.850 5.400 5.400 5.500	SXH20019ZX DISCONTINUED 555 SS999	13011-1131 13011-1131B 13011-1141 13011-1460	
EH100	6	5871	105.000	1 2 3 O1 O2	2.500 2.500 2.500 4.000 4.000	x x x x x	4.300 4.300 4.300 4.300 4.300	SHH20021ZZ DISCONTINUED Mt.500	13011-1150	
EH100	6	5871	105.000	1 2 3 O1 O2	2.500 2.500 2.500 4.000 4.000	x x x x x	3.850 4.300 4.300 4.300 4.300	SCH20021ZX 500 SS999	13011-1150	
EH300	6	6211	108.000	1 2 3 O1	3.000 2.500 5.000 4.000	x x x x	4.500 4.500 4.700 4.500	SJH20022ZZ SDH20022ZX Mt.555	13011-1032 13011-1032A 13011-1062	
EH300	6	6211	108.000	1 2 3 O1	3.000 2.500 5.000 4.000	x x x x	4.050 4.500 4.950 4.500	SDH20022ZX 555 SS999	13011-1032 13011-1032A 13011-1062	
EH500	6	6211	108.000	1 2 3 O1	3.000 2.500 2.500 5.000	x x x x	4.500 4.500 4.500 4.700	SJH20030ZZ DISCONTINUED Mt.555	13011-1860 13011-1860A	
EH500	6	6485	108.000	1 2 3 O1	3.000 2.500 2.500 5.000	x x x x	4.500 4.500 4.500 4.700	SJH20042ZZ SDH20042ZX Mt.555	13011-2080	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
EGH500	6	6485	108.000	1	3.000	x	4.050	SDH20042ZX	13011-2080	
				2	2.500	x	4.500	555 SS999		
				3	2.500	x	4.500			
				O1	5.000	x	4.950			
EH700	6	6443	110.000	1	3.000	x	4.500	SJH20043ZZ	13011-1610B	
				2	2.500	x	4.500	SDH20043ZX	13011-1620	
				3	2.500	x	4.500	Mt.555	13011-1620A	
				O1	5.000	x	4.700		13011-2070A	
EH700	6	6443 6728	110.000	1	3.000	x	4.500	SDH20043ZX	13011-1610B	
				2	2.500	x	4.500	555 SS999	13011-1620	
				3	2.500	x	4.500		13011-1620A	
				O1	5.000	x	4.700		13011-2070A	
EH700T1	6	6443	110.000	1	2.806	x	4.500	SDH20054ZZ	13011-2560A	
				2	2.500	x	4.500	DISCONTINUED 555	13011-2561A	
				3	2.500	x	4.500			
				O1	5.000	x	4.700			
EK100 EK200	6	13267	137.000	1	3.306	x	5.400	SDH20023ZZ	13011-1010	
				2	3.500	x	5.400	SDH30023ZX 555	13011-1011	
				3	3.500	x	5.400		13011-1021	
				O1	6.000	x	5.500		13011-1021B	
EK100 EK200	6	13267	137.000	1	3.306	x	5.400	SDH20023ZX	13011-1010	
				2	3.500	x	5.400	555 SS999	13011-1011	
				3	3.500	x	5.400		13011-1021	
				O1	6.000	x	5.500		13011-1021B	
EL100	6	7862	116.000	1	3.000	x	4.800	SDH20029ZZ	13011-1700	
				2	2.500	x	4.800	SDH20029ZX 555	13011-1700B	
				3	2.500	x	4.800		13011-1710	
				O1	5.000	x	4.700			
EL100	6	7862	116.000	1	3.000	x	4.250	SDH20029ZX	13011-1700	
				2	2.500	x	4.800	555 SS999	13011-1700B	
				3	2.500	x	4.800		13011-1710	
				O1	5.000	x	4.950			
EM100	6	9419	124.000	1	2.800	x	5.000	SDH20033ZZ	13011-1921	
				2	2.500	x	5.000	SDH30033ZX 555		
				3	3.000	x	5.000			
				O1	5.000	x	5.000			
EM100	6	9419	124.000	1	2.800	x	4.450	SDH20033ZX	13011-1921	
				2	2.500	x	5.000	555 SS999		
				3	3.000	x	5.000			
				O1	5.000	x	4.950			
EP100	6	8821	120.000	1	3.300	x	4.800	SJH20034ZZ	13011-1952	
				2	2.800	x	4.800	SDH20034ZX 555 1st-KS 2nd-IC		
				3	2.500	x	4.800			
				O1	5.000	x	4.700			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
EP100	6	8821	120.000	1	3.300	x	4.450	SDH20034ZX 555 1st-KS 2nd-IC	13011-1952	
				2	2.800	x	4.800			
				3	2.500	x	4.800			
				O1	5.000	x	4.950			
EP100	6	8821	120.000	1	3.300	x	4.800	SJH20050ZZ SDH20050ZZ 555 1st-KS 2nd-IC All Plt	13011-2370A	
				2	3.000	x	4.800			
				3	2.500	x	4.800			
				O1	5.000	x	4.700			
EP100	6	8821	120.000	1	3.300	x	4.450	SDH20050ZX 555 1st-KS 2nd-IC SS999	13011-2370A	
				2	3.000	x	4.800			
				3	2.500	x	4.800			
				O1	5.000	x	4.950			
ER200	6	11581	128.000	1	3.500	x	4.800	SDH20045ZZ 555	13011-1770 13011-1770B	
				2	3.000	x	4.800			
				3	3.000	x	4.800			
				O1	6.000	x	5.500			
EV700	10	19900	137.000	1	3.306	x	5.400	SDH20028ZZ 555	13011-1741 13011-1741B 13011-1751 13011-2200A	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
F17C	8	17238	139.000	1	3.306	x	5.400	SDH20053ZZ SDH30053ZX 1st-KS 555	13011-2180A	
				2	3.500	x	5.500			
				3	3.500	x	5.500			
				O1	5.000	x	5.500			
F17C	8	17238	139.000	1	3.306	x	5.400	SDH20053ZX 1st-KS 555 SS999	13011-2180A	
				2	3.500	x	5.500			
				3	3.500	x	5.500			
				O1	5.000	x	5.500			
F17D	8	17238	137.000	1	3.306	x	5.400	SDH20059ZZ SDH20059ZX 555	13011-2780 13011-2990 13011-2991 13011-3001	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	5.000	x	4.950			
F17D	8	17238	137.000	1	3.306	x	5.400	SDH20059ZX 555 SS999	13011-2780 13011-2990 13011-2991 13011-3001	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	5.000	x	4.950			
F17D	8	17238	137.000	1	3.306	x	4.700	SDH20095ZY 555	13011-3770A	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	4.000	x	4.150			
F17DT	8	17238	137.000	1	3.306	x	5.400	SJH20059ZZ DISCONTINUED Mt.555	13011-2850	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	5.000	x	4.950			

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HINO DIESEL ENGINE										
F17DT	8	17238	139.000	1	3.306	x	5.400	SJH20065ZZ	13011-2910A	
				2	3.306	x	5.400			
				3	3.500	x	5.400			
				O1	5.000	x	5.500			
								1st-KS Mt.555		
F17DTI	8	17238	139.000	1	3.306	x	5.400	SJH20078ZZ	13011-3480A	
				2	3.500	x	5.400			
				3	3.500	x	5.400			
				O1	4.000	x	4.150			
								1st-KS		
F17E	8	17238	139.000	1	3.306	x	5.400	SDH20070ZZ	13011-3150A	
				2	3.500	x	5.500			
				3	3.500	x	5.500			
				O1	5.000	x	4.950			
								DISCONTINUED 555		
F17E	8	17238	139.000	1	3.306	x	5.400	SDH20106ZZ		
				2	3.500	x	5.500			
				3	3.500	x	5.500			
				O1	5.000	x	4.950			
								DISCONTINUED 555		
F20C	8	19688	146.000	1	3.306	x	5.600	SJH20062ZZ	13011-2792A	
				2	3.500	x	5.600			
				3	3.500	x	5.700			
				O1	5.000	x	4.950			
								Mt.555		
F20C	8	19688	146.000	1	3.306	x	5.600	SJH20077ZZ	13011-3320A	
				2	3.000	x	5.600			
				3	3.000	x	5.700			
				O1	4.000	x	4.650			
								Mt.555		
F21C	8	19688	150.000	1	3.306	x	5.800	SJH20076ZY	13011-3310A	
				2	3.000	x	5.800			
				3	3.000	x	5.800			
				O1	4.000	x	4.650			
								Mt.555		
H06C	6	6485	108.000	1	3.000	x	4.500	SJH20042ZZ	13011-2080	
				2	2.500	x	4.500			
				3	2.500	x	4.500			
				O1	5.000	x	4.700			
								SDH20042ZX Mt.555		
H06C	6	6485	108.000	1	3.000	x	4.050	SDH20042ZX	13011-2080	
				2	2.500	x	4.500			
				3	2.500	x	4.500			
				O1	5.000	x	4.950			
								555 SS999		
H06BTA	6	6224	105.800	1	2.806	x	4.400	SDH20044ZZ	13011-2260A	
				2	2.500	x	4.400			
				3	2.500	x	4.400			
				O1	5.000	x	4.700			
								DISCONTINUED Mt.555	13011-2500A 13011-2630A	
H06BTI	6	6224	105.800	1	2.806	x	3.950	SJH20064ZZ	13011-2880A	
				2	2.500	x	4.400			
				3	2.500	x	4.400			
				O1	5.000	x	4.700			
								DISCONTINUED Mt.555		
H06BTI	6	6224	105.800	1	2.806	x	3.950	SDH20097ZZ	13011-3850A	
				2	2.500	x	4.400			
				3	2.500	x	4.400			
				O1	4.000	x	4.150			
								DISCONTINUED 555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
H06CTA	6	6485	108.000	1	2.800	x	4.500	SDH20037ZZ	13011-1961		
					2	2.500	x	4.500			SDH30037ZX
					3	2.500	x	4.500			555
					O1	5.000	x	4.700			1st-KS
H06CTA	6	6485	108.000	1	2.800	x	4.050	SDH20037ZX	13011-1961		
					2	2.500	x	4.500			555
					3	2.500	x	4.500			1st-KS
					O1	5.000	x	4.950			SS999
H06CTI	6	6485	108.000	1	2.800	x	4.500	SDH20075ZZ	13011-3281-A		
					2	2.500	x	4.500			555
					3	2.500	x	4.500			
					O1	5.000	x	4.700			
H06CTI	6	6485	108.000	1	2.800	x	4.050	SJH20084ZZ	13011-3520A		
					2	2.500	x	4.500			555
					3	2.500	x	4.500			SS999
					O1	5.000	x	4.950			
H07BT1	6		105.800	1	2.948	x	3.950	SDH20089ZZ	13011-3630A		
					2	2.000	x	4.400			555
					O1	4.000	x	4.350			
H07C	6	6443 6728	110.000	1	3.000	x	4.050	SJH20043ZZ	13011-1610B		
					2	2.500	x	4.500			SDH20043ZX
					3	2.500	x	4.500			Mt.555
					O1	5.000	x	4.950			13011-1620 13011-1620A 13011-2070A 13011-2090
H07C	6	6443 6728	110.000	1	3.000	x	4.500	SDH20043ZX	13011-1610B		
					2	2.500	x	4.500			13011-1620
					3	2.500	x	4.500			555
					O1	5.000	x	4.700			SS999
H07CT	6	6728	110.000	1	2.806	x	4.500	SJH20057ZZ	13011-2672A		
					2	2.000	x	4.500			SDH20057ZX
					3	2.500	x	4.500			Mt.555
					O1	4.000	x	4.150			
H07CT	6	6728	110.000	1	2.806	x	4.050	SDH20057ZX	13011-2672A		
					2	2.000	x	4.500			555
					3	2.500	x	4.500			SS999
					O1	4.000	x	4.350			
H07CT	6	6728	110.000	1	2.806	x	4.500	SJH20079ZZ	13011-3510A		
					2	2.000	x	4.500			1st-KS All Plt
					3	2.000	x	4.500			
					O1	4.000	x	4.150			
H07D	6	7412	110.000	1	3.000	x	4.500	SJH20056ZZ	13011-2651A		
					2	2.000	x	4.500			DISCONTINUED
					O1	4.000	x	4.150			Mt.555
H07D	6	7412	110.000	1	3.000	x	4.050	SDH20056ZX	13011-2651A		
					2	2.000	x	4.500			Mt.555
					O1	4.000	x	4.350			

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HINO DIESEL ENGINE										
J05C	4	5307	114.000	1	3.000	x	4.500	SJH20084ZZ	13011-3391B	
				2	2.000	x	4.500	DISCONTINUED	13019-1380A	
				O1	4.000	x	4.150	Mt.555		
J05C	4	5307	114.000	1	3.000	x	4.500	SDH20081ZY	13011-3391B	
				2	2.000	x	4.300	SJH20084ZY	13019-1380A	
				O1	4.000	x	4.350	SS999		
J05C	4	5307	114.000	1	2.500	x	4.350	SJH20086ZY	13011-3880A	
				2	2.000	x	4.300	DISCONTINUED	13011-3940A	
				O1	4.000	x	4.350	Mt.555	13019-1010B	
J05E	4	5123	112.000	1	2.500	x	4.150	SDH20108ZZ	13011-E0350	
				2	2.000	x	4.300	NEW		
				O1	4.000	x	4.350	555		
J07C	5	6634	114.000	1	2.500	x	4.350	SDH20087ZY	13011-3660A	
				2	2.000	x	4.300		13011-3900A	
				O1	4.000	x	4.350	555	13019-1010B	
J07C	5	6634	114.000	1	3.000	x	4.500	SDH20082ZZ	13011-3371B	
				2	2.000	x	4.300		13011-3771A	
				O1	4.000	x	4.350	Mt.555	13019-1380A	
J07E	5	6403	112.000	1	2.500	x	4.150	SDH20104ZY	13011-4050A	
				2	2.000	x	4.300		13019-1120A	
				O1	4.000	x	4.350	555		
J07E	5	6403	112.000	1	2.948	x	4.350	SDH20109ZZ	13011-E0370	
				2	2.000	x	4.300	NEW		
				O1	4.000	x	4.350	555		
J08BT1	6		110.900	1	2.948	x	3.950	SDH20098ZY	13011-3811A	
				2	2.000	x	4.600		13011-3860A	
				O1	4.000	x	4.450	555		
J08C	6	7961	114.000	1	3.000	x	4.500	SDH20067ZZ	13011-2960A	
				2	2.000	x	4.300	SJH20067ZZ	13011-2961A	
				O1	4.000	x	4.350	Mt.555	13011-2962A	
J08C	6	7961	114.000	1	2.500	x	4.300	SDH20088ZY	13011-3570A	
				2	2.000	x	4.300		13011-3820A	
				O1	4.000	x	4.350	555	13011-3870A	
J08C	6	7961	114.000	1	3.000	x	4.500	SWH20090ZZ	13011-3060A	
				2	2.000	x	4.500	SXH20090ZZ	13019-1390A	
				O1	4.000	x	3.400	Mt.777		
J08E	6		112.000	1	2.500	x	4.150	SDH20102ZY	13011-4040A	
				2	2.000	x	4.300		13019-1120A	
				O1	4.000	x	4.350	555		
K13BTI	6		132.900	1	3.306	x	4.800	SJH20074ZZ	13011-3210A	
				2	3.500	x	5.400			
Feg100				3	3.500	x	5.400	Mt.555		
				O1	5.000	x	5.500			
K13C	6	12882	135.000	1	3.306	x	5.400	SJH20051ZZ	13011-2410A	
				2	3.500	x	5.400			
				3	3.500	x	5.400	Mt.555		
				O1	6.000	x	5.500	1st-KS		
								2nd-IC		
								All Plt		

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HINO DIESEL ENGINE										
K13C	6	12882	135.000	1	3.306	x	5.400	SJH20063ZZ	13011-2841A	
				2	3.500	x	5.400	DISCONTINUED		
				3	3.500	x	5.400	Mt.555		
				O1	5.000	x	5.500			
K13C	6	12882	135.000	1	3.306	x	4.700	SJH20071ZX	13011-3090A	
				2	3.500	x	5.400	Mt.555		
				3	3.500	x	5.400			
				O1	5.000	x	4.950			
K13D	6	13267	137.000	1	3.306	x	5.400		SDH20061ZZ	13011-2770 13011-2771
				2	3.500	x	5.400	DISCONTINUED		
				3	3.500	x	5.400	555		
				O1	5.000	x	4.950			
K13D	6	13267	137.000	1	3.306	x	5.050	SDH20061ZX	13011-2770 13011-2771	
				2	3.500	x	5.400	555 SS999		
				3	3.500	x	5.400			
				O1	5.000	x	4.950			
M10U	6	9880	127.000	1	3.300	x	5.200		SDH20049ZY	13011-2250A
				2	3.000	x	5.000	555 1st-KS 2nd-IC All Plt		
				3	3.000	x	5.200			
				O1	3.000	x	5.000			
P09BTI	6	8501	117.800	1	3.306	x	4.800		SJH20046ZZ	13011-2280A
				2	2.806	x	4.800	Mt.555		
				3	2.500	x	4.800			
				O1	5.000	x	4.700			
P10CTI	6	8501	117.800	1	3.306	x	4.400		SDH20083ZZ	13011-3420A
				2	2.806	x	4.800	555		
				3	2.500	x	4.800			
				O1	5.000	x	4.650			
P11BT1 P11C	6	10520	122.000	1	3.306	x	4.400		SDH20073ZZ	13011-3110A 13011-3111A 13011-3112A 13011-3114A 13011-3114B 13011-3800A 13011-3830A 13011-3870A
				2	2.306	x	4.800	555		
				3	2.000	x	4.800			
				O1	4.000	x	4.650			
V21C	10	20932	137.000	1	3.306	x	5.400		SJH20060ZZ	13011-2730A
				2	3.500	x	5.400	DISCONTINUED		
				3	3.500	x	5.400	Mt.555		
				O1	5.000	x	5.500			
V22C	10	21548	139.000	1	3.306	x	5.400	SDH20052ZZ	13011-2470A 13011-2471A 13011-2472A	
				2	3.500	x	5.500	555 1st-KS 2nd-IC		
				3	3.500	x	5.500			
				O1	6.000	x	5.500			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
V22D	10	21548	139.000	1	3.306	x	5.400	SDH20066ZZ	13011-2920A	
				2	3.500	x	5.500	DISCONTINUED		
				3	3.500	x	5.600	555		
				O1	5.000	x	5.500			
V22D	10	21548	139.000	1	3.306	x	5.400	SDH20072ZY	13011-3170A 13011-3180	
				2	3.500	x	5.500	555		
				3	3.500	x	5.600			
				O1	5.000	x	4.950			
V25C	10	24610	146.000	1	3.306	x	5.600	SJH20069ZZ	13011-2980A	
				2	3.500	x	5.600	Mt.555		
				3	3.500	x	5.700			
				O1	5.000	x	4.950			
V26C	10	25977	150.000	1	3.306	x	5.550	SJH20080ZY	13011-3450A 13019-1730A	
				2	3.000	x	5.800	Mt.555		
				3	3.000	x	5.800			
				O1	4.000	x	4.650			
W04CT	4	3839	104.000	1	2.800	x	4.300	SJH20047ZZ	13011-2270A 13011-2270C	
				2	2.500	x	4.300	Mt.555 1st-KS		
				O1	5.000	x	4.700			
W04CTI	4	3839	104.000	1	2.806	x	4.300	SJH20068ZZ	13011-2891A	
				2	2.500	x	4.300	Mt.555		
				O1	4.000	x	4.150			
W04D	4	4009	104.000	1	2.500	x	4.300	SJH20038ZZ	13011-1973 13011-2540	
				2	2.000	x	4.300	DISCONTINUED		
				O1	5.000	x	4.700	Mt.555		
W04D	4	4009	104.000	1	2.500	x	3.850	SDH20038ZX	13011-1973 13011-2540	
				2	2.000	x	4.300	555		
				O1	5.000	x	4.850	SS999		
W04DJ	4	4009	104.000	1	2.500	x	3.700	SDH20099ZZ	13011-3950A	
				2	2.000	x	4.300	555		
				O1	4.000	x	4.350			
W04DTK	4	4009	104.000	1	2.806	x	4.300	SDH20099ZZ	13011-4080B	
				2	2.000	x	4.300	Mt.555		
				O1	4.000	x	4.350			
W04D-TK	4	4009	104.000	1	2.806	x	3.850	SDH20103ZX	13011-4080B 13019-1170A (Cyl)	
				2	2.000	x	4.300	DISCONTINUED		
				O1	4.000	x	4.350	Mt.555		
W06D	6	5759	104.000	1	2.500	x	4.300	SJH20041ZZ	13011-1983 13011-2420 13011-2440	
				2	2.000	x	4.300	SDH20041ZX		
				O1	5.000	x	4.700	Mt.555		
W06D	6	5759	104.000	1	2.500	x	3.850	SDH20041ZX	13011-1983 13011-2420 13011-2440	
				2	2.000	x	4.300	555		
				O1	5.000	x	4.850	SS999		
W06DTI	6	6014	104.000	1	2.806	x	4.300	SJH20055ZZ	13011-2610A 13011-2680A 13011-2950A 13019-1160A (Cyl)	
				2	2.500	x	4.300			
				O1	5.000	x	4.700			

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YK28	4		104.000	1	2.500	x	3.750	SDH20101ZY	13011-4020A	
				2	2.000	x	3.700	NEW		
				O1	4.000	x	4.350	555		
YK37	4		137.000	1	3.306	x	4.350	SDH20100ZY	13011-4010A	
				2	2.806	x	4.900	Mt.555		
				3	2.500	x	4.500			
				O1	4.000	x	4.400			
YJ38 YJ39	6		135.000	1	3.306	x	5.400	SJH20085ZZ	13011-3540A	
				2	3.500	x	5.400	Mt.555		
				3	3.500	x	5.400			
				O1	4.000	x	2.850			
YJ66	8		137.000	1	3.306	x	4.950	SJH20095ZZ	13011-3770A	
				2	3.500	x	5.400	DISCONTINUED		
				3	3.500	x	5.400	Mt.555		
				O1	4.000	x	4.950			
YJ67	8		150.000	1	3.306	x	5.550	SJH20093ZY	13011-3760A	
				2	3.000	x	5.800	DISCONTINUED		
				3	3.000	x	5.800	Mt.555		
				O1	4.000	x	4.650			
YJ70	6		122.000	1	3.306	x	4.400	SDH20073ZZ	13011-3810A 13011-3811A	
				2	2.306	x	4.800	555		
				3	2.000	x	4.800			
				O1	4.000	x	4.650			
YJ73 YJ74	6		135.000	1	3.306	x	4.950	SJH20092ZZ	13011-3790A	
				2	3.500	x	5.400	DISCONTINUED		
				3	3.500	x	5.400	Mt.555		
				O1	5.000	x	4.950			
YJ75	4		114.000	1	2.500	x	4.300	SDH20091ZZ	13011-3221A	
				2	2.000	x	4.300	SDH20086ZY		
				O1	4.000	x	4.350	555		
YJ97	6		122.000	1	3.306	x	4.400	SWH20096ZZ	13011-3840A	
				2	2.306	x	4.800	DISCONTINUED		
				3	2.000	x	4.800	777		
				O1	4.000	x	3.400			

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4ZE1	4	2559	92.600	1	1.500	x	3.100	SWH40162ZZ	8-9037-801-1	PASSPORT					
				2	1.500	x	3.400	SWH10144ZZ							
				O1	4.000	x	2.500	777							
611	2	360	67.000	1	1.500	x	2.900	SWH30059ZZ	13011-611-003 13011-611-004						
				2	1.500	x	2.900	777							
				O1	2.800	x	2.750	777							
6VD1	6	3165	93.400	1	1.500	x	3.450	SWI10185ZZ	8-97162-198-0	PASSPORT SLX					
				2	1.500	x	4.000	777							
				O1	4.000	x	3.150	777							
6VE1	6	3494	93.400	1	1.500	x	3.250	SWI10191ZZ	8-97136-135-0	PASSPORT SLX					
				2	1.500	x	4.000	777							
				O1	3.000	x	2.850	777							
A18A1	4	1829	80.000	1	1.500	x	3.050	SWH30251ZZ	13011-PH2-003	PRELUDE					
				2	1.500	x	3.400	777							
				O1	4.000	x	2.650	777							
A18A7	4	1829	80.000	1	1.200	x	3.050	SWH30409ZZ	13011-PH2-902	ACCORD PRELUDE					
				2	1.200	x	3.300	777							
				O1	2.800	x	2.850	777							
A20A	4	1955 2000	82.700	1	1.500	x	3.100	SWH30386ZZ	13011-PH4-601 13011-PH4-602	ACCORD					
				2	1.500	x	3.500	777							
				O1	4.000	x	3.200	777							
A20A A20A1 A20A3	4	1955 2000	82.700	1	1.500	x	3.100	SWH30366ZZ	13011-PH4-004 13011-PH4-751	ACCORD PRELUDE					
				2	1.500	x	3.200	777							
				O1	4.000	x	3.250	777							
B16A2 B16A3	4	1590	81.000	1	1.000	x	3.100	SWH30373ZZ	13011-PR3-003 13011-PR3-004	CIVIC DEL SOL					
				2	1.200	x	3.300	777							
				O1	2.800	x	2.700	777							
B17A1	4	1678						13011-PR4-A02	INTEGRA						
B18A1 B18B1 B18C1	4	1835													
B18A B20A	4	2000	81.000	1	1.200	x	3.100	SWH30396ZZ	13011-PH3-004 13011-PH3-901 13011-PH5-003 13011-PJ5-601 13011-PK1-003	PRELUDE					
				2	1.200	x	3.200	SWH30375ZZ							
				O1	2.800	x	3.050	777							
B20A B20A3 B20A5	4	1958	81.000	1	1.200	x	3.100	SWH30375ZZ	13011-PK1-751	PRELUDE					
				2	1.500	x	3.200	777							
				O1	2.800	x	2.800	777							
B20B4 B20Z2	4	1972	84.000	1	1.200	x	2.900	SWH30437ZZ	13011-P3F-003 13011-PHK-003	CR-V					
				2	1.200	x	3.400	777							
				O1	2.800	x	2.600	777							
B21A1	4	2056	83.000	1	1.200	x	3.050	SWH30448ZZ	13011-PK3-A04	PRELUDE					
				2	1.200	x	3.100	777							
				O1	2.800	x	2.800	777							
BS BT	4	1955	82.700	1	1.500	x	3.100	SWH30366ZZ	13011-PH4-004	ACCORD PRELUDE					
				2	1.500	x	3.200	777							
				O1	4.000	x	2.650	777							

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
C20A	6	1996	82.000	1	1.200	x	3.050	SWH30449ZZ	13011-PH6-003	LEGEND
				2	1.200	x	3.300	777		
				O1	2.800	x	2.850			
C25A1	6	2494	84.000	1	1.200	x	3.100	SWH30369ZZ	13011-PH7-004	LEGEND
				2	1.200	x	3.600	777		
				O1	4.000	x	3.200			
C27A1 C27A4	6	2675	87.000	1	1.200	x	3.100	SWH30370ZZ	13011-P0G-A01 13011-P0G-A02	ACCORD LEGEND
				2	1.200	x	3.500	777		
				O1	4.000	x	2.440			
C30A1	6	2977	90.000	1	1.200	x	3.100	SWH30368ZZ	13011-PR7-A02	NSX NSX-T
				2	1.200	x	3.400	DISCONTINUED		
				O1	2.800	x	2.850	777		
C32A1	6	3206	90.000	1	1.200	x	3.300	SWH30371ZZ	13011-P5G-003 13011-P5G-004 13011-PY3-003	3.2CL 3.2TL LEGEND
				2	1.200	x	3.700	777		
				O1	2.800	x	2.850			
C32B1	6	3179	93.000	1		x		NA	-	NSX NSX-T
				2		x				
				O1		x				
C35A1	6	3474	90.000	1		x		NA	13011-P5A-004	3.5RL
				2		x				
				O1		x				
D13A2	4	1342	74.000	1	1.200	x	2.800	SWH30252ZZ	13011-PE0-662	CRX
				2	-	x	-	777		
				O1	2.800	x	1.750			
D15A2	4	1488	74.000	1	1.200	x	2.800	SWH30253ZZ	13011-PA6-014	CRX
				2	1.200	x	3.200	777		
				O1	2.800	x	2.800			
D15A3	4	1488	74.000	1	1.500	x	2.900	SWH30486ZZ	04151-PE7-305	CRX
				2	1.500	x	3.200	SWH30114ZZ		
				O1	4.000	x	2.520	777		
D15B D15B1 D15B2 D15B7 D15B8	4	1493	75.000	1	1.200	x	2.700	SWH30365ZZ	13011-P04-G02 13011-PM5-A02	CIVIC CRX DEL SOL INTEGRA
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800			
D15B6	4	1493	75.000	1	1.000	x	2.700	SWH30363ZZ	13011-PM8-A02	CRX
				2	1.200	x	3.200	777		
				O1	2.800	x	2.400			
D15B7	4	1493	75.000	1	1.200	x	2.700	SWH30445ZZ	13011-PO4-G02	
				2	1.200	x	3.000	777		
				O1	2.800	x	2.800			
D15B7 D15B8	4	1493	75.000	1	1.200	x	2.800	SWH30362ZZ	13011-P10-A03	CIVIC DEL SOL
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800			
D15Z1	4	1493	75.000	1	1.000	x	2.650	SWH30423ZZ	13011-P07-004	CIVIC DEL SOL
				2	1.200	x	3.000	777		
				O1	2.800	x	2.550			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
D16A D16A1 D16A6	4	1590	75.000	1 2 O1	1.200 1.500 2.800	x x x	2.800 3.200 2.800	SWH30362ZZ Mt.777	13011-PM6-G02	CIVIC CRX INTEGRA
D16A1	4	1590	75.000	1 2 O1	1.200 1.500 2.800	x x x	2.700 3.200 2.800	SWH30365ZZ 777	13011-PJ1-752	INTEGRA
D16Y5 D16Y7 D16Y8	4	1590	75.000	1 2 O1	1.000 1.200 2.800	x x x	2.650 3.000 2.550	SWH30423ZZ 777	13011-P07-004 13011-P2F-A01	CIVIC DEL SOL
D16Z6	4	1590	75.000	1 2 O1	1.200 1.500 2.800	x x x	2.800 3.200 2.800	SWH30362ZZ Mt.777	13011-P28-A02	CIVIC DEL SOL
D17A1	4	1668	75.000	1 2 O1	1.000 1.200 2.000	x x x	2.650 3.000 2.450	SWH30440ZZ 777	13011-PLM-A00	CIVIC
D17A7 D17A8	4	1668	75.000	1 2 O1	1.000 1.200 2.000	x x x	2.650 3.000 2.450	SWH30440ZZ 777	13011-PLR-A00	CIVIC
EB1	4	1169	70.000	1 2 O1	1.500 1.500 2.800	x x x	2.800 2.600 3.150	SWH30107ZZ 777	13011-634-004 13011-634-013 13011-634-305	CIVIC
EB2	4	1237	72.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.400 2.400	SWH30184ZZ 777	13011-642-004	CIVIC
EB3	4	1237	72.000	1 2 O1	1.500 1.500 4.000	x x x	3.400 3.400 3.100	SWH30109ZZ SWH30162ZZ 777	13011-673-000 13011-PA1-004	CIVIC
EC	4	1488	74.000	1 2 O1	1.500 1.200 2.800	x x x	3.400 3.400 3.200	SWH30091ZZ 777	13011-657-003 13011-657-305 13011-657-315 13011-657-604	CIVIC
ECA-MF2	3	995	72.000	1 2 O1		x x x		NA	13011-PHM-004	INSIGHT
ED ED3 ED4 EE EF EF1	4	1488 1238 1599	74.000	1 2 O1	1.500 1.500 4.000	x x x	3.400 3.400 3.100	SWH30114ZZ 777	13011-657-670 13011-657-671 13011-657-674 13011-657-675 13011-671-004 13011-671-010	ACCORD CIVIC
EF	4	1488	74.000	1 2 O1	1.200 1.200 2.800	x x x	2.800 3.200 2.800	SWH30253ZZ 777	13011-PA6-014 13011-PE1-004	CIVIC CRX
EJ EJ1	4	1335	72.000	1 2 O1	1.500 1.500 4.000	x x x	3.400 3.400 3.100	SWH30109ZZ SWH30162ZZ 777	13011-673-000 13011-679-621 13011-695-004 13011-PA0-004	CIVIC

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EJ1	4	1335	72.000	1	1.000	x	2.800	SWH30219ZZ	13011-PA5-004	CIVIC
				2	1.200	x	3.200	777		
				O1	2.800	x	2.400			
EK	4	1750	77.000	1	1.500	x	2.850	SWH30183ZZ	13011-PB1-003	
				2	1.500	x	3.300	SWH30158ZZ		
				O1	4.000	x	3.250	777		
EK EK1	4	1750	77.000	1	1.500	x	3.300	SWH30158ZZ	13011-676-602 13011-676-604 13011-676-642 13011-689-003 13011-689-005 13011-689-015 13011-PB2-005 13011-PC3-601 13011-PC3-603	ACCORD PRELUDE
				2	1.500	x	3.300	777		
				O1	4.000	x	3.050			
EM	4	1488	74.000	1	1.500	x	2.900	SWH30486ZZ	13011-PA6-004	CIVIC
				2	1.500	x	3.200	SWH30114ZZ		
				O1	4.000	x	3.250	777		
EM1	4	1488	74.000	1	1.500	x	2.700	SWH30114ZZ	13011-657-674	CIVIC
				2	1.500	x	3.200	777		
				O1	4.000	x	2.250			
EM1	4	1488	74.000	1	1.200	x	2.700	SWH30253ZZ	13011-PE1-004	CIVIC
				2	1.200	x	3.200	777		
				O1	2.800	x	2.250			
EN	4	1335	72.000	1	1.500	x	3.400	SWH30409ZZ	13011-673-000 13011-679-621 13011-695-004 13011-PAO-004	CIVIC
				2	1.500	x	3.400	SWH30162ZZ		
				O1	4.000	x	3.100	777		
EN	4	1200	72.000	1	1.500	x	3.100	SWH30162ZZ	13011-PA1-004	CIVIC
				2	1.500	x	3.400	Mt.777		
				O1	4.000	x	3.100			
EN	4	1300	72.000	1	1.500	x	3.100	SWH30162ZZ	13011-PA5-003 13011-PA5-004	CIVIC
				2	1.500	x	3.400	777		
				O1	4.000	x	3.100			
EP	4	1601	77.000	1	1.500	x	3.300	SWH30158ZZ	13011-689-003 13011-689-005 13011-689-015 13011-PC3-601 13011-PC3-603	ACCORD PRELUDE
				2	1.500	x	3.300	777		
				O1	4.000	x	3.050			
ES ES1 ES2 ES3 ET2	4	1829	80.000	1	1.500	x	3.050	SWH30251ZZ	13011-PC6-004 13011-PC6-013 13011-PC7-023 13011-PD6-003 13011-PH1-003 13011-PH2-003	ACCORD PRELUDE
				2	1.500	x	3.400	777		
				O1	4.000	x	3.250			
EV1	4	1342	74.000	1	1.200	x	2.280	SWH30252ZZ	13011-PE0-662	CIVIC CRX
				2	-	x	-	777		
				O1	2.800	x	1.750			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
HONDA GASOLINE ENGINE										
EV	4	1488	74.000	1	1.500	x	2.900	SWH30326ZZ	13011-PE3-004	CIVIC
EW	4	1342		2	1.500	x	3.200	777		CRX
				O1	4.000	x	3.250			
EW	4	1488	74.000	1	1.200	x	2.700	SWH30364ZZ	13011-PE7-014	
				2	1.200	x	3.200	SWH30253ZZ		
				O1	2.800	x	2.850	777		
EW1	4	1488	74.000	1	1.200	x	2.700	SWH30374ZZ	13011-PE0-004	CIVIC
				2	1.200	x	3.200	777		CRX
				O1	2.800	x	2.250			
EW1 EW3	4	1488	74.000	1	1.200	x	2.700	SWH30253ZZ	13011-PA6-014	CIVIC
				2	1.200	x	3.200	777		CRX
				O1	2.800	x	2.250			
EW3 EW4	4	1488	74.000	1	1.500	x	2.900	SWH30486ZZ	04151-PE7-305	CIVIC
				2	1.500	x	3.200	SWH30114ZZ		CRX
				O1	4.000	x	2.520	777		
EY	4	1598	80.000	1	1.500	x	3.050	SWH30251ZZ	13011-PC6-004	ACCORD
				2	1.500	x	3.400	777	13011-PC6-013	PRELUDE
				O1	4.000	x	3.250		13011-PC7-023	
									13011-PD6-003	
									13011-PH1-003	
									13011-PH2-003	
F20C	4	1997	87.000	1		x		NA	13011-PCX-004	S2000 CONCEPT
				2		x				
				O1		x				
F22A F22B	4	2200	85.000	1	1.200	x		SWH30476ZZ	13011-PT4-X01	ACCORD
				2	1.200	x		DISCONTINUED	13011-PT4-X02	
				O1	2.800	x		777	13011-PT4-X03	
									13011-PT4-X04	
F22A1 F22A4 F22A6 F22B1 F22B2 F22B6	4	2156	85.000	1	1.200	x	3.100	SWH30383ZZ	13011-P0A-A04	2.2CL
				2	1.200	x	3.100	777	13011-P0H-004	ACCORD
				O1	2.800	x	2.850			PRELUDE
										ODYSSEY
F23A1 F23A4 F23A5	4	2254	86.000	1	1.200	x	2.900	SWH30443ZZ	13011-P8A-A01	2.3CL
				2	1.200	x	3.400	777		ACCORD
				O1	2.800	x	2.850			
F23A7	4	2253	86.000	1	1.200	x	2.900	SWH30443ZZ	13011-PEA-003	ODYSSEY
				2	1.200	x	3.400	777	13011-PEA-004	
				O1	2.800	x	2.850			
G25A1 G25A4	5	2456	85.000	1	1.200	x	3.100	SWH30367ZZ	13011-PV1-003	2.5TL
				2	1.200	x	3.400	777		VIGOR
				O1	2.800	x	2.850			
H22A1	4	2156	87.000	1	1.200	x	3.100	SWH30433ZZ	13011-P13-004	PRELUDE
				2	1.200	x	3.200	777		
				O1	2.800	x	2.650			
H22A3 H22A4	4	2156	87.000	1	1.200	x	3.100	SWH30433ZZ	13011-P5M-003	PRELUDE
				2	1.200	x	3.200	777		
				O1	2.800	x	2.550			

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H23A1	4	2259	87.000	1	1.200	x	3.100	SWH30433ZZ	13011-P5M-003	PRELUDE
				2	1.200	x	3.200	777		
				O1	2.800	x	2.550			
J30A1	6	2997	86.000	1	1.200	x	2.900	SWH30432ZZ	13011-P8A-A01	3.0CL ACCORD
				2	1.200	x	3.400	777		
				O1	2.800	x	2.850			
J32A1	6	3206	89.000	1	1.200	x	3.050	SWH30438ZZ	13011-P8F-A01	3.2CL 3.2TL
				2	1.200	x	3.400	777		
				O1	2.800	x	2.850			
J35A1	6	3471	89.000	1	1.200	x	3.050	SWH30438ZZ	13011-P8F-A01	ODYSSEY
				2	1.200	x	3.400	777		
				O1	2.800	x	2.850			
K20A1	4	1998	86.000	1	1.200	x	2.900	SWH30454ZZ	13011-PNE-G02	RSX CIVIC Si
				2	1.200	x	3.400	777		
				O1	2.000	x	2.500			
K24A2	4	2354	87.000	1	1.200	x	3.100	SWH30435ZZ	13011-RBB-006	TSX
				2	1.200	x	3.400	YWH30435/4		
				O1	2.500	x	2.500	777		
KAB	4	72.000	72.000	1	1.000	x	2.850	SWH30444ZZ	13011-KAB-305	
				2	1.000	x	2.800	DISCONTINUED		
				O1	2.500	x	2.500	777		
LDA-MF3	4	1339	73.000	1	1.000	x	2.250	SWH30474ZZ	13011-PWA-G01	
				2	1.200	x	3.000	777		
				O1	2.000	x	2.200			
N360	2	354	62.500	1	1.500	x	2.800	SWH30036ZZ	13011-567-325 13011-601-000	
				2	1.500	x	2.800	DISCONTINUED		
				O1	2.500	x	2.750	777		
PE6 PEO	4	1300	74.000	1	1.200	x	2.800	SWH30252ZZ	13011-PEO-662	
		1342		O1	2.800	x	2.850	777		
PK1 PKI	4	1800	81.000	1	1.200	x	3.100	SWH30375ZZ	13011-PK1-751	
		1958		2	1.500	x	3.200	777		
		O1		2.800	x	2.800				
PK1	4	2056	83.000	1	1.200	x	3.050	SWH30448ZZ	13011-PK3-A04	PRELUDE
				2	1.200	x	3.100	777		
				O1	2.800	x	2.800			
PM6	4	1590	75.000	1	1.200	x	2.800	SWH30362ZZ	13011-PM6-G02	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800			
PT1	4	2000	85.000	1	1.200	x	3.050	SDH30444ZZ	13011-PT1-M02	
				2	1.200	x	3.400	555		
				O1	3.000	x	3.250			
PT4	4	2200	85.000	1	1.200	x		SWH30476ZZ	13011-PT4-X01 13011-PT4-X02 13011-PT4-X03 13011-PT4-X04	ACCORD
				2	1.200	x		DISCONTINUED		
				O1	2.800	x		777		
R18A1	4	1799	81.000	1	1.200	x	2.500	SWH30484ZY	13011-RNA-A02	
R20A1	4	1997	81.000	2	1.200	x	3.400	NEW	13011-RNB-A02	
				O1	2.000	x	2.500	777	13011-RZP-004	

EXPORT PISTON RINGS



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R40A1	4	2354	87.000	1	1.200	x	2.650	SWH30488ZZ	13011-R40-A01	
				2	1.200	x	3.400	NEW		
				O1	2.000	x	2.500	777		
RAA	4	2354	87.000	1	1.200	x	3.100	SWH30466ZZ	13011-RAA-A01	
				2	1.200	x	3.400			
				O1	2.000	x	2.500	777		
RB0	4	1300	73.000	1	1.000	x	2.350	SWH30465ZZ	13011-RB0-006	
RB1	4	1500		2	1.000	x	2.300	NEW		
RBB	4	2400	87.000	1	1.200	x	3.100	SWH30435ZZ	13011-RBB-006	
				2	1.200	x	3.400	NEW		
				O1	2.500	x	2.500	777		
RGA	1		71.000	1	1.200	x	2.550	YWH30442ZZ	13011-RGA-0060	
				2	1.200	x	2.800	YWH30442ZY		
				O1	2.500	x	2.500	777		
RGB	1		71.000	1	1.200	x	2.450	YWH30442ZY	13011-RGB-0060	
				2	1.200	x	2.800			
				O1	2.500	x	2.500	777		
RKG	6		90.000	1	1.200	x	3.100	SDH30469ZZ	13011-RKG-E020-M4	LEGEND
2				1.200	x	3.400	DISCONTINUED			
01				2.000	x	2.750	777			
RL5	4	2400	87.000	1	1.200	x	2.700	SWH30467ZZ	13011-RL5-A02	
				2	1.200	x	3.400	NEW		
				O1	2.000	x	2.500	777		
RS8	3	658	71.000	1	1.000	x	2.350	SWH30473ZZ	13011-RS8-006	
2				1.200	x	2.800	NEW	13011-RS9-006		
O1				2.000	x	2.250	777			
RW0	4	1339	73.000	1	1.000	x	2.350	SWH30479ZZ	13011-RW0-006	
				2	1.000	x	2.300	NEW		
				O1	2.000	x	2.250	777		
SH4	4	1488	75.000	1	1.200	x	2.700	SWH30382ZZ	13011-PM0-B02	CIVIC CRX INTEGRA
		1500		2	1.500	x	3.200			
				O1	4.000	x	3.250	777		
SM4	4	2159	85.000	1	1.200	x	3.050	SWH30383ZY	13011-PT0-B03	
				2	1.200	x	3.400			
				O1	2.800	x	2.850	777		
TN360	2	354	62.500	1	1.500	x	2.800	SWH30036ZZ	13011-567-325	
TN360E				2	1.500	x	2.800	DISCONTINUED	13011-601-000	
				O1	2.500	x	2.750	777		

EXPORT PISTON RINGS



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ALPHA	4	1600	76.500	1	1.200	x	2.850	SWG30034ZZ	23040-23100	
				2	1.200	x	3.200		23040-23150	
				O1	2.000	x	2.500	777		
BETA 1.6	4	1559	77.400	1	1.200	x	2.850	SWG30025ZZ	23040-23100	
				2	1.200	x	3.300		23040-23150	
				O1	2.500	x	2.800	777		
BETA 1.8	4	1795	82.000	1	1.200	x	3.050	SWG30028ZY	23040-23000	TIBURON
				2	1.200	x	3.500		23040-23050	
				O1	2.500	x	2.850	777		
BETA 2.0	4	1975	82.000	1	1.200	x	3.050	SWG30028ZY	23040-23200	TUCSON
				2	1.200	x	3.500			
				O1	2.500	x	2.850	777		
EF2.0	4	1997	85.000	1	1.200	x	3.100	SWG30026ZZ	23040-38100	
				2	1.500	x	3.800			
				O1	2.800	x	2.550	777		
G4AE Alpha 1.5	4	1468	75.500	1	1.500	x	3.050	SWG30017ZX	23040-22010	ACCENT SCOUPE
				2	1.500	x	3.100			
				O1	3.000	x	2.800	777		
G4CP Sirius 2.4D	4	2350	85.000	1	1.200	x	3.100	SWM31071ZZ	23040-33150	GRANDEUR MARCIA SONATA
				2	1.500	x	3.800			
				O1	3.000	x	2.550	777		
G4CR (G4R)	4	1595	82.300	1	1.200	x	3.100	SWG30021ZZ	23040-33030	ELANTRA
				2	1.500	x	3.800			
				O1	3.000	x	2.850	777		
G4DJ	4	1468	75.500	1	1.500	x	3.300	SWG30015ZZ	23040-24200	EXCEL SCOUPE
				2	1.500	x	3.300	SWG30023ZZ		
				O1	4.000	x	2.650	777		
G4EA, X1 Alpha 1.3 Alpha 1.3s	4	1341	71.500	1	1.500	x	2.650	SWG30016ZZ	23040-22300	ACCENT
				2	1.500	x	3.100		23040-22351	
				O1	3.000	x	2.850	777		
G4EA, X1 MPI	4	1341	71.500	1	1.200	x	2.650	SWG30036ZZ	23040-22301	ACCENT
				2	1.200	x	3.000			
				O1	2.000	x	2.500	777		
G4EB	4	1468	75.500	1	1.500	x	3.050	SWG30017ZZ	23040-22601	ACCENT AVENTE
				2	1.500	x	3.100			
				O1	3.000	x	2.750	777		
G4ED	4	1599	76.500	1	1.200	x	2.850	SWG30030ZZ	23040-26101	ACCENT
				2	1.200	x	3.300			
				O1	2.500	x	2.800	777		
G4EK Alpha 1.5	4	1468	75.500	1	1.200	x	2.850	SWG30019ZZ	23010-26001	ACCENT AVENTE
				2	1.500	x	3.300			
				O1	3.000	x	2.750	777		
G4EK MPI	4	1468	75.500	1	1.200	x	2.850	SWG30035ZZ	23010-26002	ACCENT
				2	1.200	x	3.300			
				O1	2.000	x	2.800	777		
G4EK Alpha 1.5	4	1468	75.500	1	1.500	x	2.850	SWG30023ZZ	23040-21110	EXCEL
				2	1.500	x	3.300			
				O1	4.000	x	3.250	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
G4GB	4	1795	82.000	1	1.200	x	3.050	SWG30028ZY	23040-23000	TIBURON
Beta 1.8D				2	1.200	x	3.500	777	23040-23050	
				O1	2.500	x	2.850			
G4HA	4	798	63.000	1	1.200	x	2.250	SWG30020ZZ	23040-02511	ATOS
Epsilon 0.8				2	1.500	x	2.800	777		
				O1	2.800	x	2.750			
G4HC	4	999	66.000	1	1.200	x	2.250	SWG30018ZZ	23040-02700	ATOS
Epsilon 1.0				2	1.200	x	2.900	777		
				O1	2.500	x	2.750			
G4HG	4	1086	67.000	1	1.200	x	2.300	SWG30031ZZ	23040-02820	SANTRO
Epsilon 1.1				2	1.200	x	2.700	NEW 777		
				O1	2.500	x	2.500			
G4HG	4	1086	67.000	1	1.200	x	2.300	SWG30038ZZ	23040-02950	SANTRO
Epsilon 1.1				2	1.200	x	2.800	777	23040-02955	
				O1	2.000	x	2.650		23040-02970	
G4HG	4	1086	67.000	1	1.200	x	2.300	SWG30051ZZ	23040-02980	SANTRO
Epsilon 1.1				2	1.200	x	2.800	NEW 777		
				O1	2.500	x	2.450			
G4JN	4	1836	81.500	1	1.200	x	3.100	SWG30032ZZ	23040-33430	ELANTRA SONATA
Sirius 1.8D				2	1.500	x	3.600	777		
				O1	3.000	x	2.550			
G4JP, Y2	4	1997	85.000	1	1.200	x	3.100	SWG30027ZZ	23040-33140	GRANDEUR MARCIA SONATA
Sirius 2.0D				2	1.500	x	3.800	777		
				O1	3.000	x	2.550			
G4JP	4	1975	82.000	1	1.200	x	3.050	SWG30028ZY	23040-23200	ELANTRA TUCSON
				2	1.200	x	3.500	777		
				O1	2.500	x	2.750			
G4JS	4	2350	86.500	1	1.500	x	3.500	SWG30024ZZ	23040-32610	GRACE GRANDEUR SONATA
Sirius 2.4D				2	1.500	x	3.800	777		
				O1	4.000	x	3.300			
G4JS	4	2350	86.500	1	1.200	x	3.100	SWG30047ZZ	23040-38200	SANTA FE
Sirius II 2.4D				2	1.500	x	3.800	NEW 777	23040-38212	
				O1	2.800	x	2.550			
G4JS, Y2.4	4	2350	86.500	1	1.500	x	3.500	SWL03075ZZ	23040-32740	
				2	1.500	x	3.800	DISCONTINUED 777		
				O1	3.000	x	2.550			
G4KC	4	2359	88.000	1	1.200	x	3.050	SWG30041ZZ	23040-25200	SONATA TUCSON
				2	1.200	x	3.600	777		
				O1	2.000	x	2.450			
GAMMA 1.4	4	1396	77.000	1	1.200	x	2.850	SWG30046ZZ	23040-2B000	AVANTE
GAMMA 1.6	4	1591		2	1.200	x	3.050	NEW 777		
				O1	2.000	x	2.550			
G6AT	6	2972	91.100	1	1.500	x	3.300	SWM31080ZZ	23040-35010	GALLOPER GRANDEUR SONATA
V6 3.0D				2	1.500	x	3.800	777	23040-35500	
				O1	4.000	x	3.250		23040-35520	
G6BA	6	2656	86.000	1	1.200	x	3.050	SWG30037ZZ	23040-37300	TUCSON
Delta 2.7				2	1.200	x	3.600	777		
				O1	2.500	x	2.900			

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HYUNDAI GASOLINE ENGINE										
G6BA Delta 2.7	6	2656	86.000	1	1.200	x	3.050	SWG30045ZZ	23040-3E001	
				2	1.200	x	3.000	NEW		
				O1	2.000	x	2.650	777		
G6CU	6	3467	93.000	1	1.500	x	3.500	SWM31121ZZ	23040-39800	XG350
				2	1.500	x	3.900			
				O1	3.000	x	2.850	777		
THETA 2.0L	4	1998	86.000	1	1.200	x	3.500	SWG30042ZZ	23040-25000	SONATA
				2	1.200	x	3.600			
				O1	2.000	x	2.450	777		
X11	4		71.000	1	1.500	x	2.650	SWG30022ZZ	23040-24010	
				2	1.500	x	3.100			
				O1	4.000	x	3.250	777		
Y2	4	1997	85.000	1	1.500	x	3.300	SWG30029ZZ	23040-32800	
				2	1.500	x	3.700			
				O1	4.000	x	3.150	777		

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HYUNDAI DIESEL ENGINE										
D	4	1991	83.000	1	1.930	x	2.900	SDG30073ZZ	23040-29750	SANTA FE
				2	2.000	x	3.800	DISCONTINUED		
				O1	3.000	x	3.250	555		
D4AE (OLD)	4	3298	100.000	1	3.000	x	4.000	SDG30004ZX	23040-41060	HD72 MIGHTY
				2	2.000	x	4.200			
				O1	5.000	x	4.800	555		
								SS999		
D4AE	4	3298	100.000	1	2.850	x	4.000	SDG30002ZZ	23040-41400	H3.5 HD72 MIGHTY
				2	2.000	x	4.000			
				O1	4.000	x	4.150	555		
D4AF	4	3567	104.000	1	3.000	x	4.100	SDG30005ZX	23040-41200	K-1 MIGHTY
				2	2.000	x	4.200			
				O1	4.000	x	4.150	Mt.555		
								1st-HKS		
D4BA (OLD)	4	2400	91.100	1	2.500	x	3.450	SDG30003ZX	23040-42000	
				2	2.000	x	3.800			
				O1	4.000	x	4.350	555		
								SS999		
D4BA (T)	4	2400	91.100	1	2.000	x	3.300	SDG30001ZZ	23040-42200	H100 GRACE PORTER
				2	2.000	x	3.800	DISCONTINUED	23040-42202	
				O1	3.000	x	3.250	555		
D4BA (T2)	4	2400	91.100	1	2.000	x	3.300	SDG30010ZX	23040-42010	GALLOPER
				2	2.000	x	3.800			
				O1	4.000	x	4.350	555		
								SS999		
D4BC	4	2400	91.100	1	2.000	x	3.300	SDG30011ZX	23040-42210	H100
				2	2.000	x	3.800			
				O1	3.000	x	3.250	555		
								SS999		
D4BC	4	2400	91.100	1	2.450	x	3.500	SDG30044ZY	23040-4X920	
				2	2.000	x	3.900	NEW		
				O1	3.000	x	3.250	555		
D4BF (M)	4	2476	91.100	1	2.500	x	3.700	SDG30009ZX	23040-42850	GALLOPER GRACE STAREX
				2	2.000	x	3.900			
				O1	4.000	x	3.800	555		
								SS999		
D4EA	4	1991	83.000	1	1.930	x	2.900	SDG30043ZZ	23040-27950	
				2	2.000	x	3.800	NEW	23040-27920	
				O1	3.000	x	3.250	555		
D4CB	4	2500	91.000	1	2.440	x	3.300	SDG30049ZZ	23040-4A900	
				2	2.000	x	4.000	NEW		
				O1	3.000	x	3.250	555		
D6AB D6AC	6	11149	130.000	1	3.306	x	5.400	SDG30008ZZ	23040-83020	AERO CITY AERO EXPRESS AERO SPACE AERO TOWN
				2	3.000	x	5.300			
				O1	6.000	x	5.500	555		
								1st-KS		
								All Plt		
D6AC (OLD 6D22)	6	11149	130.000	1	3.306	x	4.550	SDG30012ZZ	23040-83000	
				2	3.000	x	5.200	DISCONTINUED		
				O1	6.000	x	5.500	555		

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HYUNDAI DIESEL ENGINE										
D6AC (NEW 6D22)	6	11149	130.000	1	3.306	x	4.550	SDG30014ZX	23040-83030	
					2	3.000	x	5.300		
D6AT	6	11149	130.000	1	3.306	x	5.400	SJM31050ZZ	23040-83600	AERO CITY AERO EXPRESS AERO SPACE AERO TOWN
					2	3.000	x	5.300		
D6BR (6D16)	6	7545	118.000	1	3.000	x	4.600	SDG30006ZZ	23040-93000	4.5 TON TRUCK 5 TON TRUCK
					2	2.500	x	4.600		
D8AX	8	16031	135.000	1	3.306	x	5.400	SDG30007ZZ	23049-72000	
					2	3.000	x	5.500		
D8AX D8AY D8C (OLD)	8	16031	135.000	1	3.306	x	5.400	SDG30013ZZ	23040-72000	15 TON TRUCK 18 TON TRUCK
					2	3.000	x	5.500		
D70	6		133.000	1	3.330	x	5.400	SDG30048ZZ	23430-84010	
					2	3.000	x	5.350		
				O1	4.000	x	4.150			

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4XC1	4	1471	77.000	1	1.200	x	2.800	SWI10153ZZ	8-94162-769	
				2	1.200	x	3.500	777	8-94162-770	
				O1	2.800	x	3.100	777	8-94162-771	
4XC1	4	1471	77.000	1	1.200	x	3.300	SWI10151ZZ	8-94141-947-0	I-MARK
				2	-	x	-	777		
				O1	2.800	x	3.050			
4XC1T	4	1471	77.000	1	1.200	x	3.100	SWI10152ZZ	8-94109-650-0	I-MARK
				2	1.200	x	3.350	SWI10153ZZ		
				O1	2.800	x	3.050	777		
4XE1V	4	1588	80.000	1	1.200	x	3.100	SWI10149ZZ	8-94342-124-0	STYLUS
4XE1W	4	1809	80.000	2	1.200	x	3.300	777	8-94370-434-0	I-MARK
4XF1				O1	3.000	x	2.000		8-97402-171-0	IMPULSE STYLUS
4ZB	4	1817	84.000	1	1.500	x	3.500	SWI10098ZZ	8-94130-294-0	
				2	1.500	x	3.800	777	8-94141-218-0	
				O1	4.000	x	3.200	All Plt	8-94141-443-0 8-94244-404-0	
4ZC1	4	1944	88.000	1	1.500	x	3.450	SWI10133ZZ	8-94119-545-0	IMPULSE
				2	1.500	x	3.450	777	8-94235-878-0	
				O1	4.000	x	3.300	777	8-94409-555-0	
4ZD1	4	2300	89.300	1	1.500	x	3.300	SWI10123ZZ	8-94136-778-0	AMIGO IMPULSE PICKUP TROOPER II
				2	1.500	x	3.800	777	8-94153-966-0	
				O1	4.000	x	3.050	777	8-94153-966-2	
4ZD1	4	2300	89.300	1	1.500	x	3.450	SWI10164ZZ	8-94136-778-1	TROOPER
				2	1.500	x	3.800	SWI10123ZZ		
				O1	4.000	x	3.100	777		
4ZE1	4	2559	92.600	1	1.500	x	3.500	SWI10144ZZ	8-94405-614-1	MU TROOPER
				2	1.500	x	5.000	777		
				O1	4.000	x	3.050			
4ZE1	4	2559	92.600	1	1.500	x	3.500	SWI10162ZZ	8-94405-614-0	AMIGO PICKUP RODEO TROOPER TROOPER II
				2	1.500	x	5.000	SWI10144ZZ	8-94405-614-2	
				O1	4.000	x	3.050	777	8-94446-957-1	
6VD1	6	3165	93.400	1	1.500	x	3.450	SWI10185ZZ	8-97162-198-0	RODEO TROOPER
				2	1.500	x	4.000	777		
				O1	4.000	x	3.150			
6VE1	6	3494	93.400	1	1.500	x	3.250	SWI10191ZZ	8-97136-135-0	AMIGO RODEO TROOPER VehiCROSS
				2	1.500	x	4.000	777		
				O1	3.000	x	2.850			
C24SE	4	2405	87.500	1	1.200	x	3.100	SWI10220ZZ	8-93359-241-0	D-MAX 2.4L
				2	1.200	x	3.700	NEW		
				O1	2.500	x	2.700	777		
CPC	6	3137	89.000	1	1.500	x	3.700	SWI10155ZZ	8-10181-330-0	PICKUP RODEO
				2	1.500	x	3.600	777		
				O1	4.000	x	3.650			

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F22B6	6	2156	85.000	1	1.200	x	3.100	SWH30383ZZ	5-86202-103-0	OASIS	
				2	1.200	x	3.100	777			
				O1	2.800	x	2.850				
F23A7	4	2253	86.000	1	1.200	x	2.900	SWH30443ZZ	5-86025-887-0	OASIS	
				2	1.200	x	3.400	777			
				O1	2.800	x	2.850				
G161B G161AB G161Z	4	1584	82.000	1	2.000	x	3.800	SWI10012ZZ	8-12121-099		
				2	2.000	x	3.800	SWI10012ZX			8-12181-113
				O1	4.000	x	3.800	777			8-12181-141
G161B G161AB G161Z	4	1584	82.000	1	2.000	x	3.050	SWI10012ZX	8-12121-099		
				2	2.000	x	3.800	777			8-12181-113
				O1	4.000	x	3.800	SS999			8-12181-141
G161Z	4	1584	82.000	1	1.500	x	3.500	SWI10097ZZ	8-94130-293-0		
				2	1.500	x	3.800	777			8-94244-403-0
				O1	4.000	x	3.200	All Plt			
G180	4	1817	84.000	1	2.000	x	4.000	SCI10052ZZ	5-12181-054-0		
				2	2.000	x	4.000	500			9-12181-605-0
				O1	4.000	x	4.000				
G180 G180Z	4	1817	84.000	1	2.000	x	4.000	SWI10056ZZ	8-12181-605	I-MARK PICKUP	
				2	2.000	x	4.000	777			8-94208-205-0
				O1	4.000	x	3.800	All Plt			8-94216-640-0
G180W	4	1817	84.000	1	2.000	x	3.800	SWI10087ZZ	8-94224-555-0		
				2	2.000	x	3.800	777			
				O1	4.000	x	3.800	All Plt			
G180Z	4	1817	84.000	1	1.500	x	3.500	SWI10098ZZ	8-94130-294-0	I-MARK PICKUP	
				2	1.500	x	3.800	777			8-94141-218-0
				O1	4.000	x	3.200	All Plt			8-94141-443-0 8-94244-404-0
G200	4	2000	87.000	1	2.000	x	3.800	SWI10084ZZ	8-94216-641-0		
				2	2.000	x	3.800	777			
				O1	4.000	x	3.300	All Plt			
G200Z G200ZN	4	1949	87.000	1	1.500	x	3.500	SWI10096ZZ	8-94130-295-0	IMPULSE PICKUP TROOPER II	
				2	1.500	x	3.800	777			8-94231-817-0
				O1	4.000	x	3.200	All Plt			8-94438-086-0
G201	4	1951	86.000	1	2.500	x	4.100	SCI10024ZZ	9-12181-602-0		
				2	2.500	x	4.100	DISCONTINUED			
				O1	5.000	x	4.100	500			
LF6	6	4293	101.600	1	1.500	x	3.650	SWI10196ZZ	8-12522-848-0	HOMBRE	
				2	1.500	x	4.300	777			
				O1	3.000	x	3.350				
LF7	8	5964	89.000	1	1.500	x	4.050	SWI10154ZZ	8-14089-059-0	TROOPER	
				2	2.000	x	4.050	777			
				O1	4.760	x	3.850				

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LF8	8	5735	101.600	1	1.500	x	3.650	SWI10197ZZ	8-12522-848-0	HOMBRE
				2	1.500	x	4.300	777		
				O1	3.000	x	3.350			
LL2	6	2827	89.000	1	1.500	x	4.050	SWI10154ZZ	8-14089-059-0	TROOPER
				2	2.000	x	4.050	777		
				O1	4.760	x	3.850			
LN2	6	2197	89.000	1	1.500	x	4.050	SWI10195ZZ	8-12363-179-0	HOMBRE
				2	1.500	x	3.600	777		
				O1	3.000	x	2.950			
RJ1 (F22B6)	6	2156	85.000	1	1.200	x	3.100	SWH30383ZZ	5-86202-103-0	OASIS
				2	1.200	x	3.100	777		
				O1	2.800	x	2.850			
X22SE	4	2198	86.000	1	1.500	x	3.450	SWI10205ZX	8-92062-027-0	AMIGO RODEO
				2	1.500	x	3.500	777		
				O1	3.000	x	2.850			
X22SE	4	2198	86.000	1	1.200	x	2.700	SWI10206ZZ	8-92065-115-0	RODEO RODEO SPORT
				2	1.500	x	3.800	777		
				O1	2.500	x	2.850			
2AB1	2	1184	86.000	1	2.000	x	3.500	SJI10068ZZ	5-12181-010-2 5-12121-010-0	
				2	2.000	x	3.500	Mt.555		
				3	2.000	x	3.500			
				O1	5.000	x	4.300			
2KA1 2KB1 For industrial machine.	2	585	70.000	1	2.000	x	2.900	SDI10408ZZ	-	
				2	1.500	x	3.100	DISCONTINUED 555		
				O1	3.500	x	3.250			
3AB1	3	1777	86.000	1	2.000	x	3.500	SJI10069ZZ	5-12181-011-2 5-12121-010-0	
				2	2.000	x	3.500	Mt.555		
				3	2.000	x	3.500			
				O1	5.000	x	4.300			
3KA1 3KB1 For industrial machine.	3	877	70.000	1	2.000	x	2.900	SDI10105ZZ	8-94131-493-0	
				2	1.500	x	3.100	555		
				O1	3.500	x	3.250			
3KC1 For industrial machine.	3	74.000	74.000	1	2.000	x	2.900	SDI10102ZZ	5-12121-031-0	
				2	1.500	x	3.100	555		
				O1	3.500	x	3.250			
3KQI For industrial machine.	3	78.000	78.000	1	2.000	x	3.200	SDI10114ZZ	8-94131-494-0	
				2	1.750	x	3.200	DISCONTINUED 555		
				O1	4.000	x	3.900			
3KRI For industrial machine.	3	81.000	81.000	1	2.000	x	3.400	SDI10113ZZ	5-12121-029-0	
				2	1.750	x	3.400	555		
				O1	4.000	x	2.700			
4BA1	4	2775	98.000	1	3.000	x	3.900	SJI10071ZZ	5-12121-001 5-12121-019-0 5-12181-025-0 9-12181-601 9-12181-619	ELF
				2	2.500	x	3.900	Mt.555F		
				O1	5.000	x	4.700			
4BB1	4	3595	102.000	1	3.000	x	4.400	SDI10070AU	5-12121-005-0 5-12181-003 5-12181-015-0	SPECIAL # CHROME
				2	2.500	x	4.400	Mt.555F		
				O1	5.000	x	4.800			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ISUZU GASOLINE ENGINE										
4BC1	4	3268	102.000	1	3.000	x	4.400	SJI10090ZY	5-12121-004-0	
				2	2.500	x	4.400	Mt.555F		
				O1	5.000	x	4.800			
4BD1L	4	3856	102.000	1	3.000	x	4.400	SJI10125ZZ	8-94326-650-0	
				2	2.500	x	4.400	555		
				O1	4.000	x	4.400			
4BD2	4	3856	102.000	1	3.000	x	4.400	SDI10147ZZ	9-97117-686-0	
				2	2.000	x	3.700	SJI10147ZZ		
				O1	4.000	x	4.450	555		
4BE1	4	3636	105.000	1	3.000	x	4.400	SJI10118ZZ	8-94418-918-0	ELF
				2	2.500	x	4.500	Mt.555F		
				O1	5.000	x	4.900			
4BG1	4	4329	105.000	1	3.000	x	4.400	SJI10168ZZ	8-97123-833-0	
				2	2.500	x	4.700	Mt.555		
				O1	4.000	x	4.400			
4BG1	4	4329	105.000	1	3.306	x	4.400	SJI10131ZZ	8-97032-075-0	
				2	2.500	x	4.400	Mt.555		
				O1	4.000	x	4.400			

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4EC1	4	1487	76.000	1	2.000	x	3.100	SDI10143ZZ	8-94332-767-1 8-94144-187-0	GEMINI
				2	1.500	x	3.100	555		
				O1	3.000	x	3.350			
4EE2	4	1686	79.000	1	2.000	x	2.700	SDI10202ZZ	8-94381-709-1	GEMINI
				2	1.500	x	3.200	555		
				O1	3.000	x	3.250	SS999		
4FB1	4	1817	84.000	1	2.500	x	3.250	SJI10086ZZ	8-94224-221-0	FARGO I-MARK
				2	2.000	x	3.500	SDI10086ZX		
				O1	4.000	x	4.350	Mt.555		
4FB1	4	1817	84.000	1	2.500	x	3.500	SDI10086ZX	8-94224-221-0	FARGO I-MARK
				2	2.000	x	3.500	555		
				O1	4.000	x	4.200	SS999		
4FB1	4	1817	84.000	1	2.500	x	3.500	SJI10404ZZ	8-94224-221-0	
				2	2.000	x	3.550	SDI10101ZX		
				O1	4.000	x	2.700	Mt.555		
4FC1 4FC1T	4	1995	84.000	1	2.500	x	3.500	SJI10109ZZ	8-94139-973-0	ASKA FARGO
				2	2.000	x	3.500	555		
				O1	4.000	x	4.200	1st-KS All Plt		
4FE1	4		76.300	1	2.000	x	3.500	SDI10212ZZ	8-94169-748-0	
				2	2.000	x	3.500	555		
				O1	4.000	x	3.700			
4FG1	4	2400	89.300	1	2.000	x	3.100	SDI10272ZZ	8-94469-634-0	
				2	2.000	x	3.700	555		
				O1	4.000	x	4.150			
4HE1	4	4751	110.040	1	3.000	x	4.150	SDI10140ZZ	8-97078-779-0	
				2	2.500	x	4.700	Mt.555		
				O1	4.000	x	4.350			
4HE1TC	4	4751	110.400	1	3.000	x	4.100	SDI10177ZZ	8-97166-992-0	
				2	2.000	x	4.100	555		
				3	1.200	x	3.900			
				O1	3.000	x	3.250			
4HF1	4	4334	112.000	1	3.000	x	4.500	SJI10127ZZ	8-97028-691-0	
				2	2.500	x	4.700	Mt.555		
				O1	4.000	x	4.350			
4HF1	4	4334	112.000	1	3.000	x	4.150	SDI10139ZZ	8-97109-462-0	
				2	2.500	x	4.700	555		
				O1	4.000	x	4.350			
4HF1LPG	4		115.000	1	3.000	x	4.500	SJI10490ZZ	8-97258-337-0	
				2	2.500	x	4.800	DISCONTINUED		
				O1	3.000	x	3.000	555		
4HG1	4		115.000	1	3.000	x	4.150	SDI10160ZZ	8-97105-867-0	
				2	2.500	x	4.800	555		
				O1	4.000	x	4.350			
4HK1X	4	5193	115.000	1	2.948	x	4.150	SDI10207ZZ	8-98017-116-0	
				2	2.000	x	4.300	NEW		
				3	2.500	x	4.800	555		
				O1	3.000	x	3.100			

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4HL	4		115.000	1 2 O1	3.000 2.000 3.000	x x x	4.300 4.250 3.100	SDI10192ZZ DISCONTINUED 555	8-97331-641-0	
4JB1	4	2771	93.000	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.000 4.100	SDI10110ZZ 555F	8-94247-867-0	(Forklift)
4JB1	4	2771	93.000	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.000 4.100	SDI10187ZZ CHROME 555	8-94247-867-0	(Forklift)
4JB1 4JC1	4	2771	93.000	1 2 O1	2.000 2.000 4.000	x x x	3.500 3.550 4.000	SJI101013ZZ DISCONTINUED Mt.555F	8-94408-207-0	
4JD1	4		84.000	1 2 O1	2.000 2.000 4.000	x x x	3.250 3.500 4.200	SJI10121ZZ Mt.555		
4JG1	4	3059	95.400	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.000 4.100	SDI10129ZZ 555	8-94379-486-0	
4JG2	4	3059	95.400	1 2 O1	2.296 2.000 4.000	x x x	4.000 4.000 4.100	SDI10130ZZ 555	8-94370-449-0	
4JG2	4	3059	95.400	1 2 O1	2.500 2.000 4.000	x x x	4.000 4.000 4.450	SDI10141ZZ 555F	8-97080-215-0 8-97147-984-0	
4JG2	4	3059	95.400	1 2 O1	2.500 2.000 4.000	x x x	4.000 4.000 4.450	SDI10188ZZ 555	8-97080-215-0 8-97147-984-0	
4JH1	4		95.400	1 2 O1	2.500 2.000 3.000	x x x	4.000 3.800 3.250	SDI10193ZZ 555	8-97941-122-0	
4JJ1TC	4	2999	95.400	1 2 O1	2.000 1.500 3.000	x x x	3.450 3.500 3.000	SDI10209ZZ NEW 555	8-98057-222-0	
4JJ1TC	4	2999	95.400	1 2 O1	2.000 1.500 3.000	x x x	3.500 4.000 3.000	SDI10210ZZ 555	8-97388-734-0 8-98096-676-0	
4JJ1TC	4	2999	95.400	1 2 O1	2.000 2.000 3.000	x x x	3.500 4.400 3.000	SDI10215ZZ 555	8-98053-579-0	
4JK1-TC	4	2500	93.000	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.000 4.350	SDI10211ZZ NEW 555	5-87310-519-0 8-97319-087-0	
4JX1	4	2999	95.400	1 2 O1	2.448 2.000 4.000	x x x	4.000 4.000 4.350	SDI10171ZZ 555	8-97184-533-0	
4LC1	4	1730	77.400	1 2 O1	2.000 1.500 3.500	x x x	3.100 3.200 3.500	SJI10213ZZ 555	8-97034-609-0	

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ISUZU DIESEL ENGINE										
4LE1	4	2179	85.000	1	2.000	x	3.350	SJI10216ZZ	8-97141-208-0	
				2	1.750	x	3.700			
				O1	4.000	x	4.100	555		
6BB1	6	5393	102.000	1	3.000	x	4.400	SJI10065ZY	5-12121-005-0	FORWARD
				2	2.500	x	4.400		5-12181-023-2	
				O1	5.000	x	4.800	Mt.555F		
6BB1BU	6		101.500	1	3.000	x	4.400	SJI10091ZZ	1-12121-031-0	
				2	2.500	x	4.400			
				O1	5.000	x	4.800			
6BD1	6	5393	102.000	1	3.000	x	4.400	SJI10065ZY	5-12121-005-0	FORWARD
				2	2.500	x	4.400		5-12181-023-2	
				O1	5.000	x	4.800	Mt.555F		
6BD1MT For Marine Engine.	6	5393	102.000	1	3.500	x	4.400	SDI10085ZZ	5-12121-015-0	
				2	2.500	x	4.400			
				O1	5.000	x	4.800	555F 1st-KS		
6BF1	6	6130	105.000	1	3.000	x	4.400	SJI10082ZZ	5-12121-006-0	FORWARD
				2	2.500	x	4.500		5-12121-052-0	
				O1	5.000	x	4.900	Mt.555		
6BG1	6	6494	105.000	1	3.000	x	4.500	SJI10104ZZ	1-12121-065-0	FORWARD
				2	2.500	x	4.700			
				O1	4.000	x	4.400	Mt.555		
6BG1MTC	6	6494	105.000	1	3.306	x	4.400	SJI10148ZZ	1-12121-121-0	
				2	2.500	x	4.700			
				O1	4.000	x	4.400	Mt.555		
6BG1TC	6	6494	105.000	1	3.500	x	4.400	SJI10128ZZ	1-12121-115-0	FORWARD
				2	2.500	x	4.700			
				O1	4.000	x	4.400	Mt.555		
6BG1TC	6	6494	105.000	1	3.306	x	4.400	SJI10223ZZ	1-12121-146-0	FORWARD
				2	2.500	x	4.400	NEW		
				3	2.500	x	4.400			
6HE1	6	7172	110.000	1	3.000	x	4.500	SJI10126ZZ	8-94396-840-0	FORWARD
				2	2.500	x	4.700			
				O1	4.000	x	4.350	Mt.555		
6HE1TC	6	7172	110.000	1	3.836	x	4.500	SJI10138ZZ	8-94394-418-1	
				2	3.000	x	4.500			
				3	2.500	x	4.700			
6HE1TC	6	7172	110.000	1	3.836	x	4.500	SDI10146ZZ	8-94390-529-1	
				2	3.000	x	4.500			
				3	2.500	x	4.700	555		
6HE1TC	6	7172	110.000	1	3.836	x	4.500	SJI10146ZZ	8-94395-061-5	
				2	3.000	x	4.500	SDI10146ZY		
				3	2.500	x	4.700	Mt.555		
6HF1CNG	6	7790	115.000	1	3.500	x	4.150	SDI10214ZZ	8-98141-535-0	
				2	2.500	x	4.800	NEW		
				O1	4.000	x	4.350	555		

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6HH1	6	8226	115.000	1	3.500	x	4.600	SJI10163ZZ	8-94390-799-0	
				2	2.500	x	4.800			
				O1	4.000	x	4.350			
6HH1	6	8226	115.000	1	3.500	x	4.600	SJI10184ZZ	8-94392-128-1	
				2	2.500	x	4.800			
				O1	3.000	x	3.000			
6HK1TC	6		115.000	1	2.948	x	4.300	SDI10178ZZ	8-94391-502-3	
				2	2.000	x	4.300			
				O1	2.500	x	4.800			
				O2	3.000	x	3.000			
6HL1TC	6		115.000	1	2.948	x	4.250	SDI10186ZZ	8-97601-318-1	
				2	2.500	x	4.800			
				O1	3.000	x	3.000			
6QA1	6	11044	125.000	1	3.000	x	5.100	SJI10088ZZ	1-12121-028-0	
				2	2.500	x	5.100			
				O1	6.000	x	5.500			
6QB2	6		125.000	1	4.000	x	4.800	SJI10208ZZ	1-12121-096-0	
				2	2.500	x	5.000			
				O1	6.000	x	5.100			
6RA1 6RA2	6	12023	135.000	1	4.000	x	5.500	SDI10100ZZ	1-12121-037-0	
				2	2.500	x	5.500			
6RB1 6RB2	6	13741		O1	5.000	x	6.200	555 All Plt	1-12121-040-0	
6RB1MTC	6	13741	132.900	1	4.000	x	5.500	SDI10116ZZ	1-12121-076-0	
				2	2.500	x	5.500			
				O1	4.000	x	4.300			
6RB1T	6	13741	135.000	1	4.000	x	5.500	SDI10117ZZ	1-12121-073-0	
				2	2.500	x	5.500			
				O1	4.000	x	4.300			
6RB1TC	6	13741	135.000	1	4.500	x	5.500	SJI10142ZZ		
				2	2.500	x	5.500			
				O1	4.000	x	4.300			
6SA1 6SAT	6	8413	115.000	1	3.000	x	4.600	SJI10112ZZ	1-12121-070-0	
				2	2.500	x	4.800			
				O1	4.000	x	4.200			
6SD1	6	9839	120.000	1	3.500	x	5.000	SJI10179ZZ	1-12121-094-1	
				2	2.500	x	5.000			
				O1	5.000	x	4.950			
6SD1T	6	9839	120.000	1	4.000	x	4.900	SDI10194ZZ	1-12121-119-2	
				2	3.000	x	4.600			
				3	3.000	x	4.900			
				O1	4.000	x	4.400			
6SD1TC	6	9839	120.000	1	3.000	x	4.100	SDI10218ZZ	1-12121-149-0	
				2	2.000	x	4.250			
				3	3.000	x	4.900			
				O1	3.000	x	3.250			

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6UZ1TTC	6		120.000	1	2.500	x	4.300	SDI10225ZZ NEW 555	8-98056-464-1	
				2	2.000	x	4.250			
				3	3.000	x	4.900			
				O1	3.000	x	3.250			
6VE1	6	3494	93.400	1	1.200	x	3.500	SDI10217ZZ DISCONTINUED 555	8-97371-553-0	
				2	1.200	x	3.800			
				3	2.000	x	2.750			
6WA1TC	6	12068	132.900	1	4.306	x	5.200	SDI10132ZZ 555	1-12121-117-0	
				2	3.000	x	5.200			
				3	3.000	x	5.500			
				O1	5.000	x	5.700			
6WA1TC	6	12068	132.900	1	4.306	x	5.200	SDI10158ZZ 555	1-12121-117-0 1-12121-127-0 1-12121-136-0 1-12121-142-0	
				2	3.000	x	5.200			
				3	3.000	x	5.500			
				O1	4.000	x	4.400			
6WA1TC	6	12068	132.900	1	3.806	x	5.150	SDI10173ZZ 555		
				2	3.000	x	5.200			
				3	3.000	x	5.500			
				O1	5.000	x	4.400			
6WA1TC	6	12068	132.900	1	4.306	x	5.150	SDI10174ZZ 555	1-12121-139-0 1-12121-141-0	
				2	3.000	x	5.200			
				3	3.000	x	5.500			
				O1	4.000	x	4.400			
6WF1FC 6WG1TC	6		147.000	1	3.806	x	5.550	SDI10167ZZ 555	1-12121-143-0	
				2	3.000	x	5.800			
				3	3.000	x	6.100			
				O1	4.000	x	4.400			
6WF1FC 6WG1TC	6		147.000	1	2.948	x	5.550	SDI10181ZZ 555	1-12121-144-0	
				2	2.500	x	5.500			
				3	3.000	x	6.100			
				O1	4.000	x	4.400			
6WG1UTHC	6		142.900	1	2.948	x	5.350	SDI10174ZZ 555	1-12121-139-0 1-12121-141-0	
				2	2.500	x	5.300			
				3	3.000	x	5.900			
				O1	4.000	x	4.400			
6WG1UTMC	6		142.900	1	2.948	x	5.350	SDI10182ZZ NEW 555	1-12121-147-0	
				2	2.500	x	5.300			
				3	3.000	x	5.900			
				O1	4.000	x	4.400			
8GF1	8		103.000	1	2.948	x	3.900	SDI10183ZY 555	8-97250-331-2	
				2	2.000	x	4.400			
				O1	3.000	x	3.000			
8MA1	8	16513	145.000	1	4.000	x	5.900	SJI10073ZZ 555 All Plt	1-12121-018-0 1-12181-011-0	
				2	3.000	x	5.900			
				O1	6.000	x	6.300			

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ISUZU DIESEL ENGINE										
8MA1T	8	16513	145.000	1	4.000	x	5.900	SDI10077ZZ	1-12121-019-0 1-12181-032-0	
					3.000	x	5.900			
					O1 6.000	x	6.300			
									555 1st-KS All Plt	
8PA1	8	9971	115.000	1	3.000	x	4.600	YDI10080ZX	1-12121-042-0 1-12181-016-0 1-12181-060-0	
					2.500	x	4.800			
					O1 6.000	x	5.700			
									555 SS999 1Cyl Pkg	
8PA1	8	9971	115.000	1	3.000	x	4.600	YJ110080ZZ DISCONTINUED	1-12121-042-0 1-12181-016-0 1-12181-060-0	
					2.500	x	4.800			
					O1 6.000	x	5.700			
									Mt.555 All Plt 1Cyl Pkg	
8PB1	8	11217	115.000	1	3.000	x	4.600	YDI10081ZX	1-12121-043-0 1-12181-058-0 1-12181-061-0	
					2.500	x	4.800			
					O1 4.000	x	5.000			
									555 SS999 1Cyl Pkg	
8PB1	8	11217	115.000	1	3.000	x	4.600	YJ110081ZZ DISCONTINUED	1-12121-043-0 1-12181-058-0 1-12181-061-0	
					2.500	x	4.800			
					O1 4.000	x	5.000			
									Mt.555 All Plt 1Cyl Pkg	
8PCIT	8	12011	115.000	1	3.000	x	4.600	SJ110107ZZ	1-12121-049-0	
					2.500	x	4.800			
					O1 4.000	x	5.000			
									Mt.555 All Plt	
8PE1	8		127.000	1	4.000	x	5.200	YJ110165ZZ	1-12121-129-1	
					2.500	x	5.000			
					3.000	x	5.200			
					O1 4.000	x	4.350			
									555 All Plt	
10PA1	8	9971	115.000	1	3.000	x	4.600	YDI10080ZX	1-12121-042-0 1-12181-016-0 1-12181-060-0	
					2.500	x	4.800			
					O1 6.000	x	5.700			
									555 SS999 1Cyl Pkg	
10PA1	10	12464	115.000	1	3.000	x	4.600	YJ110080ZZ DISCONTINUED	1-12121-042-0 1-12181-016-0 1-12181-060-0	
					2.500	x	4.800			
					O1 6.000	x	5.700			
									Mt.555 All Plt 1Cyl Pkg	
10PB1	8	11217	115.000	1	3.000	x	4.600	YDI10081ZX	1-12121-043-0 1-12181-058-0 1-12181-061-0	
					2.500	x	4.800			
					O1 4.000	x	5.000			
									555 SS999 1Cyl Pkg	

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ISUZU DIESEL ENGINE										
10PB1	10	14022	115.000	1	3.000	x	4.600	YJ110084ZZ	1-12121-043-0	
				2	2.500	x	4.800	DISCONTINUED	1-12181-058-0	
				O1	4.000	x	5.000	Mt.555 All Plt 1Cyl Pkg	1-12181-061-0	
10PC1	10	15014	119.000	1	3.000	x	4.600	SJ110106ZZ	1-12121-047-0	
				2	2.500	x	4.800	555 All Plt		
				O1	4.000	x	5.000			
10PCIT	10	15014	119.000	1	4.000	x	4.600	SJ110115ZX	1-12121-062-0	
				2	2.500	x	4.800			
				O1	4.000	x	4.350	Mt.555 All Plt		
10PE1	10	19001	127.000	1	3.806	x	4.950	SD110164ZZ	1-12121-076-0	
				2	3.000	x	5.000	NEW		
				O1	3.000	x	5.200	Mt.555		
12PA1	8	9971	115.000	1	3.000	x	4.600	YD110080ZX	1-12121-042-0	
				2	2.500	x	4.800	555 SS999 1Cyl Pkg	1-12181-016-0	
				O1	6.000	x	5.700		1-12181-060-0	
12PA1	12	14957	115.000	1	3.000	x	4.600	YJ110080ZZ	1-12121-042-0	
				2	2.500	x	4.800	DISCONTINUED	1-12181-016-0	
				O1	6.000	x	5.700	Mt.555 All Plt 1Cyl Pkg	1-12181-060-0	
12PB1	8	11217	115.000	1	3.000	x	4.600	YD110081ZX	1-12121-043-0	
				2	2.500	x	4.800	555 SS999 1Cyl Pkg	1-12181-058-0	
				O1	4.000	x	5.000		1-12181-061-0	
12PB1	12	16826	115.000	1	3.000	x	4.600	YJ110084ZZ	1-12121-043-0	
				2	2.500	x	4.800	DISCONTINUED	1-12181-058-0	
				O1	4.000	x	5.000	Mt.555 All Plt 1Cyl Pkg	1-12181-061-0	
C180	4	1764	79.000	1	2.000	x	3.100	SD110007ZZ	9-12181-096-0	
				2	2.000	x	3.100	DISCONTINUED		
				3	2.000	x	3.100	555F		
				O1	4.000	x	3.100			
				O2	4.000	x	3.100			
C190	4	2369	86.000	1	2.000	x	3.500	SJ110047ZZ	9-12181-138-0	
				2	2.000	x	3.500	DISCONTINUED		
				3	2.000	x	3.500	555F		
				O1	5.000	x	2.800			
				O2	5.000	x	3.500			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
C190	4	2369	86.000	1	2.000	x	3.500	SDI10051ZZ	5-12181-027-0	ELF
				2	2.000	x	3.500	555	5-12181-603-0	
				3	2.000	x	3.500		5-12181-605-0	
				O1	5.000	x	3.900			
C190	4	2369	86.000	1	2.000	x	3.500	SJI10054ZZ	5-12181-027-0	LUV
				2	2.000	x	3.500	SDI10051ZZ	5-12181-603-0	
				3	2.000	x	3.500	Mt.555F	5-12181-605-0	
				O1	5.000	x	4.200			
C190	4	2369	86.000	1	2.500	x	4.000	SDI10093ZZ	8-94104-954-0	
				2	2.000	x	3.500	555		
				O1	5.000	x	4.300			
C190	4	2369	86.000	1	2.500	x	4.000	SJI10093ZZ	5-12181-022-0	
				2	2.000	x	3.500	SDI10093ZZ		
				O1	5.000	x	4.300	Mt.555		
C190 For Chromard Liner.	4	2369	86.000	1	2.500	x	3.800	SDI10095ZZ	8-94104-949-0	LUV
				2	2.000	x	3.500	555F		
				O1	5.000	x	4.200			
C190 For Chromard Liner.	4	2369	86.000	1	2.500	x	4.000	SJI10095ZZ	5-12181-021-0	
				2	2.000	x	3.500	SDI10095ZZ		
				O1	5.000	x	4.200	Mt.555F		
C190G	4	1951	86.000	1	2.000	x	3.500	SDI10083ZX	5-12121-008-0	
				2	2.000	x	3.500	555 SS999		
				3	2.000	x	3.500			
				O1	5.000	x	4.300			
C190G	4	1951	86.000	1	2.000	x	3.250	SJI10083ZZ	5-12121-008-0	
				2	2.000	x	3.500	SDI10083ZX		
				3	2.000	x	3.500	Mt.555 All Plt		
				O1	5.000	x	4.300			
C201 For industrial machine.	4	2207	83.000	1	2.000	x	3.400	SJI10017ZZ	5-12181-015-0	
				2	2.000	x	3.400	SDI10017ZZ	5-12181-122-0	
				3	2.000	x	3.400	Mt.555F		
				O1	5.000	x	3.800			
				O2	5.000	x	3.400			
C201PT	4	2207	83.000	1	2.000	x	3.400	SJI10018ZZ	5-12181-005-0	
				2	2.000	x	3.400	Mt.555		
				3	2.000	x	3.400			
				O1	5.000	x	3.800			
				O2	5.000	x	3.400			
C220	4	2207	83.000	1	2.000	x	3.400	SCI10013ZZ	9-12181-057-0	
				2	2.000	x	3.400	DISCONTINUED	9-12181-062-0	
				3	2.000	x	3.400	500		
				O1	4.000	x	3.400			
				O2	4.000	x	3.400			
C220	4	2207	83.000	1	2.000	x	3.400	SDI10013ZZ	9-12181-100-0	
				2	2.000	x	3.400	555F		
				3	2.000	x	3.400			
				O1	4.000	x	3.400			
				O2	4.000	x	3.400			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
C220	2	1184	86.000	1	2.000	x	3.500	SJI10059ZZ	5-12181-028-0	
				2	2.000	x	3.500	DISCONTINUED		
				3	2.000	x	3.500	Mt.555F		
				O1	5.000	x	4.200			
C221	4	2207	83.000	1	2.000	x	3.400	SDI10017ZZ	5-12181-015-0	
				2	2.000	x	3.400	555F	5-12181-122-0	
				3	2.000	x	3.400			
				O1	5.000	x	3.800			
				O2	5.000	x	3.400			
C221	4	2207	83.000	1	2.000	x	3.400		SJI10047ZZ	5-12181-015-0
2	2.000	x	3.400	SDI10017ZZ	5-12181-122-0					
3	2.000	x	3.400	Mt.555F						
O1	5.000	x	3.800							
O2	5.000	x	3.400							
C223	4	2238	88.000	1	2.500	x	4.000	SJI10089ZZ	5-12121-017-0	PICKUP
				2	2.000	x	4.000	Mt.555 All Plt	8-94100-355-0	
				O1	4.500	x	4.700			
C223 For Chromard Liner.	4	2238	88.000	1	2.500	x	4.000		SJI10099ZZ	5-12121-024-0
				2	2.000	x	4.000	Mt.555F		
				O1	4.500	x	4.700			
C223	4	2238	88.000	1	2.000	x	3.500	SDI10101ZZ	8-94250-730-0	PICKUP TROOPER II
				2	2.000	x	3.550	SDI10101ZX		
				O1	4.000	x	4.000	555 All Plt		
C223	4	2238	88.000	1	2.000	x	3.250	SDI10101ZX	8-94250-730-0	PICKUP TROOPER II
				2	2.000	x	3.550	555 SS999		
				O1	4.000	x	4.350			
C223 For Chromard Liner.	4	2238	88.000	1	2.000	x	3.500		SDI10103ZZ	8-94253-736-0
				2	2.000	x	3.550	555F		
				O1	4.000	x	4.000			
C223	4	2238	93.000	1	2.000	x	3.500		SJI101043ZZ	8-94408-207-0
				2	2.000	x	3.550	DISCONTINUED		
				O1	4.000	x	4.000	Mt.555F		
C223T	4	2238	88.000	1	2.500	x	4.000	SJI10111ZZ	8-94158-084-0	PICKUP TROOPER II
				2	2.000	x	3.550	Mt.555 All Plt		
				O1	4.000	x	4.000			
C223T	4	2238	88.000	1	2.500	x	3.500		SDI10119ZZ	8-94468-521-0
				2	2.000	x	3.400	555F		
				O1	4.000	x	4.000			
C240	4	2369	86.000	1	2.000	x	3.500		SDI10047ZZ	9-12181-138-0
				2	2.000	x	3.500	555F		
				3	2.000	x	3.500			
				O1	5.000	x	2.800			
				O2	5.000	x	3.500			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
C240	4	2369	86.000	1	2.000	x	3.500	SJI10047ZZ	9-12181-138-0	
				2	2.000	x	3.500	DISCONTINUED		
				3	2.000	x	3.500	555F		
				O1	5.000	x	2.800			
				O2	5.000	x	3.500			
C240 For Chromard Liner.	4	2369	86.000	1	2.500	x	3.800	SDI10095ZZ	8-94104-949-0	ELF
				2	2.000	x	3.500			
				O1	5.000	x	4.200	555F		
C240 For Chromard Liner.	4	2369	86.000	1	2.500	x	4.000	SJI10095ZZ	5-12181-021-0	ELF
				2	2.000	x	3.500	SDI10095ZZ		
				O1	5.000	x	4.200	Mt.555F		
C240	4	2369	86.000	1	2.500	x	4.000	SDI10093ZZ	8-94104-954-0	ELF
				2	2.000	x	3.500			
				O1	5.000	x	4.300	555		
C240	4	2369	86.000	1	2.500	x	4.000	SJI10093ZZ	5-12181-022-0	ELF
				2	2.000	x	3.500	SDI10093ZZ		
				O1	5.000	x	4.300	Mt.555		
C240	4	2369	86.000	1	2.000	x	3.500	SDI10051ZZ	5-12181-027-0 5-12181-603-0 5-12181-605-0	ELF
				2	2.000	x	3.500			
				3	2.000	x	3.500	555		
				O1	5.000	x	3.900			
C240	4	2369	86.000	1	2.000	x	3.500	SJI10051ZZ	5-12181-027-0 5-12181-603-0 5-12181-605-0	ELF
				2	2.000	x	3.500	SDI10051ZZ		
				3	2.000	x	3.500	Mt.555F		
				O1	5.000	x	4.200			
C240PKG	4	2369	86.000	1	2.500	x	3.800	SDI10122ZZ	8-94471-442-0	
				2	2.000	x	3.500			
				O1	5.000	x	4.200	555		
C330	4	3318	98.000	1	3.000	x	3.900	SJI10049ZZ	9-12181-801-0	
				2	2.500	x	3.900	SJI10071ZZ		
				O1	5.000	x	4.300	Mt.555F		
CP221P	4	2207	83.000	1	2.000	x	3.400	SJI10047ZZ	5-12181-015-0 5-12181-122-0	
				2	2.000	x	3.400	SDI10017ZZ		
				3	2.000	x	3.400	Mt.555F		
				O1	5.000	x	3.800			
				O2	5.000	x	3.400			
D201	4		88.000	1	2.000	x	3.700	SJI10124ZZ	8-94417-175-0	
				2	2.000	x	3.700			
				3	2.000	x	3.700	Mt.555		
				O1	4.000	x	4.150			
D201	4		88.000	1	2.000	x	3.250	SDI10124XC	8-94417-175-0	
				2	2.000	x	3.700	DISCONTINUED		
				3	2.000	x	3.550	555		
				O1	4.000	x	4.350	SS999		
D400	6	3988	92.000	1	2.500	x	3.900	SDI10025ZZ	8-12181-097-0	
				2	2.500	x	3.900	DISCONTINUED		
				3	2.500	x	3.900	555F		
				O1	5.000	x	4.700			
				O2	5.000	x	3.700			

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
D500	6	4978	98.000	1	3.000	x	3.900	SJI10055ZZ	5-12181-020-0	(Forklift)
				2	2.500	x	3.900	DISCONTINUED	5-12181-608-0	
				O1	5.000	x	4.700	555F		
D920	6	9203	125.000	1	3.000	x	5.100	SJI10060ZZ	9-12181-115-0	
				2	3.000	x	5.200	Mt.555	1-12121-021-0	
				3	3.000	x	5.200			
				O1	6.000	x	5.100			
D920-1	6	9203	125.000	1	3.000	x	5.100	SJI10054ZZ	9-12181-137-0	
				2	2.500	x	5.100	SJI10088ZZ	1-12121-013-0	
				O1	6.000	x	5.100	Mt.555		
DA120 For industrial machine.	6	6126	100.000	1	2.500	x	4.000	SJI10028ZZ	1-12181-063-0	
				2	2.500	x	4.000	Mt.555	1-12181-091-0	
				3	2.500	x	4.000			
				O1	4.000	x	4.000			
				O2	4.000	x	4.000			
DA120	6	6126	100.000	1	2.500	x	3.850	SDI10064ZZ	1-12121-001-0	
				2	2.500	x	4.400	SDI10061ZX	1-12181-005-0	
				3	2.500	x	4.400	555	1-12181-036-0	
				O1	5.000	x	4.800		1-12181-087	
									1-12181-109	
						1-12181-128				
DA120	6	6126	100.000	1	2.500	x	3.850	SDI10061ZX	1-12121-001-0	
				2	2.500	x	4.400	555 SS999	1-12181-005-0	
				3	2.500	x	4.400		1-12181-036-0	
				O1	5.000	x	4.950		1-12181-087	
									1-12181-109	
					1-12181-128					
DA120 For industrial machine.	6	6126	100.000	1	2.500	x	4.200	SJI10064ZZ	1-12121-001-0	
				2	2.500	x	4.400	DISCONTINUED	1-12181-005-0	
				3	2.500	x	4.400	Mt.555	1-12181-036-0	
				O1	5.000	x	4.800		1-12181-087	
									1-12181-109	
						1-12181-128				
DA120 For industrial machine.	6	6126	100.000	1	3.000	x	4.400	SDI10076ZZ	1-12121-007-0	
				2	2.500	x	4.400	555	1-12181-040-0	
				3	2.500	x	4.400			
				O1	5.000	x	4.800			
DA220	4			1	2.500	x	4.200	SJI10029ZZ	9-12181-093-0	
				2	2.500	x	4.400	Mt.555		
				3	2.500	x	4.400			
				O1	4.000	x	3.100			
				O2	4.000	x	4.000			
DA220	4	4048	100.000	1	2.500	x	3.850	SDI10062ZZ	1-12121-001-0	
				2	2.500	x	4.400	DISCONTINUED	1-12181-006	
				3	2.500	x	4.400	555	1-12181-038-0	
				O1	5.000	x	4.800		1-12181-111	
DA220 For industrial machine.	4	4048	100.000	1	2.500	x	4.200	SJI10062ZZ	1-12121-001-0	
				2	2.500	x	4.400	Mt.555	1-12181-006	
				3	2.500	x	4.400		1-12181-038-0	
				O1	5.000	x	4.800		1-12181-111	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
DA220 For industrial machine.	4	4048	100.000	1	3.000	x	4.400	SDI10067ZZ	1-12121-007-0	
				2	2.500	x	4.400	DISCONTINUED	1-12181-042-0	
				3	2.500	x	4.400	555		
				O1	5.000	x	4.800			
DA640	6	6373	102.000	1	2.500	x	4.200	SJI10036ZZ	1-12161-064-0	
				2	2.500	x	4.400	Mt.555	1-12181-092-0	
				3	2.500	x	4.400			
				O1	4.000	x	4.800			
				O2	4.000	x	4.000			
DA640	6	6373	102.000	1	2.500	x	4.100	SDI10063ZX	1-12121-009-0	
				2	2.500	x	4.400		1-12181-033-0	
				3	2.500	x	4.400	555	1-12181-074	
				O1	5.000	x	4.800	SS999	1-12181-088	
									1-12181-110	
DA640	6	6373	102.000	1	2.500	x	4.200	SJI10063ZZ	1-12121-009-0	
				2	2.500	x	4.400	SDI10063ZX	1-12181-033-0	
				3	2.500	x	4.400	Mt.555	1-12181-074	
				O1	5.000	x	4.800		1-12181-088	
									1-12181-110	
DA640PP For industrial machine.	6	6373	102.000	1	3.000	x	4.400	SDI10066ZZ	1-12121-010-0	
				2	2.500	x	4.400	555	1-12181-034-0	
				3	2.500	x	4.400			
				O1	5.000	x	4.800			
DA640S DA640T	6	6373	102.000	1	3.500	x	4.200	SDI10057ZZ	1-12121-011-0	(Forklift)
				2	2.500	x	4.400	555	1-12181-014-0	
				3	2.500	x	4.400		1-12181-035-0	
				O1	5.000	x	4.800		1st-KS	
DH100	6	10179	120.000	1	3.000	x	5.000	SJI10039ZZ	1-12181-050-0	
				2	3.000	x	5.000	DISCONTINUED	1-12181-068-0	
				3	3.000	x	5.000	500		
				O1	6.000	x	3.700			
				O2	6.000	x	4.800			
DH100	6	10179	120.000	1	3.000	x	4.900	SJI10040ZZ	1-12121-016-0	
				2	3.000	x	5.000	DISCONTINUED	1-12181-001-0	
				3	3.000	x	5.000	Mt.555	1-12181-083-0	
				O1	6.000	x	5.600		1-12181-086-0	
									1-12181-114-0	
DH100	6	10179	120.000	1	3.000	x	4.450	SDI10040ZX	1-12121-016-0	
				2	3.000	x	5.000	555	1-12181-001-0	
				3	3.000	x	5.000		1-12181-083-0	
				O1	6.000	x	5.600		SS999	1-12181-086-0
DH100	6	10179	120.000	1	3.000	x	4.900	SJI10079ZZ	1-12121-017-0	
				2	3.000	x	5.000	DISCONTINUED	1-12181-049-0	
				O1	6.000	x	5.600	Mt.555		
DH100BU	6		119.500	1	3.000	x	4.900	SJI10092ZZ	1-12121-030-0	
				2	3.000	x	5.000	DISCONTINUED		
				O1	6.000	x	5.600	Mt.555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ISUZU DIESEL ENGINE										
DL201	4	1991	83.000	1	2.000	x	3.400	SCH40043ZZ	9-12181-057-0	
				2	2.000	x	3.400	DISCONTINUED	9-12181-062-0	
				3	2.000	x	3.400	500		
				O1	4.000	x	3.400			
				O2	4.000	x	3.400			
DL201	4	1991	83.000	1	2.000	x	3.400	SDI10013ZZ	9-12181-100-0	
				2	2.000	x	3.400	555F		
				3	2.000	x	3.400			
				O1	4.000	x	3.400			
				O2	4.000	x	3.400			
E110	6	11044	125.000	1	3.000	x	5.100		SJI10060ZZ	9-12181-143-0
				2	3.000	x	5.200	Mt.555	9-12181-153-0	
				3	3.000	x	5.200		1-12121-022-0	
				O1	6.000	x	5.100			
E120	6	12023	135.000	1	4.000	x	5.500		SDI10050ZZ	1-12121-023-0
				2	2.500	x	5.500	555	9-12181-149-0	
				3	2.500	x	5.500			
				O1	7.000	x	6.200			
E120	6	12023	135.000	1	4.000	x	5.500		SDI10075ZZ	1-12121-034-0
				2	2.500	x	5.500	555 All Plt	1-12181-022-0	
				O1	7.000	x	6.200			
E120T For industrial machine.	6	12023	135.000	1	3.750	x	5.500		SDI10074ZZ	1-12121-014-0
				2	2.500	x	5.500	555 1st-KS	1-12181-023-0	
				3	2.500	x	5.500			
				O1	7.000	x	6.200			
GD150	6	5654	100.000	1	2.500	x	4.200		SJI10034ZZ	9-12181-112-0
				2	2.500	x	4.400	DISCONTINUED		
				O1	5.000	x	4.800	Mt.555		
PE	1		127.000	1	2.917	x	4.750	YDI10180ZY	1-12121-145-0	
				2	2.000	x	4.700	1Cyl Pkg 555		
				3	3.000	x	5.200			
				O1	4.000	x	4.350			
PE1	8 10 12	19001 23751 28502	127.000	1	3.806	x	4.950		YDI10164ZZ	1-12121-123-2
				2	3.000	x	5.000	1Cyl Pkg 555		
				3	3.000	x	5.200			
				O1	4.000	x	4.450			
V170	8	16513	145.000	1	4.000	x	5.900		SJI10043ZZ	1-12121-025-0
				2	3.000	x	5.900	SJI10073ZZ	1-12181-008-0	
				O1	6.000	x	6.300	Mt.555		

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JAGUAR GASOLINE ENGINE										
DURATEC 30	6	2967	89.000	1	1.200	x	3.500	SWF30021ZZ	C2C005449	S-TYPE
				2	1.500	x	4.100			X-TYPE
				O1	2.500	x	2.850	777		

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2.5 EGI	4		80.000	1	1.200	x	2.900	SWK30025ZZ	K9YV-11-SCO	CARNIVAL
				2	1.500	x	3.400	777		
				O1	2.500	x	2.850			
B1	4	1100	68.000	1	1.200	x	2.500	SWK30018ZZ	KK1Y8-11-SCO KKY1-11-SCO	PRIDE
				2	1.500	x	3.100	777		
				O1	3.000	x	2.950			
B2	4	1300	71.000	1	1.200	x	2.470	SWK30017ZZ	K1Y0-11-SCO K1Y1-11-SCO	PRIDE
				2	1.500	x	3.100	777		
				O1	3.000	x	2.920			
B3	4	1324	71.000	1	1.200	x	2.500	SWT20052ZZ	K1YH-11-SCO	PRIDE FESTIVA
				2	1.500	x	3.100	777		
				O1	3.000	x	2.950			
B3	4	1324	75.500	1	1.200	x	2.850	SWK30019ZZ	OK3Y0-11-SCO	RIO
				2	1.200	x	3.300	777		
				O1	2.500	x	2.800			
B3	4	1324	78.000	1	1.500	x	3.050	SWK30020ZZ	K9Y1-11-SCO	SEPHIA
				2	1.500	x	3.400	777		
				O1	4.000	x	3.050			
B3	4	1324	78.000	1	1.200	x	2.500	SWK30024ZZ	KK1Y8-11-SCO	PRIDE
				2	1.500	x	2.800	NEW 777		
				O1	3.000	x	2.850			
B6D	4	1600	78.000	1	1.500	x	3.050	SWK30026ZZ	OK2Y2-11-SCO OK2Y0-11-SCO	SEPHIA
				2	1.500	x	3.400	777		
				O1	3.000	x	3.000			
B6D	4	1600	78.000	1	1.200	x	2.850	SWK30027ZZ	OK3Y3-11-SCO	SPECTRA
				2	1.200	x	3.300	NEW 777		
				O1	2.500	x	2.800			
BM	3	800	70.000	1	1.200	x	2.500	SWK30021ZZ	KOMBI-11-SCO	TOWNER
				2	1.500	x	3.000	777		
				O1	2.800	x	2.850			
BP	4	1839	83.000	1	1.500	x	3.300	SWT20066ZZ	BPY0-11-SCO	SEPHIA
				2	1.500	x	3.600	777		
				O1	3.000	x	2.800			
BT57	4	1300	71.000	1	1.200	x	2.500	SWT20052ZZ	B3Y0-11-SC0A	AVELLA ASPIRE
				2	1.500	x	3.100	777		
				O1	3.000	x	2.950			
FB	4	1793	81.000	1	1.200	x	3.300	SWG30040ZZ	23040-2Y000	SPECTRA SPECTRA 5
				2	1.200	x	3.400	777		
				O1	2.500	x	2.850			
FED	4	1998	86.000	1	1.500	x	3.300	SWK30022ZZ	KFY3-11-SCO	SPORTAGE
				2	1.500	x	3.800	777		
				O1	4.000	x	3.250			
G4JS Sirius II 2.4D	4	2350	86.500	1	1.200	x		TBA	23040-38200	OPTIMA
				2	1.500	x		777		
				O1	2.800	x				
G6BA	6	2656	86.500	1	1.200	x	3.050	SWG30037ZZ	23040-37300	OPTIMA
				2	1.200	x	3.600	777		
				O1	2.500	x	2.900			

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KIA GASOLINE ENGINE										
G6BV	6	2493	84.000	1 2 O1		x x x		NA 777	23040-37200	OPTIMA
G6CU	6	3497	93.000	1 2 O1	1.500 1.500 3.000	x x x	3.500 3.900 2.850	SWM31121ZZ 777	23040-39800	AMANTI SEDONA SORENTO

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
6D22 NEW	6	11149	130.000	1	3.306	x	4.550	SDG30014ZX	23040-83030	
				2	3.000	x	5.300	DISCONTINUED		
				O1	4.000	x	4.350	555 SS999		
EF750	8	16745	137.000	1	3.306	x	5.400	SDK30023ZZ	AA92A-11-120	
				2	3.500	x	5.400	555		
				3	3.500	x	5.400			
				O1	6.000	x	5.500			
HA1	4	2957 3000	95.000	1	2.380	x	3.450	SDK30010ZZ	K0Y0-11-SCO	K3000 SUPER TITAN
				2	2.380	x	3.800	555		
				O1	4.000	x	4.150			
H07C	6	6728	110.000	1	3.000	x	4.500	SDK30015ZZ	OK8Y0-11-SCO	
				2	2.500	x	4.500	SDK30015ZX		
				3	2.500	x	4.500	555		
				O1	5.000	x	4.700			
H07C	6	6728	110.000	1	3.000	x	4.050	SDK30015ZX	OK8Y0-11-SCO	
				2	2.500	x	4.500	555 SS999		
				3	2.500	x	4.500			
				O1	5.000	x	4.950			
J2	4	2665 2700	94.500	1	2.000	x	3.250	SDK30001ZZ	K6Z1-11-SCO	K2700 PREGIO
				2	2.000	x	4.000	555		
				O1	3.000	x	3.250			
J3	4		97.100	1	2.000	x	3.500	SDK30016ZZ	K5Z1-11-SCO	CARNIVAL
				2	2.000	x	3.900	555		
				O1	3.000	x	3.250			
J5	4	2665 2700	94.500	1	2.000	x	3.250	SDK30001ZZ	K6Z1-11-SCO	K2700 PREGIO
				2	2.000	x	4.000	555		
				O1	3.000	x	3.250			
K2700	4	2665 2700	94.500	1	2.000	x	3.250	SDK30001ZZ	K6Z1-11-SCO	K2700 PREGIO
				2	2.000	x	4.000	555		
				O1	3.000	x	3.250			
K2700	4	2400	92.000	1	2.850	x	3.800	SDK30004ZZ	K4Z0-11-SCO K480-23-206	K2700
				2	2.400	x	3.800	SDK30004ZX		
				O1	4.000	x	4.100	555		
K2700	4	2400	92.000	1	2.850	x	3.800	SDK30004ZX	K4Z0-11-SCO K480-23-206	K2700
				2	2.400	x	3.800	555 SS999		
				O1	4.000	x	4.350			
K3000	4	3581 3600	98.000	1	2.000	x	3.650	SDK30008ZZ	K7Z1-11-SCO	K3600
				2	2.000	x	3.900	555		
				O1	3.000	x	3.250			
K4100	6		92.025	1	2.383	x	3.600	SDK30012ZZ	OK8Y1-11-SCO	K4100
				2	2.383	x	3.600	SDK30012ZX		
				O1	4.763	x	4.300	555		
K4100	6		92.025	1	2.383	x	3.450	SDK30012ZX	OK8Y1-11-SCO	K4100
				2	2.383	x	3.600	555 SS999		
				O1	4.763	x	4.600			

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NB1 (R2)	4	2184	86.000	1	2.000	x	3.500	SDK30006ZZ	R201-23-130	BESTA
					2.000	x	3.600			
					O1	3.000	x			
NB1 (R2)	4	2184	86.000	1	2.000	x	3.050	SDK30013ZX	K7Y0-11-SCO	NEW BESTA
					2.000	x	3.600			
					O1	3.000	x			
NB7 R2	4	2184	86.000	1	2.000	x	3.050	SDK30011ZX	K7Y1-11-SCO	NEW BESTA
					2.000	x	3.600			
					O1	3.000	x			
RFA	4	2400	93.000	1	2.000	x	3.250	SDK30009ZZ	VNY1-11-SCO	HI BESTA
					2.000	x	3.700			
					O1	3.000	x			
S2	4	2209	88.900	1	2.383	x	3.500	SDK30007ZX	K6Z0-11-SCO	BONGO CERES
					2.383	x	3.500			
					O1	4.763	x			
SF	4	2400	92.000	1	2.383	x	3.800	SDK30005ZZ	K7Z0-11-SCO	K2400 POWER BONGO WIDE BONGO
					2.383	x	3.800	SDK30005ZX		
					O1	4.000	x	4.100		
SF	4	2400	92.000	1	2.383	x	3.600	SDK30005ZX	K7Z0-11-SCO	K2400 POWER BONGO WIDE BONGO
					2.383	x	3.800			
					O1	4.000	x			
SH	4	3581	100.000	1	2.000	x	3.650	SDK30003ZZ	K4Y1-11-SCO	K3600 TRADE
		3600			2.000	x	4.200			
		O1			3.000	x	3.250			
SH3	4	3500	100.000	1	2.500	x	4.200	SDK30014ZZ	K4Y0-11-SCO	K3500
					2.000	x	4.300	SDK30014ZX		
					O1	4.500	x	4.200		
SH3	4	3500	100.000	1	2.500	x	3.650	SDK30014ZX	0K4Y-11-SCO	K3500
					2.000	x	4.200			
					O1	4.500	x			
SL	4	3500	100.000	1	2.500	x	4.200	SDK30014ZZ	K4Y0-11-SCO	K3500 TRADE TITAN
					2.000	x	4.200	SDK30014ZX		
					O1	4.000	x	4.200		
XA	4	2209	88.900	1	2.383	x	3.500	SDK30007ZX	K6Z0-11-SCO	BONGO CERES
					2.383	x	3.500			
					O1	4.763	x			
ZB	6	4052	92.025	1	2.383	x	3.600	SDT20034ZZ	0527-23-206	AM815 BOXER COMBI K4100
		4100			2.383	x	3.600	SDT20034ZX	V101-23-206	
		O1			4.763	x	4.300	555		
ZB	6	92.025	92.025	1	2.383	x	3.450	SDK30012ZX	OK8Y1-11-SCO	K4100
					2.383	x	3.600			
					O1	4.763	x			
								555		
								SS999		

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2D92	2	1300	92.000	1	3.000	x	4.000	SDK04012ZZ	6140-31-2040	BULLDOZER
4D92	4	2610		2 O1	3.000 6.000	x x	4.000 4.500	555	6141-31-2030	
4D94	4	2940	94.000	1 O1	2.900 2.500 5.000	x x x	3.800 4.100 4.400	SDK04015ZZ	6142-32-2020 6142-32-2030	BULLDOZER
4D95	4	3260	95.000	1 2 O1	2.200 2.200 4.000	x x x	4.000 4.000 4.150	SDK04014ZZ	6202-32-2300	BULLDOZER
4D95	4	3260	95.000	1 2 O1	2.200 2.000 4.000	x x x	4.000 4.000 4.150	SDK04025ZZ	6202-32-2200	BULLDOZER
4D95	4	3260	95.000	1 2 O1	2.200 2.000 4.000	x x x	4.000 4.000 4.150	SDK04031ZZ	6204-31-2200 6204-31-2203	BULLDOZER
4D105	4	3980	105.000	1 2 O1	3.000 2.500 5.000	x x x	4.200 4.500 4.700	SDK04009ZZ	6130-31-2202 6130-32-2202 6130-32-2301 6130-32-2302 6136-31-2030	BULLDOZER
4D105	4	4330	105.000	1 2 O1	3.000 2.500 5.000	x x x	4.200 4.500 4.700	SDK04010ZZ	6136-31-2201	BULLDOZER
4D105	4	4330	105.000	1 2 O1	3.000 3.000 5.000	x x x	4.200 4.500 4.700	SDK04033ZZ	6130-31-2202 6130-32-2202 6130-32-2302 6130-32-2301	
4D105-2	1		105.000	1 2 O1	2.984 2.955 4.000	x x x	4.375 4.375 4.450	SDK04026ZZ		
4D106	4		106.000	1 2 O1	2.500 2.000 3.000	x x x	3.700 4.400 3.250	SDK04029ZZ	YM123900-22050	
4D120	4	7240	120.000	1 2 O1	3.500 3.500 5.500	x x x	4.800 5.000 5.700	SDK04007ZZ	6110-30-2301 6110-30-2302 6110-30-2303 6110-30-2401 6110-30-2402 6110-30-2403	BULLDOZER
4D120A	4	7240	120.000	1 2 3 O1 O2	4.000 4.000 4.000 5.500 5.500	x x x x x	4.200 4.200 4.200 4.200 4.200	SCK04002ZZ DISCONTINUED 555	6110-30-2040 3110-30-2200	BULLDOZER
4D120A	4	7240	120.000	1 2 3 O1 O2	4.000 4.000 4.000 5.500 5.500	x x x x x	4.200 4.200 4.200 4.200 4.200	SDK04002ZZ DISCONTINUED 500	6110-30-2040 3110-30-2200	BULLDOZER

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KOMATSU DIESEL ENGINE										
6D130	4	8490	130.000	1	3.500	x	5.100	SDK04011ZZ	6114-30-2303 6114-30-2403	BULLDOZER
				2	2.500	x	5.400	555 All Plt		
				O1	5.500	x	5.800			
6D150	4	14130	150.000	1	4.500	x	5.800	YCK04004ZZ	6198-31-2200 6199-31-2200	BULLDOZER
				2	4.500	x	5.800	DISCONTINUED 500 1Cyl Pkg		
				3	4.500	x	5.800			
				4	4.500	x	5.800			
				O1	6.000	x	5.800			
				O2	6.000	x	5.800			
6D155	4	12840	155.000	1	3.500	x	6.200		YBK04005ZZ	6125-31-2021 9128-31-2021
				2	3.500	x	6.200	DISCONTINUED 300 1Cyl Pkg		
				3	3.500	x	6.200			
				O1	6.000	x	6.200			
6D95	6	4890	95.000	1	2.000	x	4.000		SDK04019ZZ	6204-31-2202
				2	2.000	x	4.000	555		
				O1	4.000	x	4.150			
6D95	6	4890	95.000	1	2.200	x	4.000	SDK04024ZZ	6202-32-2200	BULLDOZER
				2	2.000	x	4.000	555		
				O1	4.000	x	4.150			
6D108	6	108.000	108.000	1	2.500	x	4.350	SDK04020ZZ	6204-31-2200	BULLDOZER
				2	2.530	x	4.350	555		
				O1	4.000	x	4.150			
6D125	6	11040	125.000	1	2.500	x	5.000	SDK04022ZZ	6150-31-2032 6150-31-2033	BULLDOZER
				2	2.500	x	5.000	555		
				O1	4.000	x	4.400			
6D125	6	11040	125.000	1	2.500	x	4.700	SDK04034ZX	6150-31-2030	BULLDOZER
				2	2.000	x	5.000	555		
				O1	3.000	x	3.250			
6D125	6	11040	125.000	1	2.400	x	5.000	SDK04035ZZ	6151-31-2031	BULLDOZER
				2	2.000	x	5.100	555		
				O1	3.000	x	3.300			
6D140	6	15200	140.000	1	3.000	x	5.400	SDK04003ZZ	-	BULLDOZER
				2	3.000	x	5.400	DISCONTINUED 300		
				3	3.000	x	5.400			
				4	3.000	x	5.400			
				O1	6.000	x	5.400			
				O2	6.000	x	5.400			
6D140	6	15200	140.000	1	2.400	x	5.400		SDK04028ZZ	6211-31-2031
				2	2.400	x	5.400	555		
				O1	4.000	x	4.150			
6D150	6	21200	150.000	1	4.500	x	5.800	YCK04004ZZ	6198-31-2200 6199-31-2200	BULLDOZER
				2	4.500	x	5.800	DISCONTINUED 500 1Cyl Pkg		
				3	4.500	x	5.800			
				4	4.500	x	5.800			
				O1	6.000	x	5.800			
				O2	6.000	x	5.800			

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
6D155	4	19260	155.000	1	3.500	x	6.200	YBK04005ZZ	6125-31-2021	BULLDOZER
				2	3.500	x	6.200	DISCONTINUED	9128-31-2021	
				3	3.500	x	6.200	300		
				O1	6.000	x	6.200	1Cyl Pkg		
12N	6	19260	155.000	1	3.680	x	6.060	SDK04013ZZ	6128-31-2060	BULLDOZER
				2	3.550	x	6.060		6128-31-2070	
				O1	4.750	x	5.000	555 1st-KS 2nd-KS All Plt		
DE DF	6	21200	150.000	1	4.500	x	5.800	YCK04004ZZ	6198-31-2200	BULLDOZER
				2	4.500	x	5.800	DISCONTINUED	6199-31-2200	
				3	4.500	x	5.800	500		
				4	4.500	x	5.800	1Cyl Pkg		
				O1	6.000	x	5.800			
				O2	6.000	x	5.800			
S4D95	4	3260	95.000	1	2.200	x	4.000	SDK04014ZZ	6202-32-2300	BULLDOZER
				2	2.200	x	4.000			
				O1	4.000	x	4.150	555		
S4D95	4	3260	95.000	1	2.200	x	4.000	SDK04025ZZ	6202-32-2200	BULLDOZER
				2	2.000	x	4.000			
				O1	4.000	x	4.150	555		
S4D120	4	7240	120.000	1	3.500	x	4.800	SDK04007ZZ	6110-30-2403	BULLDOZER
				2	2.500	x	5.000		6110-30-2402	
				O1	5.500	x	5.700	555	3110-30-2401	
								6110-30-2301		
S6D95	6	4890	95.000	1	2.500	x	3.700	SDK04018ZZ	6207-31-2500	BULLDOZER
				2	2.200	x	4.000	SDK04018ZX		
				O1	4.000	x	4.150	1st-KS 2nd-KS All Plt		
S6D95	6	4890	95.000	1	2.500	x	3.450	SDK04018ZX	6207-31-2500	BULLDOZER
				2	2.200	x	4.000	555		
				O1	4.000	x	4.150	1st-KS 2nd-KS SS999		
S6D95	6	4890	95.000	1	2.500	x	3.700	SDK04023ZZ	6202-31-2400	BULLDOZER
				2	2.200	x	4.000			
				O1	4.000	x	4.150	555		
S6D95	6	4890	95.000	1	2.500	x	3.700	SDK04032ZZ	6207-31-2200	BULLDOZER
				2	2.000	x	4.000			
				O1	4.000	x	4.350	555		
S6D102	6	102.000	102.000	1	2.875	x	4.050	SDK04027ZX		
				2	2.370	x	4.200			
				O1	4.000	x	4.350	555 SS999		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
KOMATSU DIESEL ENGINE										
S6D105	6	6490	105.000	1	3.000	x	4.200	SDK04016ZZ	6137-31-2040	BULLDOZER
					2	x	4.500	SDK04016ZX		
					O1	x	4.700	1st-KS 2nd-KS All Plt		
S6D105	6	6490	105.000	1	3.000	x	3.850	SDK04016ZX	6137-31-2040	BULLDOZER
					2	x	4.500	555		
					O1	x	4.700	1st-KS 2nd-KS SS999		
S6D105	6	3260	95.000	1	3.000	x	4.200	SDK04017ZZ	6316-31-2010 6316-31-2030	BULLDOZER
					2	x	4.500	555		
					O1	x	4.700			
S6D110	6	7130	110.000	1	3.000	x	4.400	SDK04021ZZ	6138-31-2200	BULLDOZER
					2	x	4.600	555		
					O1	x	4.050			
S6D155	6	19260	155.000	1	4.000	x	6.400	SDK04008ZZ	6128-31-2022 6128-31-2023 6128-31-2033	BULLDOZER
					2	x	6.200	555		
					O1	x	5.700	All Plt		
					O2	x	6.200			
SA1D95	6	4890	95.000	1	2.000	x	4.000	SDK04019ZZ	6204-31-2202	BULLDOZER
					2	x	4.000	555		
					O1	x	4.150			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
LAND ROVER GASOINE ENGINE										
COLOGNE 40	6	4015	100.400	1	1.200	x	3.500	SWF30012ZZ	2U3Z 6148 AA	LR3
				2	1.500	x	4.200			
				O1	3.000	x	3.250	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
0552	4	1985	82.000	1	2.000	x	3.600	SWT20021ZZ	0552-23-180	
					2.000	x	3.600	777	0552-23-190	
					O1 4.500	x	3.600	777	1352-23-130	
323 6CV	4	1100	70.000	1	1.500	x	3.100	SWT20040ZZ	8698-23-130	
					2 1.500	x	3.100	777		
					O1 4.000	x	2.050			
A	4	2300	96.000	1	1.500	x	4.000	SWT20071ZZ	ZZM0-23-130	B2600
					2 1.500	x	4.000	777	ZZM9-23-120	
					O1 4.000	x	3.250			
AJ	4	2967	89.000	1	1.500	x	3.700	SWI10155ZZ	ZZP1-23-130	B3000 MPV TRIBUTE
					2 1.500	x	3.600	777		
					O1 4.000	x	3.650			
AJ-DE	4	2967	89.000	1	1.500	x	3.500	NA	1F61-23-130	B3000
					2 1.500	x	4.000	777		
					O1 3.000	x	3.450			
AM1	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	AM15-11-SC0	B2600
					2 1.500	x	3.800	777		
					O1 4.000	x	3.250			
B1	4	987	68.000	1	1.200	x	2.500	SWT20051ZZ	B1Y0-11-SC0	
					2 1.500	x	3.100	777		
					O1 3.000	x	2.950			
B3	4	1300	71.000	1	1.200	x	2.500	SWT20052ZZ	B3Y0-11-SC0A	
					2 1.500	x	3.100	777		
					O1 3.000	x	2.950			
B6	4	1597	78.000	1	1.500	x	3.100	SWT20063ZZ	B6Y3-11-SC0A	MIATA MX5
					2 1.500	x	3.400	777		
					O1 3.000	x	3.050			
B6 B6E	4	1597	78.000	1	1.500	x	3.100	SWT20060ZZ	B6Y0-11-SC0A	CAPELLA
					2 1.500	x	3.400	777	B6Y4-11-SC0B	323
					O1 4.000	x	3.050		B6Y6-11-SC0A	MIATA MX5 MX3
BP BP01 BP05	4	1839	83.000	1	1.500	x	3.300	SWT20066ZZ	BPY1-11-SC0	MIATA MX5
					2 1.500	x	3.600	777	BPY3-11-SC0	PROTÉGÉ
					O1 3.000	x	2.800			
C	4	2500	96.000	1	1.500	x	4.000	SWT20076ZZ	ZZP0-23-130	B2500
					2 1.500	x	4.000	777		
					O1 3.000	x	3.450			
E1	4	1100	70.000	1	1.500	x	3.100	SWT20040ZZ	8698-23-130	
					2 1.500	x	3.100	777		
					O1 4.000	x	2.050			
E1-A	4	1100	70.000	1	1.200	x	3.100	SWT20088ZZ	E103-23E130A	
					2 1.500	x	3.100	DISCONTINUED		
					O1 4.000	x	3.100	777		
E3 E5	4	1296	77.000	1	1.200	x	3.200	SWT20037ZZ	E301-23-130	FAMILIA
					2 1.500	x	3.200	777	E301-23-130A	GLC
					O1 4.000	x	3.200		E512-23-130	
E3 E5	4	1296	77.000	1	1.500	x	3.100	SWT20045ZZ	E302-23-130A	FAMILIA
					2 2.000	x	3.300	777		GLC
					O1 4.000	x	3.200	1st-SPRYD		

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EVB	4	1985	82.000	1	2.000	x	3.600	SWT20021ZZ	0552-23-180	
				2	2.000	x	3.600		0552-23-190	
				O1	4.500	x	3.600	777	1352-23-130	
F2	4	2184	86.000	1	1.500	x	3.300	SWT20048ZZ	F2Y1-11-SC0	626 B2200 MX6
				2	1.500	x	3.800			
				O1	4.000	x	2.680	777		
F6G	4	1587	81.000	1	1.500	x	3.300	SWT20054ZZ	F601-23-130	
				2	1.500	x	3.600		F601-23-130A	
				O1	4.000	x	2.450	777		
F8	4	1789	86.000	1	1.500	x	3.300	SWT20048ZZ	F801-23-130	B2000 B2200
				2	1.500	x	3.800			
				O1	4.000	x	3.250	777		
FE	4	1998 2184	86.000	1	1.500	x	3.300	SWT20065ZZ	F2Y1-11-SC0	626 B2000 B2200
				2	1.500	x	3.800			
				O1	4.000	x	3.250	Mt.777		
FP FS	4	1991	83.000	1	1.200	x	3.100	SWT20078ZZ	FSY2-11-SC0A	626 MX6 PROTÉGÉ
				2	1.500	x	3.600			
				O1	3.000	x	3.200	777		
FS FS-DE	4	1991	83.000	1	1.200	x	3.100	SWT20078ZZ	F2Y2-11-SC0	626 MX6 PROTÉGÉ
				2	1.500	x	3.600			
				O1	3.000	x	3.200	777		
G6	4	2606	92.000	1	1.500	x	3.300	SWT20064ZZ	G601-11-SC0A	B2600 MPV
				2	1.500	x	4.100			
				O1	4.000	x	2.540	777		
GY	6	2494	81.600	1		x		NA	GYTT-11-SC0	MPV
				2		x				
				O1		x		777		
JE JE27 JE48	6	3000	90.000	1	1.500	x	3.300	SWT20062ZZ	JEY1-11-SC0	929 MPV
				2	1.500	x	3.800			
				O1	4.000	x	3.250	777		
JF	6	1997	74.000	1	1.500	x	2.850	SWT20079ZZ	JFY1-11-SC0	
				2	1.500	x	3.400			
				O1	4.000	x	3.050	777		
K8	6	1844	75.000	1	1.500	x	2.700	SWT20067ZZ	K8Y0-11-SC0	MX3
				2	1.500	x	3.200		K8Y2-11-SC0A	
				O1	3.000	x	2.000	777		
KJ	6	2255	80.300	1		x		NA	KJY1-11-SC0A	MILLENIA
				2		x				
				O1		x				
KL	6	2507	84.500	1	1.500	x	3.050	SWT20073ZZ	KLY1-11-SC0A	626 MILLENIA MX6
				2	1.500	x	3.600		KLY2-11-SC0A	
				O1	3.000	x	2.850	777		
L3 L3-VE	4	2260	87.500	1	1.200	x	2.700	SWT20090ZZ	L3Y1-11-SC0	MAZDA 3 MAZDA 6 TRIBUTE
				2	1.200	x	3.400		L3Y4-16-SC4	
				O1	2.500	x	2.600	777		
LF-DE	4	1998	87.500	1	1.200	x	2.850	SWT20089ZZ	LFY1-11-SC0	MAZDA 3 MIATA MX5
				2	1.200	x	3.400		LFY1-82-SC2B	
				O1	2.500	x	2.800	777		

EXPORT PISTON RINGS



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MA	4	1769	80.000	1	2.000	x	3.600	SWT20030ZZ	0453-23-130		
					2	2.000	x	3.600			0453-23-130B
					O1	4.000	x	3.250	777		3975-23-130
MA	4	1970	80.000	1	1.200	x	3.600	SWT20031ZZ	8682-23-130	626 B2000	
					2	1.500	x	3.600			8682-23-130A
					O1	4.000	x	3.250	777		D97Z-6149 HE18-23-130
MA	4	2000	80.000	1	1.500	x	3.500	SWT20042ZZ	HE05-23-130	626 B2000	
					2	2.000	x	3.600			
					O1	4.000	x	3.250	777		
NA	4	1586	78.000	1	1.500	x	3.600	SWT20025ZZ	0290-23-130	626 808 B1600	
					2	1.500	x	3.600			0290-23-131
					O1	4.000	x	3.000	777		0305-23-130 0484-23-130 0494-23-130 3763-23-130
NA	4	1586	78.000	1	1.500	x	3.100	SWT20049ZZ	0494-23-130	626	
					2	2.000	x	3.600			H617-23-130
					O1	4.000	x	3.050	777		
NA	4	1586	78.000	1	1.500	x	3.400	SXT20049ZZ	0494-23-130	626	
					2	2.000	x	3.600	SWT20049ZZ		H617-23-130
					O1	4.000	x	3.150	Mt.777		
NA	4	1796	78.000	1	1.200	x	3.600	SWT20035ZZ	8170-23-130		
					2	1.500	x	3.600			8170-23-130A
					O1	4.000	x	3.050	777		8658-23-130 H604-23-130
PB	4	987	68.000	1	2.000	x	3.000	SXT20006ZZ	0249-23-170A	FAMILIA	
					2	2.000	x	3.000			0249-23-206
					O1	4.000	x	2.420	Mt.777		
PC	4	985	70.000	1	2.000	x	3.100	SNT20019ZZ	0268-23-206		
					2	2.000	x	3.100			
					O1	4.000	x	2.500	500X		
TA	4	1200	70.000	1	2.500	x	3.100	SCT20007ZZ	0106-11-999		
					2	2.500	x	3.100			
					O1	4.000	x	3.100	500		
TB	4	1139	70.000	1	2.000	x	3.100	SWT20009ZZ	0221-23-999	1200	
					2	2.000	x	3.100	SXT20009ZZ		0268-23-170A
					O1	4.000	x	2.500	777		0271-23-170 0271-23-206 0317-23-130 0317-23-175
TB	4	1139	70.000	1	2.000	x	3.100	SXT20009ZZ	0221-23-999	1200	
					2	2.000	x	3.100			0268-23-170A
					O1	4.000	x	3.100	Mt.777		0271-23-170 0271-23-206 0317-23-130 0317-23-175
TC	4	1272	73.000	1	2.000	x	3.100	SWT20026ZZ	0324-23-175	808 FAMILIA GLC	
					2	2.000	x	3.100			0324-23-130
					O1	4.000	x	2.900	777		

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TC	4	1272	73.000	1	1.500	x	3.100	SWT2003ZZ	8034-23-130	FAMILIA	
					2	1.500	x	3.100	777		8034-23-130A
					O1	4.000	x	3.200			
U	6	2954	89.000	1	1.500	x	3.450	SWT20075ZZ	ZZMD-23-130	B3000	
					2	1.500	x	3.700	777		
					O1	4.000	x	3.250			
UA	4	1500	75.000	1	2.000	x	3.300	SNT20050ZZ	0571-23-180		
					2	2.000	x	3.300	DISCONTINUED		
					O1	4.000	x	2.800	500X		
UA UB	4	1484	75.000	1	2.500	x	3.300	SCT20010ZZ	0603-11-170	(Forklift)	
					2	2.500	x	3.300	500		0603-11-999
					O1	4.000	x	3.300			
UB	4	1490	78.000	1	2.000	x	3.600	SWT20044ZZ	0222-23-130		
					2	2.000	x	3.600	DISCONTINUED		0222-23-206
					O1	4.000	x	3.000	777		
UC	4	1415	77.000	1	1.500	x	3.200	SWT20036ZZ	8569-23-130	GLC	
					2	1.500	x	3.200	777		8569-23-130A
					O1	4.000	x	3.200			
VA	4	1985	82.000	1	2.500	x	3.600	SCT20012ZZ	0164-11-999		
					2	2.500	x	3.600	500		
					O1	4.500	x	3.600			
VA	4	1985	82.000	1	2.000	x	3.600	SWT20021ZZ	0552-23-180		
					2	2.000	x	3.600	777		0552-23-190
					O1	4.500	x	3.600			1352-23-130
VB	4	1796	78.000	1	1.500	x	3.600	SWT20025ZZ	0290-23-130	618 B1800	
					2	1.500	x	3.600	777		0290-23-131
					O1	4.000	x	3.000			0305-23-130
						0484-23-130					
						0494-23-130					
						3763-23-130					
VB	4	2000	80.000	1	1.500	x	3.500	SWT20042ZZ	HE05-23-130		
					2	2.000	x	3.600	777		
					O1	4.000	x	3.250			
VC	4	1769	80.000	1	2.000	x	3.600	SWT20030ZZ	0453-23-130		
					2	2.000	x	3.600	777		0453-23-130B
					O1	4.000	x	3.250			3975-23-130
VC	4	1769	80.000	1	1.200	x	3.600	SWT20031ZZ	8682-23-130		
					2	1.500	x	3.600	777		8682-23-130A
					O1	4.000	x	3.250			D97Z-6149
						HE18-23-130					
XS	6	4016	100.400	1	1.600	x	4.050	SWT20072ZZ	ZZM2-23-130	B4000 NAVAJO	
					2	1.750	x	4.000	777		
					O1	3.500	x	3.100			
YF	4	1988	84.500	1	1.500	x	3.050	SWL03061ZZ	-	TRUBUTE	
					2	1.750	x	3.900	DISCONTINUED		
					O1	3.000	x	3.200	777		
Z5	4	1459	75.300	1	1.000	x	2.700	SWT20074ZZ	Z5Y0-11-SC0	PROTÉGÉ	
					2	1.200	x	3.200	777		
					O1	2.500	x	2.550			

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MAZDA GASOLINE ENGINE										
ZJ-VEN	4	1348	74.000	1	1.000	x	2.470	SWT20083ZZ	ZJY4-11-SC0	DEMIO
				2	1.000	x	2.500	NEW		
				O1	2.000	x	2.250	777		
ZL-DE	4	1597	80.000	1	1.200	x	2.650	SWT20080ZZ	ZLY0-11-SC0	PROTÉGÉ
				2	1.500	x	3.200	777		
				O1	3.000	x	3.000			
ZY-VE	4	1498	78.000	1	1.200	x	2.450	SWT20087ZZ	ZYY1-11-SC0	AXELA DEMIO MAZDA2
				2	1.200	x	3.300	NEW	ZYY2-11-SC0	
				O1	2.500	x	2.450	777		

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EZA	6	4052	92.000	1	2.383	x	3.600	SCT20024ZZ	0784-23-206	
				2	2.383	x	3.600	500		
				3	2.383	x	3.600			
				O1	4.763	x	3.600			
				O2	4.763	x	3.600			
HA	4	2977	95.025	1	2.383	x	3.800	SDT20028ZZ	1363-23-206	TITAN
				2	2.383	x	3.800	SDT20028ZX	SE01-23-206	
				O1	4.763	x	4.300	555		
HA	4	2977	95.025	1	2.383	x	3.450	SDT20028ZX	1363-23-206	TITAN
				2	2.383	x	3.800	555	SE01-23-206	
				O1	4.763	x	4.650	SS999		
J35L	4	4000	105.505	1	2.500	x	3.900	SDT20069ZZ	TF70-11-SC0	
				2	2.000	x	4.600	555		
				O1	3.000	x	3.250			
PN	4	1720	78.000	1	2.000	x	2.900	SDT20070ZZ	PNY2-11-SC0	
				2	1.500	x	3.200	555		
				O1	3.000	x	3.250			
R2	4	2184	86.000	1	2.000	x	3.500	SDT20044ZZ	F201-23-130B	
				2	2.000	x	3.600	SDT20041ZX		
				O1	4.000	x	3.900	555		
R2	4	2184	86.000	1	2.000	x	3.500	SDT20041ZX	F201-23-130B	
				2	2.000	x	3.600	555		
				O1	4.000	x	3.900	SS999		
R2	4	2184	86.000	1	2.000	x	3.100	SDT20058ZZ		
				2	2.000	x	3.600	SDT20041ZX		
				O1	4.000	x	4.420	555		
R2	4	2184	86.000	1	2.000	x	3.050	SDT20059ZY	R2B6-11-SC0	
				2	2.000	x	3.600	555		
				O1	3.000	x	3.250			
R2D	4	2184	86.000	1	2.000	x	3.150	SDT20084ZZ	R2Y2-11-SC0	
				2	2.000	x	3.600	NEW		
				O1	3.000	x	3.000	555		
RFX	4	2000	86.000	1	2.000	x	3.100	SDT20055ZZ	RF01-23-130	626
				2	2.000	x	3.600	555	RF01-23-130A	
				O1	4.000	x	4.350		RFY0-11-SC0D	
RFX	4	2000	86.000	1	2.000	x	3.100	SDT20068ZZ	RFY0-11-SC0	
				2	2.000	x	3.600	555		
				O1	4.000	x	4.350		1st-KS	
S2	4	2209	88.925	1	2.383	x	3.500	SDT20032ZZ	1456-23-206	B2200
				2	2.383	x	3.500	SDT20032ZX		
				O1	4.763	x	4.300	555		
S2	4	2209	88.925	1	2.383	x	3.450	SDT20032ZX	1456-23-206	B2200
				2	2.383	x	3.500	555		
				O1	4.763	x	4.600	SS999		
SH-VPTS	4	2188	86.000	1	2.000	x	2.750	SDT20091ZZ	SHY1-11-SC0	CX-5
				2	1.500	x	2.700	NEW		
				O1	2.000	x	2.750	555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
SL	4	3500	100.000	1	2.500	x	4.200	SDT20044ZZ	SL01-23-206	
				2	2.000	x	4.200	SDT20044ZX		
				O1	4.500	x	4.300	555		
SL	4	3500	100.000	1	2.500	x	3.650	SDT20044ZX	SL01-23-206	
				2	2.000	x	4.200	555		
				O1	4.500	x	4.600	SS999		
SL	4	3500	100.000	1	2.500	x	3.650	SDT20046ZX	SL07-23-206	
				2	2.000	x	4.200	555		
				O1	4.500	x	4.600	SS999		
SL	4	3500	100.000	1	2.500	x	4.200	SJT20046ZZ	SL07-23-206	
				2	2.000	x	4.200	SDT20046ZX		
				O1	4.500	x	4.200	Mt.555		
SL	4	3455	100.000	1	2.500	x	4.200	SJT20053ZX	SL50-11-SC0	
				2	2.000	x	4.200	SDT20046ZX		
				O1	4.500	x	4.200	Mt.555 All Plt		
TF	4	4000	105.505	1	2.500	x	4.500	SDT20057ZZ	TF01-11-SC0	
				2	2.000	x	4.600	555		
				O1	4.500	x	4.600			
TF70	4	4000	105.505	1	2.500	x	3.900	SDT20069ZZ	TF70-11-SC0	
				2	2.000	x	4.600	555		
				O1	3.000	x	3.250			
TM	4	4553	109.000	1	3.000	x	3.700	SDT20081ZZ	TMY0-11-SC0	
				2	2.000	x	4.600	555		
				O1	3.000	x	3.250			
VS	4	98.000	98.000	1	2.500	x	3.400	SDT20082ZZ	VSY1-11-SC0	
				2	2.000	x	3.900	NEW		
				O1	3.000	x	3.250	555		
W9	4	95.000	95.000	1	2.500	x	3.750	SDT20085ZZ	W9Y1-11-SC0	
				2	2.000	x	3.900	555		
				O1	3.000	x	3.850			
WE	4	2953	96.000	1	2.000	x	3.300	SDT20093ZZ	WEY1-11-SC0	
				2	1.500	x	3.300	NEW		
				O1	2.000	x	2.750	555		
WL	4	2499	93.000	1	2.000	x	3.300	SDT20092ZZ	WLY6-11-SC0	BT-50
				2	1.500	x	3.300	NEW		
				O1	2.000	x	2.750	555		
WLT	4	2499	93.000	1	2.500	x	3.500	SDT20061ZY	WLY1-11-SC0	
				2	2.000	x	3.900	555		
				O1	3.000	x	4.150			
XA	4	2522	88.900	1	2.383	x	3.500	SCT20016ZZ	0559-23-206 0559-23-207 0636-23-206 0636-23-207 0636-23-210	
				2	2.383	x	3.500	500		
				3	2.383	x	3.500			
				O1	4.763	x	3.500			
				O2	4.763	x	3.500			
XA	4	2522	88.900	1	2.383	x	3.500		SDT20032ZZ	1456-23-206
				2	2.383	x	3.500	SDT20032ZX		
				O1	4.763	x	4.300	555		

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XA	4	2209	88.925	1	2.383	x	3.450	SDT20032ZX	1456-23-206	B2200
				2	2.383	x	3.500	555		
				O1	4.763	x	4.600	SS999		
XB	4	2701	92.000	1	2.383	x	3.600	SCT20022ZZ	0527-23-206	
				2	2.383	x	3.600	500		
				3	2.383	x	3.600			
				O1	4.763	x	3.600			
				O2	4.763	x	3.600			
				O2	4.763	x	3.600			
XB	6	4052	92.000	1	2.383	x	3.600	SCT20024ZZ	0784-23-206	
				2	2.383	x	3.600	500		
				3	2.383	x	3.600			
				O1	4.763	x	3.600			
				O2	4.763	x	3.600			
				O2	4.763	x	3.600			
XB	6	4052	92.025	1	2.383	x	3.600	SDT20034ZZ	V101-23-206	
				2	2.383	x	3.600	SDT20034ZX		
				O1	4.763	x	4.300	555 All Plt		
XB	6	4052	92.025	1	2.383	x	3.450	SDT20034ZX	V101-23-206	
				2	2.383	x	3.600	555 SS999		
				O1	4.763	x	4.600			
XC	4		101.055	1	2.383	x	4.000	SDT20029ZZ	1304-23-210X	
				2	2.383	x	4.000	555		
				O1	4.763	x	4.300			
YA	6	3800	88.900	1	2.383	x	3.500	SCT20017ZZ	0727-23-206	
				2	2.383	x	3.500	DISCONTINUED	0727-23-207	
				3	2.383	x	3.500	500	0727-23-210	
				O1	4.763	x	3.500			
				O2	4.763	x	3.500			
				O2	4.763	x	3.500			
ZB	6	4052	92.000	1	2.383	x	3.600	SCT20024ZZ	0784-23-206	
				2	2.383	x	3.600	500		
				3	2.383	x	3.600			
				O1	4.763	x	3.600			
				O2	4.763	x	3.600			
				O2	4.763	x	3.600			
ZB	6	4052	92.025	1	2.383	x	3.600	SDT20034ZZ	V101-23-206	
				2	2.383	x	3.600	SDT20034ZX		
				O1	4.763	x	4.300	555 All Plt		
ZB	6	4052	92.025	1	2.383	x	3.450	SDT20034ZX	V101-23-206	
				2	2.383	x	3.600	555 SS999		
				O1	4.763	x	4.600			
ZC	6	-	101.055	1	2.383	x	4.000	SDT20029ZZ	1304-23-210X	
				2	2.383	x	4.000	555		
				O1	4.763	x	4.300			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
MERCEDES-BENZ GASOLINE ENGINE										
M272.960	6	3498	92.900	1	1.500	x		TBA	276 030 02 24	
				2	1.750	x		NEW #		
				OI	2.500	x		(SWE12606)		

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MERCEDES-BENZ DIESEL ENGINE										
OM642	6	2987	83.000	1	2.000	x		TBA	642 030 02 24	
				2	2.000	x		NEW #		
				O1	2.000	x		(SDE12566)		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
2G10-2	2	359	62.000	1	2.500	x	2.600	SBM30052ZZ	MD205535	
				2	2.500	x	2.800		MT205535	
				O1	2.500	x	2.800	300		
2G21	2	359	62.000	1	1.500	x	2.800	SWM30073ZZ	MD016760	
				2	1.500	x	2.800		MD016765	
				O1	2.500	x	3.200	777		
2G22	2	471	65.000	1	1.500	x	2.900	SWM31131ZZ	MD019470	MINICA
				2	1.500	x	2.750	DISCONTINUED		
				O1	2.500	x	2.700	777		
2G23	2	550	70.000	1	1.500	x	3.100	SWM31009ZZ	MD019610	
				2	1.500	x	3.100			
				O1	2.500	x	2.750	777		
2G24	2	548	76.000	1	1.500	x	3.050	SWM31064ZZ	MD018280	
				2	1.500	x	3.300			
				O1	2.500	x	3.100	777		
2G25	2	660	78.000	1	1.500	x	3.050	SWM31066ZZ	MD011810	
				2	1.500	x	3.300		MD083152	
				O1	2.500	x	2.470	777		
3G82	3	65.000	65.000	1	1.500	x	2.500	SWM31067ZZ		
				2	1.500	x	2.900			
				O1	2.800	x	2.700	777		
3G83	3	65.000	65.000	1	1.200	x	2.250	SWM31144ZZ	MD160199	
				2	1.200	x	2.750			
				O1	2.800	x	2.500	777		
420A	4	1997	87.500	1	1.200	x	3.450	SWM31120ZZ	M04741401	ECLIPSE
				2	1.200	x	4.000			
				O1	3.000	x	2.900	777		
4A31	4	1997	66.000	1	1.000	x	2.250	SWM31136ZZ		PAJERO TOPPO
				2	1.200	x	2.900			
				O1	2.500	x	2.750	777		
4G11	4	1244	69.500	1	1.500	x	3.100	SWM31026ZZ	MD030350	
				2	1.500	x	3.100		MD031670	
				O1	4.000	x	3.200	777		
4G11EC	4	68.200	68.200	1	1.500	x	2.700	SWM31061ZZ	MD030360	
				2	1.500	x	3.100			
				O1	4.000	x	3.150	777		
4G12	4	1410	74.000	1	1.500	x	3.300	SWM31027ZZ	MD012025	
				2	1.500	x	3.300		MD012035	
				O1	4.000	x	3.250	777	MD030355 MD031700	
4G13	4	1298	71.000	1	1.500	x	2.650	SWM31062ZY	MD074687	
				2	1.500	x	3.100		MD078543	
				O1	4.000	x	3.250	777	MD115490	
4G13	4	1298	71.000	1	1.200	x	2.500	SWM31082ZZ	MD158908	
				2	1.500	x	3.100	SWM31082ZX		
				O1	3.000	x	2.800	777		
4G13	4	1298	71.000	1	1.200	x	2.470	SWM31082ZX	MD158908	
				2	1.500	x	3.100			
				O1	3.000	x	2.850	777 SS999		

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4G13	4	1298	71.000	1	1.200	x	2.500	SWM31141ZZ	MD335422	
				2	1.500	x	3.100	777		
				O1	2.800	x	2.550			
4G15	4	1468	75.500	1	1.500	x	2.850	SWM31063ZZ	MD074725 MD078548 MD104656 MD156169	MIRAGE
				2	1.500	x	3.300	777		
				O1	4.000	x	3.250			
4G15	4	1468	75.500	1	1.200	x	2.700	SWM31076ZZ	MD158549	
				2	1.500	x	3.300	777		
				O1	3.000	x	2.800			
4G15	4	1468	75.500	1	1.200	x	2.900	SWM31077ZZ	MD180804	MIRAGE
				2	1.500	x	3.300	SWM31076ZZ		
				O1	3.000	x	2.800	777		
4G15	4	1468	75.500	1	1.200	x	2.700	SWM31126ZZ		MIRAGE
				2	1.200	x	3.300	DISCONTINUED		
				O1	2.800	x	2.500	777		
4G15	4	1468	75.500	1	1.200	x	2.700	SWM31145ZZ	MD332715	MIRAGE
				2	1.500	x	3.300	777		
				O1	2.800	x	2.500			
4G17	4		72.200	1	1.200	x	2.500	SWM31099ZZ	MD165325	
				2	1.500	x	3.100	777		
				O1	3.000	x	2.850			
4G18	4		76.000	1	1.200	x	2.700	SWM31117ZZ	MD349422	
				2	1.500	x	3.100	777		
				O1	2.800	x	2.550			
4G18P	4		76.000	1	1.200	x	2.700	SWM31127ZZ	MD361893	
				2	1.200	x	3.200	777		
				O1	2.500	x	2.550			
4G30	4	1289	73.000	1	2.000	x	3.300	SWM30057ZZ	MD000770	
				2	2.000	x	3.500	777		
				O1	4.000	x	3.300			
4G31	4	1499	74.500	1	2.000	x	3.300	SWM30058ZZ	MD000771 MD002770	
				2	2.000	x	3.300	DISCONTINUED		
				O1	4.000	x	3.300	777		
4G31B	4	1499	74.500	1	1.500	x	2.850	SWM31130ZZ	MD107368	
				2	1.500	x	3.200	NEW		
				O1	4.000	x	3.200	777		
4G32	4	1597	76.900	1	2.000	x	3.500	SWM31005ZZ	MD000725 MD004709 MD004739 MD004770 MD005885 MD007251 MD008105 MD106741	LANCER
				2	2.000	x	3.500	777		
				O1	4.000	x	3.800			
4G32B	4	1597	76.900	1	1.500	x	3.100	SWM31043ZZ	MD012765 MD062387 MD093337 MD099430	LANCER
				2	1.500	x	3.500	777		
				O1	4.000	x	3.900			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
4G33	4	1238	73.000	1	1.500	x	3.300	SWM31016ZZ	MD009625	(Forklift)	
					2	1.500	x	3.300			MD115500
					O1	4.000	x	3.000	777		
4G33	4	1439	73.000	1	1.500	x	2.700	SWM31024ZZ	MD034010	MIRAGE	
					2	1.500	x	3.300			MD115500
					O1	4.000	x	3.200	777		
4G33	4	1439	73.000	1	1.500	x	3.300	SXM31024ZZ	MD034010	MIRAGE	
					2	1.500	x	3.300	SWM31024ZZ		MD115500
					O1	4.000	x	3.200	Mt.777		
4G33	4	1289	73.000	1	2.000	x	3.300	SWM30057ZZ	MD000770	MIRAGE	
					2	2.000	x	3.500			
					O1	4.000	x	3.300	777		
4G36	4	1238	73.000	1	1.500	x	3.300	SWM31016ZZ	MD009625	GALANT	
					2	1.500	x	3.300			MD115500
					O1	4.000	x	3.000	777		
4G36EC	4		71.800	1	1.500	x	3.200	SWM31060ZZ	MD009539		
					2	1.500	x	3.200	DISCONTINUED		
					O1	4.000	x	3.150	777		
4G37	4	1800	80.600	1	1.500	x		SWM31453ZZ	MD154012	E-E12A	
					2	1.500	x		DISCONTINUED		
					O1	4.000	x		777		
4G41	4	1378	76.500	1	2.000	x	3.500	SWM30078ZZ	MD010710		
					2	2.000	x	3.500			MD010715
					O1	4.000	x	3.650	777		MD011893
4G42	4	1187	71.000	1	2.000	x	3.300	SWM31012ZZ	MD010850		
					2	2.000	x	3.300			
					O1	4.000	x	4.000	777		
4G51	4	1850	81.000	1	2.000	x	3.500	SWM31025ZZ	MD023060		
					2	2.000	x	3.700			
					O1	4.000	x	3.250	777		
4G52	4	1995	84.000	1	2.000	x	3.600	SWM30074ZZ	MD021010	(Forklift)	
					2	2.000	x	3.600			MD021035
					O1	4.000	x	3.750	777 All Plt		MD021070
4G53	4	2384	88.000	1	2.000	x	3.800	SWM31021ZZ	MD025000		
					2	2.000	x	4.100			MD026985
					O1	4.000	x	3.300	777 All Plt		
4G54B	4	2555	91.100	1	2.000	x	1.500	SWM31047ZZ	MD025089		
					2	2.000	x	1.500			MD026835
					O1	4.000	x	3.250	777 All Plt		MD026960 MD027140 MD107813 MD107818
4G54T	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	MD061258	GALANT	
					2	1.500	x	3.800			MD076170
					O1	4.000	x	3.250	777		MD101895 MD106752

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
4G61	4	1595	82.300	1	1.200	x	3.100	SWM31049ZZ	MD133495	MIRAGE
				2	1.500	x	3.800			
				O1	3.000	x	2.850	777		
4G62	4	1795	80.600	1	2.000	x	3.500	SWM31040ZZ	MD040610	
				2	2.000	x	3.700			
				O1	4.000	x	3.300	777	MD106736	
4G62	4	1800	80.600	1	1.500	x		SWM31153ZZ	MD154012	E-E12A
				2	1.500	x		DISCONTINUED		
				O1	4.000	x		777		
4G62T	4	1795	80.600	1	1.500	x	3.500	SWM31041ZZ	MD040465	
				2	1.500	x	3.700			
				O1	4.000	x	3.250	777	MD077113	
4G63	4	1997	85.000	1	2.000	x	3.300	SWM31013ZZ	MD040640	
				2	2.000	x	3.700	SWM31013ZY		
				O1	4.000	x	3.250	777	MD040840	
4G63	4	1997	85.000	1	2.000	x	3.100	SWM31013ZY	MD041580	
				2	2.000	x	3.700			
				O1	4.000	x	3.250	777	MD108068	
4G63	4	1997	85.000	1	1.500	x	3.100	SWM31046ZZ	MD105516	
				2	1.500	x	3.800	SWM31034ZZ		
				O1	4.000	x	3.250	777	1st-GN	
4G63	4	1997	85.000	1	1.200	x	3.100	SWM31048ZZ	MD133185	ECLIPSE GALANT
				2	1.500	x	3.800			
				O1	3.000	x	2.850	777	MD140923	
4G63 4G63K	4	1997	85.000	1	1.200	x	3.100	SWM31071ZZ	MD176437	ECLIPSE
				2	1.500	x	3.800			
				O1	3.000	x	2.550	777	MD195860	
4G63	4	1997	85.000	1	1.200	x	3.100	SWM31103ZZ	MD313405	ECLIPSE
				2	1.500	x	3.800			
				O1	2.800	x	2.550	777	MD108068	
4G63	4	1997	85.000	1	1.200	x		NA	MD195805	GALANT
				2	1.500	x				
				O1	2.800	x		777		
4G63	4	1997	85.000	1		x		NA	-	LANCER EVO.
				2		x				
				O1		x		777		
4G64	4	2350	86.500	1	1.500	x	3.300	SWM31045ZZ	MD103580	
				2	1.500	x	3.800	SWM31037ZZ		
				O1	4.000	x	3.050	777	1st-GN	
4G64 4G64K	4	2350	86.500	1	1.200	x	3.100	SWM31072ZZ	MD195872	MIGHTY MAX PICKUP
				2	1.500	x	3.800			
				O1	3.000	x	2.550	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
4G64	4	2350	86.500	1	1.200	x	3.100	SWM31116ZZ	MD195828	ECLIPSE ECLIPSE SPYDER EXPO EXPO LRV GALANT MONTERO SPORT
				2	1.500	x	3.800			
				O1	2.700	x	2.550			
777										
4G64 4G64B	4	2350	86.500	1	1.500	x	3.300	SWM31037ZZ	MD085346	EXPO EXPO LRV PICKUP
				2	1.500	x	3.800	777		
				O1	4.000	x	3.050			
4G67	4	1836	81.500	1	1.200	x	3.100	SWM31058ZZ	MD153602	
				2	1.500	x	3.600	777		
				O1	3.000	x	2.900			
4G69	4	2378	87.000	1	1.200	x	3.100	SWM31161ZZ	1110A966	AIR TRECK LANCER
				2	1.200	x	3.400	NEW 777		
				O1	2.000	x	2.200			
4G72	6	2972	91.100	1	1.200	x	3.300	SWM31078ZZ	MD301798 MD329755	MONTERO MONTERO SPORT
				2	1.200	x	3.800			
				O1	3.000	x	2.900			
777										
4G82	4		65.000	1	1.500	x	2.500	SWM31068ZZ	-	
				2	1.500	x	2.900			
				O1	2.800	x	2.700			
777										
4G91	4	1496	78.400	1	1.200	x	3.100	SWM31150ZZ	MD177113	MIRAGE
				2	1.200	x	3.300			
				O1	2.800	x	2.700			
777										
4G92	4	1597	81.000	1	1.200	x	2.900	SWM31085ZZ SWM31079ZZ	MD173211	
				2	1.200	x	3.600			
				O1	2.800	x	2.800			
777										
4G93	4	1834	81.000	1	1.200	x	3.200	SWM31079ZZ	MD173206	EXPO EXPO LRV MIRAGE
				2	1.200	x	3.600			
				O1	2.800	x	2.700			
777										
4G94-S4	4	1999	81.500	1	1.200	x	2.700	SWM31164ZZ	1110B098 1110B099 1110B100	
				2	1.200	x	3.400			
				O1	2.500	x	2.600			
777										
6A12	6	1998	78.400	1	1.200	x	3.050	SWM31137ZZ	MD302644 MD189104	ELANTRA GALANT DIAMANTE
				2	1.200	x	3.050			
				O1	2.800	x	2.600			
777										
6G71	6	1998	74.700	1	1.500	x	3.250	SWM31133ZZ	MD104889	DEBONAIRE
				2	1.500	x	3.300			
				O1	4.000	x	3.200			
777										
6G72 (S.O.H.C.)	6	2972	91.100	1	1.200	x	3.300	SWM31078ZZ	MD158334 MD165949 MD301716 MD301798 MD329755 MD334192	3000GT DIMANTE GALANT GTO MONTERO PICKUP
				2	1.500	x	3.800			
				O1	3.000	x	2.900			
				777						

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6G72 (D.O.H.C.)	6	2972	91.100	1	1.200	x	3.300	SWM31078ZY	MD158334	3000GT DIMANTE GALANT GTO MONTERO PICKUP
				2	1.500	x	3.800	SWM31078ZZ	MD165949	
				O1	3.000	x	2.850	777	MD301716 MD301798 MD329755 MD334192	
6G72	6	2972	91.100	1	1.500	x	3.500	SWM31069ZZ	MD104939	SIGMA
				2	1.500	x	3.800	SWM31080ZZ		
				O1	4.000	x	3.250			
6G72	6	2972	91.100	1	1.500	x	3.300	SWM31080ZZ	MD101895 MD104922 MD104939 MD129548	GALANT SIGMA MIGHTY MAX MONTERO PICKUP
				2	1.500	x	3.800	777		
				O1	4.000	x	3.250			
6G73	6	2500	83.500	1	1.200	x		SWM31154ZZ	MD310257 MD310258	
				2	1.500	x				
				O1	3.000	x				
6G74	6	3496	93.000	1	1.500	x	3.500	SWM31121ZZ	MD300569 MD322783	DIAMANTE MONTERO MONTERO SPORT
				2	1.500	x	3.900	777		
				O1	3.000	x	2.850			
6G75	6	3828	95.000	1	1.200	x	3.500	SWM31148ZZ	MN183867	ECLIPSE ECLIPSE SPYDER ENDEVOR GALANT MONTERO
				2	1.200	x	3.400	777		
				O1	2.000	x	2.550			
C	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	MD061258 MD076170 MD08059 MD101895 MD106752	
				2	1.500	x	3.800	777		
				O1	4.000	x	2.650			
DZL	4		85.000	1	1.200	x	3.100	SWM31143ZZ	MN149594	
				2	1.200	x	3.500	777		
				O1	2.000	x	2.300			
G12B	4	1410	74.000	1	1.500	x	3.300	SWM31027ZZ	MD031700	
				2	1.500	x	3.300	777		
				O1	4.000	x	3.250			
G15B	4	1468	75.500	1	1.500	x	2.850	SWM31063ZZ	MD156165 MD074725 23040-21210	LANCER MIRAGE PRECIS
				2	1.500	x	3.300	777		
				O1	4.000	x	3.250			
G32B	4	1597	77.000	1	1.500	x	3.100	SWM31043ZZ	MD012765	MIRAGE
				2	1.500	x	3.500	777		
				O1	4.000	x	3.180			
G4DJ	4	1468	75.500	1	1.500	x	2.850	SWM31063ZZ	23040-24200	PRECIS
				2	1.500	x	3.300	777		
				O1	4.000	x	3.250			
G52B	4	1994	84.000	1	2.000	x	3.600	SWM30074ZZ	MD021070	
				2	2.000	x	3.700	777		
				O1	4.000	x	3.750			
G54B	4	2555	91.100	1	1.500	x	1.500	SWM31047ZZ	MD025080 MD026835	MONTERO PICKUP
				2	1.500	x	1.500	777		
				O1	4.000	x	2.650			

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G54B	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	MD061258	MONTERO PICKUP STARION
				2	1.500	x	3.800	777		
				O1	4.000	x	3.250			
G62B	4	1795	80.600	1	2.000	x	3.500	SWM31040ZZ	MD040610	CORDIA TREDIA
				2	2.000	x	3.700	777	MD106736	
				O1	4.000	x	2.650			
G62B	4	1795	80.600	1	1.500	x	3.500	SWM31041ZZ	MD040465	CORDIA TREDIA
				2	1.500	x	3.700	777	MD077113	
				O1	4.000	x	2.650			
G63B	4	1997	85.000	1	2.000	x	3.300	SWM31043ZZ	MD040640	CORDIA PICKUP TREDIA
				2	2.000	x	3.700	SWM31013ZY	MD040840	
				O1	4.000	x	3.250	777	MD041580	
G63B	4	1997	85.000	1	1.500	x	3.100	SWM31034ZZ	MD088941	
				2	1.500	x	3.800	777		
				O1	4.000	x	3.200	1st-SPRYD		
G63B G63BT G63BTC	4	1997	85.000	1	1.500	x	3.500	SWM31044ZZ	MD100467	GALANT MIGHTY MAX PICKUP
				2	1.500	x	3.800	SWM31034ZZ	777	
				O1	4.000	x	3.300			
G64B	4	2350	86.500	1	1.500	x	3.500	SWM31037ZZ	MD085346	GALANT VAN
				2	1.500	x	3.800	777		
				O1	4.000	x	3.300	2nd-ESTUC		
ME21 ME24	2	359	62.000	1	2.500	x	2.800	SMM30045ZZ	MD018908	
				2	2.500	x	2.400	DISCONTINUED		
				O1	2.500	x	2.800	300X		
U	4	2555	91.100	1	1.500	x	3.500	SWM31039ZZ	MD061258	
				2	1.500	x	3.800		MD076170	
				O1	4.000	x	3.250	777	MD101895	
					MD106752					

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
4D30	4	3298	100.000	1	3.000	x	4.000	SDM34014ZZ	ME012010	CANTER
								SDM31014ZX	ME012070	
								555 All Plt		
4D30	4	3298	100.000	1	3.000	x	3.650	SDM31014ZX	ME012010	CANTER
									ME012070	
								555 SS999		
4D31T	4	3298	100.000	1	3.000	x	4.000	SDM34081ZZ	ME997398	CANTER
								SDM31081ZX		
								555		
4D31T	4	3298	100.000	1	3.000	x	3.650	SDM31081ZX	ME997398	CANTER
								555		
								SS999		
4D32	4	3567	104.000	1	3.000	x	4.100	SJM34098ZZ	ME997318	
								SDM31098ZX		
								Mt.555 1st-HKS		
4D32	4	3567	104.000	1	3.000	x	3.650	SDM31098ZX	ME997318	
								555		
								1st-HKS SS999		
4D33	4	4214	108.000	1	3.000	x	4.300	SDM34097ZZ	ME996378	
								SDM31097ZX	ME999871	
								555		
4D33	4	4214	108.000	1	3.000	x	4.050	SDM31097ZX	ME996378	
									ME999871	
								555		
4D34T	4	3907	104.000	1	3.000	x	4.200	SDM31157ZZ	ME997237	
								NEW		
								555		
4D34T	4	3907	104.000	1	2.806	x	4.100	SDM34075ZZ	ME997240	
								SDM31075ZX		
								555 1st-KS		
4D34T	4	3907	104.000	1	2.806	x	3.850	SDM31075ZX	ME997240	
								555		
								1st-KS		
4D35	4	4561	110.000	1	3.000	x	4.050	SDM31118ZZ	ME996628	
								555		
4D35	4	4561	110.000	1	3.000	x	3.850	SDM31152ZZ	ME995214	
								NEW		
								555		
4D55	4	2346	91.100	1	2.500	x	3.700	SDM34055ZZ	MD050395	PAJERO
								SDM31055ZX		
								555		

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4D55	4	2346	91.100	1	2.500	x	3.450	SDM31055ZX	MD050395	PAJERO
				2	2.000	x	3.800	555		
				O1	4.000	x	4.150	SS999		
4D55 4D55T 4D56	4	2346	91.100	1	2.500	x	3.700	SDM31038ZZ	MD050390	PAJERO
				2	2.000	x	3.900	SDM31038ZX		
				O1	4.000	x	3.800	555 1st-HKS 2nd-HKS		
4D55 4D55T 4D56	4	2346	91.100	1	2.500	x	3.250	SDM31038ZX	MD050390	PAJERO
				2	2.000	x	3.900	555		
	4	2476	O1	4.000	x	3.900	1st-HKS 2nd-HKS SS999	MD103391	PICKUP	
4D56T	4	2476	82.700	1	2.500	x	3.000	SDM31160ZZ	1110B977V	
				2	2.000	x	3.500	NEW		
				O1	3.000	x	3.100	555		
4D65	4	1795	80.600	1	2.000	x	3.500	SDM31090ZZ	MD071206	
				2	2.000	x	3.700	SDM31090ZX		
				O1	4.000	x	4.150	555 1st-HKS		
4D65	4	1795	80.600	1	2.000	x	3.050	SDM31090ZX	MD071206	
				2	2.000	x	3.700	555		
				O1	4.000	x	4.350	1st-HKS SS999		
4D68NA	4	1998	82.700	1	2.000	x	3.250	SDM31104ZZ	MD197162	
				2	2.000	x	3.500			
				O1	3.000	x	3.250	555		
4D68T	4	1998	82.700	1	2.000	x	3.100	SDM31151ZZ	MD197187	
				2	2.000	x	3.500	NEW		
				O1	3.000	x	3.250	555		
4DQ1	4	1986	82.000	1	2.000	x	3.600	SJM30004ZZ	30617-01014	
				2	2.000	x	3.600	DISCONTINUED		
				3	2.000	x	3.600	Mt.555		
				O1	4.000	x	3.800			
4DQ5	4	2084	84.000	1	2.500	x	3.600	SDM31010ZZ	30615-51011	(Forklift)
				2	2.000	x	3.600		30617-51011	
				O1	4.000	x	4.200	555		
4DQ5	4	2084	84.000	1	2.500	x	3.600	SJM30105ZZ	30617-61011	
				2	2.000	x	3.600			
				O1	4.000	x	3.300	555		
4DR1	4	2384	88.000	1	2.500	x	3.600	SJM30048ZZ	30317-11011	
				2	2.000	x	3.800	DISCONTINUED	31317-11011	
				3	2.000	x	2.800			
				O1	4.000	x	4.000	Mt.555		
4DR5	4	2659	92.000	1	2.500	x	3.700	SDM30075ZZ	31617-02012	
				2	2.000	x	3.900	SDM30075ZX	31617-02013	
				3	2.000	x	3.900	555	31617-05102	
				O1	4.500	x	4.000		31617-05103	

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4DR5	4	2659	92.000	1	2.500	x	3.450	SDM30075ZX	31617-02012	
					2.000	x	3.900		31617-02013	
					2.000	x	3.900		31617-05102	
					4.500	x	4.300	555 SS999	31617-05103	
4DR52T1	4	2659	92.000	1	2.350	x	3.450	SDM31129ZZ	ME996069	
					2.000	x	3.450			
					4.000	x	4.350	555		
4DR7	4	95.000	95.000	1	2.350	x	3.700	SDM31095ZZ	ME997256	
					2.000	x	3.900	SDM31095ZX		
					4.000	x	4.350	555		
4DR7 (4M40NA)	4	95.000	95.000	1	2.350	x	3.450	SDM31095ZX	ME997256	
					2.000	x	3.900			
					4.000	x	4.150	555 SS999		
4M40	4	2835	95.000	1	2.306	x	3.450	SDM31114ZZ	ME201522	
					2.000	x	3.900		ME202380	
					4.000	x	4.350	555		
4M40	4	2835	95.000	1	2.306	x	3.500	SDM31444ZY	ME201522	
					2.000	x	3.900	SDM31114ZZ	ME202380	
					4.000	x	4.350	555		
4M40-TC	4	2835	95.000	1	2.306	x	3.450	SDM31140ZZ	ME202148	
					2.000	x	4.100	NEW		
					3.000	x	3.250	555		
4M41-T1	4	3200	98.500	1	2.350	x	3.400	SDM31149ZZ	ME203533	
					1.500	x	3.500	NEW		
					3.000	x	3.250	555		
4M51	4	5200	118.000	1	3.000	x	4.100	SDM31156ZZ	ME995591	
					2.000	x	4.100	NEW	ME995592	
					4.000	x	4.350	555	ME995593	
6D10	6	5974	105.000	1	3.000	x	4.200	SDM31006ZZ	ME032190	
					2.000	x	4.400		ME032190-01	
					5.000	x	4.800	555 All Plt	ME032326	
6D11	6	9754	105.000	1	3.000	x	4.200	SDM31006ZZ	ME032190	
					2.000	x	4.400		ME032190-01	
					5.000	x	4.800	555 All Plt	ME032326	
6D14	6	6557	110.000	1	3.000	x	4.300	SDM31007ZZ	ME032071	
					2.500	x	4.400	SDM31007ZX	ME032260	
					5.000	x	5.000	555 All Plt	ME032404 ME032458	
6D14	6	6557	110.000	1	3.000	x	4.050	SDM31007ZX	ME032071	
					2.500	x	4.400		ME032260	
					5.000	x	4.950	555 SS999	ME032404 ME032458	
6D14	6	6557	110.000	1	3.000	x	4.300	SDM31089ZZ	ME999952	
					2.500	x	4.400	SDM31089ZX		
					4.000	x	4.150	555		

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6D14	6	6557	110.000	1	3.000	x	4.050	SDM31089ZX	ME999952		
					2	2.500	x	4.400			555
					O1	4.000	x	4.350			SS999
6D14	6	6557	110.000	1	3.000	x	4.300	SDM31401ZZ			
					2	2.500	x	4.400			DISCONTINUED
					O1	4.000	x	4.900			555
6D14T	6	6557	110.000	1	2.806	x	4.050	SDM31122ZZ	ME997465		
					2	2.500	x	4.000			555
					O1	4.000	x	4.350			
6D15	6	6919	113.000	1	3.000	x	4.300	SDM31073ZZ	ME032403		
					2	2.500	x	4.400			SDM31073ZX
					O1	5.000	x	4.700			555 1st-HKS
6D15	6	6919	113.000	1	3.000	x	4.050	SDM31073ZX	ME032403		
					2	2.500	x	4.400			555
					O1	5.000	x	4.950			1st-HKS SS999
6D15T	6	6919	113.000	1	2.806	x	4.050	SDM31119ZZ	ME997466		
					2	2.500	x	4.400			555
					O1	4.000	x	4.350			ME999929 ME999954
6D16	6	7545	118.000	1	3.000	x	4.600	SDM31036ZZ	ME999540		
					2	2.500	x	4.600			DISCONTINUED
					O1	4.000	x	4.200			555
6D16	6	7545	118.000	1	3.000	x	4.250	SDM31036ZX	ME999540		
					2	2.500	x	4.600			SDM31051ZX
					O1	4.000	x	4.400			555
6D16	6	7545	118.000	1	3.000	x	4.600	SDM31051ZZ	ME999955		
					2	2.500	x	4.600			SDM31051ZX
					O1	4.000	x	4.800			555
6D16	6	7545	118.000	1	3.000	x	4.250	SDM31051ZX	ME999955		
					2	2.500	x	4.600			555
					O1	4.000	x	4.400			
6D16	6	7545	118.000	1	3.000	x	4.600	SDM31092ZZ	ME996229		
					2	2.500	x	4.600			555
					O1	4.000	x	4.150			
6D16T	6	7545	118.000	1	2.800	x	4.150	SDM31084ZZ	ME997999		
					2	2.500	x	4.600			SDM31054ZX
					O1	4.000	x	4.800			555 1st-KS
6D16T	6	7545	118.000	1	2.800	x	4.600	SDM31035ZZ	ME9995459		
					2	2.500	x	4.600			SDM31054ZX
					O1	4.000	x	4.200			555 1st-KS
6D16T	6	7545	118.000	1	2.806	x	4.600	SDM31054ZZ	ME997647		
					2	2.500	x	4.600			SDM31054ZX
					O1	4.000	x	4.800			555 1st-KS

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
MITSUBISHI DIESEL ENGINE										
6D16T	6	7545	118.000	1 2 O1	2.806 2.500 4.000	x	4.050 4.600 4.400	SDM31054ZX 555 1st-HKS SS999	ME997647	
6D16TL	6	7545	118.000	1 2 O1	2.806 2.500 4.000	x	4.150 4.600 4.150	SDM31413ZY DISCONTINUED 555	ME995535 ME995536	
6D16TL	6	7545	118.000	1 2 O1	2.806 2.500 4.000	x	4.150 4.600 4.800	SDM31125ZZ NEW 555	ME993728 ME993729	
6D20	6	10308	125.000	1 2 O1	4.000 3.000 6.000	x	5.000 5.300 5.500	SDM31011ZZ 555 1st-HKS All Plt	30917-0210 30917-01012	
6D20	6	10308	125.000	1 2 O1	3.300 3.000 6.000	x	5.400 5.300 5.800	SDM31023ZY 555 1st-HKS All Plt	ME052145	
6D20	6	10308	125.000	1 2 O1	3.000 3.000 6.000	x	5.200 5.300 5.500	SDM31030ZZ 555 All Plt	ME052260	
6D22	6	11149	130.000	1 2 O1	3.000 3.000 6.000	x	5.200 5.300 5.500	SJM31019ZZ Mt.555	ME052758	
6D22	6	11149	130.000	1 2 O1	3.000 3.000 4.000	x	5.200 5.300 4.770	SJM31057ZZ Mt.555	ME052966 ME999136	
6D22	6	11149	130.000	1 2 O1	3.000 3.000 4.000	x	4.550 5.300 4.770	SJM31409ZZ DISCONTINUED Mt.555	ME995473 ME995465	
6D22	6	11149	130.000	1 2 O1	3.306 3.000 6.000	x	4.550 5.300 5.500	SJM31110ZZ Mt.555	ME995477 ME995466	
6D22	6	11149	130.000	1 2 O1	3.306 3.000 6.000	x	5.400 5.300 5.500	SJM31412ZZ DISCONTINUED Mt.555	ME995469 ME995468	
6D22 6D22T	6	11149	130.000	1 2 O1	3.306 3.000 6.000	x	4.550 5.300 5.500	SDM31015ZX 555 1st-KS All Plt	30917-20010 ME052124 ME052787	
6D22 6D22T	6	11149	130.000	1 2 O1	3.306 3.000 4.000	x	4.550 5.300 4.450	SJM31111ZZ Mt.555	ME052889 ME995467	

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mitsubishi diesel engine										
6D22T		11149	130.000	1	3.306	x	5.400	SJM31050ZZ	ME052889	
				2	3.000	x	5.300	DISCONTINUED		
				O1	4.000	x	4.800	555 1st-KS		
6D22T2		11149	130.000	1	3.306	x	4.550	SJM31093ZZ	ME350961 ME993736 ME996142 ME996540 ME996544	
				2	3.000	x	5.300	DISCONTINUED		
				O1	4.000	x	4.770	Mt.555		
6D24	6	11945	130.000	1	3.306	x	4.550	SJM31094ZZ	ME151190	
				2	3.000	x	5.300	555		
				O1	4.000	x	4.150			
6D24	6	11945	130.000	1	3.000	x	4.550	SJM31096ZZ	ME996391	
				2	3.000	x	5.300	DISCONTINUED		
				O1	4.000	x	4.150	Mt.555		
6D24CNG	6	11945	130.000	1	2.500	x	4.550	SJM31124ZY	ME993734	
				2	2.500	x	5.300	DISCONTINUED		
				O1	4.000	x	4.350	Mt.555		
6D24T	6	11945	130.000	1	3.306	x	4.500	SDM31105ZY	ME995636	
				2	2.500	x	4.700	555		
				O1	4.000	x	4.350			
6D31	6	4948	100.000	1	3.000	x	4.000	SDM31102ZZ		
				2	2.000	x	4.200	Mt.555		
				O1	5.000	x	4.800			
6D31T	6	4948	100.000	1	3.000	x	4.000	SDM31088ZZ	ME997458 ME999783	
				2	2.000	x	4.200	SDM31088ZX		
				O1	4.000	x	4.150	555		
6D31T	6	4948	100.000	1	3.000	x	3.650	SDM31088ZX	ME997458 ME999783	
				2	2.000	x	4.200	555 SS999		
				O1	4.000	x	4.350			
6D40	6	12023	135.000	1	3.306	x	4.750	SDM31091ZZ	ME121332 ME996132	
				2	3.000	x	5.400	DISCONTINUED		
				O1	4.000	x	4.770	555		
6D40T	6	12023	135.000	1	3.306	x	5.400	SDM31056ZZ	ME120536	
				2	3.000	x	5.400	SDM31056ZX		
				O1	4.000	x	4.770	555		
6D40T	6	12023	135.000	1	3.306	x	4.750	SDM31056ZX	ME120536	
				2	3.000	x	5.400	555 SS999		
				O1	4.000	x	4.350			
6D55	6	4978	98.000	1	3.000	x	4.200	SJM30056ZZ	30817-31000 ME020427 ME021382 ME021856	
				2	2.000	x	4.200	Mt.555		
				3	2.000	x	4.200			
				O1	5.000	x	4.800			
6DB	6	8550	110.000	1	3.500	x	4.300	SJM30005ZZ	30017-71002 30017-71003 30017-75002 30017-75003	
				2	2.500	x	4.700	Mt.555		
				3	2.500	x	4.700			
				O1	5.000	x	4.700			

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mitsubishi DIESEL ENGINE												
6DC2	6	9955	130.000	1	4.000	x	4.000	SDM30007ZZ	31117-00009			
				2	3.000	x	5.300				555	31117-02010
				O1	6.000	x	5.500					All Plt
6DR5	6	3983	92.000	1	2.500	x	3.700	SDM30076ZZ	31717-12012	(Forklift)		
				2	2.000	x	3.900	SDM30076ZX	31717-12013			
				3	2.000	x	3.900				555	
				O1	4.500	x	4.300					
6DR5	6	3983	92.000	1	2.500	x	3.450	SDM30076ZX	31717-12012	(Forklift)		
				2	2.000	x	3.900	555	31717-12013			
				3	2.000	x	3.900					
				O1	4.500	x	4.600	SS999				
6DS1	6	4678	95.000	1	2.500	x	4.100	SJM30002ZZ	30817-01006			
				2	2.000	x	4.100	Mt.555	ME020382			
				3	2.000	x	4.100		ME021376			
				O1	4.500	x	4.200					
6DS3	6	5103	95.000	1	3.000	x	3.900	SDM31001ZZ	ME021855			
				2	2.000	x	4.100	555	ME023327			
				O1	4.500	x	4.200		All Plt		ME023327-02	
6DS7	6	5430	98.000	1	3.000	x	4.000	SDM31002ZZ	ME023333			
				2	2.000	x	4.200	555	ME021861			
				O1	5.000	x	4.800		All Plt		ME024409	
											ME023333-02	
6M60T	6	7545	118.000	1	2.806	x	4.150	SDM31407ZZ	ME995562			
				2	2.500	x	4.600	DISCONTINUED	ME995561			
				O1	4.000	x	4.350				555	
								SS999				
6M61	6	8201	118.000	1	3.000	x	4.100	SDM31106ZZ	ME995562			
				2	2.000	x	4.300	555	ME995568			
				O1	4.000	x	4.350		SS999			
6M61CNG	6	8201	118.000	1	2.500	x	3.900	SDM31123ZY	ME993687			
				2	2.000	x	4.300	555	ME993688			
				O1	4.000	x	4.350					
6M70	6		135.000	1	3.306	x	4.750	SDM31115ZZ	ME995857			
				2	2.500	x	4.700	555	ME995855			
				O1	4.000	x	4.350		SS999			
6SB1	1	12880	135.000	1	4.000	x	5.000	SDM30406ZZ	36217-17010			
				2	3.000	x	5.500	YDM30106AA	36217-11010			
				O1	6.000	x	5.500				555	
								1Cyl Set				
8DB	8	11404	110.000	1	3.500	x	4.300	SJM30006ZZ	30017-11000			
				2	2.500	x	4.700	Mt.555				
				3	2.500	x	4.700					
				O1	5.000	x	4.700					

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MITSUBISHI DIESEL ENGINE										
8DC2	8	13273	130.000	1 2 O1	4.000 3.000 6.000	x x x	5.000 5.300 5.500	SDM30008ZY 555 1st-HKS All Plt	31217-02010 ME062109	
8DC2	8	13273	130.000	1 2 O1	3.300 3.000 6.000	x x x	5.400 5.300 5.500	SDM31020ZX 555 1st-KS All Plt	ME062298	
8DC4	8	13273	130.000	1 2 O1	4.000 3.000 6.000	x x x	5.000 5.300 5.500	SDM30008ZY 555 1st-HKS All Plt	31217-02010 ME062109	
8DC4	8	13273	130.000	1 2 O1	3.300 3.000 6.000	x x x	5.400 5.300 5.500	SDM31020ZX 555 1st-KS All Plt	ME062298	
8DC6	8	14886	135.000	1 2 O1	4.000 3.000 6.000	x x x	5.000 5.700 5.500	SDM31004ZZ 555 1st-HKS All Plt	31217-60012 ME062086	
8DC6	8	14886	135.000	1 2 O1	3.300 3.000 6.000	x x x	5.400 5.500 5.500	SDM31028ZZ 555 1st-KS All Plt	ME062022 ME062246	
8DC7	8	13273	130.000	1 2 O1	4.000 3.000 6.000	x x x	5.000 5.300 5.500	SDM30008ZY 555 1st-HKS All Plt	31217-02010 ME062109	
8DC7	8	13273	130.000	1 2 O1	3.300 3.000 6.000	x x x	5.400 5.300 5.500	SDM31020ZX 555 1st-KS All Plt	ME062298	
8DC8	8	14886	135.000	1 2 O1	4.000 3.000 6.000	x x x	5.000 5.700 5.500	SDM31004ZZ 555 1st-HKS All Plt	31217-60012 ME062086	
8DC8I	8	14886	135.000	1 2 O1	3.300 3.000 6.000	x x x	5.400 5.500 5.500	SDM31028ZZ 555 1st-KS All Plt	ME062022 ME062246	

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MITSUBISHI DIESEL ENGINE										
8DC9I 8DC9T	8	16031	135.000	1 2 3 O1	3.306 3.000 3.000 6.000	x x x x	5.400 5.500 5.500 5.500	SDM31029ZZ DISCONTINUED 1st-KS All Plt SS999	ME062018 ME062230	
8DC9I 8DC9T	8	16031	135.000	1 2 3 O1	3.306 3.000 3.000 6.000	x x x x	4.750 5.500 5.500 5.500	SDM31029ZX 555 1st-KS All Plt	ME062018 ME062230	
8DC9T	8	16031	135.000	1 2 3 O1	3.306 3.000 3.000 4.000	x x x x	5.400 5.500 5.500 4.770	SDM31087ZY 555	ME090758	
8DC9T	8	16031	135.000	1 2 3 O1	3.306 3.000 3.000 4.000	x x x x	4.750 5.500 5.500 4.350	SDM31087ZX SDM31087ZY 555 SS999	ME090758	
8DC10	8	16752	138.000	1 2 3 O1	3.306 3.000 3.000 6.000	x x x x	5.500 5.500 5.500 5.500	SDM31134ZZ 555	ME065717	
8DC10	8	16752	138.000	1 2 3 O1	3.306 3.000 3.000 4.000	x x x x	5.500 5.500 5.500 4.300	SDM31139ZZ 555	ME090582	
8DC11	8	17737	135.000	1 2 3 O1	3.306 3.000 3.000 4.000	x x x x	5.600 5.700 5.700 4.150	SDM31128ZZ 555	ME090586 30617-50111	
8M20	8	20089	146.000	1 2 3 O1	3.306 3.000 3.000 4.000	x x x x	5.600 5.700 5.700 4.650	SDM31138ZZ 500		THE GREAT AERE QUEEN
D400	1		68.000	1 2 3 O1	2.000 1.500 1.500 3.500	x x x x	2.800 3.000 3.000 3.100	SCM31042ZZ DISCONTINUED 500	MM332614	
D2700	1		118.000	1 2 O1	3.000 2.500 4.000	x x x	4.600 4.600 4.800	SDM30414ZZ DISCONTINUED 555	MM33403801	
D2700	1		118.000	1 2 O1	3.000 2.500 4.000	x x x	4.600 4.600 4.200	YDM31033ZZ 555	MM334038 MM332391	
K4E	1	1415	76.000	1 2 O1	2.490 2.000 4.000	x x x	3.300 3.300 3.600	YDM30112ZZ 555	MM431579	
S4E	4	2610	94.000	1 2 O1	2.500 2.000 4.500	x x x	3.800 3.800 4.350	SJM30410ZZ DISCONTINUED Mt.555	34417-11011 32A14-00100	(Forklift)

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MITSUBISHI DIESEL ENGINE										
S4E S4S	4	2609	94.000	1	2.500	x	4.000	SDM30110ZZ	34417-11011 32A14-00100	(Forklift)
				2 O1	2.000 4.500	x x	4.000 4.450	555		
S6A	1	15860	145.000	1	4.400	x	5.900	YJM30107ZZ	32517-11010	
				2 O1	2.920 6.000	x x	5.900 5.300	555 1st-KS 2nd-KS All Plt 1Cyl Set		
S6A2	1	18560	150.000	1	4.400	x	6.000	YJM30109ZZ	32517-17010	
				2 O1	2.920 6.000	x x	6.000 5.300	Mt.555 1Cyl Set		
S6E	6			1 2 O1		x x x		NA	-	(Forklift)
S6E2	6			1 2 O1		x x x		NA	-	(Forklift)
S6KT	6	6380	102.000	1	3.000	x	4.000	SDM30108ZZ	34317-19010	
				2 O1	2.000 4.000	x x	4.000 4.250	SDM30108ZX 555		
S6KT	6	6380	102.000	1	3.000	x	4.050	SDM30108ZX	34317-19010	
				2 O1	2.000 4.000	x x	4.000 4.150	555 SS999		
S12A	1	18560	150.000	1	4.400	x	6.000	YJM30109ZZ	32517-17010	
				2 O1	2.920 6.000	x x	6.000 5.300	Mt.555 1Cyl Set		

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A10	4	988	73.000	1	2.000	x	3.000	SWN30026ZZ	12033-A6200	1200
A12				2	2.000	x	3.000	777	12033-B3040	SUNNY
				O1	4.000	x	3.000		12033-H6200	
A12	4	1189	73.000	1	2.000	x	2.800	SWN30080ZZ	12033-H6211	
				2	2.000	x	2.900	SWN30026ZZ		
				O1	4.000	x	3.050	777		
A12A	4	1237	75.000	1	2.000	x	3.200	SWN30073ZZ	12033-H8500	210
				2	2.000	x	3.200	777		SUNNY
				O1	4.000	x	3.000			
A13	4	1288	73.000	1	2.000	x	3.000	SWN30026ZZ	12033-H6200	B210
				2	2.000	x	3.000	777		SUNNY
				O1	4.000	x	3.000			
A14	4	1397	76.000	1	2.000	x	3.200	SWN30045ZZ	12033-H7200	210
				2	2.000	x	3.400	SWN30045ZX	12033-H8660	310
				O1	4.000	x	3.400	777	12033-H8900	B210
									12033-H8920	SUNNY
									12033-H9910	
A14	4	1397	76.000	1	2.000	x	2.850	SWN30045ZX	12033-H7200	210
				2	2.000	x	3.400	777	12033-H8660	310
				O1	4.000	x	3.300	SS999	12033-H8900	B210
									12033-H8920	SUNNY
									12033-H9910	
A14	4	1397	76.000	1	1.200	x	3.100	SWN30052ZZ	12033-H7680	210
				2	2.000	x	3.400	777	12033-H9800	310
A15	4	1487		O1	4.000	x	3.250		12033-H9810	B210
		1488							12033-H9820	SUNNY
									12033-H9915	(Forklift)
									12033-H9918	
C	4	1299	73.000	1	2.000	x	3.000	SWN30026ZZ	12033-A6200	
				2	2.000	x	3.000	777	12033-B3040	
				O1	4.000	x	3.000		12033-H6200	
CA16	4	1598	77.950	1	1.500	x	2.900	SWN30111ZZ	12033-55M00	PULSER
CA16DE				2	1.500	x	3.400	777		
				O1	2.800	x	2.400			
CA16	4	1598	80.000	1	1.750	x	3.300	SDN30088ZZ		PULSER
CA16DE				2	2.000	x	3.300	SDN30088ZX		STANZA
				O1	3.000	x	3.800	555		
CA16S	4	1598	77.950	1	1.500	x	2.900	SWN30055ZY	12033-06E00	STANZA
				2	1.500	x	3.400	777	12033-D0120	
				O1	4.000	x	3.000	All Plt	12033-D0400	
CA18DE	4	1809	83.000	1	1.500	x	2.900	SWN30090ZZ	12033-D4210	PULSER
CA18DET				2	1.500	x	3.600	777		
				O1	2.800	x	2.800	All Plt		

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CA18E CA18S	4	1809	83.000	1 2 O1	1.500 1.500 4.000	x x x	2.900 3.600 3.050	SWN30056ZZ 777 All Plt	12033-01E00 12033-01E10 12033-01F00 12033-D0210 12033-D0500	
CA18ET	4	1809	83.000	1 2 O1	1.500 1.500 2.800	x x x	2.900 3.600 3.000	SWN30077ZZ SWN30090ZZ 777 All Plt	12033-17F00 12033-18F00 12033-18F10	200SX
CA18P	4	1809	83.000	1 2 O1	2.000 1.500 2.800	x x x	2.900 3.600 3.000	SWN30083ZZ 777	12033-49200	
CA20	4	1973	84.500	1 2 O1	1.500 1.500 4.000	x x x	3.450 3.900 3.200	SWN30063ZZ SWN30053ZZ 777	12033-D2000 12033-D1700	
CA20A	4	1973 1974	84.500	1 2 O1	1.500 1.500 4.000	x x x	3.100 3.700 3.050	SWN30053ZZ 777	12033-04E00 12033-04E10 12033-D1700 12033-D2000	200SX STANZA
CA20E	4	1973	84.500	1 2 O1	1.500 1.500 2.800	x x x	3.150 3.700 2.800	SWN30121ZZ 777	12033-61E10	STANZA
CA20P	4	1973	84.500	1 2 O1	2.000 1.500 2.800	x x x	2.900 3.700 3.000	SWN30075ZZ 777 All Plt	12033-V5600	
CA20S	4	1974	84.500	1 2 O1	1.500 1.500 4.000	x x x	3.150 3.700 2.800	SWN30053ZZ 777	12033-04E10	
CG	4	1000 1300	71.000	1 2 O1	1.200 1.500 3.000	x x x	2.500 3.100 2.850	SWN30110ZZ 777	12033-41B01	
CG	4	1000 1300	71.200	1 2 O1	1.200 1.500 3.000	x x x	2.500 3.100 2.850	SWN30112ZZ 777	12035-41B01	OVER SIZE
CG13	4		72.000	1 2 O1	1.200 1.200 2.500	x x x	2.650 3.100 2.550	SWN30128ZZ 777	12033-2U800	
CG13	4		72.200	1 2 O1	1.200 1.200 2.500	x x x	2.650 3.100 2.550	SWN30129ZZ DISCONTINUED 777	12035-AN201 12035-AN202	OVER SIZE
D11 E	4 4	1189 1299	73.000	1 2 O1	2.000 2.000 4.000	x x x	3.000 3.000 3.000	SWN30026ZZ 777	12033-A6200 12033-B3040 12033-H6200	(Forklift)
E10	4	1000	73.000	1 2 O1	1.500 1.500 4.000	x x x	3.000 3.000 3.000	SWN30095ZZ 777 2nd ESTUC	12033-41M01 12033-41M02	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
NISSAN GASOLINE ENGINE										
E13	4	1270	76.000	1	1.500	x	2.700	SWN30057ZY	12033-01M01	310 PULSER SENTRA
E15		1487		2	1.500	x	3.400	777	12033-01M02	
E15ET		1488		O1	4.000	x	3.050		12033-01M10	
E15S									12033-01M12	
E15T									12033-17M00	
E16									12033-17M10	
E16i									12033-50A00	
E16S									12033-61A01	
E15	4	1487	76.000	1	1.500	x	3.200		SWN30060ZZ	
E16				2	1.500	x	3.400		DISCONTINUED	12033-01M02
				O1	4.000	x	3.250	Mt.777	12033-17M00	
E16E	4	1597	76.000	1	1.500	x	2.700	SWN30414ZZ	12033-79Y00	
				2	1.500	x	3.200	DISCONTINUED		
				O1	4.000	x	3.100	777		
E16i	4	1597	76.000	1	1.500	x	3.100	SWN30058ZZ	12033-21V01	
				2	1.500	x	3.800	777		
				O1	4.000	x	2.500			
EJ1KK	4		71.000	1	1.200	x	2.450		SWN30135ZZ	12033-AX100
EJ4KK				2	1.200	x	2.700	777		
				O1	2.000	x	2.200			
EJ1KK	4		71.200	1	1.200	x	2.450		SWN30136ZZ	12033-AX100
EJ4KK				2	1.200	x	2.700	777		
				O1	2.000	x	2.200			
EJ5KK	4		73.000	1	1.200	x	2.250		SWN30137ZZ	12033-AX201
				2	1.200	x	2.800	777		
				O1	2.000	x	2.200			
EJ5KK	4		73.200	1	1.200	x	2.250		SWN30138ZZ	12033-AX201
				2	1.200	x	2.800	777		
				O1	2.000	x	2.200			
ET	6	1998	77.950	1	1.500	x	2.900		SWN30092ZY	12033-12P00
				2	1.500	x	3.400	777		
				O1	2.800	x	3.000		All Plt	
FT3	4		66.000	1	1.500	x	2.500		SWN30400ZZ	12033-21B00
				2	1.500	x	2.900	DISCONTINUED		
				O1	2.800	x	2.800	777		
FT3	4		66.200	1	1.500	x	2.500	SWN30404ZZ	12033-21B00	
				2	1.500	x	2.900	DISCONTINUED		
				O1	2.800	x	2.800	777		
G1	4	1990	89.000	1	2.000	x	4.300	SXN30028ZZ	12033-E6800	
				2	2.000	x	4.300	Mt.777		
				O1	4.000	x	3.200			
G4	4	1770	85.000	1	2.000	x	4.200		SWN30020ZZ	12033-78520
				2	2.000	x	4.200	SWN30020ZX	12033-78521	
				O1	4.000	x	3.300	Mt.777	12033-A8701	
									12033-A8702	
									12033-A8702	

OVER SIZE

OVER SIZE

OVER SIZE

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
NISSAN GASOLINE ENGINE										
G4	4	1770	85.000	1 2 O1	2.000 2.000 4.000	x x x	3.050 4.200 3.300	SWN30020ZX 777 SS999	12033-78520 12033-78521 12033-A8701 12033-A8702 12033-A8702	
G8 G8B	6	1989	82.000	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.100 3.750	SWN30032ZZ DISCONTINUED Mt.777	12033-A0201 A2033-A0201	
G15	4	1583	82.000	1 2 O1	2.000 2.000 4.000	x x x	4.000 4.100 3.600	SWN30034ZZ DISCONTINUED Mt.500	12033-18500	
G16	4	1593	85.000	1 2 O1	2.000 2.000 4.000	x x x	4.200 4.200 3.300	SWN30020ZZ SWN30020ZX Mt.777	12033-78520 12033-78521 12033-A8701 12033-A8702 12033-A8702	
G18	4	1815								
G16	4	1593	85.000	1 2 O1	2.000 2.000 4.000	x x x	3.050 4.200 3.300	SWN30020ZX 777 SS999	12033-78520 12033-78521 12033-A8701 12033-A8702 12033-A8702	
G18	4	1815								
G20	4	1990	89.000	1 2 O1	2.000 2.000 4.000	x x x	4.300 4.300 3.800	SXN30028ZZ Mt.777	12033-E6620 12033-E6800	
GA14	4	1400	73.600	1 2 O1	1.500 1.500 2.800	x x x	2.700 3.100 2.800	SWN30103ZZ 777	12033-87A10 12033-87A11	
GA16 GA16i	4	1596	76.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.200 2.850	SWN30097ZZ 777	12033-84A11 12033-94M02	PULSER SENTRA
GA16DE	4	1597	76.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.200 2.850	SWN30104ZZ 777	12033-57Y00 12033-57Y01	NX
GA16DE	4	1597	76.000	1 O1	1.500 2.800	x x	3.100 2.550	SWN30116ZZ 777	12033-1M200 12033-1M201	200SX SENTRA
GA16DE	4	1597	76.000	1 2 O1	1.500 1.500 2.800	x x x	2.700 3.100 2.550	SWN30194ZZ NEW 777	13141-43900-S0	SUNNY
H20	4	1982	87.200	1 2 O1	2.000 2.500 4.000	x x x	4.100 4.100 4.100	SWN30023ZZ SWN30069ZZ 777	12033-14601 12033-R9023 12033-Y4460	(Forklift)
H20 H20-2	4	1982	87.200	1 2 O1	2.000 2.500 4.000	x x x	4.050 4.050 3.800	SWN30069ZZ 777	12033-R9000 12033-50K00	(Forklift)
H25				1 2 O1		x x x		NA	-	

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NISSAN GASOLINE ENGINE										
H30	6	2974	87.200	1	2.000	x	4.100	SWN30024ZZ	12033-66001	
				2	2.500	x	4.100	DISCONTINUED		
				O1	4.000	x	4.100	777		
HR16DE	4	1597	78.000	1	1.200	x	2.450	SWN30196ZZ	12033-EE000	VANETTE WAGON
				2	1.200	x	2.700	NEW	12033-EE50A	
				O1	2.000	x	2.300	777		
J J13	4	1299	73.000	1	2.000	x	3.000	SWN30026ZZ	12033-A6200	PICKUP
				2	2.000	x	3.000		12033-B3040	
				O1	4.000	x	3.000	777	12033-H6200	
J15	4	1483	77.950	1	2.000	x	3.300	SWN30033ZZ	12033-01W60	PICKUP (Forklift)
				2	2.000	x	3.700	SWN30033ZX	12033-01W61	
J16	4	1567		O1	4.000	x	3.000	777	12033-01W62	
									12033-B3030	
									12033-B8200	
J15	4	1483	77.950	1	2.000	x	2.850	SWN30033ZX	12033-01W60	PICKUP (Forklift)
				2	2.000	x	3.700		12033-01W61	
J16	4	1567		O1	4.000	x	3.000	777	12033-01W62	
								SS999	12033-B3030	
									12033-B8200	
J18	4	1800	80.500	1	1.500	x	3.300	SWN30099ZZ	12033-N7900	
				2	2.000	x	3.700			
				O1	4.000	x	3.300	777		
J20	6	1973	73.000	1	2.000	x	3.000	SWN30027ZZ	12033-73001	
				2	2.000	x	3.000	DISCONTINUED	12033-73004	
				O1	4.000	x	3.000	777		
KA24 KA24E	4	2389	89.000	1	1.500	x	3.300	SWN30096ZZ	12033-53F01	240SX
				2	1.500	x	3.900		12033-70F00	AXXESS STANZA
				O1	2.800	x	3.150	777		
KA24DE	4	2389	89.000	1	1.200	x	3.250	SWN30143ZZ	12033-9E000	ALTIMA FRONTIER XTERRA
				2	1.200	x	3.800			
				O1	2.500	x	2.850	777		
KA24DE KA24E	4	2389	89.000	1	1.500	x	3.100	SWN30148ZZ	12033-4E100	ALTIMA PICKUP
				2	1.500	x	3.900	SWN30096ZZ	12033-86G00	
				O1	2.800	x	2.500	777		
KA24DE	4	2389	89.000	1				TBA	12033-0Z810	ALTIMA FRONTIER
				2						
				O1				777		
L13	4	1300	83.000	1	2.000	x	3.500	SWN30014ZZ	12033-06000	210
				2	2.000	x	3.900		12033-21000	620
L14	4	1400		O1	4.000	x	3.700	777	12033-23000	
									12033-A0600	
L16	4	1600							12033-A3500	
									12033-A3501	
									12033-W0700	
									12033-W7110	
L18	4	1770	85.000	1	2.000	x	4.200	SWN30020ZZ	12033-78520	610
				2	2.000	x	4.200	SWN30020ZX	12033-78521	620
				O1	4.000	x	3.300	Mt.777	12033-A8701	710
									12033-A8702	

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NISSAN GASOLINE ENGINE										
L18	4	1770	85.000	1 2 O1	2.000 2.000 4.000	x x x	3.050 4.200 3.300	SWN30020ZX 777 SS999	12033-78520 12033-78521 12033-A8701 12033-A8702	610 620 710
L20A	6	1988	77.950	1 2 O1	2.000 2.500 4.000	x x x	3.600 3.700 3.000	SWN30049ZZ 777	12033-73401 12033-73402	
L20B	4	1988	85.000	1 2 O1	2.000 2.000 4.000	x x x	4.050 4.200 3.250	SWN30048ZZ 777	12033-U6000 12033-U6001 12033-U6002 12033-W0805 12033-W0815	200SX 510 610 620 710 720 PICKUP
L20ET	6	1988	77.950	1 2 O1	2.000 2.000 4.000	x x x	3.300 3.700 3.000	SWN30037ZZ 777	12033-E3030 12033-V0300 12033-V0310 12033-V0400	
L20S	6	1988	77.950	1 2 O1	1.500 2.000 4.000	x x x	3.300 3.600 3.000	SWN30068ZZ 777	12033-01L00	
L24 L24E	6	2389 2393	83.000	1 2 O1	2.000 2.000 4.000	x x x	3.500 3.900 3.700	SWN30034ZZ 777	12033-A8600 12033-E3100 12033-E3110 12033-W0810	240Z 810
L24E	6	2393	83.000	1 2 O1	1.500 2.000 4.000	x x x	3.600 3.900 3.400	SWN30064ZZ 777	12033-W2400 12033-W2410 12033-W2420	810 MAXIMA
L24E	6	2393	83.000	1 2 O1	1.500 1.500 4.000	x x x	3.600 3.600 3.000	SWN30065ZZ DISCONTINUED 777	12033-W3100	MAXIMA
L28	6	2753	86.000	1 2 O1	1.500 2.000 4.000	x x x	5.000 3.750 3.250	SWN30072ZZ 777 All Plt	12033-T8400	
L28 L28E	6	2753	86.000	1 2 O1	2.000 2.000 4.000	x x x	4.050 4.200 3.250	SWN30047ZZ 777	12033-M4210 12033-N4200 12033-N4220 12033-P8360 12033-P8370	280Z 280ZX
L28E L28ET	6	2753	86.000	1 2 O1	1.500 2.000 4.000	x x x	3.600 4.050 3.250	SWN30066ZZ 777	12033-N4200 12033-P7900 12033-P7910 12033-P8370 12033-P8600 12033-P8610 12033-P9010	280ZX

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NISSAN GASOLINE ENGINE										
MA10 MA10ET	4	987	68.000	1 2 O1	1.500 1.500 2.800	x x x	2.500 3.100 3.000	SWN30051ZZ 777	12033-01B05 12033-01B10 12033-01B11 A2033-E0101	OVER SIZE
MA10 MA10ET	4	987	68.200	1 2 O1	1.500 1.500 2.800	x x x	2.500 3.100 3.000	SWN30076ZZ 777	12035-01B10	OVER SIZE
MA12	4	1200	71.000	1 2 O1	1.500 1.500 2.800	x x x	2.550 3.250 2.800	SWN30074ZZ 777	12033-05B10 12033-05B11 A2033-05B10	OVER SIZE
MA12	4	1200	71.200	1 2 O1	1.500 1.500 2.800	x x x	2.550 3.250 2.800	SWN30087ZZ 777	12035-05B10	OVER SIZE
MR16DDT	4	1618	79.700	1 2 O1	1.200 1.000 2.000	x x x	2.550 2.700 2.400	SWN30186ZZ NEW 777	12033-1KC0A	JUKE
MR18DE	4	1797	84.000	1 2 O1	1.200 1.200 2.000	x x x	2.650 3.000 2.550	SWN30154ZZ 777	12033-EN200 12033-CK80A 12033-EN20A	
MR20DD	4	1999	84.000	1 2 O1	1.200 1.200 2.000	x x x	2.750 3.000 2.550	SWN30188ZZ NEW 777	12033-1VA0A	SERENA
MR20DE	4	1999	84.000	1 2 O1	1.200 1.200 2.000	x x x	2.650 3.000 2.550	SWN30154ZZ 777	12033-EN200 12033-CK80A 12033-EN20A	
MR20DE	4	1999	84.000	1 2 O1	1.200 1.200 2.000	x x x	2.650 3.000 2.580	SWN30166ZZ NEW 777	12033-8W80A	
NA20	4	1998	86.000	1 2 O1	1.500 1.500 4.000	x x x	3.300 3.800 3.200	SWN30170ZZ DISCONTINUED 777	12033-3T602	
P P40	6	3956	85.690	1 2 O1	2.500 2.500 4.730	x x x	3.700 3.700 3.500	SWN30022ZZ 777	12033-58003 12033-58004 12033-58005 12033-C6000 12033-C6011	(Forklift)
QG15DE	4	1497	73.600	1 2 O1	1.200 1.200 2.500	x x x	2.500 3.200 2.600	SWN30172ZZ 777	12033-5M370	
QG18	4	1769	80.000	1 O1	1.500 2.800	x x	3.100 2.550	SWN30126ZZ 777	12033-4M700	
QG18	4	1769	80.000	1 O1	1.500 2.800	x x	3.100 2.550	SWN30139ZZ SWN30142ZY 777	12033-8M100 A2033-8M100	
QG18DE	4	1769	80.000	1 2 O1	1.500 1.500 2.800	x x x	2.870 3.400 2.850	SWN30127ZZ 777	12033-WD310	SENTRA

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QG18DE	4	1769	80.000	1	1.200	x	2.850	SWN30142ZZ 777	12033-5M020	SENTRA
				2	1.200	x	3.400			
				O1	2.500	x	2.600			
QR25DE	4	2488	89.000	1	1.200	x	3.100	SWN30140ZZ	12033-8H301	ALTIMA FRONTIER SENTRA SR-E
				2	1.200	x	3.800	SWN30143ZZ	12033-9H500	
				O1	2.500	x	2.850	777	12033-8J000	
QR25DE	4	2488	89.200	1	1.200	x	3.100	SWN30141ZZ	12033-8H301	FRONTIER SENTRA SR-E
				2	1.200	x	3.800	NEW 777	12033-9H500	
				O1	2.500	x	2.850	777	12033-8J000	
QR25DE	4	2488	89.000	1	1.200	x	2.900	SWN30189ZZ	12033-8H301	ALTIMA FRONTIER SENTRA SR-E
				2	1.200	x	3.800	NEW 777	12033-9H500	
				O1	2.000	x	2.250	777	12033-8J000	
R16	4	1595	87.200	1	2.000	x	4.100	SWN30023ZZ	12033-14601	411 SRL 311
				2	2.500	x	4.100	SWN30069ZZ		
				O1	4.000	x	3.180	777		
RB20	6	3000	86.000	1	1.500	x	3.200	SWN30157ZZ		LAUREL SKYLINE
				O1	2.800	x	2.600	777		
RB30	6	3000	86.000	1	1.500	x	3.100	SWN30091ZZ 777	12033-67S10	
				2	1.500	x	3.650			
				O1	2.800	x	2.850			
RD28	6	2825	85.000	1	2.000	x	3.100	SDN30144ZZ	12033-22J11	
				2	2.000	x	3.500	777		
				O1	4.000	x	4.350			
S20	6	1989	82.000	1	2.000	x	4.000	SKN30032ZZ	12033-A0201	
				2	2.000	x	4.100	DISCONTINUED Mt.777		
				O1	4.000	x	3.750			
SR18	4	1838	82.500	1	1.500	x	2.900	SWN30105ZZ 777	12033-0E101	
				2	1.500	x	3.500			
				O1	3.000	x	2.850			
SR18	4	1838	82.700	1	1.500	x	3.100	SWN30106ZZ	12035-0E101	OVER SIZE
				2	1.500	x	3.500	777		
				O1	3.000	x	3.000			
SR18 For Leaded Free Gsoline	4	1838	82.700	1	1.500	x	3.100	SWN30106ZZ	12035-0E101	OVER SIZE
				2	1.500	x	3.500	777		
				O1	3.000	x	3.000			
SR20	4	1998	86.200	1	1.500	x	3.100	SWN30109ZZ	12035-60J20	OVER SIZE
				2	1.500	x	3.650	777	12035-60J22	
				O1	3.000	x	3.050	777	12035-60J62	
SR20	4	1998	86.000	1	1.500	x	3.100	SWN30123ZZ 777	12033-3J610	OVER SIZE
				2	1.500	x	3.700			
				O1	2.500	x	2.850			
SR20	4	1998	86.200	1	1.500	x	3.100	SWN30124ZZ	12035-3J600	OVER SIZE
				2	1.500	x	3.700	777	12035-3J610	
				O1	2.500	x	2.850			
SR20 SR20DE	4	1998	86.000	1	1.200	x	3.050	SWN30123ZZ	12033-4M802	SENTRA
				2	1.200	x	3.700	SWN30123ZZ		
				O1	2.500	x	2.850	777		

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NISSAN GASOLINE ENGINE										
SR20 SR20DE	4	1998	86.000	1 2 O1	1.500 1.500 3.000	x x x	3.100 3.650 3.000	SWN30102ZZ 777	12033-53J00 12033-53J01 12033-60J20 12033-60J22	200SX G20 NX SENTRA
TB42 TB42E	6	4169	96.000	1 2 O1	2.000 2.000 4.000	x x x	3.300 4.200 3.250	SWN30122ZZ 777	12033-03J00	(Forklift)
TB45E	6	4478	99.500	1 2 O1	2.000 1.200 4.000	x x x	3.500 4.200 3.100	SWN30181ZZ NEW 777	12033-VB000	(Forklift) SAFARI
U20	4	1989	87.200	1 2 O1	2.000 2.000 4.000	x x x	4.100 4.100 4.000	SWN30030ZZ DISCONTINUED 500 All Plt	12033-25502	SRL 311
VE30	6	2960	87.000	1 2 O1	1.500 1.500 2.800	x x x	3.070 3.800 3.150	SWN30408ZZ SWN30058ZZ 777	12033-96E01	MAXIMA
VE30DE	6	2960	87.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.800 3.100	SWN30058ZZ 777	12033-96E01	MAXIMA
VG20E	6	1998	77.950	1 2 O1	1.500 1.500 2.800	x x x	2.900 3.400 3.000	SWN30092ZY 777 All Plt	12033-12P00	
VG30 VG30E VG30ET	6	2960	87.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.800 3.100	SWN30058ZZ 777	12033-02P10 12033-03P00 12033-03P10 12033-17V01 12033-21P10 12033-21V01 12033-96E01	200SX 300ZX M30 MAXIMA PATHFINDER PICKUP QUEST
VG30DE VG30DETT	6	2960	87.000	1 2 O1	1.500 1.500 2.800	x x x	3.100 3.800 3.150	SWN30094ZZ SWN30058ZZ 777 All Plt	12033-F6500 12033-F6510 12033-F6511	300ZX J30
VG30i VG30SPi	6	2960	87.000	1 2 O1	2.000 1.500 2.800	x x x	3.100 3.800 3.100	SWN30093ZZ 777 All Plt	12033-15G00 12033-15G10 12033-15V00 12033-V8000	PATHFINDER PICKUP
VG33E	6	3272 3300	91.500	1 2 O1	1.500 1.500 2.800	x x x	3.250 4.000 3.050	SWN30120ZZ 777	12033-0W000	FRONTIER PATHFINDER QX4 XTERRA
VG33DE	6	3272	91.500	1 2 O1	1.500 1.500 2.800	x x x	3.250 4.000 3.050	SWN30120ZZ 777	12033-7B000	FRONTIER QUEST
VH45DE	8	4494	93.000	1 2 O1	1.500 1.500 2.800	x x x	3.300 4.100 3.050	SWN30117ZZ 777	12033-60U01	Q45

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
VK50VE	8	5026	95.500	1 2 O1	1.200 1.200 2.000	x	3.150 3.700 2.500	SWN30184ZZ NEW 777	12033-1CA0A	FX50 QX70
VK50VE	8	5026	95.700	1 2 O1	1.200 1.200 2.000	x	3.150 3.700 2.500	SWN30185ZZ NEW 777	12033-1CA0A	FX QX70 OVER SIZE
VK56 VK56DE	8	5552	98.000	1 2 O1	1.500 1.500 2.500	x	3.450 4.300 2.600	SWN30149ZZ 777	12033-7S001	ARMADA QX56 TI OVER SIZE
VK56 VK56DE	8	5552	98.200	1 2 O1	1.500 1.500 2.500	x	3.450 4.300 2.600	SWN30161ZZ NEW 777	12033-7S002	AR QX56 TITAN OVER SIZE
VK56 VK56DE	8	5552	98.000	1 2 O1	1.500 1.500 2.500	x	3.450 4.300 2.600	SWN30160ZZ NEW 777	12033-ZE00A	ARMADA QX56 TI OVER SIZE
VK56 VK56DE	8	5552	98.200	1 2 O1	1.500 1.500 2.500	x	3.450 4.300 2.600	SWN30161ZY NEW 777	12033-ZE00A	AR QX56 TITAN OVER SIZE
VK56VD	8	5552	98.000	1 2 O1	1.500 1.500 2.500	x	3.150 4.300 2.500	SWN30177ZZ NEW 777	12033-ZE00A	ARMADA QX56 TI OVER SIZE
VK56VD	8	5552	98.200	1 2 O1	1.500 1.500 2.500	x	3.150 4.300 2.500	SWN30183ZZ NEW 777	12033-ZE00A	AR QX56 TITAN OVER SIZE
VQ20	6	1995	76.000	1 2 O1	1.200 1.200 2.500	x	2.700 3.300 2.800	SWN30130ZZ 777	12033-31U00	
VQ30 VQ30DE	6	2960	93.000	1 2 O1	1.200 1.200 2.500	x	3.300 4.000 2.850	SWN30115ZZ 777	12033-38U01	I30 MAXIMA OVER SIZE
VQ30 VQ30DE	6	2960	93.200	1 2 O1	1.200 1.200 2.500	x	3.300 4.000 2.850	SWN30119ZZ 777	12035-AG301 12035-47U03	OVER SIZE
VQ35DE	6	3498	95.500	1 2 O1	1.200 1.200 2.500	x	3.450 4.100 2.750	SWN30131ZZ 777	12033-4W001	350Z ALTIMA G35 I35 MAXIMA MURANO PATHFINDER QX4 OVER SIZE
VQ35DE	6	3498	95.700	1 2 O1	1.200 1.200 2.500	x	3.450 4.100 2.850	SWN30132ZZ 777	12035-4W004	OVER SIZE
VQ35DE	6	3498	95.500	1 2 O1	1.200 1.200 2.000	x	3.100 4.100 2.600	SWN30191ZZ NEW 777	12033-JA10D	MAXIMA MURANO SKYLINE

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
NISSAN GASOLINE ENGINE										
VQ35HR	6	3498	95.500	1	1.200	x	3.150	SWN30162ZZ	12033-JK20A	350Z
VQ37VHR	6	3696		2	1.200	x	3.700	NEW 777	12033-JK20C	370Z
				O1	2.000	x	2.500			G35
VQ35HR	6	3498	95.700	1	1.200	x	3.150	SWN30163ZZ	12033-JK20A	350Z
VQ37VHR	6	3696		2	1.200	x	3.700	NEW 777	12033-JK20C	370Z
				O1	2.000	x	2.500			G35
VQ40DE	6	3954	95.500	1	1.200	x	3.450	SWN30131ZZ	12033-8J100	FRONTIER
				2	1.200	x	4.100			PATHFINDER
				O1	2.500	x	2.750	777		XTERRA
VQ40DE	6	3954	95.500	1	1.200	x	3.100	SWN30191ZZ	12033-JP00A	FRONTIER
				2	1.200	x	4.100	NEW 777		PATHFINDER
				O1	2.000	x	2.600			XTERRA
Y44E	8	4414	92.000	1	2.000	x	3.100	SWN30078ZZ	12033-F1100	
				2	2.500	x	4.000		12033-F1110	
				O1	4.000	x	3.300	777 All Plt	12033-F2700	
Z18	4	1770	85.000	1	2.000	x	3.900	SWN30050ZZ	12033-N9700	
				2	2.000	x	4.100	DISCONTINUED 777	12033-W1600	
				O1	4.000	x	3.250	777 All Plt		
Z18P	4	1770	85.000	1	2.000	x	2.900	SWN30081ZZ	12033-W4110	
				2	2.000	x	3.700			
				O1	4.000	x	3.250	777 All Plt		
Z20	4	1952	85.000	1	2.000	x	2.900	SWN30084ZZ	12033-82W01	
				2	1.500	x	3.700			
				O1	4.000	x	3.200	777		
Z20E	4	1952	85.000	1	1.500	x	3.600	SWN30061ZZ	12033-N8510	
				2	1.500	x	3.600	NEW SWN30086ZY	12033-N8520	
				O1	4.000	x	3.250	777		
Z20	4	1952	85.000	1	1.500	x	3.100	SWN30086ZY	12033-24G00	200SX
Z20E				2	1.500	x	3.700		12033-N8510	510
Z20S				O1	4.000	x	3.200	777 All Plt	12033-N8520	720 PICKUP
Z22	4	2187	87.000	1	1.500	x	3.100	SWN30054ZZ	12033-06W10	200SX
Z22E				2	1.500	x	3.800		12033-06W20	720
Z22S				O1	4.000	x	3.250	777 All Plt	12033-D8500	PICKUP
Z24	4	2389	89.000	1	1.500	x	3.300	SWN30059ZZ	12033-10W00	720
				2	1.500	x	3.900		12033-21G00	PICKUP
				O1	4.000	x	3.250	777 All Plt	12033-30W10	
Z24	4	2389	89.000	1	2.000	x	3.100	SWN30085ZZ	12033-13G10	720
Z24i				2	1.500	x	3.900		12033-21G00	PATHFINDER
				O1	4.000	x	3.200	777 All Plt	12033-83W00	PICKUP VAN (Forklift)

OVER SIZE

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
NISSAN GASOLINE ENGINE										
Z24S	4	2389	86.000	1	1.500	x	3.100	SWN30159ZZ	12033-3T600	TERANO
				2	1.500	x	3.650	NEW		
				O1	4.000	x	2.800	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
AD3	6	4169	96.000	1	2.500	x	4.000	SDN31052ZZ	12033-06J10	
				2	2.000	x	4.000	SDN31052ZX	12033-06J11	
				O1	4.000	x	4.150	555		
AD3	6	4169	96.000	1	2.500	x	3.650	SDN31052ZX	12033-06J00	
				2	2.000	x	4.000	555 SS999	12033-06J01	
				O1	4.000	x	4.350			
AD5	4	3153	99.200	1	2.500	x	3.700	SDN30152ZZ	12033-2S610	
				2	2.000	x	4.100	555		
				O1	3.000	x	3.250			
BD30	4	2953	96.000	1	2.500	x	3.650	SDN30150ZX	12033-54T10	
				2	2.000	x	4.000	555 SS999		
				O1	4.000	x	4.350			
CD17	4	1700	80.000	1	1.750	x	3.300	SDN30088ZZ	12033-16A00	SENTRA
				2	2.000	x	3.300	SDN30088ZX	12033-16A10	
				O1	3.000	x	2.500	555		
CD17	4	1700	80.000	1	1.750	x	2.850	SDN30088ZX	12033-16A00	SENTRA
				2	2.000	x	3.300	555 SS999	12033-16A10	
				O1	3.000	x	3.250			
CD20	4	1952	84.500	1	2.000	x	3.100	SDN30133ZZ	12033-57J00	
				2	2.000	x	3.500	555		
				O1	3.000	x	3.250			
ED6	6	5654	100.000	1	3.000	x	4.200	SDN31016ZZ	12040-Z5027	
				2	2.000	x	4.200	555		
				3	2.000	x	4.200			
ED30	4	2956	98.000	1	3.000	x	4.200	SDN31015ZZ	12033-J2002	
				2	2.000	x	4.300	555	12033-J2004	
				3	2.000	x	4.300		12033-J2006	
ED30	4	2956	98.000	1	3.000	x	4.200	SDN30148ZZ	12033-J5576	
				2	2.000	x	3.900	555		
				O1	4.500	x	4.400			
ED33	4	3928	100.000	1	3.000	x	4.200	SDN31025ZZ	12033-J6500	
				2	2.000	x	4.200	555 All Plt	12033-J6501	
				O1	4.500	x	4.500		12033-T9000	
ED33	4	3928	100.000	1	2.000	x	4.000	SDN31050ZZ	12033-T9304	
				2	2.000	x	4.200	555 All Plt	12033-T9306	
				O1	4.000	x	4.050		12033-W4200	
ED35	4	3465	102.500	1	3.000	x	3.650	SDN31051ZZ	12033-56T10	
				2	2.000	x	4.200	555		
				O1	4.000	x	4.150			

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
FD6	6	5654	100.000	1	3.000	x	4.200	SDN31016ZZ	12040-Z5001	
				2	2.000	x	4.200	555	12040-Z5025	
				3	2.000	x	4.200		12040-Z5026	
				O1	4.500	x	4.500			
FD6T	6	5654	100.000	1	3.000	x	4.200	SDN31020ZZ	12040-Z5501	
				2	2.000	x	4.200	555 1st-KS All Plt	12040-Z5525	
				3	2.000	x	4.200		12040-Z5526	
				O1	4.500	x	4.500			
FD6T	6	5654	100.000	1	3.000	x	4.200	SDN31021ZZ	12033-Z5502	
				2	2.000	x	4.200	555 1st-HKS All Plt	12033-Z5527	
				3	2.000	x	4.200			
				O1	4.500	x	4.500			
FD6	6	5654	100.000	1	3.000	x	4.200	SDN31029ZZ	12040-Z5028	
				2	2.000	x	4.200	555 All Plt		
				O1	4.500	x	4.500			
FD6T	6	5654	100.000	1	3.000	x	4.200	SDN31026ZZ	12033-Z5504	
				2	2.000	x	4.200	555 1st-HKS All Plt	12040-Z5528	
				O1	4.500	x	4.500			
FD33T	4	3298	100.000	1	3.000	x	4.200	SDN31032ZZ	12033-T9307	
				2	2.000	x	4.200	555		
				O1	4.500	x	4.500			
FD35	4	3465	102.500	1	2.000	x	3.900	SDN31045ZZ	12033-01T10	
				2	2.000	x	4.200	555		
				O1	4.000	x	4.150			
FD35	4	3465	102.500	1	2.000	x	3.650	SDN31045ZX	12033-01T10	
				2	2.000	x	4.200	SDN31045ZZ		
				O1	4.000	x	4.350	SS999		
FD35T	4	3465	102.500	1	2.000	x	4.200	SDN31057ZZ	12033-01T60	
				2	2.000	x	4.200	555		
				O1	4.000	x	4.350			
FD46	4	4617	108.000	1	3.000	x	4.050	SDN31064ZX	12033-0T010	CONDOR
				2	2.000	x	4.500	DISCONTINUED		
				O1	4.000	x	4.400	SS999		
FE6	6	7000	108.000	1	3.000	x	4.300	SDN31044ZZ	12040-Z5504	
				2	2.000	x	4.500	SDN31044ZX		
				O1	4.000	x	4.150	555		
FE6	6	7000	108.000	1	3.000	x	4.050	SDN31044ZX	12040-Z5504	
				2	2.000	x	4.500	555 SS999		
				O1	4.000	x	4.400			
FE6 FE6T	6	7000	108.000	1	3.000	x	4.300	SDN31036ZY	12040-Z5505	
				2	2.000	x	4.500	555 1st-KS		
				O1	4.000	x	4.150			

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FE6 FE6T	6	7000	108.000	1	3.000	x	4.300	SDN31036ZX	12040-Z5505	
				2	2.000	x	4.500	SDN31036ZY		
				O1	4.000	x	4.400	555 SS999		
FE6TA	6	7000	108.000	1	2.500	x	3.700	SDN31054ZZ	12040-Z5603 12040-Z5519 12040-Z5560 12040-Z5561 12040-Z5564	
				2	2.000	x	4.500	555		
				O1	4.000	x	4.400			
FM6T	6		105.900	1	2.500	x	3.700	SDN31061ZZ	12033-Z5508	
				2	2.000	x	4.500	DISCONTINUED		
				O1	4.000	x	4.350	555		
GE13TD	6	13074	136.000	1	2.500	x	3.700	SDN31063ZZ	12040-00Z07	
				2	2.000	x	3.700	555		
				O1	3.000	x	3.000			
LD20	4	1952	85.000	1	2.000	x	3.500	SDN30098ZZ	12033-W1700	
				2	2.000	x	3.500	SDN30098ZX		
				O1	4.000	x	4.100	555		
LD20	4	1952	85.000	1	2.000	x	3.050	SDN30098ZX	12033-W1700	
				2	2.000	x	3.500	555 SS999		
				O1	4.000	x	4.100			
LD23	4		87.000	1	2.000	x	3.500	SDN30145ZZ	12033-9C625	
				2	2.000	x	3.400	555		
				O1	3.000	x	3.300			
LD28	6	2792	84.500	1	2.000	x	3.500	SDN30067ZZ	12033-60L00 12033-V0700	810 MAXIMA
				2	2.000	x	3.500	555		
				O1	4.000	x	4.100			
MD92TCI	6		125.000	1	2.500	x	4.350	SDN31053ZY	12040-Z6002	
				2	2.000	x	4.300	555		
				O1	3.000	x	3.100			
ND6 For industrial machine.	6	6842	110.000	1	4.000	x	4.400	SDN31006ZX	12040-95004 12040-95006 12040-90127	
				2	3.000	x	4.400	555 2nd-IC		
				O1	5.000	x	4.700			
ND6T	6	6842	110.000	1	4.000	x	4.400	SDN31017ZZ	12040-90326	
				2	3.000	x	4.400	555		
				O1	5.000	x	3.500			
NE6	6	7000	110.000	1	3.000	x	4.000	SDN31031ZZ	12040-95012 12040-95013 12040-95014 12040-95029	
				2	2.500	x	4.000	SDN31031ZX		
				O1	4.000	x	4.200	555 1st-HKS		
NE6	6	7000	110.000	1	3.000	x	4.050	SDN31031ZX	12040-95012 12040-95013 12040-95014 12040-95029	
				2	2.500	x	4.000	555 SS999		
				O1	4.000	x	4.350			
NS6TA	6	9160	120.000	1	3.000	x	4.100	SDN31060ZZ	12040-95501	CV32
				2	2.500	x	4.800	555		
				O1	4.000	x	4.400			

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NISSAN DIESEL ENGINE											
PD6	6	10308	125.000	1	5.000	x	5.200	SDN31007ZZ	12040-90026		
					2	3.500	x	5.200	SDN31007ZX		12040-90029
					O1	5.000	x	5.500	555		12040-90125
											12040-96000
											12040-96004
											12040-96007
											12040-96009
											12040-96026
											12040-96127
											12040-96226
PD6	6	10308	125.000	1	5.000	x	5.200	SDN31007ZX	12040-90026		
					2	3.500	x	5.200	555 SS999		12040-90029
					O1	5.000	x	4.950			12040-90125
											12040-96000
											12040-96004
											12040-96007
											12040-96009
											12040-96026
											12040-96127
											12040-96226
PD6T	6	10308	125.000	1	4.000	x	5.200	SDN31012ZZ		12040-90228	
					2	3.500	x	5.200	SDN31012ZX	12040-96005	
					O1	5.000	x	3.800	555	12040-96005	
									1st-KS	12040-96010	
										12040-96125	
PD6T	6	10308	125.000	1	4.000	x	5.200	SDN31012ZX	12040-90228		
					2	3.500	x	5.200	555 SS999		12040-96005
					O1	5.000	x	4.950			12040-96005
											12040-96010
											12040-96125
				12040-96129							
PDT	6	10308	125.000	1	4.000	x	5.000	SDN31042ZZ	12040-96013		
					2	3.500	x	5.200	555 1st-HKS All Plt		
					O1	5.000	x	4.800			
PE6	6	11670	133.000	1	4.000	x	5.200	SDN31011ZZ		12040-90225	
					2	3.500	x	5.400	555 1st-KS	12040-90227	
					O1	6.000	x	5.700		12040-96028	
										12040-96128	
										12040-96500	
				12040-96503							

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NISSAN DIESEL ENGINE										
PE6T	6	11670	133.000	1	4.000	x	5.300	SDN31022ZZ	12040-96225	
				2	3.500	x	5.500			
				O1	6.000	x	5.700			
								555	12040-96228	
								1st-HKS	12040-96504	
								All Plt	12040-96509	
									12040-96510	
									12040-96512	
									12040-96513	
PE6T	6	11670	133.000	1	3.000	x	5.200	SDN31041ZZ	12040-96517	
				2	2.500	x	5.500			
				O1	4.000	x	4.150			
								555		
PF6	6	13000	133.000	1	2.500	x	4.700	SDN31048ZZ	12040-96570	
				2	2.500	x	5.500			
				O1	4.000	x	4.050			
								555	12040-96566	
									12040-96564	
QD32NA	4	3153	99.200	1	2.500	x	3.700	SDN30152ZZ	12033-2S610	
				2	2.000	x	4.100			
				O1	3.000	x	3.250			
								555		
QD32	4	3153	99.200	1	2.500	x	3.800	SDN30164ZZ	12033-1W411	
				2	2.000	x	4.100			
				O1	3.000	x	3.250			
								555		
RD8	8	14313	135.000	1	4.000	x	5.100	SDN31013ZY	12040-90325	
				2	3.000	x	5.500			
				O1	6.000	x	5.700			
								555	12040-97007	
									12040-97008	
									12040-97025	
									12040-97026	
									12040-97028	
									12040-97126	
									12040-97179	
									12040-97226	
									12040-97228	
RD8T	8	14313	135.000	1	4.000	x	5.500	SDN31018ZZ	12040-97008	
				2	3.000	x	5.500			
				O1	6.000	x	5.700			
								555	12040-97128	
								1st-KS		
RD10	10	14313	135.000	1	4.000	x	5.100	SDN31014ZZ	12040-90229	
				2	3.000	x	5.500			
				O1	6.000	x	5.700			
								555	12040-97007	
									12040-97025	
									12040-97125	
									12040-97127	
									12040-97227	
RD10T	10	14313	135.000	1	4.000	x	5.500	SDN31019ZZ	12040-97008	
				2	3.000	x	5.500			
				O1	6.000	x	5.700			
								555	12040-97129	
								1st-KS		
RE8	8	14313	135.000	1	3.000	x	5.100	SDN31033ZZ	12040-97074	
				2	3.000	x	5.500			
				O1	5.000	x	4.950			
								555		
RE10	10	18894	135.000	1	3.000	x	5.100	SDN31058ZZ	12040-97075	
				2	3.000	x	5.500			
				O1	5.000	x	4.950			
								555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
NISSAN DIESEL ENGINE											
RF	10	16991	138.000	1	2.500	x	4.900	SDN31043ZZ	12040-97078		
				2	2.500	x	5.600	555			
				O1	4.000	x	4.400				
RF8	8	16991	138.000	1	2.500	x	5.200	SDN31034ZZ	12040-97072		
				2	2.500	x	5.600	555			
				O1	4.000	x	4.650				
RG8	8	17991	142.000	1	3.000	x	4.700	SDN31059ZZ	12040-97107		
				2	2.500	x	5.800	555			
				O1	4.000	x	4.350				
RH8 RH10	1	21205	150.000	1	3.000	x	4.700	SDN31055ZZ	12040-97105		
				2	2.500	x	5.600	YDN31005ZZ	12040-97106		
				O1	4.000	x	4.350	555			
SD15	3	1500	83.000	1	2.500	x	3.500	SDN31030ZZ	12033-Z7007		
				2	2.000	x	3.400	555 All Plt			
				O1	4.500	x	3.900				
SD15	3	1500	83.000	1	2.500	x	3.500	SJN31024ZZ	12033-Z7003	(Forklift)	
SD16	3	1600		2	2.000	x	3.400	Mt.555 All Plt			
				3	2.000	x	3.400				
SD16	3	1600	83.000	O1	4.500	x	3.400	555 All Plt	12033-Z7007		
				O2	4.500	x	3.400				
				1	2.500	x	3.500				
SD20	4	1991	83.000	1	2.500	x	3.300	SJN31003ZZ	12033-37500		
				2	2.000	x	3.400	Mt.555	12033-76201		
				3	2.000	x	3.400		12033-76202		
				O1	4.500	x	3.900		12033-76203		
				O2	4.500	x	3.400		12033-76204		
									12033-V1310		
									12033-Y1400		
									12033-Y1400		
									SJN31003ZZ		12033-Y1401
									SJN31003ZZ		12033-Y1401
									555		12033-Y1402
									SS999		12033-Y1403
											12033-Y1404
					12033-Y1410						
					12033-Y3010						
SD22	4	2164	83.000	1	2.500	x	3.500	SDN31027ZZ	12033-R8100	720 CABAL JUNIOR PICKUP (Forklift)	
				2	2.000	x	3.400	555 All Plt	12033-R8103		
				O1	4.500	x	3.900		12033-R8104		
									12033-R8110		
				12033-R8112							
					12033-R8114						

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NISSAN DIESEL ENGINE													
SD22	4	2164	83.000	1	2.500	x	3.300	SJM31003ZZ	12033-37500	CABAL JUNIOR (Forklift)			
					2.000	x	3.400						
					2.000	x	3.400						
					O1	4.500	x				3.900		
					O2	4.500	x				3.400		
					1	2.500	x				3.050	SDN31003ZX	12033-Y1400
					2	2.000	x				3.400	DISCONTINUED	12033-Y1401
					3	2.000	x				3.400	555	12033-Y1402
					O1	4.500	x				3.900	SS999	12033-Y1403
					O2	4.500	x				3.400		12033-Y1404
								12033-Y1410					
								12033-Y3010					
SD23	4	2289	89.000	1	2.500	x	3.700	SDN31023ZZ	12033-L2000	720 CEDRIC PICKUP (Forklift)			
				2	2.000	x	3.700		12033-L2002				
SD25		2488		O1	4.500	x	4.200	555	12033-L2003				
								All Plt	12033-L2004				
									12033-L2005				
									12033-L2006				
SD33	6	3246	83.000	1	2.500	x	3.500	SJM31004ZZ	12033-61500				
SD33T				2	2.000	x	3.400	Mt.555	12033-61502				
				3	2.000	x	3.400		12033-61503				
				O1	4.500	x	3.900		12033-J2201				
				O2	4.500	x	3.500		12033-J2202				
									12033-J2203				
					12033-J2204								
SD33T	6	3246	83.000	1	2.500	x	3.500	SDN31028ZZ	12033-C8704				
				2	2.000	x	3.500	555					
				O1	4.000	x	4.000				1st-KS		
TD23	4	2289	89.000	1	2.500	x	3.700	SDN31037ZZ	12033-02N00				
				2	2.000	x	3.700	555	12033-02N10				
				O1	4.000	x	4.150						
TD25	4	2494 2500	92.900	1	2.500	x	4.000	SDN31038ZX	12033-44G10				
				2	2.000	x	4.000	555					
				O1	4.000	x	4.150						
TD25-2	4	2494 2500	92.900	1	2.500	x	3.450	SDN30146ZZ	12033-5T116				
				2	2.000	x	4.000	555					
				O1	3.000	x	3.250						
TD27	4	2663	96.000	1	2.500	x	4.000	SDN31035ZZ	12033-43G11				
				2	2.000	x	4.000	SDN31035ZX	555				
				O1	4.000	x	4.150						
TD27	4	2663	96.000	1	2.500	x	3.650	SDN31035ZX	12033-43G11				
				2	2.000	x	4.000	555					
				O1	4.000	x	4.350				SS999		

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TD27	4	2663	96.000	1	2.500	x	3.650	SDN31056ZZ	12033-6T010				
								2			2.000	x	4.000
								O1			3.000	x	3.250
								555					
TD27T	4	2663	96.000	1	2.500	x	3.500	SDN30147ZZ	12033-37N10				
								2			2.000	x	4.000
								O1			4.000	x	4.350
								555					
TD27T2	4	2663	96.000	1	2.500	x	3.700	SDN30165ZZ					
								2			2.000	x	4.000
								O1			3.000	x	3.250
								SDN30153ZZ					
								555					
TD42	6	4169	96.000	1	2.500	x	4.000	SDN31052ZZ	12033-06J00				
								2			2.000	x	4.000
								O1			4.000	x	4.150
								SDN31052ZX	12033-06J01				
								555					
TD42	6	4169	96.000	1	2.500	x	3.650	SDN31052ZX	12033-06J00				
								2			2.000	x	4.000
								O1			4.000	x	4.350
								555	12033-06J01				
								SS999					
TD42T	6	4169	96.000	1	2.500	x	3.500	SDN30156ZZ	12033-DY712				
								2			2.000	x	4.000
								O1			3.000	x	3.250
								555					
TD42T	6	4169	96.000	1	2.500	x	4.000	SDN30187ZZ	12033-06J15				
								2			2.000	x	4.000
								O1			3.000	x	3.250
								555					
TD42T	6	4169	96.000	1	2.500	x	3.700	SDN30167ZZ	12033-05D01				
								2			2.000	x	4.000
								O1			4.000	x	3.950
								DISCONTINUED					
								555					
UD3	3	3076	110.000	1	3.000	x	4.450	SDN31005ZZ	12040-90008				
UD4	4	4941		2	3.000	x	4.450	YDN31005ZZ					
UD5	5	6177		3	3.000	x	4.200	555					
UD6	6	7413		4	3.000	x	4.200	1Cyl Pkg					
UD8	8	9882		O1	4.800	x	4.800						
UD12	12	14825		O2	4.800	x	4.800						
YD22DD	4	2184	86.000	1	2.000	x	3.100	SDN30180ZZ	12033-AW400	SUNNY			
								2			2.000	x	3.600
								O1			3.000	x	3.150
								NEW					
								555					
YD22DD	4	2184	86.000	1	1.750	x	2.900	SDN30169ZZ	12035-WD000	SUNNY			
								2			1.500	x	3.050
								O1			3.000	x	3.150
								NEW					
								555					
YD25DDTi	4	2488	89.000	1	2.000	x	2.900	SDN30182ZZ	12033-VK520	NAVARA PATHFINDER			
								2			2.000	x	3.500
								O1			3.000	x	3.150
								NEW					
								555					
ZD30DD	4	2953	96.000	1	2.000	x	3.100	SDN30195ZZ	12033-2W200B	CARAVAN COACH SAFARI			
								2			1.200	x	3.000
								O1			2.000	x	2.750
								NEW					
								555					
ZD30E	4	2953	96.000	1	2.500	x	3.500	SDN30153ZZ	12033-2W211				
								2			2.000	x	4.000
								O1			3.000	x	3.250
								555					
ZD30T	4	2953	96.000	1	2.500	x	3.700	SDN30174ZZ	12033-VK610				
								2			2.000	x	4.000
								O1			2.000	x	2.000
								555					

EXPORT PISTON RINGS



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SAAB GASOLINE ENGINE										
ELLESMERE L81	6	2962	86.000	1	1.200	x	2.900	SWG10016ZZ	88 22 413	9-5
				2	1.500	x	3.500	777		
				O1	3.000	x	2.850			
EJ20	4	1994	92.000	1	1.200	x	3.270	SWF20060ZZ	12033AD190	9-2X
				2	1.200	x	3.700	777		
				O1	2.500	x	2.800			
EJ253	4	2457	99.500	1	1.200	x	3.450	SWF20066ZZ	12033AB250	9-2X
				2	1.200	x	4.000	777		
				O1	2.500	x	2.800			
EJ255	4	2457	99.500	1	1.200	x	3.450	SWF20068ZZ	12033AB340	9-2X
				2	1.200	x	4.000	777		
				O1	2.000	x	2.700			
VORTEC 5300 IV	8	5328	96.000	1	1.500	x	3.300	SWG10005ZZ	12456338	9-7X
				2	1.500	x	4.000	777		
				O1	3.000	x	3.200			
VORTEC 6000 LS2	8	5967	101.600	1	1.200	x	3.500	SWG10031ZX	89017484	9-7X
				2	1.500	x	4.200	777		
				O1	2.500	x	2.550			

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21Z	4		92.000	1	1.200	x	3.270	SWF20063ZZ	12033-AB820	
				2	1.200	x	3.700	777		
				O1	2.000	x	2.700			
66L	4	1994	92.000	1	1.200	x	3.270	SWF20060ZZ	12033-AB100	
				2	1.200	x	3.700	777	12033-AB070	
				O1	2.500	x	2.800			
69H	4	1994	92.000	1	1.200	x	3.270	SWF20062ZZ	12033-AB160	
				2	1.200	x	3.700	SWF20060ZZ	12033-AB220	
				O1	2.500	x	2.800	777		
E42	2	700	78.000	1	1.200	x	3.000	SWF20052ZZ	48003-5600	
				2	1.500	x	3.300	777	48003-5610	
				O1	2.800	x	3.150			
EA61 E61S	4	1088	76.000	1	2.000	x	3.600	SXF20007ZZ	88003-6100	
				2	2.000	x	3.600	DISCONTINUED		
				O1	4.000	x	3.250	Mt.777		
EA62 E62S	4	1267	82.000	1	2.000	x	3.800	SWF20010ZZ	88003-8600	1300
				2	2.000	x	3.600	777	FF-1 1300G	
				O1	4.000	x	3.800			
EA63 E63S	4	1361	85.000	1	2.000	x	3.900	SWF20014ZZ	38003-0110	LEONE 1400
				2	2.000	x	3.900	777	LEONE 1600	
				O1	4.000	x	3.250			
EA65	4	1298	83.000	1	1.200	x	3.300	SWF20032ZZ	48003-7010	
				2	1.500	x	3.600	777		
				O1	4.000	x	3.600			
EA71	4	1595	92.000	1	2.000	x	4.000	SWF20017ZZ	38003-4300	BRAT
				2	2.000	x	4.000	777	DL	
				O1	4.000	x	3.900		38003-4310	FE
									38003-4320	GF
										GL
										GLF
										LEONE 1600
EA71	4	1595	92.000	1	1.200	x	3.650	SWF20039ZZ	48003-7100	BRAT
EA81	4	1781		2	1.500	x	3.900	SWF20057ZZ		DL
				O1	4.000	x	3.900	777		GL
										LEONE 1800
EA82	4	1781	92.000	1	1.200	x	3.300	SWF20057ZZ	12033-AA000	BRAT
				2	1.500	x	3.700	777	DL	
				O1	4.000	x	3.650		GL	
										GL-10
										LEONE 1800
										LOYALE
										RX
										XT
										XT-6
EF10	3	1000	78.000	1	1.200	x	3.000	SWF20054ZZ	48003-5800	JUSTY
EF12	3	1189		2	1.500	x	3.400	777	12033-KA151	
				O1	2.800	x	3.150			

EXPORT PISTON RINGS



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EJ18	4	1820	87.900	1	1.200	x	3.100	SWF20043ZZ	12033-AA090	IMPREZA
				2	1.500	x	3.600	777		
				O1	3.000	x	2.350			
EJ20	4	1994	92.000	1	1.200	x	3.300	SWF20051ZZ	12003-AA640	
				2	1.500	x	3.700	777		
				O1	3.000	x	3.100			
EJ20	4	1994	92.000	1	1.500	x	3.300	SWF20044ZZ	12003-AA610	
				2	1.500	x	3.700	777		
				O1	3.000	x	3.100			
EJ20	4	1994	92.000	1	1.200	x	3.270	SWF20062ZZ	12033-AB190	IMPREZA
				2	1.200	x	3.700	SWF20060ZZ		
				O1	2.500	x	2.800	777		
EJ22	4	2212	96.900	1	1.200	x	3.300	SWF20045ZZ	12033-AA210	IMPREZA LEGACY OUTBACK H4
				2	1.500	x	3.900	777		
				O1	3.000	x	2.550			
EJ22	4	2212	96.900	1	1.200	x	3.300	SWF20067ZZ	12033-AA390	LEGACY TURBO
				2	1.500	x	3.900	777		
				O1	3.000	x	2.550			
EJ25D	4	2457	99.500	1	1.200	x	3.450	SWF20064ZZ	12033-AA760	FORESTER IMPREZA LEGACY
				2	1.500	x	4.000	777		
				O1	2.800	x	3.150			
EJ251 EJ252 EJ253 EJ259	4	2457	99.500	1	1.200	x	3.450	SWF20066ZZ	12033-AB010	BAJA FORESTER IMPREZA LEGACY OUTBACK H4
				2	1.200	x	4.000	777		
				O1	2.500	x	2.800			
EJ255 EJ257	4	2457	99.500	1	1.200	x	3.450	SWF20068ZZ	12033-AB340	WRX Sti
				2	1.200	x	4.000	777		
				O1	2.000	x	2.700			
EJ33	6	3318	96.900	1	1.500	x	3.300	SWF20058ZZ	12033-AA450	SVX
				2	1.500	x	3.900	DISCONTINUED		
				O1	3.000	x	3.300	777		
EK22	2	490	74.000	1	1.500	x	3.400	SWF20022ZZ	48003-1300	
				2	1.500	x	3.400	DISCONTINUED		
				O1	2.800	x	2.800	777		
EK23	2	550	76.000	1	1.500	x	3.400	SWF20023ZZ	48003-5400	
				2	1.500	x	3.400	777		
				O1	2.800	x	3.250			
EK23	2	544	76.000	1	1.200	x	3.100	SWF20053ZZ	48003-5500	
				2	1.500	x	3.400	DISCONTINUED		
				O1	2.800	x	3.150	777		
EZ30	6	2999	89.200	1	1.200	x	3.050	SWF20070ZZ	12033-AB130	OUTBACK H6
				2	1.200	x	3.600	777		
				O1	2.500	x	2.900			
EZ36	6	3629	92.000	1	1.200	x	3.270	SWF20069ZZ	12033-AC060 12033-AC180	OUTBACK H6
				2	1.200	x	3.700	NEW		
				O1	2.000	x	2.700	777		

EXPORT PISTON RINGS



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E12	4	1590	75.000	1	1.200	x	2.700	SWS20190ZZ	12140-61G50	
				2	1.200	x	3.000	777		
				O1	2.500	x	2.450	777		
F5A	3	543	62.000	1	1.500	x	2.800	SWS20138ZZ	12140-73000	
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850	777		
F5A	4	543	62.000	1	1.200	x	2.250	SWS20153ZZ	12140-85050	
				2	1.200	x	2.500	777		
				O1	2.800	x	2.850	777		
F5A	3	543	62.000	1	1.200	x	2.250	SWS20184ZZ	12140-85050	
				2	1.200	x	2.500	777		
				O1	2.800	x	2.850	777		
F6A	3	657	65.000	1	1.200	x	2.300	SWS20128ZZ	12140-51E50	
				2	1.500	x	2.700	777		
				O1	2.500	x	2.500	777		
F6A	3	657	65.000	1	1.200	x	2.300	SWS20211ZZ	12140-50E50	
				2	1.200	x	2.700	NEW		
				O1	2.500	x	2.500	777		
F8A	4	797	62.000	1	1.500	x	2.800	SWS20098ZZ	12140-73010	
				2	1.500	x	2.800	777		
				O1	2.800	x	2.850	777		
F8A	4	797	62.000	1	1.200	x	2.250	SWS20153ZZ	12140-85050	
				2	1.200	x	2.500	777		
				O1	2.800	x	2.850	777		
F8A	3	797	62.000	1	1.200	x	2.250	SWS20184ZZ	12140-85050	
				2	1.200	x	2.500	777		
				O1	2.800	x	2.850	777		
F10A	4	970	65.500	1	1.500	x	2.650	SWS20106ZZ	12140-75110 12140-75111	JIMNY
				2	1.500	x	2.700	777		
				O1	2.800	x	2.750	777		
FB16	4	1599	78.800	1	1.200	x	2.470	SWF20074ZZ	12033-AC270	IMPREZA
				2	1.200	x	2.500	NEW		
				O1	2.000	x	2.800	777		
FB20	4	1995	84.000	1	1.200	x	2.670	SWF20073ZZ	12033-AC210 12033-AC220 12033-AC230	FORESTER IMPREZA
				2	1.200	x	2.700	NEW		
				O1	2.000	x	2.500	777		
G10	3	993	74.000	1	1.200	x	2.850	SWS20131ZZ	12140-82050	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800	777		
G10	3	993	74.000	1	1.200	x	2.850	SWS20144ZZ	12140-82161	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800	777		
G10	4	1000	72.000	1	1.200	x	2.700	SWS20209ZZ	12140-72F00	
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800	777		
G13 G13A	4	1300	74.000	1	1.200	x	2.850	SWS20141ZZ	12140-82051 12140-82X50	SAMURAI
				2	1.500	x	3.200	777		
				O1	2.800	x	2.800	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
G13BA G13K	4	1298	74.000	1	1.200	x	2.900	SWS20143ZZ	12140-82X50	SAMURAI SIDEKICK SWIFT
				2	1.500	x	3.200	777		
				O1	2.800	x	2.000			
G13BA	3	1298	74.000	1	1.200	x	2.700	SWS20185ZZ	12140-63E50	SWIFT
				2	1.200	x	3.200	777		
				O1	2.800	x	2.850			
G13BA	4	1298	74.000	1	1.200	x	2.700	SWS20186ZZ	12140-63E50	SWIFT
				2	1.200	x	3.200	777		
				O1	2.800	x	2.850			
G15A	4	1493	84.000	1	1.200	x	2.700	SWS20217ZZ	12140-61J00	APV
G16A	4	1590		2	1.200	x	3.150	NEW 777		
				O1	2.500	x	2.250			
G16 G16KC G16KV	4	1590 1600	75.000	1	1.200	x	2.700	SWS20142ZZ	12140-60A50	SIDEKICK ESTEEM VITARA X-90
				2	1.500	x	3.200	777	12140-61G50	
				O1	2.800	x	2.800			
G16U	4	1590	75.000	1	1.200	x	2.700	SWS20190ZZ	12140-61G50	
				2	1.200	x	3.000	777		
				O1	2.500	x	2.450			
H25A	6	2494	84.000	1	1.200	x	2.900	SWS20207ZZ	12140-86FA0	ESCUDO
				2	1.500	x	3.550	NEW 777		
				O1	2.500	x	2.850			
H27A	6	2737	88.000	1	1.200	x	3.300	SWS20210ZZ	12140-52D00	XL-7
				2	1.200	x	3.300	777		
				O1	2.000	x	2.850			
J18A	4	1840	84.000	1	1.200	x	2.900	SWS20178ZZ	12140-86FA0	AERIO
J20A	4	1995		2	1.500	x	3.550	777		ESTEEM GRAND VITARA SIDEKICK VITARA
				O1	2.500	x	2.850			
J20B	4	1995	84.000	1	1.200	x	2.500	SWS20216ZZ	12140-65J00	SX-4
				2	1.200	x	3.000	NEW 777		
				O1	2.500	x	2.450			
J24B	4	2393	84.000	1	1.200	x	3.100	SWS20215ZZ	12140-78K00	KIZASHI GRAND VITARA
				2	1.000	x	3.100	NEW 777		
				O1	2.000	x	2.550			
K6A	3	658	68.000	1	1.000	x	2.250	SWS20200ZZ		ALTO JIMNY KEI
				2	1.200	x	2.500	777		
				O1	2.000	x	2.300			
K6A	4	658	68.000	1	1.000	x	2.250	SWS20206ZZ	112140-73G01-000	
				2	1.200	x	2.500	777		
				O1	2.000	x	2.300			
K12A	1		71.000	1	1.000	x	2.500	YWS20169ZZ	12140-75F30-000	
				2	1.200	x	2.800	777		
				O1	2.000	x	2.500			
K12A	4		71.000	1	1.000	x	2.500	SWS20205ZZ	12140-75F30-000	
				2	1.200	x	2.800	777		
				O1	2.000	x	2.500			

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SUZUKI GASOLINE ENGINE										
KL5J	4	1998	86.100	1 2 O1		x		NA 777	-	FORENZA
KL5V	6	2492	77.000	1 2 O1		x		NA 777	-	VERONA
L50	2	360	61.000	1 2 O1	2.000	x	2.200	SMS20050ZZ DISCONTINUED 300X	12140-63850 12140-67811	
L60	2	550	68.000	1 2	1.200 2.000	x	2.650 2.600	SBS20079ZZ DISCONTINUED 300 1st-HKS 2nd-HKS	12140-67820	
M13A	4	1328	78.000	1 2 O1	1.200 1.500 2.800	x	2.850 3.200 2.600	SWS20199ZZ 777		
M15A	4	1490	78.000	1 2 O1	1.200 1.200 2.500	x	2.850 3.300 2.850	SWS20196ZZ 777		
SR413	3	1298	74.000	1 2 O1	1.200 1.200 2.500	x	2.700 3.200 2.850	SWS20185ZZ 777	12140-63E50	SWIFT
SR413	4	1298	74.000	1 2 O1	1.200 1.200 2.500	x	2.700 3.200 2.850	SWS20186ZZ 777	12140-63E50	SWIFT
SS80	3	800	68.500	1 2 O1	1.500 1.500 2.800	x	2.800 2.800 2.800	SWS20120ZZ 777	12140-78410 12140-78411	
ST20 ST30	3	539	61.000	1 2	1.200 2.000	x	2.450 2.600	SBS20078ZZ 300 1st-HKS 2nd-HKS	12140-63871 12140-67011	
Y3AB	3	-	62.000	1 O1	1.500 2.800	x	2.500 2.750	SWS20121ZZ 777	12140-84010	
Y64 Y65	3	800	68.500	1 2 O1	1.500 1.500 2.800	x	2.800 2.800 2.800	SWS20120ZZ 777	12140-78410 12140-78411	
Y134	3	356	52.000	1 2	2.500 2.000	x	2.100 2.100	SMS20045ZZ DISCONTINUED 300X 1st-HKS 2nd-HKS	12140-70013	
YF1	3	066	65.000	1 2 O1	1.000 1.200 2.000	x	2.300 2.700 2.500	SWS20151ZZ DISCONTINUED 777	12140-70G00	

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1A 1AC	4	1452	77.500	1	1.500	x	3.300	SWT10078ZZ	13011-15010	TERCEL	
					2	1.500	x	3.400	SWT10078ZX		13011-15011
					O1	2.800	x	2.800	777		13011-15020
									777		13011-15021
								777	13011-15031		
1A 1AC	4	1452	77.500	1	1.500	x	2.850	SWT10078ZX	13011-15010	TERCEL	
					2	1.500	x	3.400			13011-15011
					O1	2.800	x	2.850	777		13011-15020
									SS999		13011-15021
									13011-15031		
1ARFE	4	2671	90.000	1	1.000	x	2.900	SDT10205ZZ	13011-36020	RX270	
					2	1.000	x	2.700	NEW		13011-36030
					O1	2.000	x	2.750	555		13011-36040
1AZ 1AZFE	4	1998	86.000	1	1.200	x	2.900	SWT10176ZY	13011-28130	RAV4	
					2	1.200	x	2.900			
					O1	3.000	x	2.750	777		
1C 1CL	4	1839	83.000	1	2.000	x	3.100	SWT10110ZZ		COROLLA	
					2	2.000	x	3.500			
					O1	3.000	x	3.250	777		
1CLC 1CLTC	4	1839	83.000	1	2.000	x	3.600	SDT10081ZZ	13011-64070		
					2	2.000	x	3.800	SDT10081ZX		
					O1	3.000	x	4.000	555		
1EL	4	1000	70.500	1	1.500	x	2.700	SWT10104ZZ	13011-10080		
					2	1.500	x	2.900			
					O1	3.000	x	3.050	777		1st-IB
1F 1FZFE	6	4476	100.000	1	2.000	x	3.500	SWT10168ZZ	13011-66020	LANDCRUSIER	
		4477			2	2.000	x	3.800			
					O1	4.000	x	3.300	777		
1ZFTE	6	4476	100.000	1	1.750	x	3.700	SWT10184ZZ	13011-66021	LX450 LANDCRUISER	
		4477			2	2.000	x	3.800			
					O1	4.000	x	3.300	777		
1G	6	1988	75.000	1	1.500	x	3.250	SWT10073ZZ	13011-70010		
					2	1.500	x	3.400			
					O1	4.000	x	4.000	777		
1GE	6	1988	75.000	1	1.500	x	3.250	SXT10073ZZ	13011-70030		
					2	1.500	x	3.400	DISCONTINUED		
					O1	4.000	x	3.000	Mt.777		
1GFEE	6	1988	75.000	1	1.200	x	2.500	SWT10170ZZ	13011-70110		
					2	1.200	x	2.800			
					O1	3.000	x	2.800	777		
1GG	6	1988	75.000	1	1.200	x		SWT10218ZZ	13011-70040		
					2	1.500	x		DISCONTINUED		13011-70061
					O1	4.000	x		777		13011-70070
1GGEU	6	1988	75.000	1	1.200	x		SDT10212ZZ	13011-88300		
					2	1.500	x		DISCONTINUED		
					O1	2.800	x		777		
1GR	6	3956	94.000	1	1.200	x	3.250	SWT10195ZZ			
					2	1.200	x	3.400			
					O1	2.000	x	2.800	555		

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1JZ	6	2500	86.000	1	1.500	x	3.250	SWT10216ZZ	13011-46030	
				2	1.500	x	3.600	DISCONTINUED		
				O1	4.000	x	2.800	777		
1M 1MZFE	6	2959	87.500	1	1.200	x	2.900	SWT10177ZZ	13011-20020	AVALON CAMRY ES300 RX300
				2	1.200	x	3.300	777	13011-20022	
				O1	3.000	x	2.850			
1MZFE	6	2959	87.500	1	1.200	x	2.900	SWT10177ZZ	13011-0A010	AVALON CAMRY CAMRY SOLALA HIGHLANDER SIENNA ES300 RX300
				2	1.200	x	3.300	777	13011-0A020	
				O1	3.000	x	2.850			
1NT	4	1453	74.000	1	1.500	x	2.700	SWT10117ZZ	13011-55010	
				2	1.500	x	3.200		13011-55011	
				O1	3.000	x	2.800			
1NZFE	4	1496	75.000	1	1.200	x	2.500	SWT10192ZZ	13011-21040	ECHO xA = IOS xB = BB
				2	1.200	x	2.800	777		
				O1	2.000	x	2.200			
1NZFXE	4	1496	75.000	1	1.200	x	2.500	SDT10222ZZ	13011-21030	PRIUS CONCEPT
				2	1.200	x	2.800	NEW	13011-21070	
				O1	2.000	x	2.750	555		
1NZFXE	4	1496	75.000	1	0.800	x	2.500	SWT10229ZY	13011-21100	PRIUS CONCEPT
				2	1.000	x	2.300	NEW		
				O1	1.500	x	2.100	777		
1RE	4	1998	86.000	1	1.750	x	3.300	SWT10125ZZ	13011-75020	
				2	1.500	x	3.600	777		
				O1	4.000	x	3.250			
1RZ	4	1998	86.000	1	1.750	x	3.300	SWT10125ZZ	13011-75020	
				2	1.500	x	3.600	777		
				O1	4.000	x	3.250			
1SL 1SU	4	1832	80.500	1	1.500	x	3.300	SWT10080ZZ	13011-63010	
				2	1.500	x	3.650	777	13011-63011	
				O1	4.000	x	3.250		13011-63020 13011-63030 13011-63031	
1SZ	4	997	69.000	1	1.200	x	2.250	SWT10201ZZ	13011-23040	VITZ
				2	1.200	x	2.800	777		
				O1	2.000	x	2.200			
1TR	4	1998	86.000	1	1.200	x	2.700	SDT10185ZZ	13011-75100	
				2	1.200	x	3.100	555		
				O1	2.000	x	2.750			
1TR For Leaded Gasoline	4	1998	86.000	1	1.200	x	2.700	SDT10185ZY	13011-75120	
				2	1.200	x	3.100	SDT10185ZZ		
				O1	2.000	x	2.750	555		
1URFFV 1URFSE	8	4608	94.000	1	1.200	x	2.900	SDT10204ZZ	13011-38080	LANDCRUISER GS460
				2	1.200	x	2.900	NEW	13011-38081	
				O1	2.000	x	2.750	555		

EXPORT PISTON RINGS



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1UZFE	8	3969	87.500	1	1.500	x	3.100	SWT10147ZZ	13011-50040	LS400 SC400
				2	1.500	x	3.800	777		
				O1	3.000	x	2.850	NA		
1UZFE	8	3969	87.500	1		x		NA	13011-50080	LS400 SC400
				2		x		777		
				O1		x		NA		
1UZFE	8	3969	87.500	1		x		NA	13011-50110	LS400 SC400
				2		x		777		
				O1		x		NA		
1UZFE	8	3969	87.500	1		x		NA	13011-50120	GS400 SC400
				2		x		777		
				O1		x		NA		
1Y	4	1626	86.000	1	1.500	x	3.500	SWT10090ZZ	13011-71010	
				2	1.500	x	4.000	SWT10090ZY	13011-71020	
				O1	4.000	x	3.250	777	13011-71030	
1Y	4	1626	86.000	1	1.500	x	3.500	SWT10090ZY	13011-72020	
				2	1.500	x	4.000	777		
				O1	4.000	x	3.250	777		
1ZZFE	4	1794	79.000	1	1.200	x	2.650	SWT10183ZZ	13011-0D010	CELICA COROLLA MR2 SPYDER
				2	1.200	x	3.200	777	13011-22040	
				O1	3.000	x	2.550	777	13011-22090	
2A	4	1295	76.000	1	2.000	x	3.700	SXT10068ZZ	13011-14010	TERCEL
				2	2.000	x	3.700	DISCONTINUED	13011-14020	
				O1	4.000	x	3.000	Mt.777	13011-14021	
2A	4	1295	76.000	1	2.000	x	3.700	SWT10068ZX	13011-14010	TERCEL
				2	2.000	x	3.700	777	13011-14020	
				O1	4.000	x	3.000	SS999	13011-14021	
2ARFE	4	2493	90.000	1	1.000	x	2.900	SDT10205ZZ	13011-36050	ES IS
				2	1.000	x	2.700	NEW	13011-36060	
				O1	2.000	x	2.750	555	13011-36070 13011-36080 13011-36090	
2AZFE	4	2362	88.500	1	1.200	x	2.700	SDT10172ZZ	13011-28100	
				2	1.200	x	3.100	555	13011-28141	
				O1	2.000	x	2.750	555		
2AZFE	4	2362	88.500	1	1.200	x	2.700	SWT10182ZZ	13011-23100	CAMRY CAMRY SOLALA HIGHLANDER RAV4
				2	1.200	x	3.200	777	13011-28101	
				O1	2.000	x	2.500	777		
2AZFSE	4	2362	88.500	1	1.200	x	2.700	SDT10187ZZ	13011-28180	
				2	1.200	x	2.900	DISCONTINUED		
				O1	2.000	x	2.750	555		
2CTLG	4	1974	86.000	1	2.000	x		SWT10146ZZ	13011-64150	CAMRY
				2	2.000	x		DISCONTINUED		
				O1	4.000	x		777		

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TOYOTA GASOLINE ENGINE										
2EL 2ELu	4	1295	73.000	1 2 O1	1.500 1.500 3.000	x x x	2.700 3.100 2.950	SWT10105ZZ 777	13011-11040 13011-11041 13011-11060 13011-11061	COROLLA
2F	6	4230	94.000	1 2 O1	2.000 2.500 4.000	x x x	4.200 4.200 3.900	SXT10049ZZ SWT10049ZZ Mt.777 All Plt	13011-61010	LANDCRUISER (Forklift)
2F	6	4230	94.000	1 2 O1	2.000 2.500 4.000	x x x	4.200 4.200 3.850	SWT10049ZZ 777	13011-76012-71 13011-76012-71	LANDCRUISER (Forklift)
2GR-FSE	6		94.000	1 2 O1	1.200 1.200 2.000	x x x	2.900 2.900 2.750	SDT10194ZY 555	13011-31140	
2JZGE 2JZGTE	6	2997	86.000	1 2 O1	1.500 1.500 4.000	x x x	3.300 3.800 2.850	SWT10134ZZ 777	13011-46041 13011-46050	GS300 IS300 SC300 SUPRA
2K	4	1000	72.000	1 2 O1	2.000 2.000 4.000	x x x	3.400 3.400 3.800	SWT10029ZZ 777	13011-12010 13011-12030 13011-12031	
2M	6	2253	75.000	1 2 O1	2.000 2.000 4.000	x x x	3.600 3.600 3.150	SXT10004ZZ Mt.777	13011-41011 13011-41015 13011-41040	CORONA
2MZFE	6	3311	92.000	1 2 O1		x x x		NA Mt.777	-	CAMRY CAMRY SOLARA
2NZFE	4	1298	75.000	1 2 O1	1.200 1.200 2.000	x x x	2.500 2.800 2.200	SWT10192ZZ Mt.777	13011-21050	IST PORTE VITZ
2NZFE2	4	1298	75.000	1 2 O1	1.200 1.200 3.000	x x x	2.500 2.500 2.500	SWT10192ZZ 777	13011-21060	FUNCARGO VITZ YARIS
2R	4	1490	78.000	1 2 O1	2.000 2.500 4.000	x x x	3.700 3.600 3.600	SWT10014ZZ 777	13011-31010 13011-31030 13011-31040	(Forklift)
2RZFE	4	2438	95.000	1 2 O1	1.500 1.500 4.000	x x x	3.500 3.450 3.050	SWT10139ZZ 777	13011-75040	TACOMA
2S 2SELC 2SELU 2SELC	4	1995	84.000	1 2 O1	1.500 1.500 4.000	x x x	3.500 3.800 3.250	SWT10088ZZ 777	13011-74010 13011-74020 13011-74020 13011-74021 13011-74030 13011-74040	CAMRY CELICA

EXPORT PISTON RINGS



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2T 2TC	4	1588	85.000	1	2.000	x	4.000	SWT10040ZZ	13011-26041	CARINA COROLLA
									13011-27020	
								777	13014-36020	
								SXT10040ZZ		
							SWT10040ZZ			
							Mt.777			
2T 2TC	4	1558	85.000	1	1.500	x	3.800	SWT10059ZZ	13011-28010	CARINA COROLLA
									13011-28011	
								777	13011-28012	
								SXT10059ZZ	13011-28020	
								SWT10059ZZ	13011-28030	
								Mt.777	13011-28050	
								All Plt	13011-28070	
									13011-28071	
	13011-28500									
	13011-28700									
2TR	4	2693	95.000	1	1.200	x	2.900	SDT10193ZZ	13011-75110	HIACE
				2	1.200	x	3.400	SDT10193ZY		
				O1	2.000	x	2.750	555		
2TR For Leaded Gasoline	4	2693	95.000	1	1.200	x	2.900	SDT10193ZY	13011-75130	HIACE
				2	1.200	x	3.400			
				O1	2.000	x	2.750	555		
2TRFFV	4	2693	95.000	1	1.200	x	2.900	SDT10213ZZ	13011-75150	HIACE LANDCRUISER
				2	1.200	x	2.900	NEW		
				O1	2.000	x	2.750	555		
2TZ 2TZFE 2TZFZE	4	2438	95.000	1	1.750	x	3.700	SWT10127ZZ	13011-76010	PREVIA
				2	1.500	x	3.800		13011-76050	
				O1	4.000	x	3.250	777		
2U 2UB 2UC	2	790	83.000	1	2.000	x	3.800	SXT10017ZZ	13011-11010	
				2	2.000	x	3.800	DISCONTINUED	13011-11020	
				O1	4.000	x	3.900	Mt.777	13011-11021	
								All Plt		
2URFSE	8	4968	94.000	1	1.200	x	2.900	SDT10204ZZ	13011-38090	IS-F
				2	1.200	x	2.900	NEW	13011-38110	LS600
				O1	2.000	x	2.750	555		RC F
2UZFE	8	4664	94.000	1	1.500	x	3.300	SWT10203ZZ	13011-50140	LANDCRUISER LX470 SEQUOIA TUNDRA
				2	1.500	x	4.000			
				O1	4.000	x	2.550			
2VZFE	6	2507	87.500	1	1.500	x	3.300	SWT10148ZZ	13011-62040	CAMRY ES250
				2	1.500	x	3.800			
				O1	3.000	x	2.250	777		
2Y	4	1812	86.000	1	1.500	x	3.500	SWT10090ZZ	13011-71010	VAN
				2	1.500	x	4.000	SWT10090ZY	13011-71020	
				O1	4.000	x	3.250	777	13011-71030	
									13011-71040	
2Y	4	1812	86.000	1	1.500	x	3.500	SWT10090ZY	13011-72020	VAN
				2	1.500	x	4.000			
				O1	4.000	x	3.250	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
2ZRFE	4	1798	80.500	1 2 O1	1.000 1.000 1.500	x	2.700 2.500 1.950	SWT1023ZZ NEW 777	13011-37160	COROLLA MATRIX XRS
2ZZEE 2ZZGE	4	1796	82.000	1 2 O1	1.000 1.200 3.000	x	2.850 3.050 3.200	SWT10196ZZ 777	13011-88601	CELICA MATRIX XRS
3A 3AC 3AU	4	1452	77.500	1 2 O1	1.500 1.500 2.800	x	3.300 3.400 2.800	SWT10078ZZ SWT10078ZX 777	13011-15010 13011-15011 13011-15020 13011-15021 13011-15031	TERCEL
3A 3AC 3AU	4	1452	77.500	1 2 O1	1.500 1.500 2.800	x	2.850 3.400 2.850	SWT10078ZX 777 SS999	13011-15010 13011-15011 13011-15020 13011-15021 13011-15031	TERCEL
3E 3EE	4	1456	73.000	1 2 O1	1.500 1.500 3.000	x	2.700 3.100 2.350	SWT10143ZZ SWT10105ZZ 777	13011-11061 13011-11090	TERCEL
3F	6	3995	94.000	1 2 O1	1.500 1.500 4.000	x	3.600 4.000 3.250	SWT10106ZZ 777	13011-61060	
3F 3FE	6	3995	94.000	1 2 O1	2.000 2.000 4.000	x	3.300 4.000 3.250	SWT10151ZZ 777	13011-61062 13011-76013-71	LANDCRUISER
3FE	6	3995	94.000	1 2 O1	2.000 2.000 4.000	x	3.300 4.000 3.300	SWT10140ZZ SWT10151ZZ 777	13011-61062	LANDCRUISER
3K 3KC	4	1166	75.000	1 2 O1	2.000 2.000 4.000	x	3.600 3.600 3.000	SWT10052ZY 777	13011-22011 13011-24010 13011-24011 13011-24012 13011-24020 13011-24030	COROLLA
3MZFE	6	3310	92.000	1 2 O1	1.200 1.200 3.000	x	2.850 3.800 2.550	SWT10228ZZ NEW 777	13011-0A030	CAMRY HIGHLANDER SIENNA
3P	4	1345	76.600	1 2 O1	2.000 2.000 4.000	x	3.500 3.500 3.500	SWT10009ZZ 777	13011-23030	(Forklift)
3R 3RC	4	1897	88.000	1 2 O1	2.500 2.500 5.000	x	4.100 4.100 4.100	SWT10022ZZ 777 All Plt	13011-40010 13011-49010 13011-49021	CORONA
3RZFE	4	2600	95.000	1 2 O1	1.500 1.500 4.000	x	3.500 3.700 3.050	SWT10139ZZ 777	13011-75040 13011-75040A	4 RUNNER T100 TACOMA
3SFE	4	1998	86.000	1 2 O1	1.500 1.500 4.000	x	3.300 3.800 3.100	SWT10149ZZ SWT10090ZY 777	13011-74070A 13011-74072 13011-74090A	CAMRY CELICA RAV4

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3SFE	4	1998	86.000	1	1.200	x	2.900	SWT10162ZZ	13011-74320	RAV4
				2	1.200	x	3.400	SWT10162ZY	13011-74340	
				O1	3.000	x	2.750	777		
3SFE	4	1998	86.000	1	1.200	x	2.900	SWT10162ZY	13011-74320	RAV4
				2	1.200	x	3.400		13011-74340	
				O1	3.000	x	2.850	777		
3SFE	4	1998	86.000	1	1.200	x	2.700	SWT10186ZZ	13011-28120	RAV4
				2	1.200	x	3.100			
				O1	2.000	x	2.500	777		
3SGELC 3SGTE	4	1998	86.000	1	1.200	x	3.300	SWT10141ZZ	13011-88363	CELICA MR2
				2	1.500	x	3.700		13011-88380	
				O1	4.000	x	2.680	777	13011-88381	
3SZVE	4	1495	72.000	1	1.200	x	2.500	SWT10219ZZ	13011-BZ110	AVANZA Bb LITE ACE RUSH TOWN ACE
				2	1.200	x	2.300	NEW	13011-BZ1040	
				O1	2.000	x	2.250	777		
3T 3TC 3TU	4	1770	85.000	1	1.500	x	3.800	SWT10059ZZ	13011-28010	COROLLA
				2	1.500	x	3.800		13011-28011	
				O1	4.000	x	3.250	777	13011-28012	
								SXT10059ZZ	13011-28020	
								SWT10059Z Mt.777 All Plt	13011-28030 13011-28050 13011-28070 13011-28071 13011-28500 13011-28700	
3UZFE	8	4293	91.000	1		x		NA	13011-50170	GS430 LS430 SC430
				2		x				
				O1		x				
3VZE 3VZFE	6	2958	87.500	1	1.500	x	3.300	SWT10144ZZ	13011-62060	4 RUNNER ES300 CAMRY PICKUP T100
				2	1.500	x	3.800			
				O1	4.000	x	2.280	777		
3VZFE	6	2958	87.500	1	1.500	x	3.300	SWT10148ZZ	13011-62040	ES300
				2	1.500	x	3.800			
				O1	3.000	x	2.900	777		
3Y 3YEC	4	1988	86.000	1	1.500	x	3.500	SWT10090ZZ	13011-71010	HILUX VAN
				2	1.500	x	4.000	SWT10090ZY	13011-71012	
				O1	4.000	x	3.250	777	13011-71020 13011-71030 13011-71040 13011-72020	
3Y 3YEC	4	1988	86.000	1	1.500	x	3.500	SWT10090ZY	13011-72020	HILUX VAN
				2	1.500	x	4.000		13011-71012	
				O1	4.000	x	3.250	777	13011-71020 13011-71030 13011-71040 13011-72020	

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3ZZ	4		79.000	1	1.200	x	2.650	SWT10497ZZ		
				2	1.200	x	3.200	DISCONTINUED		
				O1	3.000	x	2.550	777		
4AC	4	1587	81.000	1	1.500	x	3.100	SWT10108ZZ	13011-16011 13011-16032	COROLLA
				2	1.500	x	3.600	777		
				O1	2.800	x	2.250	777		
4AF 4AFE	4	1587	81.000	1	1.500	x	2.700	SWT10142ZZ	13011-16130 13011-16140	CELICA COROLLA
				2	1.500	x	3.400	777		
				O1	3.000	x	2.250	777		
4AFE	4	1587	81.000	1	1.200	x	2.900	SWT10156ZZ	13011-16300	COROLLA
				2	1.500	x	3.400	777		
				O1	3.000	x	2.900	777		
4AG	4	1587	81.000	1	1.200	x	2.900	SWT10156ZZ	13011-16280	
				2	1.500	x	3.400	777		
				O1	3.000	x	2.900	777		
4AGE	4	1587	81.000	1	1.200	x	2.900	SWT10150ZZ	13011-16200	
				2	1.500	x	3.400	777		
				O1	2.800	x	2.800	777		
4AGE 4AGEC 4AGELC 4AGEU	4	1587	81.000	1	1.500	x	3.100	SWT10404ZZ	13011-16050 13011-16070 13011-16090 13011-16170	COROLLA MR2
				2	1.500	x	3.400	SWT10108ZZ		
				O1	2.800	x	2.250	777		
4AGZE	4	1587	81.000	1	1.500	x	3.100	SWT10145ZZ	13011-16090	MR2
				2	1.500	x	3.400	777		
				O1	2.800	x	2.250	777		
4AL 4ALCE	4	1587	81.000	1	1.500	x	3.300	SWT10108ZZ	13011-16010 13011-16011 13011-16031 13011-16032	COROLLA
				2	1.500	x	3.600	777		
				O1	2.800	x	2.850	777		
4AME	6	2563	80.000	1	2.000	x	3.800	SXT10041ZZ	13011-45021	
				2	2.000	x	3.800	Mt.777		
				O1	4.000	x	3.800	777		
4EFE	4	1331	74.000	1	1.200	x	2.700	SWT10128ZZ	13011-11122	COROLLA
				2	1.200	x	3.100	777		
				O1	3.000	x	2.800	777		
4EFE	4	1331	74.000	1	1.200	x	2.700	SWT10164ZZ	13011-11170 13011-11180	
				2	1.200	x	3.100	DISCONTINUED		
				O1	3.000	x	2.750	777		
4K 4KC	4	1290	75.000	1	2.000	x	3.600	SWT10052ZY	13011-13030 13011-22011 13011-24010 13011-24011 13011-24012 13011-24020 13011-24030	COROLLA STARLET
				2	2.000	x	3.600	777		
				O1	4.000	x	3.000	777		
4KE 4KU	4	1290	75.000	1	1.500	x	3.100	SWT10109ZZ	13011-13010	COROLLA STARLET
				2	1.500	x	3.400	777		
				O1	4.000	x	3.000	777		

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4M 4ME	6	2563	80.000	1	2.000	x	3.800	SXT10041ZZ	13011-45021	CORONA CRESSIDA SUPRA
				2	2.000	x	3.800		13011-45040	
				O1	4.000	x	3.800	Mt.777		
4P	4	1345	76.600	1	2.000	x	3.500	SWT10009ZZ	13011-23030	(Forklift)
				2	2.000	x	3.500			
				O1	4.000	x	3.500	777		
4R	4	1587	80.500	1	2.000	x	3.800	SHT10015ZZ	13011-32011	
				2	2.500	x	3.800	DISCONTINUED		
				O1	4.000	x	3.800	Mt.500 All Plt		
4S	4	1838	82.500	1	1.500	x	3.100	SWT10123ZZ	13011-74120-1	
				2	1.500	x	3.800		13011-74121-1	
				O1	4.000	x	2.900	777		
4Y	4	2208	91.000	1	1.500	x	3.300	SWT10111ZZ	13011-73020	VAN (Forklift)
4YEC	4	2237		2	1.500	x	3.950		13011-73032	
				O1	4.000	x	3.250	777 1st-IB	13011-73040	
5A	4	1498	78.700	1	1.500	x	2.700	SWT10161ZZ	13011-15050	COROLLA
				2	1.500	x	3.500			
				O1	3.000	x	2.850	777		
5A	4	1498	78.700	1	1.200	x	2.850	SWT10181ZZ	13011-15100	COROLLA
				2	1.500	x	3.500			
				O1	3.000	x	2.850	777		
5EFE	4	1456	74.000	1	1.200	x	2.700	SWT10128ZZ	13011-11140	PASEO TERCEL
				2	1.200	x	3.100		13011-11160	
				O1	3.000	x	2.250	777		
5K	4	1486	80.500	1	1.500	x	3.300	SWT10099ZZ	13011-13040	
				2	1.500	x	3.300		13011-13050	
				O1	4.000	x	3.650	777	13011-13090	
5M 5ME 5MEU	6	2759	83.000	1	2.000	x	3.800	SXT10072ZZ	13011-43010	CRESSIDA SUPRA
				2	2.000	x	3.800	DISCONTINUED	13011-43030	
				O1	4.000	x	3.250	Mt.777 All Plt	13011-43031	
5M 5ME 5MEU	6	2759	83.000	1	2.000	x	3.050	SWT10072ZX	13011-43010	CRESSIDA SUPRA
				2	2.000	x	3.800		13011-43030	
				O1	4.000	x	3.300	777 SS999	13011-43031	
5MEU 5MGE	6	2759	83.000	1	1.500	x	3.500	SWT10079ZZ	13011-42060	CRESSIDA SUPRA
				2	1.500	x	3.800		13011-43050	
				O1	4.000	x	3.300	777	13011-43080	
5P	4	2771	93.000	1	2.500	x	3.800	SWT10048ZZ	13011-96102	(Forklift)
				2	2.500	x	3.800			
				O1	4.000	x	3.900	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
TOYOTA GASOLINE ENGINE										
5R	4	1944	88.000	1 2 O1	2.000 2.500 4.000	x x x	4.200 4.200 3.300	SXT10069ZZ SWT10069ZY Mt.777 All Plt	13011-44010 13011-44011 13011-44030 13011-44031 13011-44032 13011-44040 13011-44041 13011-44042 13011-44060 13011-44061 13011-44062 13011-44063 13011-44073	(Forklift)
5R	4	1944	88.000	1 2 O1	2.000 2.500 4.000	x x x	4.200 4.200 3.300	SWT10069ZZ SWT10069ZY 777 All Plt	13011-44043	(Forklift)
5S 5SFE	4	2164	87.000	1 2 O1	1.500 1.500 4.000	x x x	3.500 3.600 3.050	SWT10133ZZ 777	13011-74150 13011-74261	CAMRY CELICA MR2
5SFE	4	2164	87.000	1 2 O1	1.500 1.500 3.000	x x x	3.500 3.600 3.050	SWT10149ZZ 777	13011-74290	CELICA MR2
5SFE	4	2164	87.000	1 2 O1	1.200 1.200 3.000	x x x	2.900 3.400 2.750	SWT10166ZZ 777	13011-74370	CAMRY CAMRY SOLARA
5SFNE	4	2163	87.000	1 2 O1	1.200 1.200 3.000	x x x	2.900 3.400 2.600	SWT10474ZZ DISCONTINUED 777	13011-74410	
5VZ 5VZFE	6	3378	93.500	1 2 O1	1.500 1.500 4.000	x x x	3.300 4.000 2.850	SWT10178ZZ 777	13011-62110	4 RUNNER T100 TACOMA
6R	4	1700	86.000	1 2 O1	2.000 2.500 4.000	x x x	3.900 3.900 2.680	SWT10019ZZ 777	13011-31010 13011-32021 13011-33020 13011-33022 13011-33030	
7AFE	4	1762	81.000	1 2 O1	1.200 1.500 3.000	x x x	2.900 3.400 2.900	SWT10156ZZ 777	13011-16300 13011-16340	CELICA COROLLA
7K	4	1781	80.500	1 2 O1	1.500 1.500 4.000	x x x	3.100 3.600 2.850	SWT10160ZZ 777	13011-13100	
7KE	4	1781	80.500	1 2 O1	1.500 1.500 4.000	x x x	3.100 3.600 2.550	SWT10469ZY SWT10160ZZ 777	13011-13110 13011-13120	
7MGE	6	2954	83.000	1 2 O1	1.500 1.500 4.000	x x x	3.300 3.700 2.850	SWT10079ZZ 777	13011-42060	GRESSIDA SUPRA

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7MGTE	6	2954	83.000	1	1.500	x	3.300	SWT10115ZZ	13011-42010	SUPRA
				2	1.500	x	3.700	777	13011-42011	
				O1	4.000	x	2.850	1st-Steel		
7R	4	1591	86.000	1	2.000	x	3.900	SWT10019ZZ	13011-31010	CELICA CORONA
8R				2	2.500	x	3.900	777	13011-32021	
8RC				O1	4.000	x	2.680		13011-33020	
					13011-33022					
								13011-33030		
12R	4	1600	80.500	1	2.000	x	3.900	SWT10042ZZ	13011-31050	CORONA
				2	2.000	x	3.900	777	13011-31051	
				O1	4.000	x	3.750		13011-31060	
							13011-31061			
							13011-31070			
							13011-31081			
							13011-31090			
							13011-31091			
							13011-81088			
								13011-81088		
12R	4	1600	80.500	1	2.000	x	3.900	SXT10042ZZ	13011-31050	CORONA
				2	2.000	x	3.900	DISCONTINUED	13011-31051	
				O1	4.000	x	3.750		Mt.777	
					All Plt	13011-31060				
						13011-31061				
						13011-31070				
						13011-31081				
						13011-31090				
						13011-31091				
							13011-81088			
								13011-81088		
12T	4	1588	85.000	1	2.000	x	4.000	SWT10040ZZ	13011-26041	
				2	2.000	x	4.000	777		
				O1	4.000	x	3.250			
12T	4	1588	85.000	1	2.000	x	4.000	SXT10040ZZ	13011-27020	
				2	2.000	x	4.000	SWT10040ZZ		
				O1	4.000	x	3.250		Mt.777	
12TU	4	1588	85.000	1	1.500	x	3.800	SWT10059ZZ	13011-28010	
		2		1.500	x	3.800	777	13011-28011		
13TU	4	1770	O1	4.000	x	3.250		13011-28020		
									13011-28030	
								13011-28071		
16R	4	1808	88.500	1	2.000	x	4.200	SJT10043ZZ	13011-38040	
18R		1968		2	2.500	x	4.200	SWT10043ZZ		
				O1	4.000	x	4.000		Mt.555	
							2nd ESUC			
							All Plt			
18RC	4	1968	88.500	1	2.000	x	4.200	SWT10043ZZ	13011-38020	CELICA CORONA PICKUP
				2	2.500	x	4.200	777		
				O1	4.000	x	3.180			

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TOYOTA GASOLINE ENGINE										
19R	4		88.500	1 2 O1	2.000 2.500 4.000	x	4.200 4.200 4.000	SJT10043ZZ SWT10043ZZ Mt.555 2nd ESUC All Plt	13011-38040	
20R	4	2189	88.500	1 2 O1	2.000 2.500 4.000	x	4.200 4.200 3.900	SWT10043ZZ 777	13011-30030 13011-34012 13011-34013 13011-34020	CELICA CORONA CRESSIDA PICKUP
				1 2 O1	2.000 2.500 4.000	x	4.200 4.200 3.850	SXT10043ZZ SWT10043ZZ Mt.777 All Plt	13011-34021 13011-34022 13011-34023 13011-34030 13011-34050 13011-38010 13011-38020 13011-38040 13011-38060	
20R	4	2189	88.500	1 2 O1 O2	2.000 2.500 4.000 4.000	x	4.200 4.200 4.100 4.000	SJT10063ZZ Mt.555 All Plt	13011-38030	CRESSIDA
21R	4	1972	84.000	1 2 O1	2.000 2.000 4.000	x	4.000 4.000 3.200	SXT10067ZZ Mt.777 All Plt	13011-37010	
21R	4	1972	84.000	1 2 O1	1.500 2.000 4.000	x	3.500 4.000 3.200	SWT10076ZZ Mt.777 All Plt	13011-37030 13011-37050 13011-37060	CRESSIDA
21R 21RC	4	1972	84.000	1 2 O1	1.500 1.500 4.000	x	3.100 3.800 3.050	SWT10102ZZ 777	13011-37070 13011-37071	CRESSIDA
22R 22REC	4	2366 2367	92.000	1 2 O1	2.000 2.500 4.000	x	4.200 4.200 3.250	SWT10077ZX 777 SS999	13011-35010 13011-35020 13011-35030	4 RUNNER CELICA CORONA CRESSIDA PICKUP
22R 22RE 22REC 22RTEC	4	2366 2367	92.000	1 2 O1	1.500 1.500 4.000	x	3.300 4.000 3.300	SWT10103ZZ 777	13011-35040 13011-35050 13011-35052 13011-35060 13011-35061 13011-35070 13011-35071	4 RUNNER CRESSIDA PICKUP
F	6	3878	90.000	1 2 O1 O2	3.000 3.000 4.000 4.000	x	3.700 3.700 3.700 3.700	SNT10026ZZ DISCONTINUED 500X	13011-60011	LANDCRUISER

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F	6	3878	90.000	1	3.000	x	3.700	SWT10026ZZ	13011-69021	LANDCRUISER
				2	3.000	x	3.700	777		
				O1	4.000	x	3.700			
				O2	4.000	x	3.700			
F	6	3878	90.000	1	2.000	x	4.000	SCT10044ZZ	13011-60040	LANDCRUISER (Forklift)
				2	2.500	x	4.000	DISCONTINUED		
				O1	4.000	x	4.000	500		
				O2	4.000	x	4.000			
F	6	3878	90.000	1	2.000	x	4.000	SWT10044ZZ	13011-60040	LANDCRUISER (Forklift)
				2	2.500	x	4.000	777		
				O1	4.000	x	4.000			
				O2	4.000	x	4.000			
K	4	1077	75.000	1	2.000	x	3.600	SWT10052ZY	13011-22011 13011-24010 13011-24011 13011-24012 13011-24020 13011-24030	COROLLA
				2	2.000	x	3.600	777		
				O1	4.000	x	3.000			
K3-VE	4	1988	72.000	1	1.200	x	2.300	SWT10220ZZ	13011-BZ010	
				2	1.200	x	2.600	777		
				O1	2.000	x	2.250			
M	6	1988	75.000	1	2.000	x	3.600	SXT10004ZZ	13011-41011 13011-41015 13011-41040	
				2	2.000	x	3.600	Mt.777		
				O1	4.000	x	3.150			
T	4	1407	80.000	1	2.000	x	3.800	SWT10039ZZ	13011-25010 13011-25020 13011-25032 13011-25041	
				2	2.000	x	3.800	777		
				O1	4.000	x	3.750			
TU	4	1407	80.000	1	1.500	x	3.800	SXT10060ZZ	13011-25033 13011-25042	
				2	2.000	x	3.800	Mt.777		
				O1	4.000	x	3.750			

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
TOYOTA DIESEL ENGINE										
1C 1CL 1CLC 1CLTC	4	1839	83.000	1 2 O1	2.000 2.000 4.000	x x x	3.300 3.800 4.000	SDT10081ZZ SDT10081ZX 555 1st-HKS All Plt	13011-64010 13011-64020 13011-64040 13011-64070 13011-64080	CAMRY COROLLA CORONA
1C 1CL 1CLC 1CLTC	4	1839	83.000	1 2 O1	2.000 2.000 4.000	x x x	3.050 3.800 4.350	SDT10081ZX 555 1st-HKS SS999	13011-64010 13011-64020 13011-64040 13011-64070 13011-64080	CAMRY COROLLA CORONA
1C	4	1839	83.000	1 2 O1	2.000 2.000 3.000	x x x	3.300 3.500 3.250	SDT10110ZZ 555	13011-64220	
1CD-A	4	1995	82.200	1 2 O1	2.000 1.500 3.000	x x x	2.850 2.700 3.100	SDT10214ZZ NEW 555	13011-27040	AVANCIS COROLLA
1CD-FTV	4	1995	82.200	1 2 O1	2.000 1.500 3.000	x x x	3.050 3.500 3.750	SDT10206ZZ 555	13011-27030	AVANCIS COROLLA
1DZ	4	2184	86.000	1 2 O1	2.000 2.000 4.000	x x x	3.100 3.600 4.350	SDT10159ZZ 555	13011-78201	(Forklift)
1DZ	4	2184	86.000	1 2 O1	2.000 2.000 4.000	x x x	3.050 3.600 4.150	SDT10191ZZ 555	13011-78200-71	
1HD-FTE	4	4163	94.000	1 2 O1	2.000 1.500 4.000	x x x	3.300 3.300 4.350	SDT10210ZZ NEW 555	13011-17040	COASTER LANDCRUISER
1HZ	6	4163	94.000	1 2 O1	2.000 2.000 4.000	x x x	3.500 4.000 4.250	SDT10163ZZ 555	13011-17010	
1KD	4	2982	96.000	1 2 O1	2.000 1.500 3.000	x x x	3.300 3.300 3.000	SDT10175ZY 555	13011-20022 13011-30020 13011-30021 13011-30040 13011-30050 13011-30051	
1KZ	4	2982	96.000	1 2 O1	2.000 2.000 3.000	x x x	3.350 3.650 2.350	SDT10137ZY 555 1st-HKS	13011-67030	
1ND	4	1362	73.000	1 2 O1	1.500 1.500 3.000	x x x	2.450 2.450 3.250	SDT10202ZZ DISCONTINUED 555		PROBOX VAN SCCEED VAN
1PZ	5		94.000	1 2 O1	2.000 2.000 4.000	x x x	3.500 4.000 4.350	SDT10190ZZ 555	13011-18030	
1TR	4	1998	86.000	1 2 O1	1.200 1.200 2.000	x x x	2.700 3.100 2.750	SDT10185ZZ 555	13011-75100	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
1W	4	4000	104.000	1	2.500	x	4.300	SDT10209ZZ	13011-78010	DYNA TOYOACE
				2	2.000	x	4.300	NEW		
				O1	5.000	x	4.700	555		
1Z	4	2977	96.000	1	2.000	x	3.500	SDT10158ZZ	13011-78300	(Forklift)
				2	2.000	x	4.400			
				O1	4.000	x	3.950	555		
2AZFE 2AZFSE	4	2362	88.500	1	1.000	x	2.700	SDT10200ZZ	13011-28160 13011-28161 13011-28190 13011-28240 13011-0H040 13011-0H041	CAMRY COROLLA HS 250 HYBRID RAV4 xB tC
				2	1.000	x	2.700	NEW		
				O1	2.000	x	2.750	555		
2B	4	3168	98.000	1	2.540	x	4.100	SJT10084ZZ	13011-57010	DYNA
				2	2.500	x	4.300			
				O1	4.500	x	4.400	Mt.555 1st-HKS All Plt		
2C	4	1974	86.000	1	2.000	x	3.300	SDT10096ZZ	13011-64060 13011-64110	CORONA
				2	2.000	x	3.900	SDT10096ZX		
				O1	4.000	x	4.000	555 All Plt		
2C	4	1974	86.000	1	2.000	x	3.050	SDT10096ZX	13011-64060 13011-64110	CORONA
				2	2.000	x	3.600			
				O1	4.000	x	4.350	555 SS999		
2C	4	1974	86.000	1	1.750	x	2.900	SDT10152ZZ	13011-64170	CORONA
				2	2.000	x	3.600			
				O1	3.000	x	3.050	555		
2C	4	1974	86.000	1	2.000	x	3.100	SDT10155ZZ	13011-64190	CORONA
				2	2.000	x	3.600			
				O1	3.000	x	3.050	555		
2C	4	1974	86.000	1	2.000	x	3.100	SWT10155ZZ	13011-64190	CORONA
				2	2.000	x	3.600	DISCONTINUED		
				O1	3.000	x	3.100	777		
2D	6	6494	105.000	1	3.000	x	4.200	SJT10028ZZ	13011-77010 13011-77020 13011-77021 13011-77022 13011-77023	
				2	3.000	x	4.200			
				3	3.000	x	4.200			
				O1	5.000	x	4.600	Mt.555		
				O2	5.000	x	4.200			
2D	6	6494	105.000	1	3.000	x	4.200	SJT10065ZZ	13011-77024	
				2	3.000	x	4.200			
				3	3.000	x	4.200			
				O1	5.000	x	4.600	Mt.555 All Plt		
2D	6	6494	105.000	1	3.050	x	4.000	SJT10074ZZ	13011-77040 13011-77041	
				2	2.500	x	4.400			
				3	2.500	x	4.400			
				O1	5.000	x	4.600	Mt.555 1st-HKS All Plt		

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TOYOTA DIESEL ENGINE											
2H	6	3980	91.000	1	2.540	x	4.000	SDT10107ZZ	13011-31960	LANDCRUISER (Forklift)	
				2	2.500	x	4.000	555 1st-HKS All Plt			
				3	2.000	x	4.000				
				O1	4.000	x	4.200				
2H	6	3980	91.000	1	2.540	x	4.000		SDT10075ZZ	13011-68010	LANDCRUISER
				2	2.500	x	4.000	SDT10075ZX	13011-68020		
				O1	4.000	x	4.200	555 1st-HKS All Plt	13011-96601		
2H	6	3980	91.000	1	2.540	x	4.000	SDT10075ZX	13011-68010	LANDCRUISER	
				2	2.500	x	4.000	555 1st-HKS SS999	13011-68020		
				O1	4.000	x	4.350		13011-96601		
2J	4	2481	88.000	1	2.500	x	3.800		SCT10024ZZ	13011-46021	
				2	2.500	x	3.800	555			
				3	2.500	x	3.800				
				O1	4.000	x	3.800				
				O2	4.000	x	3.800				
2J	4	2481	88.000	1	2.540	x	3.800	SDT10045ZZ	13011-48013	TOYOACE (Forklift)	
				2	2.500	x	3.800	SDT10045ZX	13011-48021		
				3	2.500	x	3.800	555 1st-HKS			
				O1	4.000	x	4.200				
2J	4	2481	88.000	1	2.540	x	3.800	SDT10045ZX	13011-48013	TOYOACE (Forklift)	
				2	2.500	x	3.800	555	13011-48021		
				3	2.500	x	3.800	1st-HKS			
				O1	4.000	x	4.350	SS999			
2J	4	2481	88.000	1	2.540	x	3.800	SJT10050ZZ	13011-48022	TOYOACE	
				2	2.500	x	3.400	Mt.555 1st-HKS All Plt	13011-48023		
				O1	4.000	x	4.200		13011-48030		
2KD-FTV	4	2494	92.000	1	2.000	x	2.900		SDT10180ZZ	13011-30030	
				2	1.500	x	2.900	555	13011-30031		
				O1	3.000	x	3.000				
2KD-FTV	4	2494	92.000	1	2.000	x	2.900		SDT10180ZY	13011-30030	HIACD (EXPORT)
				2	1.500	x	2.900	SDT10180ZZ	13011-30031		
				O1	3.000	x	3.000	555			
2KD-VNT	4	2494	92.000	1	2.000	x	2.900	SDT10207ZZ	13011-30120	HI ACE	
				2	1.500	x	2.900	NEW			
				O1	3.000	x	3.000	555			
2L 2LT 2LTE	4	2446	92.000	1	2.000	x	3.350	SDT10089ZZ	13011-54050	COROLLA PICKUP	
				2	2.000	x	4.050	555 1st-HKS All Plt	13011-54060		
				O1	4.000	x	4.300		13011-54061		
									13011-54062		
2NZFE	4	1298	75.000	1	1.200	x	2.500	SWT10211ZZ	13011-21060	FUNCARGO VITZ YARIS	
				2	1.200	x	2.500	NEW			
				O1	3.000	x	2.550	555			

EXPORT PISTON RINGS



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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
TOYOTA DIESEL ENGINE											
2TR	4		95.000	1	1.200	x	2.900	SDT10193ZY	13011-75110		
					2	1.200	x				3.400
					O1	2.000	x				2.750
								555			
2Z	4	-	98.000	1	2.000	x	3.500	SDT10179ZZ	13011-78700		
					2	2.000	x				4.300
					O1	4.000	x				4.350
								555			
3B	4	3431	102.000	1	2.540	x	4.300	SJT10087ZZ	13011-58010 13011-58011	DYNA	
					2	2.500	x				4.400
					O1	4.500	x				4.400
								Mt.555 1st-HKS All Plt			
3CT	4	2184	86.000	1	2.000	x	3.100	SDT10159ZZ	13011-78201		
					2	2.000	x				3.750
					O1	4.000	x				4.000
								555			
3L	4	2779	96.000	1	2.000	x	3.354	SDT10124ZY	13011-54120		
					2	2.000	x				4.200
					O1	4.000	x				4.350
								555 1st-HKS			
4GR-E30	4	2499	83.000	1	1.200	x	2.700	SDT10225ZZ	13011-31220 13011-31260 13011-31270	CROWN IS 250 MARK X	
					2	1.200	x				2.700
					O1	2.000	x				2.750
								NEW 555			
5L	4	3000	99.500	1	2.000	x	3.600	SDT10167ZZ	13011-54130		
					2	1.500	x				3.700
					O1	4.000	x				4.350
								555			
11B	4	2977	95.000	1	2.500	x	3.500	SDT10154ZZ	13011-56040		
					2	2.000	x				4.300
					O1	4.000	x				2.400
								555 1st-HKS			
11B	4	2977	95.000	1	2.500	x	3.700	SDT10157ZZ	13011-56030		
					2	2.000	x				4.300
					O1	4.500	x				4.300
								555			
12HT	6	3980	91.000	1	2.500	x	3.500	SDT10112ZZ	13011-68030		
					2	2.500	x				4.000
					O1	4.000	x				4.200
								555 1st-KSGN			
13B	4	3431	102.000	1	2.500	x	4.100	SDT10136ZZ	13011-58030		
					2	2.500	x				4.300
					O1	4.500	x				4.600
								SDT10136ZX 555			
13B	4	3431	102.000	1	2.500	x	4.100	SDT10136ZX	13011-58030	DYNA TOYOACE	
					2	2.500	x				4.300
					O1	4.500	x				4.600
								555 SS999			
13B-T	4	3431	102.000	1	2.500	x	4.100	SDT10217ZZ	13011-58040	LANDCRUISER	
					2	2.500	x				4.300
					O1	4.500	x				4.600
								NEW 555			
14B	4	3700	102.000	1	2.500	x	3.700	SDT10135ZZ	13011-58050		
					2	2.000	x				4.300
					O1	4.000	x				4.350
								555			
15B	4	4104	108.000	1	3.000	x	3.700	SDT10188ZZ	13011-58090		
					2	2.000	x				4.300
					O1	4.000	x				4.400
								555			

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TOYOTA DIESEL ENGINE										
15B	4	4104	108.000	1	3.000	x	3.700	SDT10189ZZ	13011-58110	
				2	2.000	x	3.800			
				O1	4.000	x	4.400	555		
B	4	2977	95.000	1	2.500	x	4.300	SJT10071ZZ	13011-56010	LANDCRUISER
				2	2.500	x	4.300			
				3	2.500	x	4.300	Mt.555		
				O1	4.500	x	4.300			
B	4	2977	95.000	1	2.500	x	4.300	SDT10058ZZ	13011-56011	
				2	2.500	x	4.300			
				3	2.500	x	4.300	555		
				O1	4.500	x	4.300	1st-HKS		
B	4	2977	95.000	1	2.540	x	4.100	SJT10070ZZ	13011-56012 13011-56013 13011-56021 13011-56022	LANDCRUISER
				2	2.500	x	4.300			
				O1	4.500	x	4.300	Mt.555 1st-HKS All Plt		
B	4	2977	95.000	1	2.500	x	3.500	SDT10154ZZ	13011-56040	
				2	2.000	x	4.300			
				O1	4.000	x	2.400	555 1st-HKS		
H	6	3756	88.000	1	2.500	x	3.800	SCT10025ZZ	13011-47020	
				2	2.500	x	3.800			
				3	2.500	x	3.800	500		
				O1	4.000	x	3.800			
				O2	4.000	x	3.800			
H	6	3756	88.000	1	2.540	x	3.800	SDT10047ZZ	13011-47021	
				2	2.500	x	3.800			
				3	2.500	x	3.800	555		
				O1	4.000	x	4.200	1st-HKS		
H	6	3756	88.000	1	2.540	x	3.800	SDT10051ZZ	13011-47022 13011-47023	DYNA PICKUP
				2	2.500	x	3.800			
				O1	4.000	x	4.200	NEW 555		
H	6	3756	88.000	1	2.540	x	3.800	SJT10051ZZ	13011-47022 13011-47023	DYNA
				2	2.500	x	4.000			
				O1	4.000	x	4.200	Mt.555 1st-HKS All Plt		
L	4	2188	90.000	1	2.500	x	3.800	SDT10066ZZ	13011-54010 13011-54020 13011-54021	PICKUP
				2	2.000	x	4.000			
				O1	4.000	x	4.200	555		
L	4	2188	90.000	1	2.000	x	3.600	SDT10082ZZ	13011-54030 13011-54031 13011-54040 13011-54041 13011-54042 13011-54080	PICKUP
				2	2.000	x	4.000			
				O1	4.000	x	4.150	555 1st-HKS All Plt		
N04C	4	4009	104.000	1	2.500	x	3.700	SDT10198ZZ	13011-78060	DYNA TOYOACE
				2	2.000	x	4.300			
				O1	4.000	x	4.350	SDT10197ZZ 555		

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TOYOTA DIESEL ENGINE										
S05C	4	4899	114.000	1	3.000	x	4.300	SDT10199ZZ	13011-78031	TOYOACE
				2	2.000	x	4.300			
				O1	4.000	x	4.350	555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
ED6	6	5654	100.000	1	3.000	x	4.200	SDN31016ZZ	12040-Z5027	
				2	2.000	x	4.200	555		
				3	2.000	x	4.200			
				O1	4.500	x	4.500			
ED30	4	2956	98.000	1	3.000	x	4.200	SDN31015ZZ	12033-J2002 12033-J2004 12033-J2006 97011-02139	
				2	2.000	x	4.300	555		
				3	2.000	x	4.300			
				O1	4.500	x	4.250			
ED33	4	3928	100.000	1	3.000	x	4.200	SDN31025ZZ	12033-J6500 12033-J6501 12033-T9000 12033-Z5004	
				2	2.000	x	4.200	555 All Plt		
				O1	4.500	x	4.500			
				1	2.000	x	4.000			
2	2.000	x	4.200	555 All Plt						
O1	4.000	x	4.050							
ED35	4	3465	102.500	1	3.000	x	3.650	SDN31051ZZ	12033-56T10	
				2	2.000	x	4.200	555		
				O1	4.000	x	4.150			
FD6	6	5654	100.000	1	3.000	x	4.200	SDN31016ZZ	12040-Z5001 12040-Z5025 12040-Z5026	
				2	2.000	x	4.200	555		
				3	2.000	x	4.200			
				O1	4.500	x	4.500			
FD6	6	5654	100.000	1	3.000	x	4.200	SDN31029ZZ	12040-Z5028	
				2	2.000	x	4.200	555 All Plt		
				O1	4.500	x	4.500			
				1	3.000	x	4.200			
2	2.000	x	4.200	555 1st-KS All Plt						
3	2.000	x	4.200							
O1	4.500	x	4.500							
FD6T	6	5654	100.000	1	3.000	x	4.200	SDN31021ZZ	12033-Z5502 12033-Z5527	
				2	2.000	x	4.200	555 1st-HKS All Plt		
				3	2.000	x	4.200			
				O1	4.500	x	4.500			
FD6T	6	5654	100.000	1	3.000	x	4.200	SDN31026ZZ	12033-Z5504 12040-Z5528	
				2	2.000	x	4.200	555 1st-HKS All Plt		
				O1	4.500	x	4.500			
				1	3.000	x	4.200			
2	2.000	x	4.200	555						
O1	4.500	x	4.500							
FD35	4	3465	102.500	1	2.000	x	3.900	SDN31045ZZ	12033-01T10	
				2	2.000	x	4.200	555		
				O1	4.000	x	4.150			

UD TRUCKS DIESEL ENGINE

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
FD35T	4	3465	102.500	1	2.000	x	4.200	SDN31057ZZ	12033-01T60	
				2	2.000	x	4.200			
				O1	4.000	x	4.350	555		
FD46	4	4617	108.000	1	3.000	x	4.050	SDN31064ZX	12033-0T010	
				2	2.000	x	4.500	DISCONTINUED		
				O1	4.000	x	4.400	SS999		
FD46 FD46T	4	4617	108.000	1	2.500	x	3.700	SDN30171ZZ	12033-31D03	
				2	2.000	x	4.500	NEW		
				O1	3.000	x	3.150	555		
FE6	6	7000	108.000	1	3.000	x	4.050	SDN31044ZX	12040-Z5504	
				2	2.000	x	4.500	555		
				O1	4.000	x	4.400	SS999		
FE6 FE6T	6	7000	108.000	1	3.000	x	4.300	SDN31036ZY	12040-Z5505	
				2	2.000	x	4.500			
				O1	4.000	x	4.150	555 1st-KS		
FE6TA	6	7000	108.000	1	2.500	x	3.700	SDN31054ZZ	12040-Z5603	
				2	2.000	x	4.500		12040-Z5519	
				O1	4.000	x	4.400	555	12040-Z5560	
									12040-Z5561	
									12040-Z5564	
GE13TD	6	13074	136.000	1	2.500	x	3.700	SDN31063ZZ	12040-00Z07	
				2	2.000	x	3.700			
				O1	3.000	x	3.000	555		
MD92TCI	6		125.000	1	2.500	x	4.350	SDN31053ZY	12040-Z6002	
				2	2.000	x	4.300			
				O1	3.000	x	3.100	555		
ND6 For industrial machine.	6	6842	110.000	1	4.000	x	4.400	SDN31006ZX	12040-95004	
				2	3.000	x	4.400		12040-95006	
				O1	5.000	x	4.700	555 2nd-IC	12040-90127	
ND6T	6	6842	110.000	1	4.000	x	4.400	SDN31017ZZ	12040-90326	
				2	3.000	x	4.400			
				O1	5.000	x	3.500	555		
NE6	6	7000	110.000	1	3.000	x	4.050	SDN31031ZX	12040-95012	
				2	2.500	x	4.000		12040-95013	
				O1	4.000	x	4.350	555 SS999	12040-95014	
									12040-95029	
NF6TA NS6TA	6	9160	120.000	1	3.000	x	4.100	SDN31060ZZ	12040-95501	
				2	2.500	x	4.800			
				O1	4.000	x	4.400	555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
UD TRUCKS DIESEL ENGINE										
PD6	6	10308	125.000	1	5.000	x	5.200	SDN31007ZX	12040-90026	
					2	3.500	x			
				O1	5.000	x	4.950		12040-90125	
									12040-96000	
									12040-96004	
									12040-96007	
									12040-96009	
									12040-96026	
									12040-96127	
									12040-96226	
PD6T	6	10308	125.000	1	4.000	x	5.200	SDN31012ZX	12040-90228	
					2	3.500	x			
				O1	5.000	x	4.950		12040-96005	
									12040-96010	
									12040-96125	
									12040-96129	
PDT	6	10308	125.000	1	4.000	x	5.000	SDN31042ZZ	12040-96013	
					2	3.500	x			
				O1	5.000	x	4.800			
PE6	6	11670	133.000	1	4.000	x	5.200	SDN31011ZZ	12040-90225	
					2	3.500	x			
				O1	6.000	x	5.700		12040-96028	
									12040-96128	
									12040-96500	
									12040-96503	
PE6T	6	11670	133.000	1	4.000	x	5.300	SDN31022ZZ	12040-96225	
					2	3.500	x			
				O1	6.000	x	5.700		12040-96504	
									12040-96509	
									12040-96510	
									12040-96512	
									12040-96513	
PE6T	6	11670	133.000	1	3.000	x	5.200	SDN31041ZZ	12040-96517	
					2	2.500	x			
				O1	4.000	x	4.150			
PF6	6	13000	133.000	1	2.500	x	4.700	SDN31048ZZ	12040-96570	
					2	2.500	x			
				O1	4.000	x	4.050		12040-96564	
RD8	8	14313	135.000	1	4.000	x	5.100	SDN31013ZY	12040-90325	
					2	3.000	x			
				O1	6.000	x	5.700		12040-97008	
									12040-97025	
									12040-97026	
									12040-97028	
									12040-97126	
									12040-97179	
									12040-97226	
									12040-97228	

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME	
RD8T	8	14313	135.000	1	4.000	x	5.500	SDN31018ZZ	12040-97008		
				2	3.000	x	5.500	555 1st-KS	12040-97128		
				O1	6.000	x	5.700				
RD10	10	14313	135.000	1	4.000	x	5.100	SDN31014ZZ	12040-90229		
				2	3.000	x	5.500	555	12040-97007		
				O1	6.000	x	5.700		12040-97025 12040-97125 12040-97127 12040-97227		
RE8	8	14313	135.000	1	3.000	x	5.100	SDN31033ZZ	12040-97074		
				2	3.000	x	5.500	555			
				O1	5.000	x	4.950				
RE10	10	18894	135.000	1	3.000	x	5.100	SDN31058ZZ	12040-97075		
				2	3.000	x	5.500	555			
				O1	5.000	x	4.950				
RF8	8	16991	138.000	1	2.500	x	5.200	SDN31034ZZ	12040-97072		
				2	2.500	x	5.600	555			
				O1	4.000	x	4.650				
RF8T	8	16991	138.000	1	3.000	x	4.700	SDN31068ZZ	12040-97101		
				2	2.500	x	5.600	NEW 555			
				O1	4.000	x	4.050				
RF10	10	16991	138.000	1	2.500	x	4.900	SDN31043ZZ	12040-97078		
				2	2.500	x	5.600	555			
				O1	4.000	x	4.400				
RG8	8	17991	142.000	1	3.000	x	4.700	SDN31059ZZ	12040-97107		
				2	2.500	x	5.800	555			
				O1	4.000	x	4.350				
RH8 RH10	1		150.000	1	3.000	x	4.700	YDN31055ZZ	12040-97105		
				2	2.500	x	5.600	NEW 555	12040-97106		
				O1	4.000	x	4.350				
SD16	3	1600	83.000	1	2.500	x	3.500	SDN31030ZZ	12033-Z7007		
				2	2.000	x	3.400	555 All Plt			
				O1	4.500	x	3.900				
SD20	4	1991	83.000	1	2.500	x	3.300	SJN31003ZZ	12033-37500		
				2	2.000	x	3.400	Mt.555	12033-76201		
				3	2.000	x	3.400		12033-76202		
				O1	4.500	x	3.900		12033-76203		
				O2	4.500	x	3.400		12033-76204		
									12033-V1310		
									12033-Y1400		
				1	2.500	x	3.500		SJN31003ZX		12033-Y1400
				2	2.000	x	3.400		SJN31003ZZ		12033-Y1401
				3	2.000	x	3.400		555		12033-Y1402
				O1	4.500	x	3.900		SS999		12033-Y1403
				O2	4.500	x	3.400				12033-Y1404 12033-Y1410 12033-Y3010

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
UD TRUCKS DIESEL ENGINE										
SD22	4	2164	83.000	1 2 O1	2.500 2.000 4.500	x x x	3.500 3.400 3.900	SDN31027ZZ 555 All Plt	12033-R8100 12033-R8103 12033-R8104 12033-R8110 12033-R8112 12033-R8114	
SD23	4	2289	89.000	1 2 O1	2.500 2.000 4.500	x x x	3.700 3.700 4.200	SDN31023ZZ 555 All Plt	12033-L2000 12033-L2002 12033-L2003 12033-L2004 12033-L2005 12033-L2006	
SD25		2488								
SD33 SD33T	6	3246	83.000	1 2 3 O1 O2	2.500 2.000 2.000 4.500 4.500	x x x x x	3.500 3.400 3.400 3.900 3.500	SJN31004ZZ Mt.555	12033-61500 12033-61502 12033-61503 12033-J2201 12033-J2202 12033-J2203 12033-J2204	
SD33T	6	3246	83.000	1 2 O1	2.500 2.000 4.000	x x x	3.500 3.500 4.000	SDN31028ZZ 555 1st-KS	12033-C8704	
TD23	4	2289	89.000	1 2 O1	2.500 2.000 4.000	x x x	3.700 3.700 4.150	SDN31037ZZ 555	12033-02N00 12033-02N10	
TD25	4	2494 2500	92.900	1 2 O1	2.500 2.000 4.000	x x x	4.000 4.000 4.150	SDN31038ZX 555	12033-44G10	
TD27	4	2663	96.000	1 2 O1	2.500 2.000 4.000	x x x	3.650 4.000 4.350	SDN31035ZX 555 SS999	12033-43G11	
TD27	4	2663	96.000	1 2 O1	2.500 2.000 3.000	x x x	3.650 4.000 3.250	SDN31056ZZ 555	12033-6T010	
TD42	6	4169	96.000	1 2 O1	2.500 2.000 4.000	x x x	3.650 4.000 4.350	SDN31052ZX 555 SS999	12033-06J00 12033-06J01	
TD42T	6	4169	96.000	1 2 O1	2.500 2.000 4.000	x x x	3.700 4.000 3.950	SDN30467ZZ DISCONTINUED 555	12033-05D01	
UD3	3	3076	110.000	1	3.000	x	4.450	SDN31005ZZ	12040-90008	
UD4	4	4941		2	3.000	x	4.450	YDN31005ZZ		
UD5	5	6177		3	3.000	x	4.200	555		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
2H, HT PG, PL RD	4	1786	81.000	1	1.500	x	3.100	SWL02405ZZ	026 198 151 A	CORRADO GOLF JETTA
				2	1.750	x	3.300	NEW #		
				O1	3.000	x	2.900	(SWE50374)		
9A, ABA ADY, AGG BPY	4	1984	82.500	1	1.200	x	3.100	SWL03461ZZ	026 198 151 A	CORRADO GOLF JETTA
				2	1.500	x	3.500	NEW #		
				O1	2.000	x	2.800	(SWE50524)		
AEB, ATW AWM, AWP	4	1781	81.000	1	1.500	x	3.100	SWL03456AA	058 198 181 B	NEW BEETLE PASSAT JETTA
				2	1.750	x	3.500	NEW #		
				O1	2.000	x	2.800	(SWE50744)		
AFH, AFK	4	1390	76.500	1	1.200	x	2.700	SWL03140AA		GOLF LUPO POLO
				2	1.500	x	3.100	NEW #		
				O1	2.500	x	2.800			
ALG	6	2771	82.500	1	1.200	x	3.100	SDL03296AA 6CYL	06A 198 151C	PASSAT
				2	1.500	x	3.500	NEW #		
				O1	2.000	x	2.800	(SWE50525)		
BGP, BGQ BPQ, BPR BPS	5	2480	82.500	1	1.200	x	3.100	SDL03296AA 5CYL	06F 198 151A	GOLF JETTA NEW BEETLE
				2	1.500	x	3.500	NEW #		
				O1	2.000	x	2.800	(SWE50526)		
EGH 3.8	6	3778	96.000	1	1.200	x	3.500	SWC10015ZX	68001386AA	ROUTAN
				2	1.500	x	4.000			
				O1	3.000	x	3.200	777		
EGQ 4.0 EGS 4.0	6	3952	96.000	1	1.200	x	3.500	SWC10013ZZ	4897035AA	ROUTAN
				2	1.500	x	4.000			
				O1	3.000	x	3.450	777		

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ENGINE NUMBER	C Y L	ENGINE SIZE CC	DIA. mm	C M B	B mm	X	T mm	NPR PISTON RING #	PISTON RING REFERENCE #	VEHICLE NAME
VOLKSWAGENDIESEL ENGINE										
1Z BEW BRM	4	1896	79.500	1 2 O1	1.750 2.000 3.000	x x x		SDL03460ZZ NEW # (SDE50454)	044 198 151 044 198 151 C	JETTA NEW BEETLE PASSAT

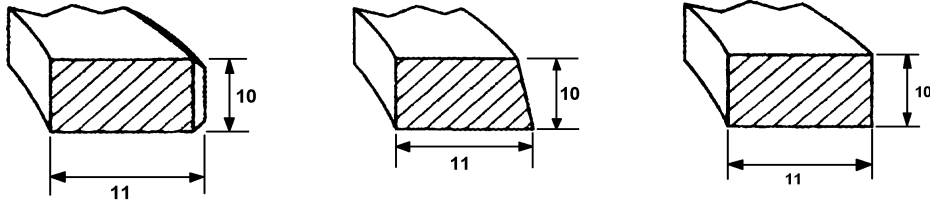
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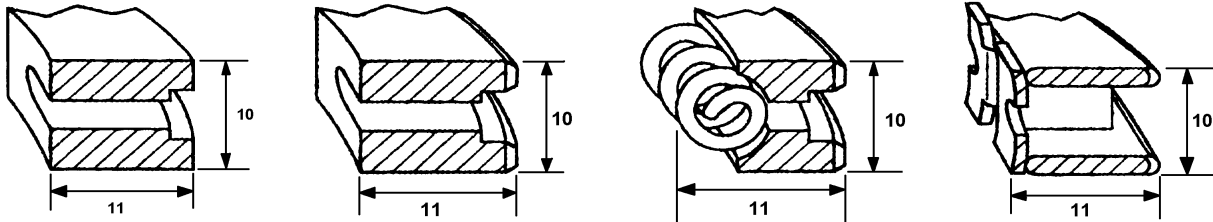
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1	3	4	5	6	8	9			12	14	17	18	19	21
2				7		10	x	11	13	15	16			20

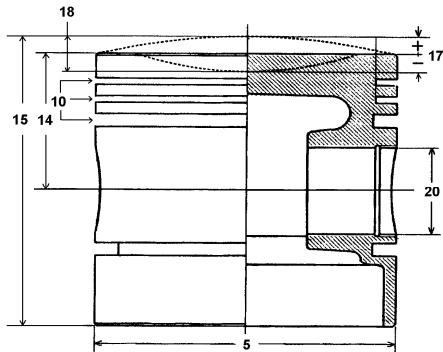
Compression Ring



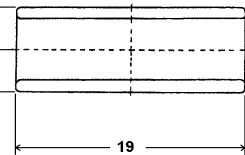
Oil Control Ring



Piston



Piston Pin



Circlip

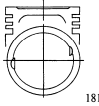
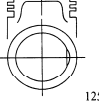
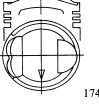
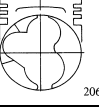
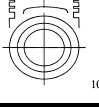
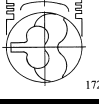
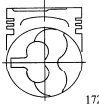
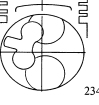


- | | |
|--|---------------------------------------|
| 1: Engine Model Code. | 12: NOA's Piston Part Number. |
| 2: Fuel Type. | 13: Piston Reference Number. |
| 3: Number of Cylinder. | 14: Compression Distance. |
| 4: Engine Size CC. | 15: Piston Length. |
| 5: Cylinder Diameter. | 16: Circlip or Press Fit Information. |
| 6: NOA's Piston Ring Part Number. | 17: Dome or Dish. |
| 7: Piston Ring Reference Number. | 18: Dome or Dish Height. |
| 8: Piston Ring Position. | 19: Piston Pin Length. |
| 9: Piston Ring. | 20: Piston Pin Diameter. |
| 10: Width of Compression & Oil Ring. | 21: Piston Head Shape Code. |
| 11: Radial Wall Thickness of
Compression Ring & Oil Ring. | 22: Piston Head Drawing. |

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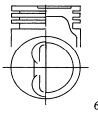
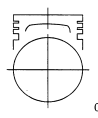
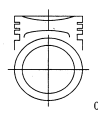
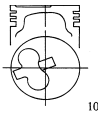
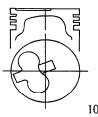
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ENGINE MODEL FUEL TYPE	C Y L	ENGINE SIZE CC	DIA mm	RING # for PISTON OEM NUMBER	P S T N	PISTON RING			NOA PISTON # OEM NUMBER	PISTON		PIN LENGTH DIA. mm	HEAD SHPE
						B mm	x	T mm		COMP. LENGTH mm	DIST mm		
DAEWOO GASOLINE ENGINE													
S-TEC II	4	995	68.50	SWD20011ZZ	1	1.20	x	2.65	11-8002	25.30 -	3.20	53.00	181
GASOLINE				96325192	2	1.20	x	2.80	96325189 96325191 96567383	52.30		17.00	
					O1	2.50	x	2.80					
										CIRCLIP : SP19.5			
HYUNDAI GASOLINE ENGINE													
G4HC	4	999	66.00	SWG30018ZZ	1	1.20	x	2.25	11-8504	25.00 -	4.00	60.00	125
GASOLINE				23040-02700	2	1.20	x	2.90	23410-02700 23410-02710 23410-02720	48.00		17.00	
					O1	2.50	x	2.75					
										CIRCLIP : NONE			
MITSUBISHI GASOLINE ENGINE													
G63B	4	1997	85.00	SWM31013ZY	1	2.00	x	3.30	11-3042	35.00 +	2.00	72.00	174
GASOLINE				MD040640 MD040840 MD041580	2	2.00	x	3.70	MD040821	74.00		21.00	
					O1	4.00	x	3.25					
										CIRCLIP : NONE			
MITSUBISHI, MITSUBISHI KATSURA DIESEL ENGINE													
4D55T	4	2300	91.10	SDM31055ZX	1	2.50	x	3.45	11-3048	48.70 -	2.30	75.00	206
DIESEL				MD050395	2	2.00	x	3.80	MD050011	88.70 -	3.00	29.00	
					O1	4.00	x	4.35					
										CIRCLIP : 29-2.0A			
NISSAN GASOLINE ENGINE													
A15	4	1487	76.00	SWN30052ZZ	1	1.20	x	3.05	11-3208	30.00 -	2.80	63.00	10
GASOLINE				12033-H9820 12033-H9915 12033-H9918	2	2.00	x	3.40	12010-H9704	65.00		19.00	
					O1	4.00	x	3.25					
										CIRCLIP : NONE			
NISSAN DIESEL ENGINE													
SD22	4	2164	83.00	SJN31003ZZ	1	2.50	x	3.30	11-3249	48.00 -	0.60	71.00	172
DIESEL				12033-76204 12033-Y1410 12033-Y3010	2	2.00	x	3.40	12010-J5310 12010-Y1411 12010-Y5210/11	96.00		26.00	
					3	2.00	x	3.40					
					O1	4.50	x	3.90					
					O2	4.50		3.40					
										CIRCLIP : 26-1.6B			
SD23	4	2289	89.00	SDN31023ZZ	1	2.50	x	3.70	11-3290	48.00 -	0.60	74.00	172
DIESEL				12033-L2004 12033-L2005 12033-L2006	2	2.00	x	3.70	12010-09W10 12010-T6202/12 12010-T6272	90.00		26.00	
					O1	4.50	x	4.20					
										CIRCLIP : 26-1.6B			
TD27	4	2663	96.00	SDN31035ZX	1	2.50	x	4.00	11-3301	50.20 -	1.50	80.00	234
DIESEL				12033-43G11	2	2.00	x	4.00	12010-10T02	87.00		28.00	
					O1	4.00	x	4.15					
										CIRCLIP : 28-1.6B			

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ENGINE MODEL FUEL TYPE	CYL	ENGINE SIZE CC	DIA mm	RING # for PISTON OEM NUMBER	P S T N	PISTON RING			NOA PISTON # OEM NUMBER	PISTON		PIN LENGTH DIA. mm	HEAD SHPE
						B mm	x	T mm		COMP. LENGTH mm	DIST mm		
TOYOTA GASOLINE ENGINE													
2Y	4	1812	86.00	SWT10090ZZ	1	1.50	x	3.50	11-3759 13101-72010	35.00 -	2.20	66.00	67 
GASOLINE				2	1.50	x	4.00	70.00		22.00			
				O1	4.00	x	3.25				CIRCLIP : NONE		
3F	6	4230	94.00	SWT10106ZY	1	1.50	x	3.60	11-3794 13101-61030	37.50		75.00	1 
GASOLINE				2	1.50	x	4.00	79.50		22.00			
				O1	4.00	x	3.25				CIRCLIP : 22-1.6A		
5K	4	1486	80.50	SWT10099ZZ	1	1.50	x	3.30	11-3729 13101-13040	36.00 -	3.00	61.00	5 
GASOLINE				2	1.50	x	3.30	69.00		18.00			
				O1	4.00	x	3.65				CIRCLIP : 18-1.4A		
TOYOTA DIESEL ENGINE													
2B	4	3200	98.00	SJT10084ZZ	1	2.5K	x	4.10	11-3807 13101-57011 13101-57020	52.30 -	2.80	79.00	105 
DIESEL				2	2.50	x	4.30	101.30		29.00			
				O1	4.50	x	4.40				CIRCLIP : 29-1.6A		
B	4	3000	95.00	SJT10070ZZ	1	2.5K	x	4.10	11-3799 13101-56020/21 13101-56030/31	52.30 -	2.50	79.00	105 
DIESEL				2	2.50	x	4.30	101.30		29.00			
				O1	4.50	x	4.30				CIRCLIP : R-29		

