

NPR OF AMERICA, INC.



1973 ~ 2018

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



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NPR (Nippon Piston Ring) Piston Rings.

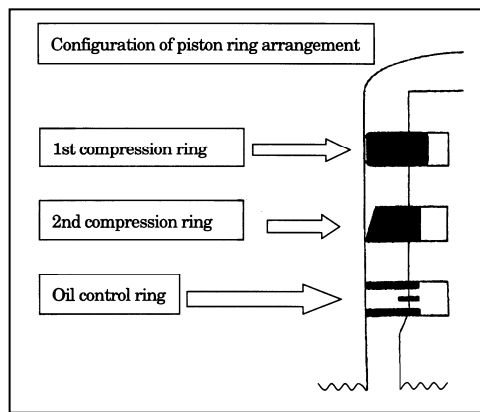
1. The most important functions of NPR Piston Rings.

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 NPR's many years of engineering knowledge and experience taking into consideration material composition and surface treatment design.

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

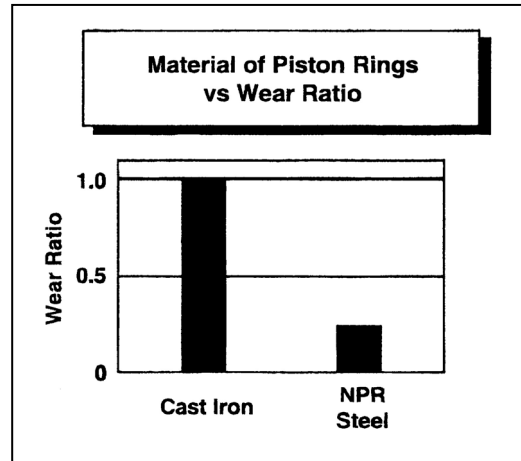
Steel piston rings allow for a reduction in the radial wall thickness. This (thinner) and lighter design seals more completely against the ring groove. Also, NPR's steel ring designs with greater material strength, reduced width and radial wall dimensions conform better to less than perfect cylinder bores. These two advantages can 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

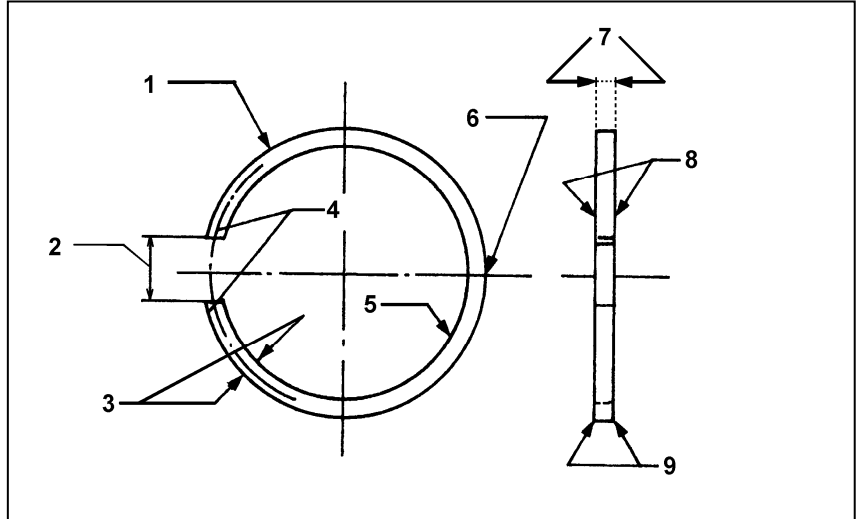
NPR's surface treatment is also very high quality, and the result of our technology. The chart below shows surface treatment comparison.

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

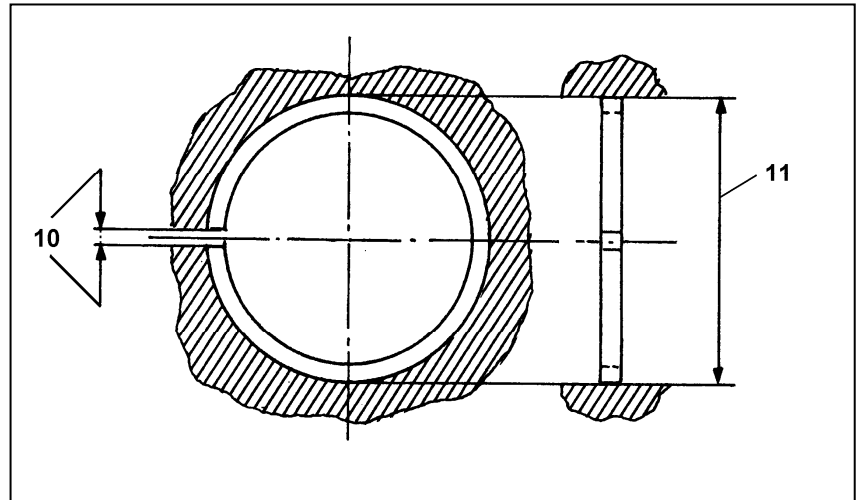
1. Ring face or Periphery.
2. Total free gap (m).
3. **T**: Radial wall thickness (ai).
4. Butt ends.
5. Inside Surface.
6. Back of the ring.
7. **B**: Ring width (h1)
8. Side Face.
9. Peripheral edges.



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

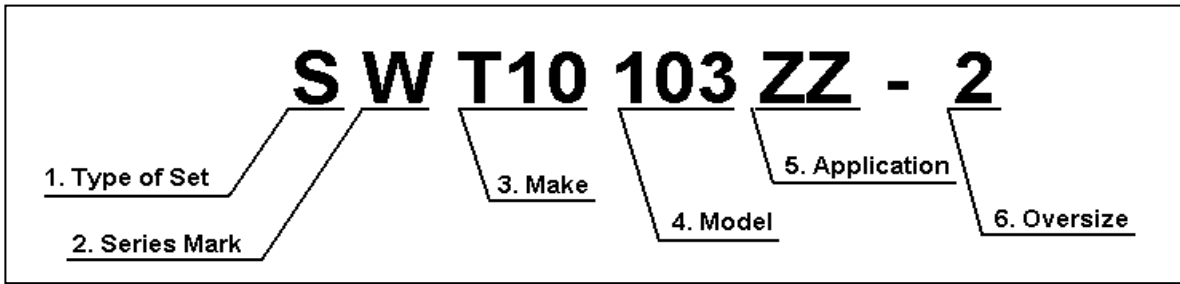
NPR generally manufacturers its rings to meet the JIS (Japanese Industrial Standard) B8032-6-1998. It is important to recognize that some end gaps for individual engines may vary from this standard because of the original engine manufacturer's requirements. The table appearing below is for reference 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 Japonés) 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 milímetros.

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

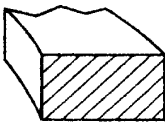
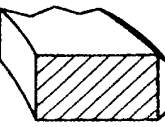
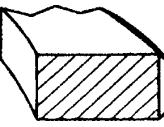
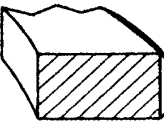
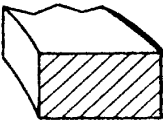
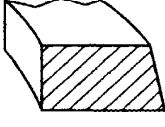
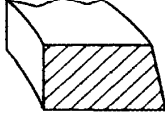
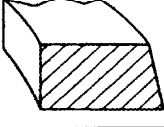
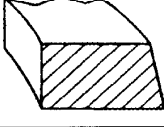
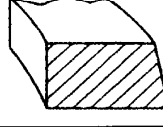
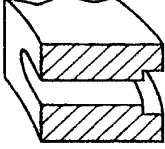
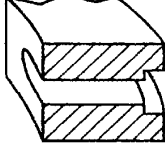
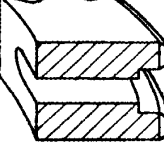
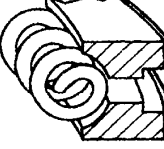
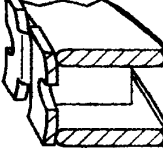
There are varieties of Piston Ring Series. Please see above.

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) **NPR Part Number Codes for Vehicle / Engine Manufacturers.**

<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)
K04	KOMATSU
K30	KIA
M30	MINI, (CHRYSLER, DODGE, EAGLE, PLYMOUTH, HYUNDAI)
M31	MITSUBISHI, (HYUNDAI)
N30	INFINITI, NISSAN, (FORD MERCURY)
N31	UD TRUCK NISSAN (NISSAN DIESEL)
S20	SUZUKI, (GM, CHEVROLET, GEO)
T10	LEXUS, TOYOTA, (GM, CHEVROLET, GEO)
T20	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**

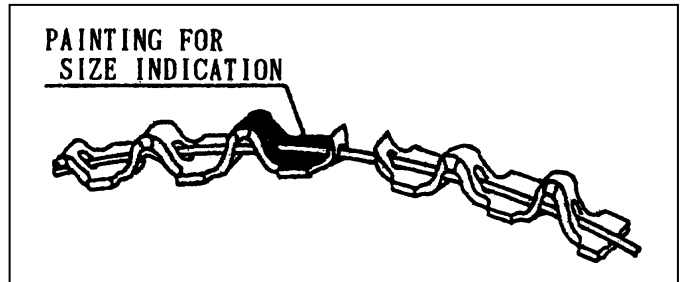
A three digit number is uniquely assigned by an engine model connected with a make code.

5) **Serial Code for Application**

Assigned by engineer.

6) **Oversize Code for Nifflex Expander.**

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. *

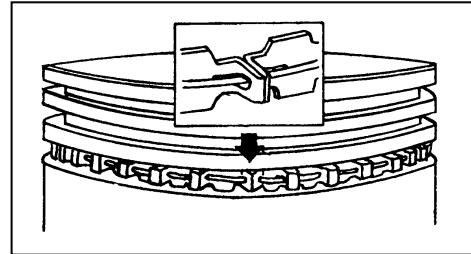
Installation Instruction of Oil Rings. (Instalacion del Anillo de Control de Aceite)



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

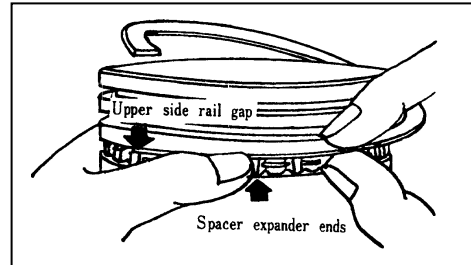
Fit the spacer expander into the ring groove, and ensure that the ends are butting as shown in the illustration.

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.



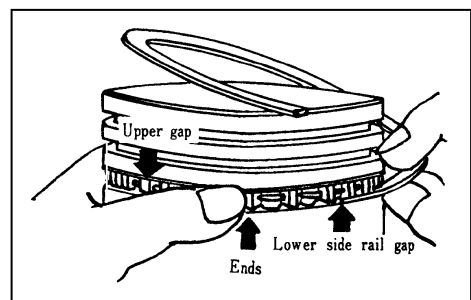
Hold with thumb the spacer expander with its ends completely butting. Install the upper side rail with its gap approximately 45 Degree left of Spacer Expander end.

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.



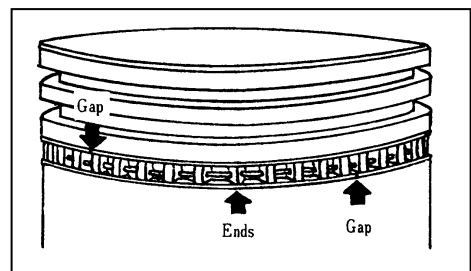
Install the lower side rail with its gap approximately 45 Degree right of the expander ends.

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.



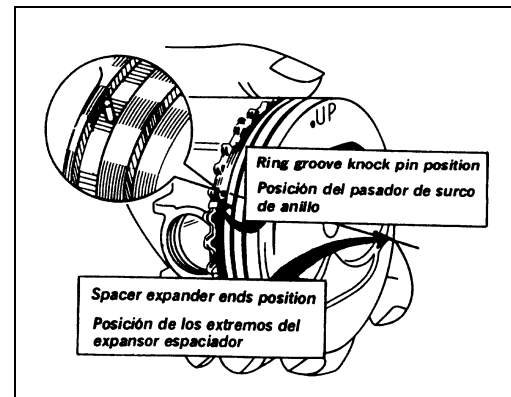
Installation Instruction of Oil Rings. **(Instalacion del Anillo de Control de Aceite.)**



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

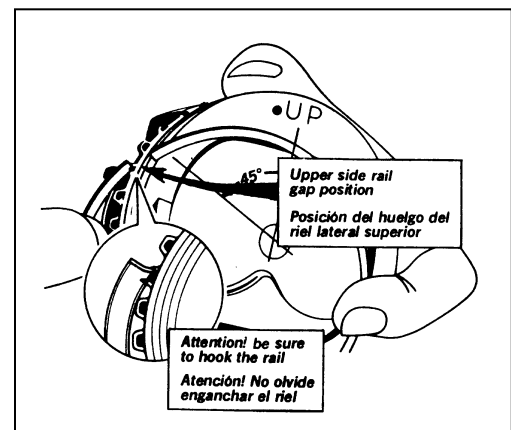
In EA Engine pistons, there is a knock pin in the oil ring groove. Install the spacer expander around the whole piston perimeter, placing its ends approximately 180 Degree from the knock pin.

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.



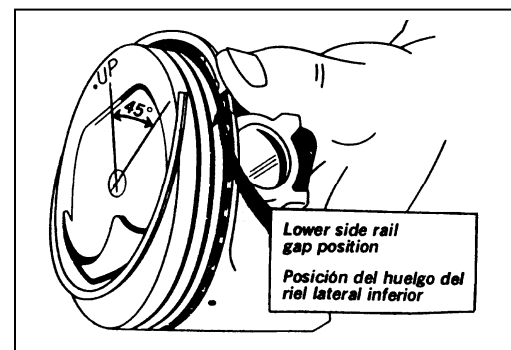
One of the two side rails has one of its ends slightly bent. Hook the bent part into the spacer expander, at a point located approximately 45 Degree left of the piston head “UP” mark, then install the rail around the whole piston perimeter (see figure).

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.



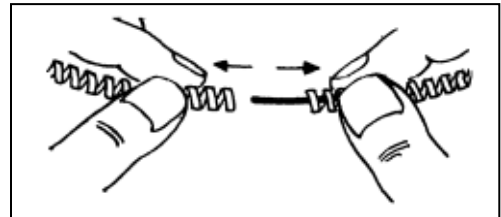
Installation Instruction of Oil Rings. (Instrucciones para Instalar el Anillo De Control de Aceite.)



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

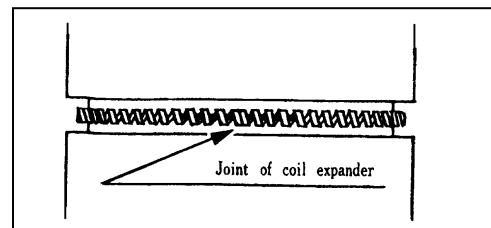
First, disconnect the joint of coil expander.

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



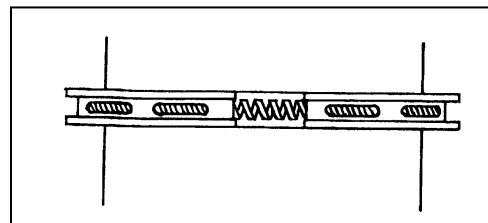
Next, encircle the 1st oil ring groove with coil expander and joint the ends of coil expander again.

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



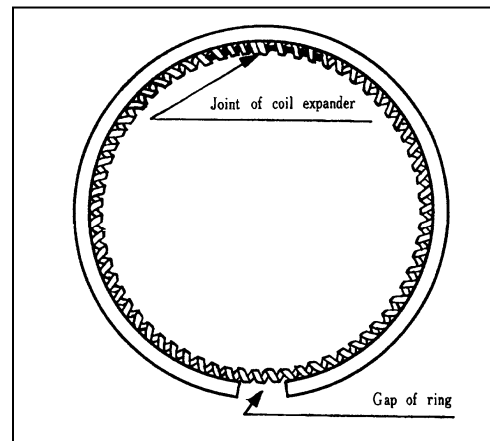
Last, install the ring outside of coil expander.
(Please use Piston Ring Installation Tool).

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.

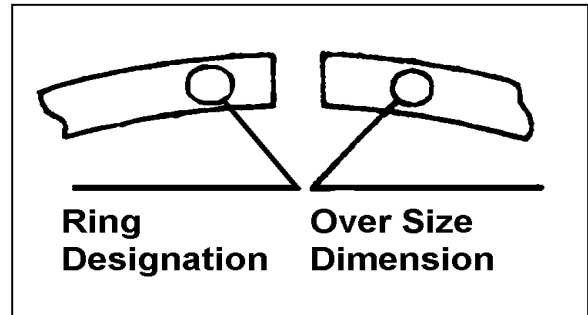


Installation Instruction of Compression Rings.



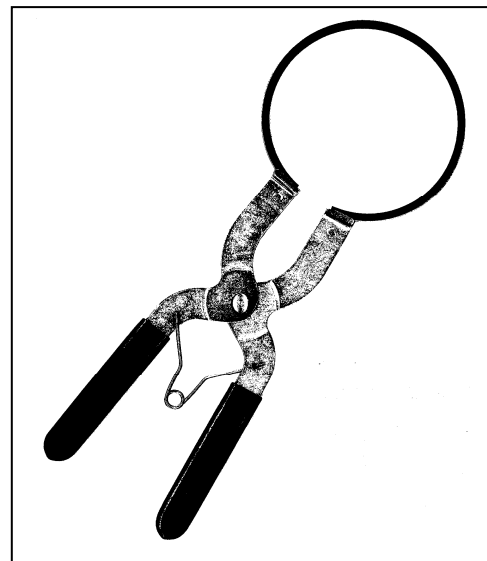
“N” or Number is facing upward when installed on the piston.

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.



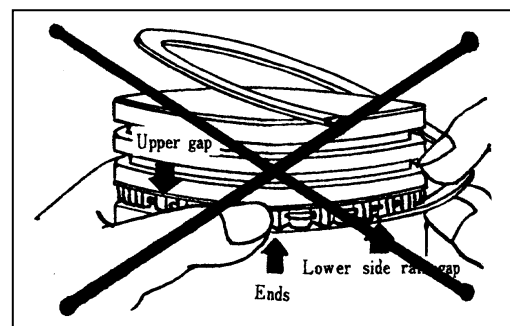
Use Piston Ring tool to expand the end gap. Then install 2nd and Top ring to Piston Ring Groove.

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:

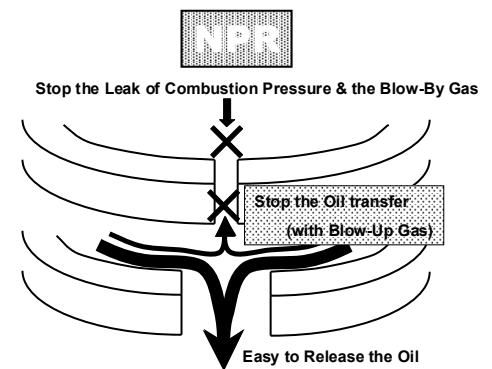
1. The reduced top ring gap helps reduce the flow of oil vapor from below the top ring to the combustion chamber (see “X” in diagram right)

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 reducira tambien 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 some of 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.

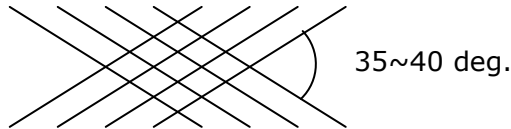
NPR fabrica sus anillos con la especificacion correcta de OEM(Equipo Original) para cada motor individual y es ello que la abertura de luz es diferente de un motor a otro aunque tengan el mismo diametro. Por lo tanto no hay necesidad, ni recomendamos que usted los altere, haciendo esto puede anular la 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 una 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

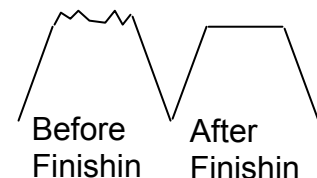
- Conventional stones #220 - #280 grit or
- Diamond stones #325 - #550 grit

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.

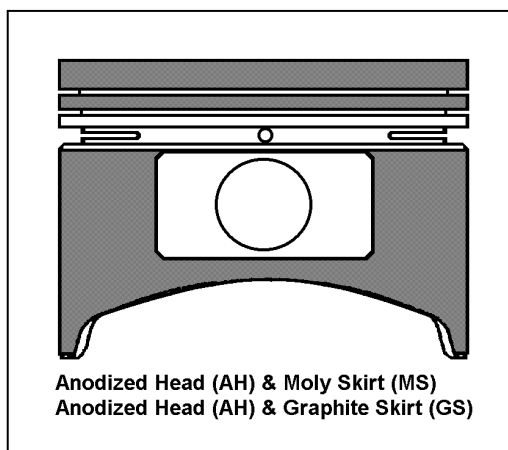
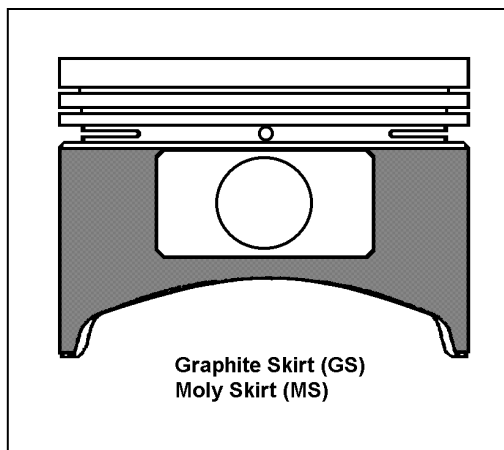
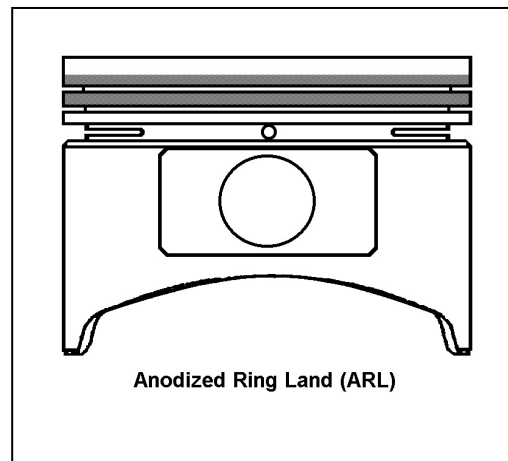
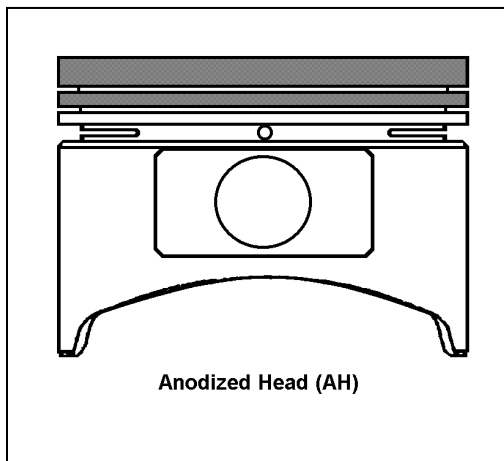
Estar seguro de reconfirmar con el fabricante del equipo de afilado que los granos de arena recomendados de piedra produzcan nuestro RZ y las recomendaciones de aspereza de RA

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 FITTING CLEARANCE RECOMMENDATION” beginning on page xvi ~ xxi 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 “AJUSTE RECOMENDADO PARA JUEGO de PISTON” ver pagina xvi ~ xxi Para recomendaciones especificas de la pared del cilindro para cada numero de piston en especifico.



PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-012		GM / ISUZU	84.00MM (3.307")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-016		GM / ISUZU	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-020		CHRYSLER	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-027		CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-028		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.100MM (0.0039") @ 10.00MM (0.394") from the Bottom.
11-031		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 37.50MM (1.476") from the Bottom.
11-035		CHRYSLER / MAZDA / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 25.00MM (0.984") from the Bottom.
11-049		NISSAN	76.00MM (2.992")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-050		NISSAN	76.00MM (2.992")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-052		NISSAN	76.00MM (2.992")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-059		NISSAN	85.00MM (3.346")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-060		NISSAN	85.00MM (3.346")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-062		NISSAN	84.50MM (3.327")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-064		NISSAN	85.00MM (3.346")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-068		NISSAN	83.00MM (3.268")	0.100MM (0.0039") @ 15.00MM (0.591") from the Bottom.
11-069		NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-070		NISSAN	89.00MM (3.504")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-071		NISSAN	83.00MM (3.268")	0.040MM (0.0016") @ 25.00MM (0.984") from the Bottom.
11-076		NISSAN	83.00MM (3.268")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-081		NISSAN	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-082		NISSAN	86.00MM (3.386")	0.040MM (0.0016") @ 22.00MM (0.866") from the Bottom.
11-084		NISSAN	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-105		HONDA	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-106		HONDA	74.00MM (2.913")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-111		HONDA	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-113		HONDA	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-122		HONDA	80.00MM (3.150")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-124		MAZDA	77.00MM (3.031")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-127		MAZDA	77.00MM (3.031")	0.040MM (0.0016") @ 1.00MM (0.039") from the Bottom.
11-129		KIA / MAZDA	86.00MM (3.386")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-140		TOYOTA	75.00MM (2.953")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-141		TOYOTA	75.00MM (2.953")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-142		TOYOTA	77.50MM (3.051")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-143		TOYOTA	77.50MM (3.051")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-144		GM / TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 13.00MM (0.512") from the Bottom.
11-145		TOYOTA	85.00MM (3.346")	0.040MM (0.0016") @ 25.00MM (0.984") from the Bottom.
11-149		TOYOTA	85.00MM (3.346")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-153		TOYOTA	88.50MM (3.484")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-155		TOYOTA	86.00MM (3.386")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-157		TOYOTA	88.50MM (3.484")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-171		TOYOTA	90.00MM (3.543")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-174		TOYOTA	94.00MM (3.701")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-175		TOYOTA	94.00MM (3.701")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-236		NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-238		NISSAN	89.00MM (3.504")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-239		TOYOTA	92.00MM (3.622")	0.040MM (0.0016") @ 26.00MM (1.024") from the Bottom.
11-241		TOYOTA	92.00MM (3.622")	0.040MM (0.0016") @ 32.00MM (1.260") from the Bottom.
11-502		ACURA	75.00MM (2.953")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-514		HONDA	75.00MM (2.953")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-515		HONDA	74.00MM (2.913")	0.040MM (0.0016") @ 17.50MM (0.689") from the Bottom.
11-518		HONDA	75.00MM (2.953")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-519		HONDA	82.70MM (3.256")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-520		HONDA	82.70MM (3.256")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-524		HONDA	81.00MM (3.189")	0.040MM (0.0016") @ 9.00MM (0.354") from the Bottom.
11-525		HONDA	81.00MM (3.189")	0.040MM (0.0016") @ 9.00MM (0.354") from the Bottom.
11-529		CHRYSLER / HYUNDAI / MITSUBISHI	75.50MM (2.972")	0.040MM (0.0016") @ 7.00MM (0.276") from the Bottom.
11-530		CHRYSLER / HYUNDAI / MITSUBISHI	75.50MM (2.972")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-531		CHRYSLER / MITSUBISHI	75.50MM (2.972")	0.025MM (0.0010") @ 19.00MM (0.748") from the Bottom.
11-536		MITSUBISHI	86.50MM (3.406")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-538		CHRYSLER / HYUNDAI / MITSUBISHI	86.50MM (3.406")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-539		CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.040MM (0.0016") @ 17.00MM (0.669") from the Bottom.
11-540		CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-543		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-545		CHRYSLER / MITSUBISHI	80.60MM (3.173")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-546	MS	CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.030MM (0.0012") @ 26.00MM (1.024") from the Bottom.

PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-547		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-549		CHRYSLER / HYUNDAI / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 8.00MM (0.315") from the Bottom.
11-554		ISUZU	89.30MM (3.516")	0.040MM (0.0016") @ 30.00MM (1.181") from the Bottom.
11-555		ISUZU	92.60MM (3.646")	0.040MM (0.0016") @ 25.00MM (0.984") from the Bottom.
11-558		ISUZU	88.00MM (3.465")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-559		HONDA / ISUZU	92.60MM (3.646")	0.040MM (0.0016") @ 25.00MM (0.984") from the Bottom.
11-573		FORD / MAZDA	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-575	MS	MAZDA	90.00MM (3.543")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-579		MAZDA	78.00MM (3.071")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-580		MAZDA	92.00MM (3.622")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-582		FORD / MAZDA	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-583		FORD / MAZDA	86.00MM (3.386")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-584		MAZDA	83.00MM (3.268")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-589		FORD	71.00MM (2.795")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-590		NISSAN	76.00MM (2.992")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-598	MS	NISSAN	89.00MM (3.504")	0.030MM (0.0012") @ 17.00MM (0.669") from the Bottom.
11-600		NISSAN	89.00MM (3.504")	0.040MM (0.0016") @ 5.00MM (0.197") from the Bottom.
11-601		NISSAN	76.00MM (2.992")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-602		INFINITI / NISSAN	86.00MM (3.386")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-603		FORD / INFINITI / NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-609	MS	NISSAN	89.00MM (3.504")	0.030MM (0.0012") @ 17.00MM (0.669") from the Bottom.
11-610		SUBARU	92.00MM (3.622")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-612		SUBARU	96.90MM (3.815")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-625		GM / SUZUKI	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-626		SUZUKI	74.00MM (2.913")	0.030MM (0.0012") @ 12.00MM (0.472") from the Bottom.
11-627		SUZUKI	74.00MM (2.913")	0.030MM (0.0012") @ 14.00MM (0.551") from the Bottom.
11-628		SUZUKI	74.00MM (2.913")	0.040MM (0.0016") @ 7.50MM (0.295") from the Bottom.
11-629		GM / SUZUKI	75.00MM (2.953")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-630		GM / SUZUKI	75.00MM (2.953")	0.040MM (0.0016") @ 21.00MM (0.827") from the Bottom.
11-631		TOYOTA	92.00MM (3.622")	0.100MM (0.0039") @ 15.00MM (0.591") from the Bottom.
11-632		TOYOTA	92.00MM (3.622")	0.100MM (0.0039") @ 10.00MM (0.394") from the Bottom.
11-634		TOYOTA	90.00MM (3.543")	0.100MM (0.0039") @ 32.00MM (1.260") from the Bottom.
11-636		TOYOTA	95.00MM (3.740")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-637		TOYOTA	91.00MM (3.583")	0.030MM (0.0012") @ 25.00MM (0.984") from the Bottom.
11-639		TOYOTA	83.00MM (3.268")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-641		TOYOTA	83.00MM (3.268")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-642		TOYOTA	83.00MM (3.268")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-644		TOYOTA	86.00MM (3.386")	0.040MM (0.0016") @ 7.00MM (0.276") from the Bottom.
11-646		TOYOTA	86.00MM (3.386")	0.040MM (0.0016") @ 5.00MM (0.197") from the Bottom.
11-647		TOYOTA	86.00MM (3.386")	0.030MM (0.0012") @ 11.00MM (0.433") from the Bottom.
11-648		TOYOTA	86.00MM (3.386")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-649		GM / TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-650		TOYOTA	73.00MM (2.874")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-651	MS	LEXUS / TOYOTA	87.50MM (3.445")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-653		TOYOTA	87.50MM (3.445")	0.040MM (0.0016") @ 2.00MM (0.079") from the Bottom.
11-654		TOYOTA	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-656		TOYOTA	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-657		TOYOTA	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-659		TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-660		GM / TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-661		LEXUS / TOYOTA	87.50MM (3.445")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-665		GM	74.00MM (2.913")	0.030MM (0.0012") @ 13.80MM (0.543") from the Bottom.
11-673		TOYOTA	94.00MM (3.701")	0.030MM (0.0012") @ 27.50MM (1.083") from the Bottom.
11-675		NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-676		NISSAN	89.00MM (3.504")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-677		TOYOTA	92.00MM (3.622")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-678		HONDA	85.00MM (3.346")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-679		HONDA	75.00MM (2.953")	0.040MM (0.0016") @ 27.00MM (1.063") from the Bottom.
11-680	MS	NISSAN	76.00MM (2.992")	0.025MM (0.0010") @ 12.00MM (0.472") from the Bottom.
11-681		NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-686		ACURA / HONDA / ISUZU	93.40MM (3.677")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.

PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-689		DAIHATSU	76.00MM (2.992")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-690		HYUNDAI	81.50MM (3.209")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-691		HYUNDAI	75.50MM (2.972")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-692		HYUNDAI	85.00MM (3.346")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-693		HYUNDAI	82.00MM (3.228")	0.040MM (0.0016") @ 24.00MM (0.945") from the Bottom.
11-696		ISUZU	88.00MM (3.465")	0.100MM (0.0039") @ 0.00MM (0.000") from the Bottom.
11-699		KIA	86.00MM (3.386")	0.040MM (0.0016") @ 18.00MM (0.709") from the Bottom.
11-701		MAZDA	86.00MM (3.386")	0.100MM (0.0039") @ 20.00MM (0.787") from the Bottom.
11-703		KIA / MAZDA	83.00MM (3.268")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-704	MS	MAZDA	90.00MM (3.543")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-706		FORD / MAZDA	83.00MM (3.268")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-707		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 16.00MM (0.630") from the Bottom.
11-709		CHRYSLER / MITSUBISHI	86.50MM (3.406")	0.030MM (0.0012") @ 12.00MM (0.472") from the Bottom.
11-711	MS	INFINITI / NISSAN	93.00MM (3.661")	0.030MM (0.0012") @ 14.00MM (0.551") from the Bottom.
11-713		GM / TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-714		GM / TOYOTA	81.00MM (3.189")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-716	MS	FORD / MAZDA	84.50MM (3.327")	0.030MM (0.0012") @ 11.00MM (0.433") from the Bottom.
11-718		CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-719	MS	CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-720	MS	LEXUS / TOYOTA	87.50MM (3.445")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-722	MS	TOYOTA	93.50MM (3.681")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-723		TOYOTA	86.00MM (3.386")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-724	MS	TOYOTA	95.00MM (3.740")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-725	MS	TOYOTA	95.00MM (3.740")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-726		HONDA	83.00MM (3.268")	0.030MM (0.0012") @ 16.00MM (0.630") from the Bottom.
11-727		INFINITI / NISSAN	87.00MM (3.425")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-728	MS	INFINITI / NISSAN	91.50MM (3.602")	0.025MM (0.0010") @ 11.00MM (0.433") from the Bottom.
11-729		HYUNDAI	82.30MM (3.24")	0.040MM (0.0016") @ 28.00MM (1.102") from the Bottom.
11-730		HYUNDAI	75.50MM (2.972")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-731		MAZDA	75.30MM (2.965")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-732		HONDA	75.00MM (2.953")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-733		ACURA	81.00MM (3.189")	0.040MM (0.0016") @ 14.00MM (0.551") from the Bottom.
11-735		CHRYSLER / MITSUBISHI	87.50MM (3.445")	0.040MM (0.0016") @ 13.00MM (0.512") from the Bottom.
11-736		HONDA	75.00MM (2.953")	0.030MM (0.0012") @ 15.50MM (0.610") from the Bottom.
11-737		HONDA	81.00MM (3.189")	0.030MM (0.0012") @ 16.00MM (0.630") from the Bottom.
11-738		HONDA	84.00MM (3.307")	0.040MM (0.0016") @ 0.00MM (0.000") from the Bottom.
11-739		HONDA	87.00MM (3.425")	0.040MM (0.0016") @ 7.00MM (0.276") from the Bottom.
11-740		HONDA	87.00MM (3.425")	0.040MM (0.0016") @ 11.00MM (0.433") from the Bottom.
11-741		HONDA	87.00MM (3.425")	0.040MM (0.0016") @ 7.00MM (0.276") from the Bottom.
11-742		HYUNDAI	75.50MM (2.972")	0.040MM (0.0016") @ 5.00MM (0.197") from the Bottom.
11-743	MS	ACURA	81.00MM (3.189")	0.030MM (0.0012") @ 15.00MM (0.591") from the Bottom.
11-745	MS	TOYOTA	95.00MM (3.740")	0.030MM (0.0012") @ 7.00MM (0.276") from the Bottom.
11-747		ISUZU	86.00MM (3.386")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-749		MITSUBISHI	93.00MM (3.661")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-750		TOYOTA	87.00MM (3.425")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-751		HONDA / ISUZU	85.00MM (3.346")	0.040MM (0.0016") @ 14.00MM (0.551") from the Bottom.
11-752		HONDA	75.00MM (2.953")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-753		ACURA	81.00MM (3.189")	0.040MM (0.0016") @ 6.00MM (0.236") from the Bottom.
11-754		ACURA	81.00MM (3.189")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-755	MS	NISSAN	89.00MM (3.504")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-756		GM / TOYOTA	79.00MM (3.110")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-757		ACURA	85.00MM (3.346")	0.040MM (0.0016") @ 14.00MM (0.551") from the Bottom.
11-758	MS	CHRYSLER / MITSUBISHI	85.00MM (3.346")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-759	MS	MAZDA	90.00MM (3.543")	0.030MM (0.0012") @ 16.00MM (0.630") from the Bottom.
11-762		MITSUBISHI	91.10MM (3.587")	0.040MM (0.0016") @ 20.00MM (0.787") from the Bottom.
11-764		ISUZU	93.40MM (3.677")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-767		CHRYSLER / MITSUBISHI	81.00MM (3.189")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-769		SUZUKI	74.00MM (2.913")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-771		HYUNDAI / KIA	84.00MM (3.307")	0.030MM (0.0012") @ 6.00MM (0.236") from the Bottom.
11-772		HYUNDAI / KIA	86.50MM (3.406")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-773		KIA	75.50MM (2.972")	0.030MM (0.0012") @ 18.00MM (0.709") from the Bottom.

PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-774		MITSUBISHI	93.00MM (3.661")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-775		SUZUKI	84.00MM (3.307")	0.040MM (0.0016") @ 10.00MM (0.394") from the Bottom.
11-776		SCION / TOYOTA	75.00MM (2.953")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-777	MS	GM / TOYOTA	79.00MM (3.110")	0.025MM (0.0010") @ 19.50MM (0.768") from the Bottom.
11-778	MS	TOYOTA	86.00MM (3.386")	0.025MM (0.0010") @ 12.30MM (0.484") from the Bottom.
11-779		DAEWOO	79.00MM (3.110")	0.030MM (0.0012") @ 8.00MM (0.315") from the Bottom.
11-780	MS	CHRYSLER	86.00MM (3.386")	0.030MM (0.0012") @ 7.00MM (0.276") from the Bottom.
11-781		ACURA / HONDA	86.00MM (3.386")	0.040MM (0.0016") @ 16.00MM (0.630") from the Bottom.
11-785		HONDA	75.00MM (2.953")	0.030MM (0.0012") @ 3.00MM (0.118") from the Bottom.
11-788	MS	SAAB / SUBARU	99.50MM (3.917")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-791		ACURA / HONDA	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-792	MS	GM / SCION / TOYOTA	88.50MM (3.484")	0.025MM (0.0010") @ 4.00MM (0.157") from the Bottom.
11-793		ACURA / ISUZU	93.40MM (3.677")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-794		MAZDA	78.00MM (3.071")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-795		TOYOTA	86.00MM (3.386")	0.040MM (0.0016") @ 15.00MM (0.591") from the Bottom.
11-797		HONDA	75.00MM (2.953")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-798		HONDA	75.00MM (2.953")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-799		HONDA	84.00MM (3.307")	0.030MM (0.0012") @ 15.00MM (0.591") from the Bottom.
11-801	MS	LEXUS / TOYOTA	94.00MM (3.701")	0.025MM (0.0010") @ 10.50MM (0.413") from the Bottom.
11-802		TOYOTA	82.00MM (3.228")	0.030MM (0.0012") @ 25.00MM (0.984") from the Bottom.
11-804		CHRYSLER / MITSUBISHI	86.50MM (3.406")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-806	MS	CHRYSLER / MITSUBISHI	93.00MM (3.661")	0.030MM (0.0012") @ 13.00MM (0.512") from the Bottom.
11-807	MS	CHRYSLER / MITSUBISHI	93.00MM (3.661")	0.030MM (0.0012") @ 13.00MM (0.512") from the Bottom.
11-808	MS	CHRYSLER	83.50MM (3.287")	0.025MM (0.0010") @ 9.00MM (0.354") from the Bottom.
11-809	MS	FORD	90.20MM (3.551")	0.030MM (0.0012") @ 6.00MM (0.236") from the Bottom.
11-810	MS	FORD	90.20MM (3.551")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-811	MS	FORD	90.20MM (3.551")	0.030MM (0.0012") @ 6.00MM (0.236") from the Bottom.
11-814		CHRYSLER	87.50MM (3.445")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-817		CHRYSLER / MITSUBISHI	91.10MM (3.587")	0.030MM (0.0012") @ 15.00MM (0.591") from the Bottom.
11-820	MS	FORD	90.20MM (3.551")	0.030MM (0.0012") @ 11.00MM (0.433") from the Bottom.
11-821		CHRYSLER	99.31MM (3.910")	0.040MM (0.0016") @ 14.00MM (0.551") from the Bottom.
11-822		FORD	84.86MM (3.341")	0.040MM (0.0016") @ 7.00MM (0.276") from the Bottom.
11-823	MS	GM	101.60MM (4.000")	0.030MM (0.0012") @ 21.00MM (0.827") from the Bottom.
11-825		FORD	89.00MM (3.504")	0.040MM (0.0016") @ 8.00MM (0.315") from the Bottom.
11-826	MS	FORD	96.80MM (3.811")	0.030MM (0.0012") @ 11.50MM (0.453") from the Bottom.
11-827		GM	101.60MM (4.000")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-828		GM	101.60MM (4.000")	0.040MM (0.0016") @ 12.00MM (0.472") from the Bottom.
11-829	MS	GM / ISUZU	96.00MM (3.780")	0.030MM (0.0012") @ 16.00MM (0.630") from the Bottom.
11-830	MS	GM	103.00MM (4.055")	0.090MM (0.0035") @ 17.00MM (0.669") from the Bottom.
11-832	MS	HONDA	86.00MM (3.386")	0.025MM (0.0010") @ 7.00MM (0.276") from the Bottom.
11-833	MS	HONDA	87.00MM (3.425")	0.025MM (0.0010") @ 11.00MM (0.433") from the Bottom.
11-834	MS	HONDA	87.00MM (3.425")	0.025MM (0.0010") @ 11.00MM (0.433") from the Bottom.
11-835	MS	HONDA	89.00MM (3.504")	0.025MM (0.0010") @ 7.00MM (0.276") from the Bottom.
11-836	MS	ACURA / HONDA	89.00MM (3.504")	0.025MM (0.0010") @ 7.00MM (0.276") from the Bottom.
11-837		HYUNDAI	75.50MM (2.972")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-838		HYUNDAI / KIA	82.00MM (3.228")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-840		ISUZU	86.00MM (3.386")	0.030MM (0.0012") @ 15.00MM (0.591") from the Bottom.
11-841		KIA	81.00MM (3.189")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-842		MAZDA	83.00MM (3.268")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-843	MS	MAZDA	87.50MM (3.445")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-844		MAZDA	87.50MM (3.445")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-847	MS	MITSUBISHI	93.00MM (3.661")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-848	MS	MITSUBISHI	95.00MM (3.740")	0.025MM (0.0010") @ 12.00MM (0.472") from the Bottom.
11-849	MS	NISSAN	84.00MM (3.307")	0.025MM (0.0010") @ 5.50MM (0.217") from the Bottom.
11-850	MS	TOYOTA	86.00MM (3.386")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-851	MS	LEXUS / TOYOTA	86.00MM (3.386")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-852	MS	NISSAN	89.00MM (3.504")	0.025MM (0.0010") @ 19.00MM (0.748") from the Bottom.
11-853	MS	FORD	90.20MM (3.551")	0.030MM (0.0012") @ 13.00MM (0.512") from the Bottom.
11-854	MS	MAZDA	87.50MM (3.445")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-855		CHRYSLER	99.31MM (3.910")	0.040MM (0.0016") @ 14.00MM (0.551") from the Bottom.
11-856		CHRYSLER / FORD	102.00MM (4.016")	0.100MM (0.0039") @ 20.00MM (0.787") from the Bottom.

PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-857	MS	FORD	95.00MM (3.740")	0.090MM (0.0035") @ 15.00MM (0.591") from the Bottom.
11-859	MS	INFINITI	95.50MM (3.760")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-860	MS	INFINITI / NISSAN	95.50MM (3.760")	0.025MM (0.0010") @ 6.00MM (0.236") from the Bottom.
11-861	MS	CHRYSLER	99.50MM (3.917")	0.030MM (0.0012") @ 5.00MM (0.197") from the Bottom.
11-862		HYUNDAI / KIA	86.70MM (3.413")	0.030MM (0.0012") @ 6.00MM (0.236") from the Bottom.
11-863	MS	CHRYSLER	93.00MM (3.661")	0.030MM (0.0012") @ 7.00MM (0.276") from the Bottom.
11-864	MS	CHRYSLER / VOLKSWAGEN	96.00MM (3.780")	0.030MM (0.0012") @ 6.50MM (0.256") from the Bottom.
11-865	MS	FORD	84.80MM (3.339")	0.025MM (0.0010") @ 11.00MM (0.433") from the Bottom.
11-866	MS	ACURA / HONDA	86.00MM (3.386")	0.025MM (0.0010") @ 5.00MM (0.197") from the Bottom.
11-867	MS	LEXUS / TOYOTA	92.00MM (3.622")	0.025MM (0.0010") @ 9.40MM (0.370") from the Bottom.
11-868	MS	FORD / MAZDA	89.00MM (3.504")	0.025MM (0.0010") @ 7.00MM (0.276") from the Bottom.
11-869	MS	NISSAN	80.00MM (3.150")	0.025MM (0.0010") @ 12.50MM (0.492") from the Bottom.
11-870	MS	LEXUS / TOYOTA	94.00MM (3.701")	0.025MM (0.0010") @ 5.50MM (0.217") from the Bottom.
11-871	MS	TOYOTA	94.00MM (3.701")	0.025MM (0.0010") @ 8.00MM (0.315") from the Bottom.
11-872	MS	AUDI / VOLKSWAGEN	81.00MM (3.189")	0.025MM (0.0010") @ 8.00MM (0.315") from the Bottom.
11-873	MS	CHRYSLER	99.50MM (3.917")	0.025MM (0.0010") @ 6.00MM (0.236") from the Bottom.
11-874	MS	FORD	89.00MM (3.504")	0.025MM (0.0010") @ 11.00MM (0.433") from the Bottom.
11-875	MS	CHRYSLER	96.00MM (3.780")	0.025MM (0.0010") @ 9.00MM (0.354") from the Bottom.
11-876	MS	NISSAN	80.00MM (3.150")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-878	MS	NISSAN	95.50MM (3.760")	0.025MM (0.0010") @ 6.00MM (0.236") from the Bottom.
11-879	MS	INFINITI / NISSAN	98.00MM (3.858")	0.025MM (0.0010") @ 6.00MM (0.236") from the Bottom.
11-880	MS	TOYOTA	95.00MM (3.740")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-881	MS	NISSAN / SUZUKI	89.00MM (3.504")	0.025MM (0.0010") @ 9.50MM (0.374") from the Bottom.
11-882	MS	HONDA	86.00MM (3.386")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-883		SUZUKI	84.00MM (3.307")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.
11-884	MS	GM	103.00MM (4.055")	0.110MM (0.0043") @ 20.00MM (0.787") from the Bottom.
11-885		CHRYSLER / FORD	107.00MM (4.213")	0.120MM (0.0047") @ 20.00MM (0.787") from the Bottom.
11-886	MS	FORD	98.20MM (3.866")	0.050MM (0.0020") @ 15.00MM (0.591") from the Bottom.
11-887	MS	GM	92.00MM (3.622")	0.030MM (0.0012") @ 15.00MM (0.591") from the Bottom.
11-888		GM	96.52MM (3.800")	0.030MM (0.0012") @ 12.00MM (0.472") from the Bottom.
11-889	MS	GM / ISUZU	101.60MM (4.000")	0.025MM (0.0010") @ 13.00MM (0.512") from the Bottom.
11-890	MS	HONDA	73.00MM (2.874")	0.020MM (0.0008") @ 6.00MM (0.236") from the Bottom.
11-891	GS	HONDA	81.00MM (3.189")	0.020MM (0.0008") @ 6.00MM (0.236") from the Bottom.
11-892	MS	HYUNDAI / KIA	86.70MM (3.413")	0.020MM (0.0008") @ 5.00MM (0.197") from the Bottom.
11-893	MS	NISSAN	78.00MM (3.071")	0.025MM (0.0010") @ 8.00MM (0.315") from the Bottom.
11-894	MS	NISSAN	89.00MM (3.504")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-895	MS	TOYOTA	75.00MM (2.953")	0.020MM (0.0008") @ 0.00MM (0.000") from the Bottom.
11-896	MS	SCION / TOYOTA	88.50MM (3.484")	0.025MM (0.0010") @ 6.00MM (0.236") from the Bottom.
11-897	MS	SCION / TOYOTA	90.00MM (3.543")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-898	MS	MAZDA	87.50MM (3.445")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-899	MS	GM / SAAB	96.00MM (3.780")	0.020MM (0.0008") @ 16.00MM (0.630") from the Bottom.
11-900	MS	GM	96.00MM (3.780")	0.020MM (0.0008") @ 25.00MM (0.984") from the Bottom.
11-901	GS	HYUNDAI / KIA	82.00MM (3.228")	0.025MM (0.0010") @ 5.00MM (0.197") from the Bottom.
11-902	MS	CHRYSLER / MITSUBISHI	93.00MM (3.661")	0.020MM (0.0008") @ 8.00MM (0.315") from the Bottom.
11-903	MS	FORD	90.20MM (3.551")	0.020MM (0.0008") @ 9.00MM (0.354") from the Bottom.
11-904	MS	GM	103.25MM (4.065")	0.020MM (0.0008") @ 9.00MM (0.354") from the Bottom.
11-905	MS	HONDA	87.00MM (3.425")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-906	MS	HONDA	89.00MM (3.504")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-907	MS	INFINITI / NISSAN	95.50MM (3.760")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-908	MS	CHRYSLER / HYUNDAI / KIA / MITSUBISHI	88.00MM (3.465")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-909	MS	HYUNDAI / KIA	86.00MM (3.386")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-910	MS	SAAB / SUBARU	99.50MM (3.917")	0.025MM (0.0010") @ 13.00MM (0.512") from the Bottom.
11-911	MS	SUBARU	99.50MM (3.917")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-912	MS	LEXUS / TOYOTA	94.00MM (3.701")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-913	MS	CHRYSLER	99.50MM (3.917")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-914	MS	FORD	100.40MM (3.953")	0.025MM (0.0010") @ 12.50MM (0.492") from the Bottom.
11-915	MS	FORD	99.00MM (3.898")	0.050MM (0.0020") @ 0.00MM (0.000") from the Bottom.
11-916	MS	CHRYSLER / VOLKSWAGEN	96.00MM (3.780")	0.025MM (0.0010") @ 9.00MM (0.354") from the Bottom.
11-917	MS	GM	94.00MM (3.701")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.
11-918	MS	FORD	95.00MM (3.740")	0.050MM (0.0020") @ 15.00MM (0.591") from the Bottom.
11-919	MS	CHRYSLER	86.00MM (3.386")	0.025MM (0.0010") @ 15.00MM (0.591") from the Bottom.

PISTON FITTING CLEARANCE RECOMMENDATION

NOA PART #	COATING	MANUFACTURER NAME	SDT SIZE BORE DIAMETER	CLEARANCE and WHERE to MEASURE
11-920	MS	GM	96.00MM (3.780")	0.025MM (0.0010") @ 0.00MM (0.000") from the Bottom.
11-921	MS	SUBARU	99.50MM (3.917")	0.025MM (0.0010") @ 10.00MM (0.394") from the Bottom.
11-922	MS	CHRYSLER / VOLKSWAGEN	96.00MM (3.780")	0.025MM (0.0010") @ 7.00MM (0.276") from the Bottom.
11-923	MS	CHRYSLER	93.00MM (3.661")	0.025MM (0.0010") @ 13.00MM (0.512") from the Bottom.
11-9000	MS	VOLKSWAGEN	82.50MM (3.248")	0.025MM (0.0010") @ 5.40MM (0.213") from the Bottom.
11-D807	MS	CHRYSLER	90.20MM (3.551")	0.030MM (0.0012") @ 10.00MM (0.394") from the Bottom.

NPR Piston and Ring Kits

NPR Pistons and Rings can be order as Kits. The prefix of the 11- piston part number is changed to 10- which then indicates a Piston and Ring “Kit”.

These 10-kits are sold as a quantity of one, which contains all the pistons and rings needed for an engine application.

Abbreviation & Words used in this NPR Catalog.

1 Cyl Pkg	1 Cylinder Package.
1 Cyl Set	1 Cylinder is 1 Engine Set.
4WD	Four Wheel Drive.
AH	Anodized Head.
ARL	Anodized Ring Land.
All Plt	All Surface are Plated.
BC3	Single Piece Dieselelex.
BF	Barrel Face.
BF-IB	Barrel Face Inner Bevel.
BF-K1	Barrel Face Double Keystone.
BF-K1-IB	Barrel Face Double Keystone Inner Bevel.
BF-K2	Barrel Face Single Keystone.
BF-K3	Barrel Face Single Keystone Inner Bevel.
B1-TUC	Bevel Comp Taper Under Cut.
C & F	Engine is Carburetor or Fuel Injection.
C1	Single Piece Dieselelex.
CALIF. E.C.S.	California Emission Control System.
CARB.	Carburetor Engine.
DOHC	Dual Over Head Cam.
Diesel	Diesel Engine.
E-BC3	Two Pieces Dieselelex.
E-BC16	Two Pieces Dieselelex.
ES-TUC	Effective Seal Taper Under Cut.
FI	Fuel Injection Engine.
FWD	Front Wheel Drive.
FRONT	Front side of engine bank only.
FUEL Pkg	Fuel Package.
Left	Left-hand side of engine bank only.
MS	Moly Skirt.
NIFF-H	Nifflex-H.
NIFF-S	Nifflex-S.
Oil1	Oil Control Ring #1
Oil2	Oil Control Ring #2
OHV	Over Head Valve.
RWD	Rear Wheel Drive.
SOHC	Single Over Head Cam.
T1	Taper Face.
T1-IB	Taper Face Inner Bevel.
T1-IC	Taper Face Inner Cut.
T1-K1	Taper Face Double Keystone.
T1-K2	Taper Face Single Keystone.
T1-RB	Taper Face Reverse Bevel.
TBA	To Be Announced.
TUC	Taper Under Cut.
TUC-RB	Taper Under Cut Reverse Bevel.
W/	With.
W/o	Without.
(Forklift)	This Piston Ring is used for Forklift engine, too.

NEW PISTON RING INFORMATION from YEAR 2015.

MAKER NAME	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 #	DIA. mm	1 S T	2 N D	O 1	REMARK	
	cc	L														ci
FORD	3496	3.5L	213	EDGE	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	EDGE	2011 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	EXPLORER	2011 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	FLEX	2009 - 2016	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	FUSION	2010 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	MXJ	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	MKZ	2007 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	SABLE	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496	3.5L	213	TAURUS	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496	3.5L	213	TAURUS	2013 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496	3.5L	213	TAURUS X	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496	3.5L	213	TAURUS X	2013 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496	3.5L	213	MKS	2012 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	MKS	2012 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	TAURUS SHO	2010 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	TAURUS SHO	2010 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	EXPLORER	2013 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	F150	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	3496	3.5L	213	FLEX	2010 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	4951	5.0L	302	F150	2011 - 2016	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	4951	5.0L	302	MUSTANG	2011 - 2017	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	4951	5.0L	302	SHELBY GT350	2014 - 2017	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	6651	6.7L	406	ECONOLINE E450	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	ECONOLINE E550	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F250	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F350	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F450	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F550	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
GMC	2384	2.4L	145	EQUINOX	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	LaCrosse	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	REGAL	2011 ONLY	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	TERRAIN	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	HHR	2010 - 2011	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	MALIBU	2010 - 2012	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	EQUINOX	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	LaCrosse	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	REGAL	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	TERRAIN	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	TERRAIN DENALI	2013 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	VERANO	2012 - 2016	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384	2.4L	145	IMPALA HYBRID	2014 ONLY	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2384	2.4L	145	MALIBU HYBRID	2013 - 2014	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2384	2.4L	145	REGAL HYBRID	2012 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2457	2.5L	150	ATS	2013 - 2015	4	ECOTEC 2.5 LK9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457	2.5L	150	CANYON	2013 - 2015	4	ECOTEC 2.5 LK9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457	2.5L	150	IMPALA	2013 - 2015	4	ECOTEC 2.5 LK9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457	2.5L	150	MALIBU LS	2013 - 2015	4	ECOTEC 2.5 LK9	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	3564	3.6L	217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564	3.6L	217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564	3.6L	217	CAMARO	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	CAMARO	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564	3.6L	217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, LEFT, 24 VALVE
GMC	3564	3.6L	217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, RIGHT, 24 VALVE
GMC	3564	3.6L	217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, LEFT, 24 VALVE
GMC	3564	3.6L	217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, RIGHT, 24 VALVE
GMC	3564	3.6L	217	ENCLAVE	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	ENCLAVE	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564	3.6L	217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564	3.6L	217	TRAVERSE	2009 - 2017	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564	3.6L	217	TRAVERSE	2009 - 2017	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE

NEW PISTON RING INFORMATION from YEAR 2015.

MAKER NAME	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 #	DIA. mm	1 S T	2 N D	O 1	REMARK
	cc	L	ci													
GMC	6162	6.2L	376	CAMARO	2010 - 2015	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	STD Trans., 16 VALVE
GMC	6162	6.2L	376	CAMARO ZL1	2013 - 2015	V8	Vortec 6200 L99	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	AUTO Trans., 16 VALVE
GMC	6162	6.2L	376	CORVETTE	2008 - 2013	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	CORVETTE	2014 - 2017	V8	Vortec 6200 LT1	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	ESCALADE	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	ESCALADE	2010 - 2014	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	ESCALADE EXT	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	ESCALADE EXT	2010 - 2013	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	G8	2009 ONLY	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	H2	2008 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	SIERRA 1500	2009 - 2017	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	SIERRA 1500 DENALI	2009 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	SILVERADO 1500	2010 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	SS	2014 - 2017	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
GMC	6162	6.2L	376	YUKON DENALI	2007 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	SWG10050	103.25	1.50	1.50	2.50	16 VALVE
HONDA	1497	1.5L	91	CIVIC HYBRID	2012 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RW0-004	SWH30479	73.00	1.00	1.00	2.00	w/ i-VTECH, 8 VALVE
HONDA	2559	2.6L	156	PASSPORT	1994 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-97037-801-1	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
HYUNDAI	3342	3.3L	204	AZERA	2007 - 2011	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	SWG30055	92.00	1.20	1.20	2.00	GLS, 24 VALVE
HYUNDAI	3342	3.3L	204	SANTA FE	2007 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	SWG30055	92.00	1.20	1.20	2.00	24 VALVE
HYUNDAI	3342	3.3L	204	SONATA	2006 - 2010	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	SWG30055	92.00	1.20	1.20	2.00	24 VALVE
HYUNDAI	3342	3.3L	204	XG350	2002 - 2006	V6	SIGMA G6CU	F.I.	D.O.H.C.	23040-39800	SWG30056	93.00	1.50	1.50	3.00	24 VALVE
HYUNDAI	3342	3.3L	204	SANTA FE	2003 - 2006	V6	SIGMA G6CU	F.I.	D.O.H.C.	23040-39800	SWG30056	93.00	1.50	1.50	3.00	24 VALVE
ISUZU	2559	2.6L	156	AMIGO	1989 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	AMIGO	1993 - 1994	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	PICKUP	1988 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	PICKUP	1993 - 1995	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	RODEO	1991 - 1992	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	RODEO	1993 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	TROOPER	1989 - 1991	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
ISUZU	2559	2.6L	156	TROOPER II	1988 ONLY	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	SWI10144	92.60	1.50	1.50	4.00	8 VALVE
KIA	3342	3.3L	204	SORENTO	2008 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	SWG30055	92.00	1.20	1.20	2.00	24 VALVE
KIA	3497	3.5L	213	AMANTI	2004 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWG30056	93.00	1.50	1.50	3.00	24 VALVE
KIA	3497	3.5L	213	SEDONA	2002 - 2005	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWG30056	93.00	1.50	1.50	3.00	24 VALVE
KIA	3497	3.5L	213	SORENTO	2003 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	SWG30056	93.00	1.50	1.50	3.00	24 VALVE
LEXUS	4663	4.7L	285	GX 470	2005 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10240	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
LEXUS	4663	4.7L	285	GX 470	2005 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10240	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
LEXUS	4663	4.7L	285	LX 470	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10240	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
LEXUS	4663	4.7L	285	LX 470	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	SWT10240	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
MINI	1997	2.0L	122	LANCER EVO.	2003 - 2007	4	4G63	F.I.	D.O.H.C.	MN149594	SWM31143	85.00	1.20	1.20	2.00	16 VALVE
SCION	2494	2.5L	152	TC	2011 - 2016	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	SDT10226	90.00	1.00	1.00	2.00	VVT-i, 16 VALVE
TOYOTA	2494	2.5L	152	AVALON HYBRID	2013 - 2017	4	2AR-FXE	F.I.	D.O.H.C.	13011-36070	SDT10226	90.00	1.00	1.00	2.00	VVT-i, 16 VALVE
TOYOTA	2494	2.5L	152	CAMRY	2010 - 2017	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	SDT10226	90.00	1.00	1.00	2.00	VVT-i, 16 VALVE
TOYOTA	2494	2.5L	152	CAMRY HYBRID	2011 - 2017	4	2AR-FXE	F.I.	D.O.H.C.	13011-0V010	SDT10226	90.00	1.00	1.00	2.00	VVT-i, 16 VALVE
TOYOTA	2494	2.5L	152	RAV4	2009 - 2017	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	SDT10226	90.00	1.00	1.00	2.00	VVT-i, 16 VALVE
TOYOTA	2672	2.7L	163	HIGHLANDER	2009 - 2017	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT10226	90.00	1.00	1.00	2.00	16 VALVE
TOYOTA	2672	2.7L	163	SIENNA	2011 - 2012	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT10226	90.00	1.00	1.00	2.00	16 VALVE
TOYOTA	2672	2.7L	163	VENZA	2009 - 2015	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	SDT10226	90.00	1.00	1.00	2.00	16 VALVE
TOYOTA	4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
TOYOTA	4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
TOYOTA	4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	SWT10240	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F022	SWT10240	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F022	SWT10240	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE

NEW PISTON INFORMATION from YEAR 2015.

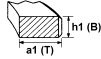
MAKER NAME	ENGINE SIZE		MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	PISTON REFERENCE NUMBER	NOA PISTON #	DIA. mm	1 S T	2 N D	O 1	REMARK	
	cc	L														
LEXUS	4663	4.7L	285	GX 470	2005 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13101-50082-01	11-912	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
LEXUS	4663	4.7L	285	GX 470	2005 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13103-50081-01	11-912	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
LEXUS	4663	4.7L	285	LX 470	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13101-50082-01	11-912	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
LEXUS	4663	4.7L	285	LX 470	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13103-50081-01	11-912	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
TOYOTA	4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13101-50082-01	11-912	94.00	1.20	1.20	3.00	RIGHT, 32 VALVE
TOYOTA	4663	4.7L	285	4 RUNNER	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13103-50081-01	11-912	94.00	1.20	1.20	3.00	LEFT, 32 VALVE
TOYOTA	4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13101-50082-01	11-912	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	LAND CRUISER	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13103-50081-01	11-912	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13101-50082-01	11-912	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	SEQUOIA	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13103-50081-01	11-912	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13101-0F031	11-912	94.00	1.20	1.20	3.00	RIGHT, i-Force, 32 VALVE
TOYOTA	4663	4.7L	285	TUNDRA	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13103-0F031	11-912	94.00	1.20	1.20	3.00	LEFT, i-Force, 32 VALVE
CHRYSLER	5654	5.7L	345	300	2010 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	300	2010 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	CHALLENGER	2009 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	CHALLENGER	2009 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	CHARGER	2010 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	CHARGER	2010 - 2017	V8	EZH HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	DURANGO	2011 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	DURANGO	2011 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	Grand Cherokee	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	Grand Cherokee	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 1500	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 1500	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 2500	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 2500	2010 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 3500	2011 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 3500	2011 - 2017	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 3500 Chassis Cab	2011 - 2014	V8	HEMI 5.7	F.I.	O.H.V.	53022257AE	11-913	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
CHRYSLER	5654	5.7L	345	RAM 3500 Chassis Cab	2011 - 2014	V8	HEMI 5.7	F.I.	O.H.V.	53022258AE	11-913	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
FORD	4015	4.0L	245	EXPLORER	2001 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	XL2Z 6108 AA	11-914	100.40	1.20	1.50	3.00	12 VALVE
FORD	4015	4.0L	245	Explorer Sport Trac	2001 - 2005	V6	COLOGNE 40	F.I.	S.O.H.C.	XL2Z 6108 AA	11-914	100.40	1.20	1.50	3.00	Incl. TRUCK, 12 VALVE
FORD	4015	4.0L	245	Explorer Sport Trac	2007 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	XL2Z 6108 AA	11-914	100.40	1.20	1.50	3.00	Incl. TRUCK, 12 VALVE
FORD	4015	4.0L	245	MOUNTAINEER	2002 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	XL2Z 6108 AA	11-914	100.40	1.20	1.50	3.00	12 VALVE
FORD	4015	4.0L	245	MUSTANG	2005 - 2009	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6108 AA	11-914	100.40	1.20	1.50	3.00	12 VALVE
FORD	4015	4.0L	245	RANGER	2001 - 2011	V6	COLOGNE 40	F.I.	S.O.H.C.	XL2Z 6108 AA	11-914	100.40	1.20	1.50	3.00	VIN-E, 12 VALVE
FORD	6651	6.7L	406	ECONOLINE E450	2011 - 2014	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	ECONOLINE E550	2011 - 2014	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F250	2011 - 2015	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F350	2011 - 2017	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F450	2011 - 2017	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651	6.7L	406	F550	2011 - 2017	V8	Pow erStroke 6.7T	DIESEL	O.H.V.	BC3Z 6108 D	11-915	99.00	2.89	2.00	2.50	32 VALVE
CHRYSLER	3604	3.6L	220	200	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	300	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	AVENGER	2011 - 2014	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	CHALLENGER	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	CHARGER	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	DURANGO	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	Grand Caravan	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	Grand Cherokee	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	JOURNEY	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	PACIFICA	2017 - 2018	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	RAM CARGO VAN	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	RAM PROMASTER	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	TOWN & COUNTRY	2011 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	WRANGLER	2012 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	WRANGLER UNLIMITED	2012 - 2017	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	5184347AG	11-916	96.00	1.20	1.20	2.00	24 VALVE
CHRYSLER	3604	3.6L	220	ROUTAN	2011 - 2012	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	-	11-916	96.00	1.20	1.20	2.00	CHRYSLER Engine, 24 VALVE
GMC	3564	3.6L	217	ACADIA	2007 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	AURA	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	CTS	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	VIN 7, 24 VALVE
GMC	3564	3.6L	217	ENCLAVE	2008 ONLY	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	EQUINOX	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	G6	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	G8	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	LaCrosse	2005 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	MALIBU	2009 - 2012	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	OUTLOOK	2007 - 2010	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	RENDEZVOUS	2004 - 2006	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	SRX	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	STS	2005 - 2011	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE

NEW PISTON INFORMATION from YEAR 2015.

MAKER NAME	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.	PISTON REFERENCE NUMBER	NOA PISTON #	DIA. mm	1	2	O	REMARK
	cc	L	ci										S	N	1	
GMC	3564	3.6L	217	TORRENT	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
GMC	3564	3.6L	217	VUE	2008 ONLY	V6	Alloytec LY7	F.I.	D.O.H.C.	12590866	11-917	94.00	1.20	1.50	2.50	24 VALVE
FORD	4506	4.5L	275	LCF	2006 - 2010	V6	PowerStroke 4.5T	DIESEL	O.H.V.	3C3Z 6108 AA	11-918	95.00	2.25	2.00	3.50	24 VALVE
CHRYSLER	1998	2.0L	122	CALIBER	2007 - 2012	4	WORLD 2.0	F.I.	D.O.H.C.	5191337AA	11-919	86.00	1.20	1.20	2.00	16 VALVE
CHRYSLER	1998	2.0L	122	COMPASS	2007 - 2017	4	WORLD 2.0	F.I.	D.O.H.C.	5191337AA	11-919	86.00	1.20	1.20	2.00	16 VALVE
CHRYSLER	1998	2.0L	122	PATRIOT	2007 - 2017	4	WORLD 2.0	F.I.	D.O.H.C.	5191337AA	11-919	86.00	1.20	1.20	2.00	16 VALVE
GMC	5328	5.3L	325	AVALANCHE	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LMG, LY5, 16 VALVE
GMC	4818	4.8L	294	CUTAWAY G3500	2010 - 2017	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	4818	4.8L	294	EXPRESS G2500	2010 - 2017	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	4818	4.8L	294	EXPRESS G3500	2010 - 2017	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	4818	4.8L	294	SAVANA G2500	2010 - 2017	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	4818	4.8L	294	SAVANA G3500	2010 - 2017	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	4818	4.8L	294	SIERRA 1500	2010 - 2013	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	5328	5.3L	325	SIERRA 1500	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LH6, LMG, LY5, 16 VALVE
GMC	4818	4.8L	294	SILVERADO 1500	2010 - 2013	V8	Vortec 4800 L20	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	16 VALVE
GMC	5328	5.3L	325	SILVERADO 1500	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LH6, LMG, LY5, 16 VALVE
GMC	5328	5.3L	325	SUBURBAN (CH)	2007 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LMG, LY5, 16 VALVE
GMC	5328	5.3L	325	TAHOE	2010 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LMG, LY5, 16 VALVE
GMC	5328	5.3L	325	YUKON	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LH6, LMG, LY5, 16 VALVE
GMC	5328	5.3L	325	YUKON XL	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208675	11-920	96.00	1.50	1.50	3.00	LC9, LH6, LMG, LY5, 16 VALVE
SUBARU	2457	2.5L	150	FORESTER	2006 - 2010	H4	EJ253	F.I.	S.O.H.C.	12013AB250	11-921	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
SUBARU	2457	2.5L	150	FORESTER	2006 - 2010	H4	EJ253	F.I.	S.O.H.C.	12018AB250	11-921	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
SUBARU	2457	2.5L	150	IMPREZA	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12013AB250	11-921	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
SUBARU	2457	2.5L	150	IMPREZA	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12018AB250	11-921	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
SUBARU	2457	2.5L	150	LEGACY	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12013AB250	11-921	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
SUBARU	2457	2.5L	150	LEGACY	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12018AB250	11-921	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
SUBARU	2457	2.5L	150	OUTBACK H4	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12013AB250	11-921	99.50	1.20	1.20	2.00	RIGHT, 16 VALVE
SUBARU	2457	2.5L	150	OUTBACK H4	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12018AB250	11-921	99.50	1.20	1.20	2.00	LEFT, 16 VALVE
CHRYSLER	3952	4.0L	241	Grand Caraven	2008 - 2010	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4593589AA	11-922	96.00	1.20	1.50	3.00	24 VALVE
CHRYSLER	3952	4.0L	241	NITRO	2007 - 2011	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4593589AA	11-922	96.00	1.20	1.50	3.00	24 VALVE
CHRYSLER	3952	4.0L	241	PACIFICA	2007 - 2008	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4593589AA	11-922	96.00	1.20	1.50	3.00	24 VALVE
CHRYSLER	3952	4.0L	241	ROUTAN	2009 - 2010	V6	EGQ & EGS 4.0	F.I.	S.O.H.C.	4593589AA	11-922	96.00	1.20	1.50	3.00	CHRYSLER Engine, 24 VALVE
CHRYSLER	3293	3.3L	201	CARAVAN	2001 - 2008	V6	EGA 3.3	F.I.	O.H.V.	4897772AA	11-923	93.00	1.50	1.50	3.00	SH. Oil, 12 VALVE
CHRYSLER	3293	3.3L	201	Grand Caraven	2001 - 2005	V6	EGA 3.3	F.I.	O.H.V.	4897772AA	11-923	93.00	1.50	1.50	3.00	SH. Oil, 12 VALVE
CHRYSLER	3293	3.3L	201	Grand Caraven	2008 - 2010	V6	EGA 3.3	F.I.	O.H.V.	4897772AA	11-923	93.00	1.50	1.50	3.00	12 VALVE
CHRYSLER	3293	3.3L	201	TOWN & COUNTRY	2001 - 2010	V6	EGA 3.3	F.I.	O.H.V.	4897772AA	11-923	93.00	1.50	1.50	3.00	12 VALVE
CHRYSLER	3293	3.3L	201	VOYAGER	2001 - 2003	V6	EGA 3.3	F.I.	O.H.V.	4897772AA	11-923	93.00	1.50	1.50	3.00	12 VALVE

USA APPLICATIONS

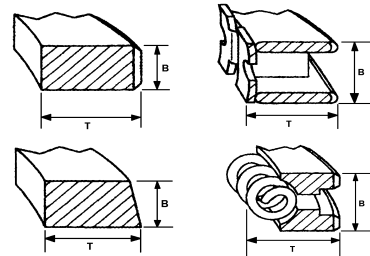
MAKER NAME



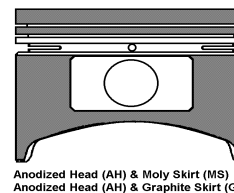
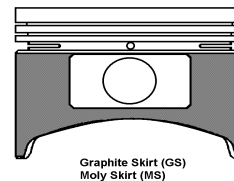
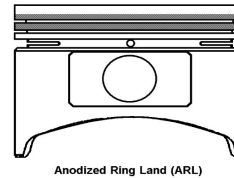
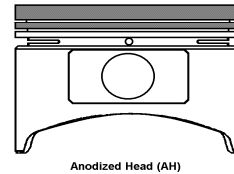
MAKER NAME

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
GENERAL ENGINE INFORMATION																
1	2	3	TOP:	5	x	7	9	10	11	27	28	TL:	30	PL:	35	CHK. DIA
			6	x	8	16	17	18	CH:			31	PD:	36		
			2ND:	12	x	14	16	17	18			DIST1:	32	HEAD:	37	39
			13	x	15	23	24	25			DIST2:	33	SKIRT:	38		
			OIL:	19	x	21						DIST3:	34			
			20	x	22											
	REFERENCE #:		26						REFERENCE #:	40			41			
	4								29							


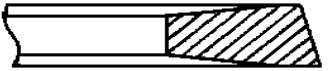

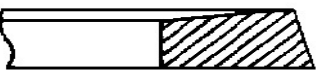









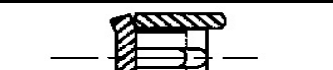

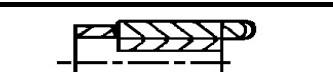
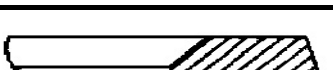

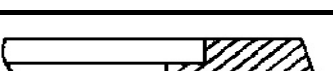


- 1 : ENGINE by FUEL TYPE
- 2 : PISTON RING PART NUMBER
- 3 : DIAMETER (mm)
- 4 : REFERENCE NUMBER for PISTON RINGS
- 5 : TOP RING WIDTH (mm)
- 6 : TOP RING WIDTH (inch)
- 7 : TOP RING RADIAL WALL THICKNESS (mm)
- 8 : TOP RING RADIAL WALL THICKNESS (inch)
- 9 : TOP RING SHAPE CODE
- 10 : TOP RING MATERIAL
- 11 : TOP RING SURFACE TREATMENT
- 12 : 2ND RING WIDTH (mm)
- 13 : 2ND RING WIDTH (inch)
- 14 : 2ND RING RADIAL WALL THICKNESS (mm)
- 15 : 2ND RING RADIAL WALL THICKNESS (inch)
- 16 : 2ND RING SHAPE CODE
- 17 : 2ND RING MATERIAL
- 18 : 2ND RING SURFACE TREATMENT
- 19 : OIL RING WIDTH (mm)
- 20 : OIL RING WIDTH (inch)
- 21 : OIL RING RADIAL WALL THICKNESS (mm)
- 22 : OIL RING RADIAL WALL THICKNESS (inch)
- 23 : OIL RING SHAPE CODE
- 24 : OIL RING MATERIAL
- 25 : OIL RING SURFACE TREATMENT
- 26 : PISTON RING SHAPE by GRAPHIC
- 27 : PISTON PART NUMBER
- 28 : DIAMETER (mm)
- 29 : REFERENCE NUMBER for PISTONS
- 30 : PISTON TOTAL LENGTH (mm)
- 31 : PISTON COMPRESSION HEIGHT (mm)
- 32 : (- or +) DISH or DOME (mm)
- 33 : (- or +) DISH or DOME (mm)
- 34 : (- or +) DISH or DOME (mm)
- 35 : PISTON PIN LENGTH (mm)
- 36 : PISTON PIN DIAMETER (mm)
- 37 : HEAD COATING
- 38 : SKIRT COATING
- 39 : MEASUREMENT POINT for CYLINDER CLEARANCE (mm)
from BOTTOM of SKIRT
- 40 : PISTON SHAPE by GRAPHIC
- 41 : CIRCLIP or NONE






B: WIDTH
T: RADIAL WALL THICKNESS

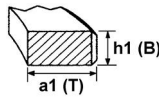


PISTON RING SHAPE

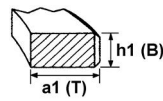
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	BF-IB Barrel Face Inner Bevel		T1-K2 Taper Face Single Keystone
	BF-K1 Barrel Face Double Keystone		TUC Taper Under Cut
	BF-K1-IB Barrel Face Double Keystone Inner Bevel		TUC-RB Taper Under Cut Reverse Bevel
	BF-K2 Barrel Face Single Keystone		TUH Taper Under Hook
	BF-K3 Barrel Face Single Keystone Reverse Bevel		ES-TUC Effective Seal Taper Under Cut
	B1-TUC Bevel Comp Taper Under Cut		NIFF-S Nifflex-S
	T1 Taper Face		NIFF-H Nifflex-H
	T1-IB Taper Face Inner Bevel		BC1, C1 Single Piece Dieselx
	T1-IC Taper Face Inner Cut		E-BC3, E-BC16 Two Pieces Dieselx
	T1-RB Taper Face Reverse Bevel		

JOINT SHAPE

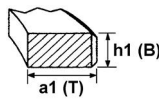
	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		



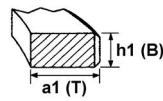
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1496CC),SOHC,4CYL, 73.00MM (2.874"), LEA / 2013-2015																
ILX HYBRID / 13-15	SWH30465-0	73.00	Top:	1.000	X	2.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30465-1	73.25		0.039		0.091										
	SWH30465-2	73.50	2nd:	1.000	X	2.300	TUC	STEEL	PHOSPHATE							
	SWH30465-3	73.75		0.039		0.091										
	SWH30465-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
		0.079	0.087													
REFERENCE #	TOP	2ND	OIL													
13011-RB1-004																
13011-RB1-006																
13011-RW0-004																
1.6L (97CID,1590CC),DOHC,4CYL, 75.00MM (2.953"), D16A1 / 1986-1987																
INTEGRA / 86-87	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	DISC-11-501-0	75.00					
	SWH30365-1	75.25		0.047		0.106										
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-501-2	75.50					
	SWH30365-3	75.75		0.059		0.126										
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-501-3	75.75					
		0.110	0.110													
REFERENCE #	TOP	2ND	OIL				REFERENCE #									
13011-P04-G02							13101-PG6-000									
13011-PJ1-752																
1.6L (97CID,1590CC),DOHC,4CYL, 75.00MM (2.953"), D16A1 / 1988-1989																
INTEGRA / 88-89	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-502-0	75.00	TL:	63.00	PL:	56.00	CHK.
	SWH30362-1	75.25		0.047		0.106							11-502-1	75.25	CH:	30.00
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-502-2	75.50	DIST1:	3.00	Head:	NONE	15.00
	SWH30362-3	75.75		0.059		0.126							11-502-3	75.75	DIST2:	
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-502-4	76.00	DIST3:				
		0.110	0.100													
REFERENCE #	TOP	2ND	OIL				REFERENCE #									
13011-P10-A03							13101-P29-000									
13011-P28-A02																
13011-PM6-G02																
1.7L (102CID,1678CC),DOHC,4CYL, 81.00MM (3.189"), B17A1 / 1992-1993																
INTEGRA / 92-93	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30373-1	81.25		0.039		0.122										
	SWH30373-2	81.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE							
	SWH30373-3	81.75		0.047		0.130										
	SWH30373-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME							
		0.110	0.106													
REFERENCE #	TOP	2ND	OIL													
13011-PR3-004																



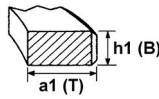
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), B18C1 / 1994-2001													
INTEGRA / 94-01	SWH30373-0	81.00	Top: 1.000 0.039	X	3.100 0.122	BF-IB	STEEL	CHROME	11-754-0	81.00	TL: 60.00	PL: 56.50	CHK. DIA 12.00
	SWH30373-1	81.25							11-754-1	81.25	CH: 30.20	PD: 21.00	
	SWH30373-2	81.50	2nd: 1.200 0.047	X	3.300 0.130	TUC	CAST IRON	PHOSPHATE	11-754-2	81.50	DIST1: -2.40	Head: NONE	
	SWH30373-3	81.75							11-754-3	81.75	DIST2: -4.80	Skirt: NONE	
	SWH30373-4	82.00	Oil: 2.800 0.110	X	2.700 0.106	NIFF-S	STEEL	CHROME	11-754-4	82.00	DIST3:		
REFERENCE # 13011-PR3-004	TOP	2ND	OIL	REFERENCE # 13010-P72-A00									
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), B18C5 / 1994-2001													
INTEGRA / 94-01	SWH30373-0	81.00	Top: 1.000 0.039	X	3.100 0.122	BF-IB	STEEL	CHROME	11-743-0	81.00	TL: 62.20	PL: 56.00	CHK. DIA 15.00
	SWH30373-1	81.25							11-743-1	81.25	CH: 30.40	PD: 21.00	
	SWH30373-2	81.50	2nd: 1.200 0.047	X	3.300 0.130	TUC	CAST IRON	PHOSPHATE	11-743-2	81.50	DIST1: 1.80	Head: NONE	
	SWH30373-3	81.75							11-743-3	81.75	DIST2:	Skirt: MS	
	SWH30373-4	82.00	Oil: 2.800 0.110	X	2.700 0.106	NIFF-S	STEEL	CHROME	11-743-4	82.00	DIST3:		
REFERENCE # 13011-PR3-004	TOP	2ND	OIL	REFERENCE # 13010-P73-A00									
1.8L (112CID,1835CC),DOHC,4CYL, 81.000MM (3.189"), B18A1 / 1990-1991													
INTEGRA / 90-91	SWH30373-0	81.00	Top: 1.000 0.039	X	3.100 0.122	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWH30373-1	81.25											
	SWH30373-2	81.50	2nd: 1.200 0.047	X	3.300 0.130	TUC	CAST IRON	PHOSPHATE					
	SWH30373-3	81.75											
	SWH30373-4	82.00	Oil: 2.800 0.110	X	2.700 0.106	NIFF-S	STEEL	CHROME					
REFERENCE # 13011-PR3-004	TOP	2ND	OIL										
1.8L (112CID,1835CC),DOHC,4CYL, 81.000MM (3.189"), B18A1 / 1992-1993													
INTEGRA / 92-93	SWH30373-0	81.00	Top: 1.000 0.039	X	3.100 0.122	BF-IB	STEEL	CHROME	11-753-0	81.00	TL: 60.00	PL: 56.00	CHK. DIA 6.00
	SWH30373-1	81.25							11-753-1	81.25	CH: 30.00	PD: 21.00	
	SWH30373-2	81.50	2nd: 1.200 0.047	X	3.300 0.130	TUC	CAST IRON	PHOSPHATE	11-753-2	81.50	DIST1: -1.60	Head: NONE	
	SWH30373-3	81.75							11-753-3	81.75	DIST2: -4.60	Skirt: NONE	
	SWH30373-4	82.00	Oil: 2.800 0.110	X	2.700 0.106	NIFF-S	STEEL	CHROME	11-753-4	82.00	DIST3:		
REFERENCE # 13011-PR3-004	TOP	2ND	OIL	REFERENCE # 13101-PR4-000									



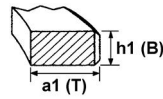
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1835CC),DOHC,4CYL, 81.000MM (3.189"), B18B1 / 1994-1999																
INTEGRA / 94-99	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME	11-733-0	81.00	TL:	60.00	PL:	56.00	CHK.
	SWH30373-1	81.25		0.039		0.122				11-733-1	81.25	CH:	30.00	PD:	21.00	DIA
	SWH30373-2	81.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE	11-733-2	81.50	DIST1:	-1.30	Head:	NONE	14.00
	SWH30373-3	81.75		0.047		0.130				11-733-3	81.75	DIST2:		Skirt:	NONE	
	SWH30373-4	82.00		Oil:		2.800				2.700	11-733-4	82.00	DIST3:			
			Oil:	0.110	0.106	NIFF-S	STEEL	CHROME								
	REFERENCE # 13011-PR3-004	TOP	2ND	OIL					REFERENCE # 13010-P54-000							
2.0L (122CID,1997CC),SOHC,4CYL, 81.000MM (3.189"), R20A3 / 2013-2015																
ILX / 13-15	SWH30484-0	81.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30484-1	81.25		0.047		0.098										
	SWH30484-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWH30484-3	81.75		0.047		0.134										
	SWH30484-4	82.00		Oil:		2.000										
			Oil:	0.079	0.098											
	REFERENCE # 13011-R9A-A01 13011-RNA-A01 13011-RNB-A02	TOP	2ND	OIL												
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), K20A2,K20Z1 / 2002-2006																
RSX / 02-06	SWH30454-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-866-0	86.00	TL:	54.00	PL:	52.20	CHK.
	SWH30454-1	86.25		0.047		0.114				11-866-1	86.25	CH:	29.50	PD:	21.97	DIA
	SWH30454-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-866-2	86.50	DIST1:	2.50	Head:	NONE	5.00
	SWH30454-3	86.75		0.047		0.134				11-866-3	86.75	DIST2:	-2.40	Skirt:	MS	
	SWH30454-4	87.00		Oil:		2.000				2.500	11-866-4	87.00	DIST3:			
			Oil:	0.079	0.098	NIFF-H	STEEL	NITRIDED								
	REFERENCE # 13011-PNE-G02 13011-PRA-E02	TOP	2ND	OIL					REFERENCE # 13010-PNC-000 13010-PNC-010							
2.3L (138CID,2260CC),SOHC,4CYL, 86.000MM (3.386"), F23A1 / 1998-1999																
CL / 98-99	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-781-0	86.00	TL:	51.50	PL:	54.00	CHK.
	SWH30443-1	86.25		0.047		0.114				11-781-1	86.25	CH:	30.02	PD:	21.97	DIA
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-781-2	86.50	DIST1:	-2.40	Head:	NONE	16.00
	SWH30443-3	86.75		0.047		0.134				11-781-3	86.75	DIST2:	-4.80	Skirt:	NONE	
	SWH30443-4	87.00		Oil:		2.800				2.850	11-781-4	87.00	DIST3:	-3.20		
			Oil:	0.110	0.112	NIFF-S	STEEL	CHROME								
	REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0	TOP	2ND	OIL					REFERENCE # 13010-PAA-A00							



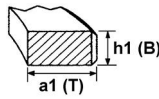
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A2 / 2004-2008											
TSX / 04-08	SWH30435-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWH30435-1	87.25		0.047		0.122					
	SWH30435-2	87.50	2nd:	1.200	X	3.400	TUC	DUCTILE IRON	CHROME		
	SWH30435-3	87.75		0.047		0.134					
	SWH30435-4	88.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED		
		0.098		0.096							
REFERENCE #	13011-RBB-006	TOP	2ND	OIL							
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24Z3 / 2009-2011											
TSX / 09-11	SWH30467-0	87.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWH30467-1	87.25		0.047		0.106					
	SWH30467-2	87.50	2nd:	1.200	X	3.400	TUC	DUCTILE IRON	CHROME		
	SWH30467-3	87.75		0.047		0.134					
	SWH30467-4	88.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	NITRIDED		
		0.079		0.096							
REFERENCE #	13011-RL5-A02	TOP	2ND	OIL							
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24Z3,K24Z7 / 2012-2015											
ILX / 13-15 TSX / 12-14 TSX SPORT WAGON / 12-14	SWH30488-0	87.00	Top:	1.200	X	2.650	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWH30488-1	87.25		0.047		0.104					
	SWH30488-2	87.50	2nd:	1.200	X	3.400	TUC	DUCTILE IRON	CHROME		
	SWH30488-3	87.75		0.047		0.134					
	SWH30488-4	88.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	CHROME		
		0.079		0.098							
REFERENCE #	13011-R40-A12 13011-R44-A01	TOP	2ND	OIL							
2.5L (150CID,2456CC),SOHC,5CYL, 85.000MM (3.346"), G25A1 / 1992-1994											
VIGOR / 92-94	SWH30367-0	85.00	Top:	1.200	X	3.150	BF	STEEL	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWH30367-1	85.25		0.047		0.124					
	SWH30367-2	85.50	2nd:	1.200	X	3.500	T1	CAST IRON	PHOSPHATE		
	SWH30367-3	85.75		0.047		0.138					
	SWH30367-4	86.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME		
		0.110		0.110							
REFERENCE #	13011-PV1-003	TOP	2ND	OIL							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2494CC),SOHC,6CYL, 84.00MM (3.307"), C25A1 / 1986-1987																
LEGEND / 86-87	SWH30369-0	84.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	DISC-11-506-0	84.00					
	SWH30369-1	84.25		0.047		0.120							DISC-11-506-1	84.25		
	SWH30369-2	84.50	2nd:	1.200	X	3.600	T1-IB	CAST IRON	PHOSPHATE	DISC-11-506-2	84.50					
	SWH30369-3	84.75		0.047		0.142							DISC-11-506-3	84.75		
	SWH30369-4	85.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-506-4	85.00					
		0.157	0.128													
	REFERENCE # 13011-PH7-004	TOP	2ND	OIL					REFERENCE # 13101-PH7-000							
2.7L (163CID,2675CC),SOHC,6CYL, 87.00MM (3.425"), C27A1 / 1987-1990																
LEGEND / 87-90	SWH30370-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	DISC-11-783-0	87.00					
	SWH30370-1	87.25		0.047		0.122							DISC-11-783-1	87.25		
	SWH30370-2	87.50	2nd:	1.200	X	3.500	T1-IB	CAST IRON	PHOSPHATE	DISC-11-783-2	87.50					
	SWH30370-3	87.75		0.047		0.138							DISC-11-783-3	87.75		
	SWH30370-4	88.00	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	DISC-11-783-4	88.00					
		0.157	0.124													
	REFERENCE # 13011-P0G-A01 13011-P0G-A02	TOP	2ND	OIL					REFERENCE # 13010-P0G-A00 13101-PL2-000							
3.0L (183CID,2997CC),SOHC,6CYL, 86.00MM (3.386"), J30A1 / 1997-1999																
CL / 97-99	SWH30432-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-791-0	86.00	TL:	51.50	PL:	54.00	CHK.
	SWH30432-1	86.25		0.047		0.114							11-791-1	86.25	CH:	30.00
	SWH30432-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-791-2	86.50	DIST1:	-0.80	Head:	NONE	
	SWH30432-3	86.75		0.047		0.134							11-791-3	86.75	DIST2:	
	SWH30432-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-791-4	87.00	DIST3:				
		0.110	0.112													
	REFERENCE # 13011-P8A-A01 13011-RCA-A01	TOP	2ND	OIL					REFERENCE # 13010-P8A-000 13010-P8A-A00							
3.2L (193CID,3165CC),SOHC,6CYL, 93.40MM (3.677"), 6VD1 / 1996-1997																
SLX / 96-97	SWI10185-0	93.40	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-686-0	93.40	TL:	65.20	PL:	66.00	CHK.
	SWI10185-1	93.65		0.059		0.136							11-686-1	93.65	CH:	31.70
	SWI10185-2	93.90	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	11-686-2	93.90	DIST1:		Head:	NONE	
	SWI10185-3	94.15		0.059		0.157							11-686-3	94.15	DIST2:	
	SWI10185-4	94.40	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	11-686-4	94.40	DIST3:				
		0.157	0.124													
	REFERENCE # 8-97162-198-0	TOP	2ND	OIL					REFERENCE # 8-94374-965-1							



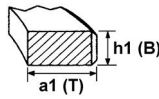
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
3.2L (196CID,3206CC),SOHC,6CYL, 90.000MM (3.543"), C32A1,C32A6 / 1991-1998															
LEGEND / 91-95 TL / 96-98	SWH30371-0	90.00	Top: 1.200 0.047	X	3.300 0.130	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30371-1	90.25													
	SWH30371-2	90.50	2nd: 1.200 0.047	X	3.700 0.146	T1	CAST IRON	PHOSPHATE							
	SWH30371-3	90.75													
	SWH30371-4	91.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	NITRIDED							
REFERENCE # 13011-P5G-004 13011-PY3-003	TOP	2ND	OIL												
3.2L (196CID,3210CC),SOHC,6CYL, 89.000MM (3.504"), J32A1,J32A2, 3 / 1999-2008															
CL-S / 01-03 TL / 99-08 TL-S / 02-03	SWH30438-0	89.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30438-1	89.25													
	SWH30438-2	89.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE							
	SWH30438-3	89.75													
	SWH30438-4	90.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME							
REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	TOP	2ND	OIL												
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A1,J35A3 / 2001-2008															
MDX / 01-06 TL / 08-08	SWH30438-0	89.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-836-0	89.00	TL:	51.50	PL:	54.00	CHK. DIA 7.00
	SWH30438-1	89.25							11-836-1	89.25	CH:	30.00	PD:	21.97	
	SWH30438-2	89.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-836-2	89.50	DIST1:	-1.20	Head:	NONE	
	SWH30438-3	89.75							11-836-3	89.75	DIST2:		Skirt:	MS	
	SWH30438-4	90.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-836-4	90.00	DIST3:				
REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	TOP	2ND	OIL				REFERENCE # 13010-PGK-A01 13010-RDA-A00 13010-RGL-A00 13010-RGM-A00 13101-RGL-100								



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A6,J35A8,J35Y4,J35Z2,J35Z6 / 2005-2017																	
RDX / 13-17 RL / 05-08 RLX / 14-16 TL / 09-14 TL-S / 07-08 TSX / 11-13	SWH30438-0 SWH30438-1 SWH30438-2 SWH30438-3 SWH30438-4	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.800 0.110	X X X	3.050 0.120 3.400 0.134 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
TSX SPORT WAGON / 12-14	REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	TOP 2ND OIL															
3.5L (213CID,3494CC),SOHC,6CYL, 93.400MM (3.677"), 6VE1 / 1998-1999																	
SLX / 98-99	SWI10191-0 SWI10191-1 SWI10191-2 SWI10191-3 SWI10191-4	93.40 93.65 93.90 94.15 94.40	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.250 0.128 4.000 0.157 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME		11-793-0 11-793-1 11-793-2 11-793-3 11-793-4	93.40 93.65 93.90 94.15 94.40	TL: CH: DIST1: DIST2: DIST3:	52.70 29.70 -3.00	PL: PD: Head: Skirt:	66.00 22.00 NONE NONE	CHK. DIA 15.00
	REFERENCE # 8-97136-135-0	TOP 2ND OIL									REFERENCE # 8-97136-315-3 8-97163-315-3						
3.7L (224CID,3664CC),SOHC,6CYL, 90.000MM (3.543"), J37A1 / 2007-2009																	
MDX / 07-09	SWH30468-0 SWH30468-1 SWH30468-2 SWH30468-3 SWH30468-4	90.00 90.25 90.50 90.75 91.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.800 0.110	X X X	3.100 0.122 3.400 0.134 2.800 0.110	BF-IB ES-TUC NIFF-S	STEEL DUCTILE IRON STEEL	NITRIDED CHROME NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	REFERENCE # 13011-RYE-A01	TOP 2ND OIL															
3.7L (224CID,3664CC),SOHC,6CYL, 90.000MM (3.543"), J37A1,J37A2,J37A4,J37A5 / 2009-2014																	
MDX / 10-13 RL / 09-12 TL / 09-14 ZDX / 10-13	SDH30469-0 SDH30469-1 SDH30469-2 SDH30469-3 SDH30469-4	90.00 90.25 90.50 90.75 91.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.000 0.079	X X X	3.100 0.122 3.400 0.134 2.750 0.108	BF-IB TUC E-BC16	STEEL DUCTILE IRON STEEL	NITRIDED CHROME NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	REFERENCE # 13011-RKG-A01 13011-RKG-E02	TOP 2ND OIL															

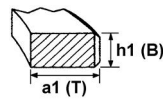


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), AEB / 2000-2006													
A4 AVANT / 00-06	SWL03456-0	81.00	Top: 1.500 0.059	X	3.050 0.120	BF	STEEL	CHROME	11-872-0	TL: 53.70 CH: 32.70 DIST1: -1.90 DIST2: DIST3: PL: 50.00 PD: 19.00 Head: AH Skirt: MS CHK. DIA 8.00			
	SWL03456-1	81.25							11-872-1		81.25		
	SWL03456-2	81.50	2nd: 1.750 0.069	X	3.450 0.136	TUC	CAST IRON	PHOSPHATE	11-872-2		81.50		
	SWL03456-3	81.75							11-872-3		81.75		
	SWL03456-4	82.00	Oil: 2.000 0.079	X	2.800 0.110	NIFF-H	STEEL	NITRIDED	11-872-4		82.00		
REFERENCE # 058 198 151 B 06B 198 151 B	TOP	2ND	OIL	REFERENCE # 058 107 065 F 06B 107 065 N									
1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), ATC, AMU / 2000-2006													
TT / 00-06	SWL03456-0	81.00	Top: 1.500 0.059	X	3.050 0.120	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWL03456-1	81.25										11-872-1	81.25
	SWL03456-2	81.50	2nd: 1.750 0.069	X	3.450 0.136	TUC	CAST IRON	PHOSPHATE				11-872-2	81.50
	SWL03456-3	81.75										11-872-3	81.75
	SWL03456-4	82.00	Oil: 2.000 0.079	X	2.800 0.110	NIFF-H	STEEL	NITRIDED				11-872-4	82.00
REFERENCE # 058 198 151 B 06B 198 151 B	TOP	2ND	OIL										
1.8L (109CID,1786CC),SOHC,4CYL, 81.000MM (3.189"), MG / 1985-1987													
4000 / 85-87	SWL02405-0	81.00	Top: 1.500 0.059	X	3.350 0.132	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWL02405-1	81.25										11-872-1	81.25
	SWL02405-2	81.50	2nd: 1.750 0.069	X	3.350 0.132	TUC	CAST IRON	PHOSPHATE				11-872-2	81.50
	SWL02405-3	81.75										11-872-3	81.75
	SWL02405-4	82.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME				11-872-4	82.00
REFERENCE # 026 198 151 A	TOP	2ND	OIL										
2.0L (121CID,1984CC),DOHC,4CYL, 82.500MM (3.248"), ABK, AAD,ADY, ABA / 2005-2012 TURBO													
A3 / 06-12 A4 / 05-12 A4 AVANT / 06-12 A5 / 10-12 Q5 / 11-12 TT / 08-12	SWL03461-0	82.50	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWL03461-1	82.75										11-872-1	82.75
	SWL03461-2	83.00	2nd: 1.500 0.059	X	3.450 0.136	TUC	CAST IRON	PHOSPHATE				11-872-2	83.00
	SWL03461-3	83.25										11-872-3	83.25
	SWL03461-4	83.50	Oil: 2.000 0.079	X	2.800 0.110	NIFF-S	STEEL	NITRIDED				11-872-4	83.50
REFERENCE # 053 198 151 C 06A 198 151 C 06D 198 151 B 06D 198 151 G 06F 198 151 A	TOP	2ND	OIL										



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.7L (163CID,2671CC),DOHC,6CYL, 81.000MM (3.189"), APB / 2000-2002										
S4 / 00-02	SWL03340-0 6	81.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWL03340-1 6	81.25		0.047		0.114				
	SWL03340-2 6	81.50	2nd:	1.500	X	3.350	TUC	DUCTILE IRON	CHROME	
	SWL03340-3 6	81.75		0.059		0.132				
	SWL03340-4 6	82.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	
		0.079	0.110							
	REFERENCE # 058 198 151 B		TOP	2ND	OIL					
2.8L (169CID,2771CC),DOHC,6CYL, 82.500MM (3.248"), AHA / 1998-2001										
A4 / 98-01 A4 AVANT / 98-98 A6 / 98-01	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWL03296-1 6	82.75		0.047		0.122				
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME	
	SWL03296-3 6	83.25		0.059		0.136				
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED	
		0.079	0.110							
	REFERENCE # 06A 198 151 C 06C 198 151 B		TOP	2ND	OIL					
2.8L (169CID,2771CC),SOHC,6CYL, 82.500MM (3.248"), AAH,AFC / 1992-1998										
100 / 92-94 A4 / 96-97 A6 / 95-97 CABRIOLET / 96-98	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWL03296-1 6	82.75		0.047		0.122				
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME	
	SWL03296-3 6	83.25		0.059		0.136				
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED	
		0.079	0.110							
	REFERENCE # 06A 198 151 C 06C 198 151 B		TOP	2ND	OIL					
3.0L (182CID,2976CC),DOHC,6CYL, 82.500MM (3.248"), AVK, BGN / 2002-2005										
A4 / 02-05 A4 AVANT / 02-05 A6 / 02-04 A6 AVANT / 02-04	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWL03296-1 6	82.75		0.047		0.122				
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME	
	SWL03296-3 6	83.25		0.059		0.136				
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED	
		0.079	0.110							
	REFERENCE # 06A 198 151 C 06C 198 151 B		TOP	2ND	OIL					

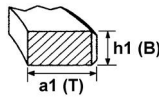
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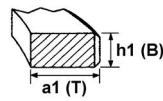
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.4L (86CID,1410CC),SOHC,4CYL, 74.00MM (2.913"), G12B / 1979-1984													
CHAMP / 79-82	SWM31027-0	74.00	Top: 1.500	X	3.300	BF	CAST IRON	CHROME	11-020-0	74.00	TL: 58.00	PL: 60.00	CHK.
COLT / 79-84	SWM31027-1	74.25	0.059		0.130				11-020-1	74.25	CH: 29.00	PD: 18.00	DIA
	SWM31027-2	74.50	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-020-2	74.50	DIST1: -1.50	Head: NONE	10.00
	SWM31027-3	74.75	0.059		0.130				11-020-3	74.75	DIST2:	Skirt: NONE	
	SWM31027-4	75.00	Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME	11-020-4	75.00	DIST3:		
	REFERENCE # MD031700		TOP		2ND		OIL		REFERENCE # MD030322				
1.5L (90CID,1468CC),SOHC,4CYL, 75.50MM (2.972"), 4G15 / 1991-1995													
COLT / 91-94	SWM31076-0	75.50	Top: 1.200	X	2.700	BF	STEEL	NITRIDED	11-531-0	75.50	TL: 58.00	PL: 56.00	CHK.
SUMMIT / 91-95	SWM31076-1	75.75	0.047		0.106				11-531-1	75.75	CH: 29.00	PD: 18.00	DIA
	SWM31076-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-531-2	76.00	DIST1: -0.50	Head: NONE	19.00
	SWM31076-3	76.25	0.059		0.130				11-531-3	76.25	DIST2:	Skirt: NONE	
	SWM31076-4	76.50	Oil: 3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-531-4	76.50	DIST3:		
	REFERENCE # MD158549 MD180804		TOP		2ND		OIL		REFERENCE # MD144901 MD320435				
1.5L (90CID,1468CC),SOHC,4CYL, 75.50MM (2.972"), 4G15 / 1995-1996													
SUMMIT / 95-96	SWM31076-0	75.50	Top: 1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWM31076-1	75.75	0.047		0.106								
	SWM31076-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE					
	SWM31076-3	76.25	0.059		0.130								
	SWM31076-4	76.50	Oil: 3.000	X	2.800	NIFF-S	STEEL	NITRIDED					
	REFERENCE # MD158549 MD180804		TOP		2ND		OIL						
1.5L (90CID,1468CC),SOHC,4CYL, 75.50MM (2.972"), 4G15,G15B / 1987-1990													
COLT / 87-90	SWM31063-0	75.50	Top: 1.500	X	2.850	BF	STEEL	CHROME	11-530-0	75.50	TL: 58.60	PL: 60.00	CHK.
SUMMIT / 89-90	SWM31063-1	75.75	0.059		0.112				11-530-1	75.75	CH: 29.40	PD: 18.00	DIA
	SWM31063-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-530-2	76.00	DIST1: -3.60	Head: NONE	10.00
	SWM31063-3	76.25	0.059		0.130				11-530-3	76.25	DIST2:	Skirt: NONE	
	SWM31063-4	76.50	Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME	11-530-4	76.50	DIST3:		
	REFERENCE # 23040-21210 23040-24200 MD074725 MD156165 MD156169		TOP		2ND		OIL		REFERENCE # 23410-24110 MD099770				

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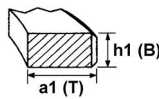
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G15B / 1985-1986																
COLT / 85-86	SWM31063-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-529-0	75.50	TL:	58.00	PL:	60.00	CHK. DIA
	SWM31063-1	75.75		0.059		0.112				11-529-1	75.75	CH:	29.00	PD:	18.00	
	SWM31063-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-529-2	76.00	DIST1:	-0.70	Head:	NONE	
	SWM31063-3	76.25		0.059		0.130				11-529-3	76.25	DIST2:		Skirt:	NONE	
	SWM31063-4	76.50		0.059		0.130				11-529-4	76.50	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	23040-21210								23410-21114							
	23040-24200								MD074715							
	MD074725															
	MD156165															
	MD156169															
1.6L (97CID,1597CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1989-1990																
COLT / 89-90	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	DISC-11-546-0	82.30					
	SWM31049-1	82.55		0.047		0.122				DISC-11-546-1	82.55					
	SWM31049-2	82.80	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-546-2	82.80					
	SWM31049-3	83.05		0.059		0.150				DISC-11-546-3	83.05					
	SWM31049-4	83.30		0.059		0.150				DISC-11-546-4	83.30					
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	23040-33030								MD129932							
	MD133495															
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1976-1984																
ARROW / 76-77 CHALLENGER / 78-79 CHAMP / 79-82 COLT / 79-84	SWM31005-0	76.90	Top:	2.000	X	3.500	BF	CAST IRON	CHROME	DISC-11-023-0	76.90					
	SWM31005-1	77.15		0.079		0.138				DISC-11-023-1	77.15					
	SWM31005-2	77.40	2nd:	2.000	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-023-2	77.40					
	SWM31005-3	77.65		0.079		0.138				DISC-11-023-3	77.65					
	SWM31005-4	77.90		0.079		0.138				DISC-11-023-4	77.90					
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	MD110632								MD009521							
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1984-1986 TURBO																
COLT / 84-86	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-024-0	76.90					
	SWM31043-1	77.15		0.059		0.122				DISC-11-024-1	77.15					
	SWM31043-2	77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-024-2	77.40					
	SWM31043-3	77.65		0.059		0.138				DISC-11-024-3	77.65					
	SWM31043-4	77.90		0.059		0.138				DISC-11-024-4	77.90					
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	MD012765								MD074471							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),SOHC,4CYL, 76.90MM (3.028"), G32B / 1987-1990 TURBO																
COLT / 87-90	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-532-0	76.90					
	SWM31043-1	77.15		0.059		0.122				DISC-11-532-1	77.15					
	SWM31043-2	77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-532-2	77.40					
	SWM31043-3	77.65		0.059		0.138				DISC-11-532-3	77.65					
	SWM31043-4	77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-532-4	77.90					
	REFERENCE # MD012765	TOP	2ND	OIL					REFERENCE # MD100254							
1.7L (105CID,1715CC),SOHC,4CYL, 79.50MM (3.130"), VW / 1978-1983																
HORIZON / 78-83 OMNI / 78-83 TC3 / 82-82 TURISMO / 83-83	SWL01402-0	79.50	Top:	1.750	X	3.300	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL01402-1	79.75		0.069		0.130										
	SWL01402-2	80.00	2nd:	2.000	X	3.300	TUC	CAST IRON	PHOSPHATE							
	SWL01402-3	80.25		0.079		0.130										
	SWL01402-4	80.50	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME							
	REFERENCE # 4186268	TOP	2ND	OIL												
1.8L (107CID,1755CC),SOHC,4CYL, 80.600MM (3.173"), 4G37 / 1989-1994																
COLT / 89-90 LASER / 90-94 TALON / 93-94	SWM31041-0	80.60	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-545-0	80.60	TL:	72.00	PL:	64.00	CHK.
	SWM31041-1	80.85		0.059		0.136				11-545-1	80.85	CH:	34.00	PD:	19.00	DIA
	SWM31041-2	81.10	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-545-2	81.10	DIST1:	4.00	Head:	NONE	15.00
	SWM31041-3	81.35		0.059		0.146				11-545-3	81.35	DIST2:		Skirt:	NONE	
	SWM31041-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-545-4	81.60	DIST3:				
	REFERENCE # MD040465	TOP	2ND	OIL					REFERENCE # MD100416							
1.8L (110CID,1798CC),DOHC,4CYL, 86.000MM (3.386"), WORLD 1.8 / 2007-2009																
CALIBER / 07-09	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30042-1	86.25		0.047		0.120										
	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG30042-3	86.75		0.047		0.142										
	SWG30042-4	87.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME							
	REFERENCE # 1110A436 23040-2C400 5191418AB	TOP	2ND	OIL												

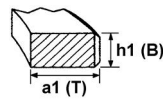
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1992-1992																
COLT VISTA / 92-92 SUMMIT / 92-92	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	DISC-11-548-0	81.00					
	SWM31079-1	81.25		0.047		0.126				DISC-11-548-1	81.25					
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-548-2	81.50					
	SWM31079-3	81.75		0.047		0.142				DISC-11-548-3	81.75					
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	DISC-11-548-4	82.00					
		0.110	0.106													
	REFERENCE # MD173206		TOP		2ND		OIL			REFERENCE # MD183457						
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1993-1996																
COLT / 94-94 COLT VISTA / 93-94 SUMMIT / 93-96	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	11-767-0	81.00	TL:	60.00	PL:	58.00	CHK. DIA
	SWM31079-1	81.25		0.047		0.126				11-767-1	81.25	CH:	30.80	PD:	19.00	
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-767-2	81.50	DIST1:	0.20	Head:	NONE	10.00
	SWM31079-3	81.75		0.047		0.142				11-767-3	81.75	DIST2:		Skirt:	NONE	
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	11-767-4	82.00	DIST3:				
		0.110	0.106													
	REFERENCE # MD173206		TOP		2ND		OIL			REFERENCE # MD318097						
2.0L (122CID,1994CC),SOHC,4CYL, 84.000MM (3.307"), G52B / 1976-1982																
ARROW / 76-78 ARROW PICKUP / 79-82	SWM30074-0	84.00	Top:	2.000	X	3.600	BF	DUCTILE IRON	CHROME	DISC-11-026-0	84.00					
	SWM30074-1	84.25		0.079		0.142				DISC-11-026-1	84.25					
	SWM30074-2	84.50	2nd:	2.000	X	3.700	T1	CAST IRON	CHROME	DISC-11-026-2	84.50					
	SWM30074-3	84.75		0.079		0.146				DISC-11-026-3	84.75					
	SWM30074-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-026-4	85.00					
		0.157	0.150													
	REFERENCE # MD021070		TOP		2ND		OIL			REFERENCE # MD021192						
2.0L (122CID,1996CC),DOHC,4CYL, 87.500MM (3.445"), 420A / 1995-1995																
NEON / 95-95	SWM31120-0	87.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31120-1	87.75		0.047		0.136										
	SWM31120-2	88.00	2nd:	1.200	X	4.000	T1	CAST IRON	PHOSPHATE							
	SWM31120-3	88.25		0.047		0.157										
	SWM31120-4	88.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
		0.118	0.114													
	REFERENCE # 4741401 M04741401		TOP		2ND		OIL									

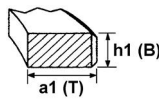
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (122CID,1996CC),DOHC,4CYL, 87.500MM (3.445"), 420A / 1995-1999													
AVENGER / 95-99	SWM31120-0	87.50	Top: 1.200	X	3.450	BF	STEEL	CHROME	11-735-0	87.50	TL: 64.80	PL: 75.00	CHK. 13.00
NEON / 95-99	SWM31120-1	87.75	0.047		0.136				11-735-1	87.75	CH: 31.40	PD: 21.00	DIA
SEBRING / 95-99	SWM31120-2	88.00	2nd: 1.200	X	4.000	T1	CAST IRON	PHOSPHATE	11-735-2	88.00	DIST1: 0.90	Head: NONE	
TALON / 95-98	SWM31120-3	88.25	0.047		0.157				11-735-3	88.25	DIST2:	Skirt: NONE	
	SWM31120-4	88.50	Oil: 3.000	X	2.900	NIFF-S	STEEL	CHROME	11-735-4	88.50	DIST3:		
			0.118		0.114								
REFERENCE # 4741401 M04741401		TOP 2ND OIL						REFERENCE # 4797613 M04741372 M04797613					
2.0L (122CID,1996CC),SOHC,4CYL, 87.500MM (3.445"), A588 / 1995-2005													
BREEZE / 96-00	SWM31120-0	87.50	Top: 1.200	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
CIRRUS / 00-00	SWM31120-1	87.75	0.047		0.136								
NEON / 95-05	SWM31120-2	88.00	2nd: 1.200	X	4.000	T1	CAST IRON	PHOSPHATE					
STRATUS / 95-00	SWM31120-3	88.25	0.047		0.157								
	SWM31120-4	88.50	Oil: 3.000	X	2.900	NIFF-S	STEEL	CHROME					
			0.118		0.114								
REFERENCE # 4741401 M04741401		TOP 2ND OIL											
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1990-1994													
LASER / 90-94	SWM31048-0	85.00	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	11-540-0	85.00	TL: 67.00	PL: 66.00	CHK. 10.00
TALON / 90-92	SWM31048-1	85.25	0.047		0.122				11-540-1	85.25	CH: 35.00	PD: 21.00	DIA
	SWM31048-2	85.50	2nd: 1.500	X	3.800	TUC	CAST IRON	CHROME	11-540-2	85.50	DIST1: -2.10	Head: NONE	
	SWM31048-3	85.75	0.059		0.150				11-540-3	85.75	DIST2:	Skirt: NONE	
	SWM31048-4	86.00	Oil: 3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-540-4	86.00	DIST3:		
			0.118		0.100								
REFERENCE # MD140923 MD144245		TOP 2ND OIL						REFERENCE # MD129922					
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1990-1994 TURBO													
LASER / 90-94	SWM31048-0	85.00	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	11-546-0	85.00	TL: 67.00	PL: 66.00	CHK. 26.00
TALON / 90-92	SWM31048-1	85.25	0.047		0.122				11-546-1	85.25	CH: 35.00	PD: 21.00	DIA
	SWM31048-2	85.50	2nd: 1.500	X	3.800	TUC	CAST IRON	CHROME	11-546-2	85.50	DIST1: -5.40	Head: AH	
	SWM31048-3	85.75	0.059		0.150				11-546-3	85.75	DIST2:	Skirt: NONE	
	SWM31048-4	86.00	Oil: 3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-546-4	86.00	DIST3:		
			0.118		0.100								
REFERENCE # MD140923 MD144245		TOP 2ND OIL						REFERENCE # MD129232 MD129923					

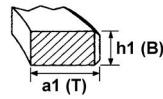
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1992-1994														
LASER / 92-94 TALON / 93-94	SWM31071-0 SWM31071-1 SWM31071-2 SWM31071-3 SWM31071-4	85.00 85.25 85.50 85.75 86.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	11-718-0 11-718-1 11-718-2 11-718-3 11-718-4	85.00 85.25 85.50 85.75 86.00	TL: 67.00 CH: 35.00 DIST1: -2.20 DIST2: -3.60 DIST3:	PL: 62.00 PD: 22.00 Head: NONE Skirt: NONE	62.00 22.00 NONE NONE	CHK. DIA 10.00
	REFERENCE # MD176437 MD195867	TOP 	2ND 	OIL 		REFERENCE # MD190262								
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1992-1994 TURBO														
LASER / 92-94 TALON / 93-94	SWM31071-0 SWM31071-1 SWM31071-2 SWM31071-3 SWM31071-4	85.00 85.25 85.50 85.75 86.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	11-719-0 11-719-1 11-719-2 11-719-3 11-719-4	85.00 85.25 85.50 85.75 86.00	TL: 67.00 CH: 35.00 DIST1: -5.40 DIST2: DIST3:	PL: 62.00 PD: 22.00 Head: AH Skirt: NONE	62.00 22.00 NONE NONE	CHK. DIA 10.00
	REFERENCE # MD176437 MD195867	TOP 	2ND 	OIL 		REFERENCE # MD308200								
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1995-1998														
TALON / 95-98	SWM31103-0 SWM31103-1 SWM31103-2 SWM31103-3 SWM31103-4	85.00 85.25 85.50 85.75 86.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	11-758-0 11-758-1 11-758-2 11-758-3 11-758-4	85.00 85.25 85.50 85.75 86.00	TL: 67.00 CH: 35.00 DIST1: -3.30 DIST2: DIST3:	PL: 62.00 PD: 22.00 Head: AH Skirt: NONE	62.00 22.00 NONE NONE	CHK. DIA 10.00
	REFERENCE # MD195805 MD313405	TOP 	2ND 	OIL 		REFERENCE # MD307820								
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1983-1986														
COLT VISTA / 84-86 OMNI / 84-85 RAM 50 / 83-86	SWM31013-0 SWM31013-1 SWM31013-2 SWM31013-3 SWM31013-4	85.00 85.25 85.50 85.75 86.00	Top: 2.000 0.079	X	3.100 0.122	BF	STEEL	NITRIDED	11-027-0 11-027-1 11-027-2 11-027-3 11-027-4	85.00 85.25 85.50 85.75 86.00	TL: 72.20 CH: 35.20 DIST1: -5.20 DIST2: -7.70 DIST3:	PL: 72.00 PD: 21.00 Head: NONE Skirt: NONE	72.00 21.00 NONE NONE	CHK. DIA 30.00
	REFERENCE # MD040640	TOP 	2ND 	OIL 		REFERENCE # MD040591								

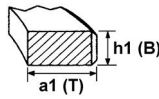
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1987-1991													
COLT VISTA / 87-91	SWM31044-0	85.00	Top: 1.500 0.059	X	3.500 0.138	BF	STEEL	CHROME	11-539-0	85.00	TL: 72.30	PL: 72.00	CHK. DIA 17.00
RAM 50 / 87-89	SWM31044-1	85.25							11-539-1	85.25	CH: 35.20	PD: 21.00	
	SWM31044-2	85.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-539-2	85.50	DIST1: -5.00	Head: NONE	
	SWM31044-3	85.75							11-539-3	85.75	DIST2: -7.30	Skirt: NONE	
	SWM31044-4	86.00	Oil: 4.000 0.157	X	3.300 0.130	NIFF-S	STEEL	CHROME	11-539-4	86.00	DIST3:		
	REFERENCE # MD100467	TOP	2ND	OIL			REFERENCE # MD100372						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), WORLD 2.0 / 2007-2015													
CALIBER / 07-12	SWG30042-0	86.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-919-0	86.00	TL: 50.50	PL: 58.00	CHK. DIA 15.00
COMPASS / 07-15	SWG30042-1	86.25							11-919-1	86.25	CH: 27.20	PD: 21.00	
PATRIOT / 07-15	SWG30042-2	86.50	2nd: 1.200 0.047	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-919-2	86.50	DIST1: 1.30	Head: NONE	
	SWG30042-3	86.75							11-919-3	86.75	DIST2: -1.50	Skirt: MS	
	SWG30042-4	87.00	Oil: 2.000 0.079	X	2.450 0.096	NIFF-H	STEEL	CHROME	11-919-4	87.00	DIST3: -3.20		
	REFERENCE # 1110A436 23040-2C400 5191418AB	TOP	2ND	OIL			REFERENCE # 5191337AA						
2.2L (135CID,2212CC),DOHC,4CYL, 87.500MM (3.445"), K 2.2T / 1986-1993 TURBO													
CARAVELLE / 86-88	SWC10003-0	87.50	Top: 1.500 0.059	X	3.800 0.150	BF	CAST IRON	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>				
DAYTONA / 89-93	SWC10003-1	87.75											
LANCER / 89-89	SWC10003-2	88.00	2nd: 1.500 0.059	X	3.800 0.150	NIFF-S	STEEL	CHROME					
LeBARON / 86-90	SWC10003-3	88.25	Oil: 4.000 0.157	X	3.800 0.150								
LeBARON GTS / 86-88	SWC10003-4	88.50											
SHADOW / 87-90	AM Ring Available												
SPIRIT / 91-92	REFERENCE # 4411977 4626575 4626636 4636499	TOP	2ND	OIL									

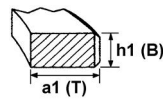
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.2L (135CID,2212CC),SOHC,4CYL, 87.500MM (3.445"), K,K 2.2,K 2.2T / 1981-1994													
400 / 82-83	SWC10003-0	87.50	1.500	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
600 / 83-88	SWC10003-1	87.75	0.059		0.150								
ARIES / 81-89	SWC10003-2	88.00	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE					
CARAVAN / 84-87	SWC10003-3	88.25	0.059		0.157								
CARAVELLE / 85-88	SWC10003-4	88.50	4.000	X	3.800	NIFF-S	STEEL	CHROME					
CHARGER / 83-87	AM Ring Available		0.157		0.150								
DAKOTA / 87-88	REFERENCE #		TOP		2ND	OIL							
DAYTONA / 84-90	4411977												
E CLASS / 83-84	4626575												
HORIZON / 84-90	4626636												
LANCER / 85-89	4636499												
LASER / 84-86													
LeBARON / 82-89													
LeBARON GTS / 85-88													
NEW YORKER / 83-88													
OMNI / 81-90													
RELIANT / 81-89													
SHADOW / 87-94													
SUNDANCE / 87-94													
TC3 / 82-82													
TURISMO / 84-87													
VOYAGER / 84-87													
2.3L (143CID,2346CC),4CYL, 91.100MM (3.587"), 4D55 / 1983-1985 TURBO													
RAM 50 / 83-85	SDM31038-0	91.10	2.500	X	3.250	BF-K2	STEEL	CHROME	11-028-0	91.10	TL: 88.70	PL: 75.00	CHK. 75.00
	SDM31038-1	91.35	0.098		0.128				11-028-1	91.35	CH: 48.70	PD: 29.00	DIA 29.00
	SDM31038-2	91.60	2.000	X	3.900	T1-K2	CAST IRON	CHROME	11-028-2	91.60	DIST1: -2.30	Head: NONE	10.00
	SDM31038-3	91.85	0.079		0.154				11-028-3	91.85	DIST2: -2.60	Skirt: NONE	
	SDM31038-4	92.10	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-028-4	92.10	DIST3:		
	0.157		0.171										
	REFERENCE #		TOP		2ND	OIL		REFERENCE #					
	E5TZ 6149 A							MD103308					
	MD103391												
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1990-1993													
RAM 50 / 90-93	SWM31037-0	86.50	1.500	X	3.450	BF	STEEL	CHROME	11-538-0	86.50	TL: 72.40	PL: 72.00	CHK. 72.00
	SWM31037-1	86.75	0.059		0.136				11-538-1	86.75	CH: 34.90	PD: 21.00	DIA 21.00
	SWM31037-2	87.00	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-538-2	87.00	DIST1: 0.50	Head: NONE	15.00
	SWM31037-3	87.25	0.059		0.150				11-538-3	87.25	DIST2: 0.30	Skirt: NONE	
	SWM31037-4	87.50	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-538-4	87.50	DIST3:		
	0.157		0.130										
	REFERENCE #		TOP		2ND	OIL		REFERENCE #					
	MD085346							23410-32610					
								MD105377					

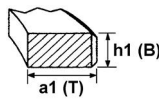
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1993-1996													
COLT VISTA / 93-94	SWM31116-0	86.50	1.200	X	3.100	BF-IB	STEEL	CHROME	11-709-0	86.50	TL: 67.10 CH: 35.00 DIST1: -4.30 DIST2: DIST3:	PL: 62.00 PD: 22.00 Head: NONE Skirt: NONE	CHK. DIA 12.00
SUMMIT / 93-96	SWM31116-1	86.75	0.047		0.122				11-709-1	86.75			
	SWM31116-2	87.00	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-709-2	87.00			
	SWM31116-3	87.25	0.059		0.150				11-709-3	87.25			
	SWM31116-4	87.50	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-709-4	87.50			
	REFERENCE # MD195828	TOP	2ND	OIL					REFERENCE # MD188115 MD303071				
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 2001-2005													
SEBRING / 01-05	SWM31116-0	86.50	1.200	X	3.100	BF-IB	STEEL	CHROME	11-804-0	86.50	TL: 53.50 CH: 30.50 DIST1: DIST2: DIST3:	PL: 62.00 PD: 22.00 Head: NONE Skirt: MS	CHK. DIA 10.00
STRATUS / 01-05	SWM31116-1	86.75	0.047		0.122				11-804-1	86.75			
	SWM31116-2	87.00	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-804-2	87.00			
	SWM31116-3	87.25	0.059		0.150				11-804-3	87.25			
	SWM31116-4	87.50	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-804-4	87.50			
	REFERENCE # MD195828	TOP	2ND	OIL					REFERENCE # MD357066 MD357067				
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), WORLD 2.4 / 2007-2015													
200 / 12-14	SWG30041-0	88.00	1.200	X	3.050	BF-IB	STEEL	CHROME	11-908-0	88.00	TL: 51.50 CH: 27.20 DIST1: -1.50 DIST2: -3.30 DIST3:	PL: 58.00 PD: 21.00 Head: NONE Skirt: MS	CHK. DIA 15.00
AVENGER / 08-14	SWG30041-1	88.25	0.047		0.120				11-908-1	88.25			
CALIBER / 07-11	SWG30041-2	88.50	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-908-2	88.50			
COMPASS / 07-08	SWG30041-3	88.75	0.047		0.142				11-908-3	88.75			
JOURNEY / 11-15	SWG30041-4	89.00	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-908-4	89.00			
PATRIOT / 07-15			0.079		0.096								
SEBRING / 07-10	REFERENCE # 1110A822 23040-25200 5191424AA	TOP	2ND	OIL					REFERENCE # 23410-25211 5191340AA				
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), WORLD 2.4 / 2012-2015													
COMPASS / 12-15	SWG30041-0	88.00	1.200	X	3.050	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWG30041-1	88.25	0.047		0.120								
	SWG30041-2	88.50	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE					
	SWG30041-3	88.75	0.047		0.142								
	SWG30041-4	89.00	2.000	X	2.450	NIFF-H	STEEL	CHROME					
	REFERENCE # 1110A822 23040-25200 5191424AA	TOP	2ND	OIL									

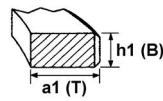
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDT 2.4 / 2003-2009																
NEON / 03-05	SWC10010-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
PT CRUISER / 03-09	SWC10010-1	87.75		0.047		0.114										
SRT-4 / 05-05	SWC10010-2	88.00		2nd:	1.500	X	4.000	TUC	CAST IRON		PHOSPHATE					
	SWC10010-3	88.25	0.059			0.157										
	SWC10010-4	88.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME							
				0.098		0.110										
	REFERENCE # 5093441AA		TOP	2ND	OIL											
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDZ 2.4 / 1995-1997																
BREEZE / 97-97	SWC10007-0	87.50	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
CARAVAN / 96-97	SWC10007-1	87.75		0.059		0.130										
CIRRUS / 95-97	SWC10007-2	88.00		2nd:	1.500	X	4.000	TUC	CAST IRON		PHOSPHATE					
Grand Caraven / 96-97	SWC10007-3	88.25	0.059			0.157										
Grand Voyager / 96-97	SWC10007-4	88.50	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED							
SEBRING / 96-97				0.118		0.100										
STRATUS / 95-97	REFERENCE # 4773005 5073524AA		TOP	2ND	OIL											
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDZ 2.4 / 1998-2000																
BREEZE / 98-99	SWC10004-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	DISC-11-813-0	87.50					
CARAVAN / 98-00	SWC10004-1	87.75		0.047		0.114				DISC-11-813-1	87.75					
CIRRUS / 00-00	SWC10004-2	88.00		2nd:	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE	DISC-11-813-2	88.00				
SEBRING / 98-98	SWC10004-3	88.25	0.059			0.154				DISC-11-813-3	88.25					
STRATUS / 98-00	SWC10004-4	88.50	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED	DISC-11-813-4	88.50					
VOYAGER / 98-00				0.118		0.100										
	REFERENCE # 4897024AA		TOP	2ND	OIL				REFERENCE # 4897660AA							
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDZ 2.4 / 2001-2004																
Liberty / 02-04	SWC10004-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
PT CRUISER / 01-01	SWC10004-1	87.75		0.047		0.114										
SEBRING / 01-01	SWC10004-2	88.00		2nd:	1.500	X	3.900	T1-RB	CAST IRON		PHOSPHATE					
STRATUS / 01-01	SWC10004-3	88.25	0.059			0.154										
	SWC10004-4	88.50	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED							
				0.118		0.100										
	REFERENCE # 4897024AA		TOP	2ND	OIL											

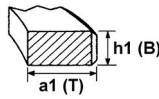
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDZ 2.4,EDZ Power Tech 2.4 / 2001-2008															
CARAVAN / 01-04 Liberty / 05-05	SWC10007-0 SWC10007-1	87.50 87.75	1.500 0.059	X	3.300 0.130	BF-IB	STEEL	NITRIDED	11-814-0 11-814-1	87.50 87.75	TL: CH:	66.30 30.20	PL: PD:	72.60 22.00	CHK. DIA
PT CRUISER / 02-08 SEBRING / 02-06	SWC10007-2 SWC10007-3	88.00 88.25	1.500 0.059	X	4.000 0.157	TUC	CAST IRON	PHOSPHATE	11-814-2 11-814-3	88.00 88.25	DIST1: DIST2:	11.50	Head: Skirt:	NONE NONE	5.00
STRATUS / 02-06 VOYAGER / 01-03	SWC10007-4 AM Ring Available	88.50	3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-814-4	88.50	DIST3:				
WRANGLER / 03-06	REFERENCE # 4773005 5073524AA	TOP 2ND OIL				REFERENCE # 5066565AA 5066565AB									
2.5L (150CID,2464CC),OHV,4CYL, 98.425MM (3.875"), AMC 150 / 1983-2000															
CHEROKEE / 84-95 CJ7 / 83-86	SWC10014-0 SWC10014-1	98.42 98.67	1.984 0.078	X	3.500 0.138	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
COMANCHE / 86-92 EAGLE / 83-84	SWC10014-2 SWC10014-3	98.92 99.17	1.984 0.078	X	4.550 0.179	T1-RC	CAST IRON	PHOSPHATE							
PREMIER / 88-89 SCRAMBLER / 84-85	SWC10014-4	99.42	4.763 0.188	X	4.150 0.163	NIF-S	STEEL	CHROME							
WAGONEER / 84-87 WRANGLER / 87-00	REFERENCE # 4762461 83501987	TOP 2ND OIL													
2.5L (150CID,2464CC),OHV,4CYL, 98.430MM (3.875"), AMC 150 / 1993-2002															
CHEROKEE / 93-00 DAKOTA / 96-02	SWC10011-0 SWC10011-1	98.43 98.68	1.500 0.059	X	3.500 0.138	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
WRANGLER / 01-02	SWC10011-2 SWC10011-3 SWC10011-4	98.93 99.18 99.43	1.500 0.059 4.000 0.157	X X X	4.500 0.177 3.200 0.126	T1-RB NIFF-S	CAST IRON STEEL	PHOSPHATE CHROME							
REFERENCE # 4798324	TOP 2ND OIL														
2.5L (152CID,2497CC),SOHC,6CYL, 83.500MM (3.287"), 6G73 / 1995-1999															
AVENGER / 95-99 CIRRUS / 95-97	SWC10009-0 SWC10009-1	83.50 83.75	1.200 0.047	X	2.850 0.112	BF	STEEL	CHROME	11-808-0 11-808-1	83.50 83.75	TL: CH:	64.00 31.90	PL: PD:	64.00 22.00	CHK. DIA
SEBRING / 95-97 STRATUS / 95-99	SWC10009-2 SWC10009-3 SWC10009-4	84.00 84.25 84.50	1.500 0.059 3.000 0.118	X X X	3.500 0.138 2.850 0.112	T1 NIFF-S	CAST IRON STEEL	PHOSPHATE CHROME	11-808-2 11-808-3 11-808-4	84.00 84.25 84.50	DIST1: DIST2: DIST3:	0.10	Head: Skirt:	NONE NONE	9.00
REFERENCE # MD310258	TOP 2ND OIL				REFERENCE # MD309393 MD309399										

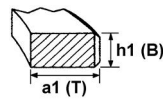
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2497CC),SOHC,6CYL, 83.500MM (3.287"), 6G73 / 1998-2000																
AVENGER / 00-00	SWC10009-0	83.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
CIRRUS / 98-00	SWC10009-1	83.75		0.047		0.112										
SEBRING / 98-00	SWC10009-2	84.00	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE							
STRATUS / 00-00	SWC10009-3	84.25		0.059		0.138										
	SWC10009-4	84.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME							
			0.118		0.112											
	REFERENCE # MD310258		TOP	2ND	OIL											
2.5L (153CID,2507CC),SOHC,4CYL, 87.500MM (3.445"), K 2.5,K 2.5T / 1986-1995																
600 / 86-88	SWC10003-0	87.50	Top:	1.500	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ACCLAIM / 89-95	SWC10003-1	87.75		0.059		0.150										
ARIES / 86-88	SWC10003-2	88.00	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE							
CARAVAN / 87-95	SWC10003-3	88.25		0.059		0.157										
CARAVELLE / 86-88	SWC10003-4	88.50	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME							
DAKOTA / 89-95			0.157		0.150											
	REFERENCE #		TOP	2ND	OIL											
DAYTONA / 87-89	4411977															
DYNASTY / 88-89	4626575															
Grand Caraven / 89-89	4626636															
Grand Voyager / 87-88	4636499															
LANCER / 86-89																
LASER / 86-86																
LeBARON / 86-94																
LeBARON GTS / 86-88																
NEW YORKER / 86-86																
RELIANT / 86-89																
SHADOW / 88-94																
SPIRIT / 89-95																
SUNDANCE / 88-94																
VOYAGER / 87-95																
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1978-1981																
ARROW / 79-80	SWM31047-0	91.10	Top:	2.000	X	3.500	BF	DUCTILE IRON	CHROME	DISC-11-029-0	91.10					
ARROW PICKUP / 79-81	SWM31047-1	91.35		0.079		0.138				DISC-11-029-1	91.35					
CHALLENGER / 78-80	SWM31047-2	91.60	2nd:	2.000	X	3.800	T1	CAST IRON	CHROME	DISC-11-029-2	91.60					
COLT / 78-80	SWM31047-3	91.85		0.079		0.150				DISC-11-029-3	91.85					
SAPPORO / 78-80	SWM31047-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-029-4	92.10					
			0.157		0.128											
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	MD025080									MD024947						
	MD026835									MD026861						

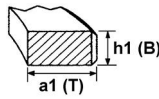
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1978-1985														
400 / 82-83	SWM31047-0	91.10	2.000	X	3.500	BF	DUCTILE IRON	CHROME	11-031-0	91.10	TL: 77.20 CH: 35.20 DIST1: Head: NONE DIST2: Skirt: NONE DIST3:	PL: 75.00 PD: 22.00 Head: NONE Skirt: NONE	75.00 22.00 NONE NONE	CHK. DIA 37.50
600 / 83-84	SWM31047-1	91.35	0.079		0.138				11-031-1	91.35				
ARIES / 81-84	SWM31047-2	91.60	2.000	X	3.800	T1	CAST IRON	CHROME	11-031-2	91.60				
ARROW PICKUP / 82-82	SWM31047-3	91.85	0.079		0.150				11-031-3	91.85				
CARAVAN / 84-84	SWM31047-4	92.10	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-031-4	92.10				
CHALLENGER / 81-83			0.157		0.128									
E CLASS / 83-84	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
EXECUTIVE / 83-84	MD025080								MD026921					
LeBARON / 82-84	MD026835													
NEW YORKER / 83-84														
RAM 50 / 83-85														
RELIANT / 81-84														
SAPPORO / 78-83														
VOYAGER / 84-84														
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1983-1989														
600 / 85-85	SWM31039-0	91.10	1.500	X	3.300	BF	STEEL	NITRIDED	11-035-0	91.10	TL: 78.30 CH: 36.00 DIST1: 0.30 DIST2: DIST3:	PL: 79.00 PD: 22.00 Head: NONE Skirt: NONE	79.00 22.00 NONE NONE	CHK. DIA 25.00
ARIES / 85-85	SWM31039-1	91.35	0.059		0.130				11-035-1	91.35				
CARAVAN / 84-87	SWM31039-2	91.60	1.500	X	3.800	T1	CAST IRON	CHROME	11-035-2	91.60				
EXECUTIVE / 85-85	SWM31039-3	91.85	0.059		0.150				11-035-3	91.85				
Grand Voyager / 87-87	SWM31039-4	92.10	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-035-4	92.10				
LeBARON / 85-85			0.157		0.128									
NEW YORKER / 85-85	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
RAIDER / 87-89	AM15-11-SC0								AM01-11-SA0					
RAM 50 / 83-89	MD061258								AM15-11-SA0					
RELIANT / 85-88	MD076170								MD071172					
VOYAGER / 84-87														
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1987-1989														
CONQUEST / 87-89	SWM31039-0	91.10	1.500	X	3.300	BF	STEEL	NITRIDED	DISC-11-544-0	91.10				
	SWM31039-1	91.35	0.059		0.130				DISC-11-544-1	91.35				
	SWM31039-2	91.60	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-544-2	91.60				
	SWM31039-3	91.85	0.059		0.150				DISC-11-544-3	91.85				
	SWM31039-4	92.10	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	DISC-11-544-4	92.10				
			0.157		0.128									
	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
	AM15-11-SC0								MD128450					
	MD061258													
	MD076170													
2.7L (167CID,2736CC),DOHC,6CYL, 86.000MM (3.386"), EER 2.7 / 1998-2010														
300 / 05-10	SWC10001-0	86.00	1.500	X	3.450	BF	STEEL	CHROME	11-780-0	86.00	TL: 53.20 CH: 31.20 DIST1: Head: AH DIST2: Skirt: MS DIST3:	PL: 60.00 PD: 22.00 Head: AH Skirt: MS	60.00 22.00 AH MS	CHK. DIA 7.00
AVENGER / 08-08	SWC10001-1	86.25	0.059		0.136				11-780-1	86.25				
CHARGER / 07-10	SWC10001-2	86.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-780-2	86.50				
CONCORDE / 98-04	SWC10001-3	86.75	0.059		0.157				11-780-3	86.75				
INTERPID / 98-02	SWC10001-4	87.00	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-780-4	87.00				
MAGNUM / 05-08			0.118		0.118									
SEBRING / 01-10	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
STRATUS / 01-06	4897027AA								5003427AA					
	90509740								5003427AA*					
									5018627AA					
									5018627AA*					
									5018627AB					

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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1993																	
STEALTH / 91-93	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-547-0	91.10	TL:	65.90	PL:	64.00	CHK. DIA	
	SWM31078-1	91.35		0.047						0.130	11-547-1	91.35	CH:	31.90	PD:		22.00
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-547-2	91.60	DIST1:	-3.40	Head:	NONE	15.00	
	SWM31078-3	91.85		0.059						0.150	11-547-3	91.85	DIST2:		Skirt:		NONE
	SWM31078-4	92.10		Oil:						3.000	2.900	NIFF-S	STEEL	CHROME	11-547-4		92.10
	REFERENCE #	TOP	2ND	OIL	REFERENCE #												
	MD158334				MD307972												
	MD301716																
	MD329755																
	MD334192																
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1996 TURBO																	
STEALTH / 91-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWM31078-1	91.35		0.047												0.130	
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME								
	SWM31078-3	91.85		0.059												0.150	
	SWM31078-4	92.10		Oil:												3.000	2.900
	REFERENCE #	TOP	2ND	OIL													
	MD158334																
	MD301716																
	MD329755																
	MD334192																
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1994-1996																	
STEALTH / 94-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-543-0	91.10	TL:	66.50	PL:	64.00	CHK. DIA	
	SWM31078-1	91.35		0.047						0.130	11-543-1	91.35	CH:	32.00	PD:		22.00
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-543-2	91.60	DIST1:	0.50	Head:	NONE	15.00	
	SWM31078-3	91.85		0.059						0.150	11-543-3	91.85	DIST2:		Skirt:		NONE
	SWM31078-4	92.10		Oil:						3.000	2.900	NIFF-S	STEEL	CHROME	11-543-4		92.10
	REFERENCE #	TOP	2ND	OIL	REFERENCE #												
	MD158334				MD307958												
	MD301716																
	MD329755																
	MD334192																

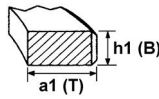
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1987-1995														
ACCLAIM / 89-93	SWM31080-0	91.10	1.500	X	3.250	BF	STEEL	CHROME	11-549-0	91.10	TL: 68.20 CH: 32.20 DIST1: -3.00 DIST2: DIST3:	PL: 64.00 PD: 22.00 Head: NONE Skirt: NONE	8.00	CHK. DIA
CARAVAN / 87-93	SWM31080-1	91.35	0.059		0.128				11-549-1	91.35				
DAYTONA / 90-93	SWM31080-2	91.60	1.500	X	3.800	T1	CAST IRON	CHROME	11-549-2	91.60				
DYNASTY / 88-90	SWM31080-3	91.85	0.059		0.150				11-549-3	91.85				
Grand Caraven / 87-89	SWM31080-4	92.10	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-549-4	92.10				
Grand Voyager / 87-89			0.157		0.128									
LeBARON / 90-95	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
NEW YORKER / 88-89	23040-35010								23410-35114					
RAIDER / 89-89	23040-35500								23410-35144					
RAM 50 / 90-91	MD104936								23410-35214					
SHADOW / 92-93	MD104939								23410-35244					
SPIRIT / 89-93									MD119671					
STEALTH / 91-93									MD152563					
SUNDANCE / 92-93														
VOYAGER / 87-93														
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1994-2000														
ACCLAIM / 94-95	SWM31078-0	91.10	1.200	X	3.300	BF	STEEL	CHROME	11-707-0	91.10	TL: 66.00 CH: 32.00 DIST1: -2.30 DIST2: -7.10 DIST3:	PL: 64.00 PD: 22.00 Head: NONE Skirt: NONE	16.00	CHK. DIA
CARAVAN / 94-00	SWM31078-1	91.35	0.047		0.130				11-707-1	91.35				
Grand Caraven / 94-00	SWM31078-2	91.60	1.500	X	3.800	T1	CAST IRON	CHROME	11-707-2	91.60				
Grand Voyager / 94-00	SWM31078-3	91.85	0.059		0.150				11-707-3	91.85				
SHADOW / 94-94	SWM31078-4	92.10	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-707-4	92.10				
SPIRIT / 94-95			0.118		0.114									
STEALTH / 94-96	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
SUNDANCE / 94-94	MD158334								MD197808					
VOYAGER / 94-00	MD301716								MD197814					
	MD329755													
	MD334192													
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 2001-2005														
SEBRING / 01-05	SWM31078-0	91.10	1.200	X	3.300	BF	STEEL	CHROME	11-817-0	91.10	TL: 64.20 CH: 30.20 DIST1: -1.30 DIST2: DIST3:	PL: 64.00 PD: 22.00 Head: NONE Skirt: NONE	15.00	CHK. DIA
STRATUS / 01-05	SWM31078-1	91.35	0.047		0.130				11-817-1	91.35				
	SWM31078-2	91.60	1.500	X	3.800	T1	CAST IRON	CHROME	11-817-2	91.60				
	SWM31078-3	91.85	0.059		0.150				11-817-3	91.85				
	SWM31078-4	92.10	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-817-4	92.10				
			0.118		0.114									
	REFERENCE #	TOP	2ND	OIL					REFERENCE #					
	MD158334								MD367088					
	MD301716								MD367089					
	MD329755													
	MD334192													
3.2L (195CID,3195CC),SOHC,6CYL, 92.000MM (3.622"), EGW 3.2 / 1998-2001														
CONCORDE / 98-01	SWC10008-0	92.00	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
INTERPID / 98-00	SWC10008-1	92.25	0.047		0.130									
	SWC10008-2	92.50	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE						
	SWC10008-3	92.75	0.059		0.161									
	SWC10008-4	93.00	3.000	X	3.050	NIFF-S	STEEL	NITRIDED						
	AM Ring Available		0.118		0.120									
	REFERENCE #	TOP	2ND	OIL										
	4897032AA													

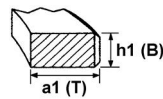
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.3L (201CID,3293CC),OHV,6CYL, 93.000MM (3.661"), EGA 3.3 / 1990-1993													
DYNASTY / 90-93	SWC10002-0	93.00	1.500	X	3.250	BF	STEEL	CHROME	11-863-0	93.00	TL: 53.60	PL: 67.50	CHK.
IMPERIAL / 90-91	SWC10002-1	93.25	0.059		0.128				11-863-1	93.25	CH: 31.70	PD: 22.89	DIA
NEW YORKER / 91-93	SWC10002-2	93.50	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE	11-863-2	93.50	DIST1: -2.30	Head: NONE	7.00
NEW YORKER 5 / 90-93	SWC10002-3	93.75	0.059		0.154				11-863-3	93.75	DIST2:	Skirt: MS	
	SWC10002-4	94.00	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-863-4	94.00	DIST3:		
	AM Ring Available		0.118		0.118								
	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	4897033AA								4897772AA				
	5012364AC								5241057				
	5241051												
	5241052												
3.3L (201CID,3293CC),OHV,6CYL, 93.000MM (3.661"), EGA 3.3 / 1990-2000													
CARAVAN / 90-00	SWC10002-0	93.00	1.500	X	3.250	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
CONCORDE / 93-96	SWC10002-1	93.25	0.059		0.128								
Grand Caraven / 90-00	SWC10002-2	93.50	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE					
Grand Voyager / 90-00	SWC10002-3	93.75	0.059		0.154								
INTERPID / 93-97	SWC10002-4	94.00	3.000	X	3.000	NIFF-S	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
TOWN & COUNTRY / 90-00	AM Ring Available		0.118		0.118								
	REFERENCE #	TOP	2ND	OIL									
	4897033AA												
VISION / 93-96	5012364AC								4897772AA				
VOYAGER / 91-00	5241051												
	5241052												
3.3L (201CID,3293CC),OHV,6CYL, 93.000MM (3.661"), EGA 3.3 / 2001-2010													
CARAVAN / 01-08	SWC10002-0	93.00	1.500	X	3.250	BF	STEEL	CHROME	11-923-0	93.00	TL: 51.50	PL: 67.50	CHK.
Grand Caraven / 01-10	SWC10002-1	93.25	0.059		0.128				11-923-1	93.25	CH: 29.90	PD: 22.89	DIA
TOWN & COUNTRY / 01-10	SWC10002-2	93.50	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE	11-923-2	93.50	DIST1:	Head: NONE	13.00
	SWC10002-3	93.75	0.059		0.154				11-923-3	93.75	DIST2:	Skirt: MS	
VOYAGER / 01-03	SWC10002-4	94.00	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-923-4	94.00	DIST3:		
	AM Ring Available		0.118		0.118								
	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	4897033AA								4897772AA				
	5012364AC												
	5241051												
	5241052												
3.5L (214CID,3507CC),SOHC,6CYL, 96.000MM (3.780"), EGJ 3.5 / 1993-1994													
CONCORDE / 93-94	SWC10005-0	96.00	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
INTERPID / 93-94	SWC10005-1	96.25	0.059		0.138								
LHS / 94-94	SWC10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE					
NEW YORKER / 94-94	SWC10005-3	96.75	0.059		0.157								
VISION / 93-94	SWC10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	AM Ring Available		0.118		0.126								
	REFERENCE #	TOP	2ND	OIL									
	4626388												
	4626660												

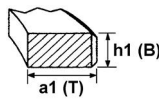
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.5L (215CID,3518CC),SOHC,6CYL, 96.000MM (3.780"), EGG 3.5 / 1999-2006													
300 / 05-06	SWC10013-0	96.00	1.200	X	3.500	BF	STEEL	NITRIDED	11-875-0	96.00	TL: 62.20	PL: 61.00	CHK. 9.00
300M / 99-04	SWC10013-1	96.25	0.047	X	0.138				11-875-1	96.25	CH: 38.20	PD: 24.00	DIA 9.00
CONCORDE / 02-04	SWC10013-2	96.50	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	11-875-2	96.50	DIST1: -0.60	Head: AH	
INTERPID / 00-02	SWC10013-3	96.75	0.059	X	0.157				11-875-3	96.75	DIST2:	Skirt: MS	
LHS / 99-01	SWC10013-4	97.00	3.000	X	3.450	NIFF-S	STEEL	CHROME	11-875-4	97.00	DIST3:		
PROWLER / 99-02			0.118	X	0.136								
REFERENCE #		TOP	2ND	OIL	REFERENCE #								
4897035AA					5010335AA								
4897035AB					5010335AB								
3.5L (215CID,3518CC),SOHC,6CYL, 96.000MM (3.780"), EGG 3.5 / 2004-2010													
300 / 07-10	SWC10013-0	96.00	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
AVENGER / 08-10	SWC10013-1	96.25	0.047	X	0.138								
CHALLENGER / 09-10	SWC10013-2	96.50	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE					
CHARGER / 06-10	SWC10013-3	96.75	0.059	X	0.157								
JOURNEY / 09-10	SWC10013-4	97.00	3.000	X	3.450	NIFF-S	STEEL	CHROME					
MAGNUM / 05-08			0.118	X	0.136								
REFERENCE #		TOP	2ND	OIL	REFERENCE #								
4897035AA					5010335AA								
4897035AB					5010335AB								
3.5L (215CID,3523CC),SOHC,6CYL, 96.000MM (3.780"), EGJ 3.5 / 1995-1997													
CONCORDE / 95-97	SWC10015-0	96.00	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
INTERPID / 95-97	SWC10015-1	96.25	0.047	X	0.138								
LHS / 95-97	SWC10015-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE					
NEW YORKER / 95-96	SWC10015-3	96.75	0.059	X	0.157								
VISION / 95-97	SWC10015-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED					
			0.118	X	0.126								
REFERENCE #		TOP	2ND	OIL	REFERENCE #								
4773023					68001386AA								
68001386AA													
3.6L (220CID,3604CC),DOHC,6CYL, 96.000MM (3.780"), PENTASTAR 3.6 / 2011-2017													
200 / 11-17	SWC10025-0	96.00	1.200	X	3.100	BF	STEEL	NITRIDED	11-916-0	96.00	TL: 51.80	PL: 52.00	CHK. 9.00
300 / 11-16	SWC10025-1	96.25	0.047	X	0.122				11-916-1	96.25	CH: 28.70	PD: 22.00	DIA 9.00
AVENGER / 11-14	SWC10025-2	96.50	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1: -0.30	Head: AH	
CHALLENGER / 11-16	SWC10025-3	96.75	0.047	X	0.146				11-916-3	96.75	DIST2:	Skirt: MS	
CHARGER / 11-16	SWC10025-4	97.00	2.000	X	2.550	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:		
DURANGO / 11-17			0.079	X	0.100								
REFERENCE #		TOP	2ND	OIL	REFERENCE #								
68078776AA					5184347AG								
68078776AA					5184347AG								

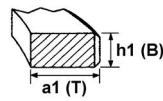
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
3.7L (225CID,3687CC),OHV,6CYL, 86.360MM (3.400"), SLANT 6 / 1974-1987															
CORDOBA / 80-83 DIPLOMAT / 80-83 Fifth Avenue / 83-83 GRAN FURY / 80-83 LeBARON / 80-81 MIRADA / 80-83	SWC10017-0 SWC10017-1 SWC10017-2 SWC10017-3 SWC10017-4	86.36 86.61 86.86 87.11 87.36	Top: 1.984 0.078	X	4.000 0.157	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
NEW YORKER / 82-82 NEWPORT / 80-81 PICKUP / 74-87 RAM VAN / 74-87 RAMCHARGER / 75-80 St. Regis / 80-80 TRAILDUSTER / 75-80	REFERENCE # 4131203 4131205 4131214	TOP 2ND OIL	1.984 0.078	X	4.000 0.157	T1-RB	CAST IRON	PHOSPHATE							
			4.763 0.188	X	4.200 0.165	NIFF-S	STEEL	CHROME							
3.7L (226CID,3701CC),SOHC,6CYL, 93.000MM (3.661"), Power Tech 3.7 / 2002-2012															
COMMANDER / 06-10 DAKOTA / 04-11 DURANGO / 04-09 Grand Cherokee / 05-10 Liberty / 02-12 NITRO / 07-11 PICKUP / 02-02 RAM 1500 / 02-10	SWC10002-0 SWC10002-1 SWC10002-2 SWC10002-3 SWC10002-4 AM Ring Available	93.00 93.25 93.50 93.75 94.00	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-806-0 11-806-1 11-806-2 11-806-3 11-806-4	93.00 93.25 93.50 93.75 94.00	TL: 53.90 CH: 31.80 DIST1: DIST2: DIST3:	PL: 59.00 PD: 24.02 Head: NONE Skirt: MS	CHK. DIA 13.00		
	REFERENCE # 4897033AA 5012364AC 5241051 5241052	TOP 2ND OIL	1.500 0.059	X	3.900 0.154	T1-RB	CAST IRON	PHOSPHATE	REFERENCE # 5019316AA						
			3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME							
3.8L (231CID,3778CC),OHV,6CYL, 96.000MM (3.780"), EGH 3.8 / 2000-2011															
CARAVAN / 00-08 Grand Caraven / 01-10 PACIFICA / 07-08 TOWN & COUNTRY / 01-10 WRANGLER / 07-11	SWC10015-0 SWC10015-1 SWC10015-2 SWC10015-3 SWC10015-4	96.00 96.25 96.50 96.75 97.00	Top: 1.200 0.047	X	3.500 0.138	BF	STEEL	NITRIDED	11-864-0 11-864-1 11-864-2 11-864-3 11-864-4	96.00 96.25 96.50 96.75 97.00	TL: 54.10 CH: 32.30 DIST1: -2.30 DIST2: DIST3:	PL: 71.50 PD: 22.89 Head: NONE Skirt: MS	CHK. DIA 6.50		
	REFERENCE # 4773023 68001386AA	TOP 2ND OIL	1.200 0.047	X	4.000 0.157	T1-RB	CAST IRON	PHOSPHATE	REFERENCE # 4666129AA 5019338AA						
			3.000 0.118	X	3.200 0.126	NIFF-S	STEEL	NITRIDED							
3.8L (232CID,3802CC),OHV,6CYL, 96.000MM (3.780"), EGH 3.8 / 1991-2000															
CARAVAN / 96-99 Grand Caraven / 94-00 Grand Voyager / 94-00 IMPERIAL / 91-93 NEW YORKER 5 / 91-93 TOWN & COUNTRY / 96-00	SWC10005-0 SWC10005-1 SWC10005-2 SWC10005-3 SWC10005-4 AM Ring Available	96.00 96.25 96.50 96.75 97.00	Top: 1.500 0.059	X	3.500 0.138	BF	STEEL	NITRIDED	DISC-11-815-0 DISC-11-815-1 DISC-11-815-2 DISC-11-815-3 DISC-11-815-4	96.00 96.25 96.50 96.75 97.00					
	REFERENCE # 4626388 4626660	TOP 2ND OIL	1.500 0.059	X	4.000 0.157	T1-RB	CAST IRON	PHOSPHATE	REFERENCE # 4797692						
			3.000 0.118	X	3.200 0.126	NIFF-S	STEEL	NITRIDED							

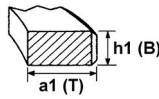
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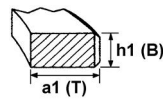
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.9L (239CID,3917CC),OHV,6CYL, 99.310MM (3.910"), LA 239 / 1988-1991														
DAKOTA / 88-91 PICKUP / 88-91 RAM VAN / 88-91	SWC10018-0 SWC10018-1 SWC10018-2 SWC10018-3 SWC10018-4	99.31 99.56 99.81 100.06 100.31	Top: 1.984 0.078 2nd: 1.984 0.078 Oil: 4.763 0.188	X X X X X	4.500 0.177 4.500 0.177 4.200 0.165	BF-IB T1-RB NIFF-S	CAST IRON CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-855-0 11-855-1 11-855-2 11-855-3 11-855-4	99.31 99.56 99.81 100.06 100.31	TL: 86.40 CH: 43.80 DIST1: DIST2: DIST3:	PL: 76.00 Head: NONE Skirt: NONE	76.00 22.00 NONE NONE	CHK. DIA 14.00
REFERENCE # 3780007	TOP 	2ND 	OIL 	REFERENCE # 4397779										
3.9L (239CID,3917CC),OHV,6CYL, 99.310MM (3.910"), MAGNUM 3.9 / 1992-2003														
DAKOTA / 92-03 DURANGO / 98-99 PICKUP / 92-98 RAM 1500 / 94-01 RAM VAN / 92-01	SWC10006-0 SWC10006-1 SWC10006-2 SWC10006-3 SWC10006-4 AM Ring Available	99.31 99.56 99.81 100.06 100.31	Top: 2.000 0.079 2nd: 2.000 0.079 Oil: 4.000 0.157	X X X X X	3.450 0.136 4.500 0.177 3.300 0.130	BF T1-RC NIF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # 4720653	TOP 	2ND 	OIL 											
4.0L (241CID,3952CC),SOHC,6CYL, 96.000MM (3.780"), EGQ & EGS 4.0 / 2007-2011														
Grand Caraven / 08-10 NITRO / 07-11 PACIFICA / 07-08	SWC10013-0 SWC10013-1 SWC10013-2 SWC10013-3 SWC10013-4	96.00 96.25 96.50 96.75 97.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X X X	3.500 0.138 4.000 0.157 3.450 0.136	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE CHROME	11-922-0 11-922-1 11-922-2 11-922-3 11-922-4	96.00 96.25 96.50 96.75 97.00	TL: 55.10 CH: 32.70 DIST1: -2.60 DIST2: DIST3:	PL: 76.00 Head: AH Skirt: MS	52.50 22.00 AH MS	CHK. DIA 7.00
REFERENCE # 4897035AA 4897035AB	TOP 	2ND 	OIL 	REFERENCE # 4593589AA										
4.0L (241CID,3952CC),SOHC,6CYL, 96.000MM (3.780"), SMPI 4.0 / 2008-2010														
TOWN & COUNTRY / 08-10	SWC10015-0 SWC10015-1 SWC10015-2 SWC10015-3 SWC10015-4	96.00 96.25 96.50 96.75 97.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X X X	3.500 0.138 4.000 0.157 3.200 0.126	BF T1-RB NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # 4773023 68001386AA	TOP 	2ND 	OIL 											

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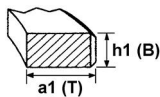


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
4.0L (242CID,3966CC),OHV,6CYL, 98.425MM (3.875"), AMC 242 / 1994-1995															
CHEROKEE / 94-95	SWC10014-0 6	98.42	1.984	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
Grand Cherokee / 94-95	SWC10014-1 6	98.67	0.078		0.138										
WRANGLER / 94-95	SWC10014-2 6	98.92	1.984	X	4.550	T1-RC	CAST IRON	PHOSPHATE							
	SWC10014-3 6	99.17	0.078		0.179										
	SWC10014-4 6	99.42	4.763	X	4.150	NIF-S	STEEL	CHROME							
	REFERENCE #		TOP	2ND	OIL										
	4762462														
4.0L (242CID,3966CC),OHV,6CYL, 98.430MM (3.875"), Power Tech 4.0 / 1996-2006															
CHEROKEE / 96-01	SWC10012-0	98.43	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
Grand Cherokee / 96-04	SWC10012-1	98.68	0.059		0.138										
WRANGLER / 97-06	SWC10012-2	98.93	1.500	X	4.500	T1-RB	CAST IRON	PHOSPHATE							
	SWC10012-3	99.18	0.059		0.177										
	SWC10012-4	99.43	4.000	X	3.200	NIFF-S	STEEL	CHROME							
	REFERENCE #		TOP	2ND	OIL										
	4798878														
4.7L (287CID, 5899CC), SOHC, 8CYL, 93.000MM (3.661"), Vin-J Power Tech 4.7 / 2002-2007															
COMMANDER / 06-07	SWC10021-0	93.00	1.500	X	3.250	BF	STEEL	CHROME	11-D807-0	96.00	TL:	55.40	PL:	59.00	CHK.
DAKOTA / 05-07	SWC10021-1	93.25	0.059		0.128				11-D807-1	96.25	CH:	33.50	PD:	24.02	DIA
DURANGO / 05-07	SWC10021-2	93.50	1.500	X	3.900	T1-RC	CAST IRON	PHOSPHATE	11-D807-2	96.50	DIST1:	2.00	Head:	NONE	10.00
Grand Cherokee / 02-07	SWC10021-3	93.75	0.059		0.154				11-D807-3	96.75	DIST2:		Skirt:	NONE	
RAM 1500 / 05-07	SWC10021-4	94.00	3.000	X	3.000	NIF-S	STEEL	CHROME	11-D807-4	97.00	DIST3:				
	AM Ring Available		0.118		0.118										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	5012364AC								5018018AB						
4.7L (287CID,4703CC),SOHC,8CYL, 93.000MM (3.661"), Power Tech 4.7 / 1999-2007															
ASPEN / 07-07	SWC10021-0	93.00	1.500	X	3.250	BF	STEEL	CHROME	11-807-0	93.00	TL:	53.90	PL:	59.00	CHK.
COMMANDER / 06-07	SWC10021-1	93.25	0.059		0.128				11-807-1	93.25	CH:	31.80	PD:	24.02	DIA
DAKOTA / 00-07	SWC10021-2	93.50	1.500	X	3.900	T1-RC	CAST IRON	PHOSPHATE	11-807-2	93.50	DIST1:		Head:	NONE	13.00
DURANGO / 00-07	SWC10021-3	93.75	0.059		0.154				11-807-3	93.75	DIST2:		Skirt:	MS	
Grand Cherokee / 99-07	SWC10021-4	94.00	3.000	X	3.000	NIF-S	STEEL	CHROME	11-807-4	94.00	DIST3:				
PICKUP / 02-02	AM Ring Available		0.118		0.118										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	5012364AC								5012362AB						
									5012362AC						



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
4.7L (287CID,4703CC),SOHC,8CYL, 93.00MM (3.661"), Power Tech 4.7 / 2008-2011													
ASPEN / 08-09	SWG10011-0	93.00	1.200	X	3.500	BF	STEEL	NITRIDED	11-902-0	93.00	TL: 56.50	PL: 58.00	CHK. 8.00
COMMANDER / 08-10	SWG10011-1	93.25	0.047		0.138				11-902-1	93.25	CH: 35.40	PD: 23.00	DIA 8.00
DAKOTA / 08-11	SWG10011-2	93.50	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE	11-902-2	93.50	DIST1: 5.30	Head: AH	
DURANGO / 08-09	SWG10011-3	93.75	0.059		0.154				11-902-3	93.75	DIST2:	Skirt: MS	
Grand Cherokee / 08-08	SWG10011-4	94.00	2.500	X	2.600	NIFF-S	STEEL	NITRIDED	11-902-4	94.00	DIST3:		
RAM 1500 / 08-10	AM Ring Available		0.098		0.102								
	REFERENCE # 12564801	TOP	2ND	OIL				REFERENCE # 68031605AD					
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), LA 318 / 1974-1985													
CORDOBA / 80-83	SWC10019-0	99.31	1.984	X	4.500	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
DIPLOMAT / 80-85	SWC10019-1	99.56	0.078		0.177								
Fifth Avenue / 83-85	SWC10019-2	99.81	1.984	X	4.500	T1-RB	CAST IRON	PHOSPHATE					
GRAN FURY / 80-85	SWC10019-3	100.06	0.078		0.177								
IMPERIAL / 81-83	SWC10019-4	100.31	4.763	X	4.200	NIFF-S	STEEL	CHROME					
LeBARON / 80-81			0.188		0.165								
MIRADA / 80-83	REFERENCE #	TOP	2ND	OIL									
NEW YORKER / 80-82	2808550												
NEWPORT / 80-81	2808553												
PICKUP / 74-85	3780007												
RAM VAN / 74-85													
RAMCHARGER / 74-85													
St. Regis / 80-81													
TRAILDUSTER / 74-81													
VOLARE / 80-80													
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), MAGNUM 5.2 / 1985-1991													
DAKOTA / 89-91	SWC10019-0	99.31	1.984	X	4.500	BF-IB	CAST IRON	CHROME	11-821-0	99.31	TL: 86.40	PL: 76.00	CHK. 14.00
DIPLOMAT / 86-89	SWC10019-1	99.56	0.078		0.177				11-821-1	99.56	CH: 43.80	PD: 22.00	DIA 14.00
Fifth Avenue / 86-89	SWC10019-2	99.81	1.984	X	4.500	T1-RB	CAST IRON	PHOSPHATE	11-821-2	99.81	DIST1:	Head: NONE	
GRAN FURY / 86-89	SWC10019-3	100.06	0.078		0.177				11-821-3	100.06	DIST2:	Skirt: NONE	
PICKUP / 85-91	SWC10019-4	100.31	4.763	X	4.200	NIFF-S	STEEL	CHROME	11-821-4	100.31	DIST3:		
RAM VAN / 85-91			0.188		0.165								
RAMCHARGER / 85-91	REFERENCE #	TOP	2ND	OIL				REFERENCE # 4397779					
	2808550												
	2808553												
	3780007												
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), MAGNUM 5.2 / 1992-2002													
DAKOTA / 92-99	SWC10020-0	99.31	2.000	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
DURANGO / 98-00	SWC10020-1	99.56	0.079		0.136								
Grand Cherokee / 93-98	SWC10020-2	99.81	2.000	X	4.500	T1	CAST IRON	PHOSPHATE					
PICKUP / 92-96	SWC10020-3	100.06	0.079		0.177								
RAM 1500 / 94-01	SWC10020-4	100.31	4.000	X	3.100	NIFF-S	STEEL	NITRIDED					
RAM 2500 / 94-96			0.157		0.122								
RAM VAN / 92-02	REFERENCE #	TOP	2ND	OIL									
RAMCHARGER / 92-93	4638060												
	4720727												



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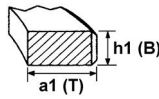
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.7L (345CID,5654CC),OHV,8CYL, 99.500MM (3.917"), EZB HEMI 5.7,HEMI 5.7,HEMI 5.7H / 2005-2010																
300 / 07-09	SWC10016-0	99.50	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-861-0	99.50	TL:	59.00	PL:	71.00	CHK.
ASPEN / 07-09	SWC10016-1	99.75		0.059		0.138				11-861-1	99.75	CH:	31.00	PD:	24.00	DIA
ASPEN HYBRID / 09-09	SWC10016-2	100.00	2nd:	1.500	X	4.500	T1-RB	CAST IRON	PHOSPHATE	11-861-2	100.00	DIST1:	4.00	Head:	AH	5.00
CHARGER / 06-09	SWC10016-3	100.25		0.059		0.177				11-861-3	100.25	DIST2:		Skirt:	MS	
COMMANDER / 06-10	SWC10016-4	100.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-861-4	100.50	DIST3:				
DURANGO / 06-09				0.118		0.112										
DURANGO HYBRID / 09-09	REFERENCE # 5086002AA		TOP			2ND			OIL	REFERENCE # 53021538AD 53021539AD						
Grand Cherokee / 05-09																
MAGNUM / 05-08																
RAM 1500 / 06-09																
RAM 2500 / 06-09																
RAM 3500 / 06-09																
RAM 3500 Chassis Cab / 07-09																
5.7L (345CID,5654CC),OHV,8CYL, 99.500MM (3.917"), EZH HEMI 5.7,HEMI 5.7 / 2009-2017																
CHALLENGER / 09-16	SWC10024-0	99.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-913-0	99.50	TL:	53.30	PL:	75.00	CHK.
CHARGER / 10-16	SWC10024-1	99.75		0.047		0.122				11-913-1	99.75	CH:	30.00	PD:	24.00	DIA
DURANGO / 11-17	SWC10024-2	100.00	2nd:	1.200	X	4.100	TUC	CAST IRON		11-913-2	100.00	DIST1:	2.30	Head:	AH	10.00
Grand Cherokee / 10-17	SWC10024-3	100.25		0.047		0.161				11-913-3	100.25	DIST2:		Skirt:	MS	
RAM 2500 / 10-17	SWC10024-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-913-4	100.50	DIST3:				
RAM 3500 / 11-17				0.079		0.106										
RAM 3500 Chassis Cab / 11-14	REFERENCE # 68046210AB		TOP			2ND			OIL	REFERENCE # 53022257AE						
5.7L (345CID,5654CC),OHV,8CYL, 99.500MM (3.917"), EZH HEMI 5.7,HEMI 5.7 / 2010-2017																
300 / 10-16	SWC10024-0	99.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-913-0	99.50	TL:	53.30	PL:	75.00	CHK.
RAM 1500 / 10-17	SWC10024-1	99.75		0.047		0.122				11-913-1	99.75	CH:	30.00	PD:	24.00	DIA
	SWC10024-2	100.00	2nd:	1.200	X	4.100	TUC	CAST IRON		11-913-2	100.00	DIST1:	2.30	Head:	AH	10.00
	SWC10024-3	100.25		0.047		0.161				11-913-3	100.25	DIST2:		Skirt:	MS	
	SWC10024-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-913-4	100.50	DIST3:				
				0.079		0.106										
	REFERENCE # 68046210AB		TOP			2ND			OIL	REFERENCE # 53022257AE						
5.7L (345CID,5654CC),OHV,8CYL, 99.500MM (3.917"), HEMI 5.7 / 2003-2006																
300 / 05-06	SWC10016-0	99.50	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-873-0	99.50	TL:	58.70	PL:	71.00	CHK.
DURANGO / 04-05	SWC10016-1	99.75		0.059		0.138				11-873-1	99.75	CH:	30.70	PD:	24.00	DIA
RAM 1500 / 03-05	SWC10016-2	100.00	2nd:	1.500	X	4.500	T1-RB	CAST IRON	PHOSPHATE	11-873-2	100.00	DIST1:	4.00	Head:	AH	6.00
RAM 2500 / 03-05	SWC10016-3	100.25		0.059		0.177				11-873-3	100.25	DIST2:		Skirt:	MS	
RAM 3500 / 03-05	SWC10016-4	100.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-873-4	100.50	DIST3:				
				0.118		0.112										
	REFERENCE # 5086002AA		TOP			2ND			OIL	REFERENCE # 5086010AB 5086011AB						



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.9L (360.0 CID, 5899.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), MAGNUM 5.9 / 1994-2003																
DAKOTA / 98-03	SWF80011-0	101.60	1.50	X	4.17	BF	DUCTILE IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
DURANGO / 98-03	SWF80011-1	101.85	0.059		0.164											
Grand Cherokee / 98-98	SWF80011-2	102.10	1.50	X	4.45	T1-RB	CAST IRON	PHOSPHATE								
PICKUP / 94-02	SWF80011-3	102.35	0.059		0.175											
RAM 1500 / 97-03	SWF80011-4	102.60	4.00	X	2.61	NIFF-S	STEEL	CHROME								
RAM 2500 / 94-02			0.157		0.103											
RAM 3500 / 97-02	REFERENCE #	TOP	2ND	OIL												
RAM VAN / 99-02	4740259															
	E5TZ 6148 EE															
	F2ZZ 6148 A															
	F6TZ 6148 AA															
5.9L (360CID,5899CC),OHV,6CYL, 102.000MM (4.016"), 6BT,ISB 5.9 / 1989-2002 DIESEL																
PICKUP / 89-02	SDC10022-0	102.00	3.0K	X	4.200	BF-K1	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
RAM 2500 / 97-02	SDC10022-1	102.25	0.118K		0.165											
RAM 3500 / 97-02	SDC10022-2	102.50	2.350	X	4.300	T1-RC	CAST IRON	PHOSPHATE								
	SDC10022-3	102.75	0.093		0.169											
	SDC10022-4	103.00	4.000	X	4.300	E-BC16	CAST IRON	CHROME								
			0.157		0.169											
	REFERENCE #	TOP	2ND	OIL												
	4089258															
	4638644															
	5011858AA															
5.9L (360CID,5899CC),OHV,6CYL, 102.000MM (4.016"), ISB 5.9 / 2003-2008 DIESEL																
RAM 2500 / 03-08	SDC10022-0	102.00	3.0K	X	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL:	105.20	PL:	83.00	CHK.	
RAM 3500 / 03-08	SDC10022-1	102.25	0.118K		0.165				11-856-1	102.25	CH:	71.40	PD:	40.00	DIA	
	SDC10022-2	102.50	2.350	X	4.300	T1-RC	CAST IRON	PHOSPHATE	11-856-2	102.50	DIST1:	-12.50	Head:	NONE	20.00	
	SDC10022-3	102.75	0.093		0.169				11-856-3	102.75	DIST2:		Skirt:	NONE		
	SDC10022-4	103.00	4.000	X	4.300	E-BC16	CAST IRON	CHROME	11-856-4	103.00	DIST3:					
			0.157		0.169											
	REFERENCE #	TOP	2ND	OIL						REFERENCE #						
	4089258									3970192						
	4638644															
	5011858AA															
5.9L (360CID,5899CC),OHV,8CYL, 101.600MM (4.000"), LA 360,MAGNUM 5.9 / 1974-1993																
CORDOBA / 80-80	SWF80016-0	101.60	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
GRAN FURY / 80-80	SWF80016-1	101.85	0.078		0.195											
MIRADA / 80-80	SWF80016-2	102.10	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE								
NEW YORKER / 80-80	SWF80016-3	102.35	0.078		0.183											
NEWPORT / 80-80	SWF80016-4	102.60	4.763	X	4.600	NIFF-S	STEEL	CHROME								
PICKUP / 74-93			0.188		0.181											
	REFERENCE #	TOP	2ND	OIL												
RAM VAN / 74-93	12507985															
RAMCHARGER / 74-93	14089025															
St. Regis / 80-80	3579044															
TRAILDUSTER / 74-81	3780016															
VOLARE / 80-80	88894219															
	C3AZ 6108 F															
	C3AZ 6148 F															
	E3ZZ 6148 A															
	E6TZ 6148 A															

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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
6.7L (408CID,6690CC),OHV,6CYL, 107.000MM (4.213"), B6.7 / 2007-2015 DIESEL													
RAM 2500 / 07-10	SDC10023-0	107.00	Top: 3.0K 0.118K	X	4.400 0.173	BF-K1	DUCTILE IRON	CHROME	11-885-0	107.00	TL: 103.20	PL: 90.50	CHK. DIA 20.00
RAM 3500 / 09-15	SDC10023-1	107.25							11-885-1	107.25	CH: 69.40	PD: 40.00	
RAM 3500 Chassis Cab / 07-15	SDC10023-2	107.50	2nd: 2.500 0.098	X	4.500 0.177	T1-RB	CAST IRON	PHOSPHATE	11-885-2	107.50	DIST1: -22.00	Head: NONE Skirt: NONE	
	SDC10023-3	107.75							11-885-3	107.75			
	SDC10023-4	108.00	Oil: 3.500 0.138	X	4.150 0.163	E-BC16	CAST IRON	CHROME	11-885-4	108.00			DIST2: DIST3:
REFERENCE # 4955366		TOP	2ND		OIL			REFERENCE # 4955365					

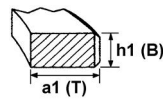
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1.5L (95CID,1549CC),SOHC,4CYL, 76.500MM (3.012"), D-TEC / 1999-1999													
LANOS / 99-99	SWD20003-0	76.50	Top: 1.500 0.059	X	2.650 0.104	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWD20003-1	76.75											
	SWD20003-2	77.00	2nd: 1.500 0.059	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE					
	SWD20003-3	77.25											
SWD20003-4	77.50	Oil: 3.000 0.118	X	2.900 0.114	NIFF-S	STEEL	CHROME						
REFERENCE # 90273451		TOP	2ND		OIL								

1.6L (98CID,1598CC),DOHC,4CYL, 79.000MM (3.110"), E-TEC / 2000-2002													
LANOS / 00-02	SWD20004-0	79.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-779-0	79.00	TL: 51.30	PL: 54.70	CHK. DIA 8.00
	SWD20004-1	79.25							11-779-1	79.25	CH: 28.30	PD: 18.00	
	SWD20004-2	79.50	2nd: 1.500 0.059	X	3.300 0.130	E-BC16	CAST IRON	PHOSPHATE	11-779-2	79.50	DIST1: -2.90	Head: NONE Skirt: NONE	
	SWD20004-3	79.75							11-779-3	79.75			DIST2:
	SWD20004-4	80.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	11-779-4	80.00			DIST3:
REFERENCE # 93740225		TOP	2ND		OIL			REFERENCE # 96182846					

2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), E-TEC II / 1999-2002													
NUBIRA / 99-02	SWD20006-0	86.00	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWD20006-1	86.25											
	SWD20006-2	86.50	2nd: 1.500 0.059	X	3.500 0.138	TUC	CAST IRON	PHOSPHATE					
	SWD20006-3	86.75											
SWD20006-4	87.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME						
REFERENCE # 92062027		TOP	2ND		OIL								



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
2.2L (134CID,2198CC),DOHC,4CYL, 86.00MM (3.386"), E-TEC II / 1999-2002											
LEGANZA / 99-02	SWD20006-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWD20006-1	86.25		0.059		0.136					
	SWD20006-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE		
	SWD20006-3	86.75		0.059		0.138					
	SWD20006-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME		
		0.118		0.118							
REFERENCE # 92062027	TOP	2ND	OIL								

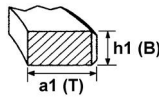
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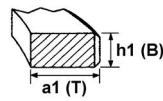
1.0L (61CID,997CC),3CYL, 76.00MM (2.992"), CB10, G10 / 1988-1992											
CHARADE / 88-92	SWD10036-0	76.00	Top:	1.500	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWD10036-1	76.25		0.059		0.114					
	SWD10036-2	76.50	2nd:	1.500	X	3.100	T1	CAST IRON	CHROME		
	SWD10036-3	76.75		0.059		0.122					
	SWD10036-4	77.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED		
		0.110		0.100							
REFERENCE # 13011-87727-000	TOP	2ND	OIL								

1.3L (79CID,1295CC),4CYL, 76.00MM (2.992"), G102S, HCE / 1989-1992																
CHARADE / 89-92	SWD10031-0	76.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-688-0	76.00					
	SWD10031-1	76.25		0.047		0.112							DISC-11-688-1	76.25		
	SWD10031-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-688-2	76.50					
	SWD10031-3	76.75		0.059		0.126						DISC-11-688-3	76.75			
	SWD10031-4	77.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	DISC-11-688-4	77.00					
		0.118		0.112												
REFERENCE # 13011-87108-000	TOP	2ND	OIL				REFERENCE # 13101-87105-000									

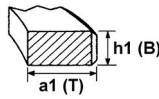
1.6L (97CID,1589CC),SOHC,4CYL, 76.00MM (2.992"), HDE / 1990-1992																
ROCKY / 90-92	SWD10031-0	76.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-689-0	76.00	TL:	60.70	PL:	58.00	CHK.
	SWD10031-1	76.25		0.047		0.112						11-689-1	76.25	CH:	30.70	PD:
	SWD10031-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-689-2	76.50	DIST1:	-0.50	Head:	NONE	15.00
	SWD10031-3	76.75		0.059		0.126						11-689-3	76.75	DIST2:		Skirt:
	SWD10031-4	77.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-689-4	77.00	DIST3:				
		0.118		0.112												
REFERENCE # 13011-87108-000	TOP	2ND	OIL				REFERENCE # 13101-87113-010									



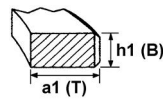
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.3L (81CID,1322CC),SOHC,4CYL, 71.00MM (2.795"), B3 / 1994-1997																	
ASPIRE / 94-97	SWT20052-0	71.00	Top:	1.200	X	2.470	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20052-1	71.25		0.047		0.097											
	SWT20052-2	71.50	2nd:	1.500	X	3.100	TUC	CAST IRON	PHOSPHATE								
	SWT20052-3	71.75		0.059		0.122											
	SWT20052-4	72.00	Oil:	3.000	X	2.920	NIFF-S	STEEL	CHROME								
		0.118	0.115														
REFERENCE # E9BZ 6149 A F4BZ 6149 A		TOP	2ND	OIL													
1.3L (81CID,1324CC),SOHC,4CYL, 71.00MM (2.795"), B3 / 1988-1993																	
FESTIVA / 88-93	SWT20052-0	71.00	Top:	1.200	X	2.470	BF	STEEL	CHROME		11-589-0	71.00	TL:	60.00	PL:	55.00	CHK. DIA 12.00
	SWT20052-1	71.25		0.047		0.097							11-589-1	71.25	CH:	28.70	
	SWT20052-2	71.50	2nd:	1.500	X	3.100	TUC	CAST IRON	PHOSPHATE		11-589-2	71.50	DIST1:	-1.00	Head:	NONE	
	SWT20052-3	71.75		0.059		0.122						11-589-3	71.75	DIST2:	-4.00	Skirt:	
	SWT20052-4	72.00	Oil:	3.000	X	2.920	NIFF-S	STEEL	CHROME	11-589-4	72.00	DIST3:					
		0.118	0.115														
REFERENCE # E9BZ 6149 A F4BZ 6149 A		TOP	2ND	OIL				REFERENCE # E8BZ 6108 A									
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6 / 1988-1989																	
TRACER / 88-89	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-577-0	78.00						
	SWT20060-1	78.25		0.059		0.122						DISC-11-577-1	78.25				
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-577-2	78.50						
	SWT20060-3	78.75		0.059		0.134						DISC-11-577-3	78.75				
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-577-4	79.00						
		0.157	0.118														
REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND	OIL				REFERENCE # B6Y0-11-SA0A E9GZ 6108 A									
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6 / 1991-1994																	
CAPRI / 91-94	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20060-1	78.25		0.059		0.122											
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME								
	SWT20060-3	78.75		0.059		0.134											
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED								
		0.157	0.118														
REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND	OIL													



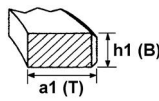
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05 / 1991-1996														
ESCORT / 91-96 TRACER / 91-96	SWT20066-0 SWT20066-1 SWT20066-2 SWT20066-3 SWT20066-4	83.00 83.25 83.50 83.75 84.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	3.300 0.130 3.600 0.142 2.800 0.110	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A	TOP 2ND OIL													
1.9L (116CID,1901CC),SOHC,4CYL, 81.940MM (3.226"), CVH 1.9 / 1987-1996														
COUGER / 87-87 ESCORT / 87-96 ESCORT EXP / 87-88 Grand Marquis / 87-87 LYNX / 87-87 TOPAZ / 87-87 TRACER / 91-96	SWF30010-0 SWF30010-1 SWF30010-2 SWF30010-3 SWF30010-4	81.94 82.19 82.44 82.69 82.94	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	2.900 0.114 3.200 0.126 2.950 0.116	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # FOCZ 6148 A	TOP 2ND OIL													
2.0L (120CID,1970CC),SOHC,4CYL, 80.000MM (3.150"), MA / 1979-1982														
COURIER PICKUP / 79-82	SWT20031-0 SWT20031-1 SWT20031-2 SWT20031-3 SWT20031-4	80.00 80.25 80.50 80.75 81.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X	3.450 0.136 3.600 0.142 3.250 0.128	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	DISC-11-130-0 DISC-11-130-1 DISC-11-130-2 DISC-11-130-3 DISC-11-130-4	80.00 80.25 80.50 80.75 81.00				
REFERENCE # HE18-23-130	TOP 2ND OIL		REFERENCE # HE01-23-200											
2.0L (121CID,1986CC),SOHC,4CYL, 84.860MM (3.341"), CVH 2.0 / 1997-2002														
ESCORT / 97-02 TRACER / 97-99	SWF30005-0 SWF30005-1 SWF30005-2 SWF30005-3 SWF30005-4 AM Ring Available	84.86 85.11 85.36 85.61 85.86	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	3.100 0.122 3.900 0.154 3.100 0.122	BF T1-RB NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-822-0 11-822-1 11-822-2 11-822-3 11-822-4	84.86 85.11 85.36 85.61 85.86	TL: 47.10 CH: 37.10 DIST1: 4.70 DIST2: DIST3:	PL: 63.30 PD: 20.63 Head: NONE Skirt: NONE	63.30 20.63 NONE NONE	CHK. DIA 7.00
REFERENCE # F7CZ 6148 AA	TOP 2ND OIL		REFERENCE # 1S4Z 6100 AA 1S4Z 6100 AB											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (121CID,1986CC),SOHC,4CYL, 84.860MM (3.341"), CVH 2.0 / 2000-2004																
FOCUS / 00-04	SWF30005-0	84.86	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF30005-1	85.11		0.059		0.122										
	SWF30005-2	85.36	2nd:	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE							
	SWF30005-3	85.61		0.059		0.154										
	SWF30005-4	85.86	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
AM Ring Available		0.118		0.122												
REFERENCE # F7CZ 6148 AA		TOP	2ND	OIL												
2.0L (121CID,1991CC),DOHC,4CYL, 83.000MM (3.268"), FS / 1993-1997																
PROBE / 93-97	SWF30001-0	83.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-706-0	83.00	TL:	53.80	PL:	58.00	CHK. DIA
	SWF30001-1	83.25		0.047		0.122				11-706-1	83.25	CH:	30.00	PD:	19.00	
	SWF30001-2	83.50	2nd:	1.500	X	3.600	TUC	STEEL	PHOSPHATE	11-706-2	83.50	DIST1:	-8.40	Head:	NONE	
	SWF30001-3	83.75		0.059		0.142				11-706-3	83.75	DIST2:		Skirt:	NONE	
	SWF30001-4	84.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-706-4	84.00	DIST3:				
REFERENCE # E62Z 6149 AA		TOP		2ND		OIL							REFERENCE # F72Z 6108 AA FSY1-11-SA0D FSY3-11-SA0D			
2.0L (121CID,1991CC),DOHC,4CYL, 84.800MM (3.339"), ZETEC-R 2.0 / 1998-2000																
CONTOUR / 98-00 COUGER / 99-99 ESCORT / 98-99 MYSTIQUE / 98-00	SWF30002-0	84.80	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF30002-1	85.05		0.059		0.120										
	SWF30002-2	85.30	2nd:	1.750	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF30002-3	85.55		0.069		0.154										
	SWF30002-4	85.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
AM Ring Available		0.118		0.126												
REFERENCE # F8CZ 6148 AA YF09-11-100A YS4Z 6135 AA		TOP	2ND	OIL												
2.0L (121CID,1991CC),DOHC,4CYL, 84.800MM (3.339"), ZETEC-R 2.0 / 2000-2004																
COUGER / 01-02 ESCAPE / 01-04 FOCUS / 00-04 ZX2 / 00-03	SWF30002-0	84.80	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-865-0	84.80	TL:	54.20	PL:	59.00	CHK. DIA
	SWF30002-1	85.05		0.059		0.120				11-865-1	85.05	CH:	29.40	PD:	20.00	
	SWF30002-2	85.30	2nd:	1.750	X	3.900	TUC	CAST IRON	PHOSPHATE	11-865-2	85.30	DIST1:	0.80	Head:	NONE	
	SWF30002-3	85.55		0.069		0.154				11-865-3	85.55	DIST2:		Skirt:	MS	
	SWF30002-4	85.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-865-4	85.80	DIST3:				
AM Ring Available		0.118		0.126												
REFERENCE # F8CZ 6148 AA YF09-11-100A YS4Z 6135 AA		TOP	2ND	OIL				REFERENCE # XS7Z 6100 AA								



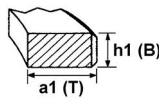
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.0L (121CID,1991CC),DOHC,4CYL, 84.860MM (3.341"), ZETEC-E 2.0 / 1995-1997														
CONTOUR / 95-97 MYSTIQUE / 95-97	SWF30007-0 SWF30007-1 SWF30007-2 SWF30007-3 SWF30007-4 AM Ring Available	84.86 85.11 85.36 85.61 85.86	Top: 1.500 0.059 2nd: 1.750 0.069 Oil: 3.000 0.118	X X X	3.100 0.122 3.800 0.150 3.100 0.122	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # F5RZ 6148 A	TOP	2ND	OIL										
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 20 HI,DURATEC 20H,EcoBoost 20T / 2010-2017														
C-Max / 13-16 EDGE / 12-16 ESCAPE / 13-16 EXPLORER / 12-15 FOCUS / 10-15 FUSION / 13-16	SWF30023-0 SWF30023-1 SWF30023-2 SWF30023-3 SWF30023-4	87.50 87.75 88.00 88.25 88.50	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.000 0.079	X X X	2.900 0.114 3.400 0.134 2.500 0.098	BF TUC NIFF-H	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # AG9Z 6148 A CM5Z 6148 AB EJ7E 6148 AA	TOP	2ND	OIL										
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 20 LF / 2005-2013														
FOCUS / 05-10 TRANSIT CONNECT / 10-13	SWT20090-0 SWT20090-1 SWT20090-2 SWT20090-3 SWT20090-4	87.50 87.75 88.00 88.25 88.50	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.500 0.098	X X X	2.700 0.106 3.400 0.134 2.600 0.102	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A	TOP	2ND	OIL										
2.2L (133CID,2184CC),SOHC,4CYL, 86.000MM (3.386"), F2 / 1989-1992														
PROBE / 89-92	SWT20048-0 SWT20048-1 SWT20048-2 SWT20048-3 SWT20048-4	86.00 86.25 86.50 86.75 87.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X	3.250 0.128 3.800 0.150 3.200 0.126	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-582-0 11-582-1 11-582-2 11-582-3 11-582-4	86.00 86.25 86.50 86.75 87.00	TL: 71.50 CH: 36.50 DIST1: -7.00 DIST2: DIST3:	PL: 66.00 PD: 22.00 Head: NONE Skirt: NONE	66.00 22.00 NONE NONE	CHK. DIA 15.00
	REFERENCE # E92Z 6149 A F2Y1-11-SC0	TOP	2ND	OIL	REFERENCE # E92Z 6108 G F2Y2-11-SA0A									



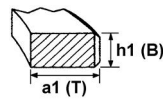
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO								
2.2L (133CID,2184CC),SOHC,4CYL, 86.00MM (3.386"), F2 / 1989-1992																		
PROBE / 89-92	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-583-0	86.00	TL:	71.00	PL:	67.00	CHK.		
	SWT20048-1	86.25		0.059		0.128				11-583-1	86.25	CH:	36.00	PD:	22.00		DIA	
	SWT20048-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-583-2	86.50	DIST1:	-5.40	Head:	NONE	10.00		
	SWT20048-3	86.75		0.059		0.150				11-583-3	86.75	DIST2:		Skirt:	NONE			
	SWT20048-4	87.00		Oil:		4.000				3.200	NIFF-S	STEEL	CHROME	11-583-4	87.00		DIST3:	
REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP	2ND	OIL	REFERENCE # F2Y4-11-SA0A													
2.2L (133CID,2184CC),SOHC,4CYL, 86.00MM (3.386"), F2 / 1989-1992 TURBO																		
PROBE / 89-92	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-573-0	86.00	TL:	71.40	PL:	67.00	CHK.		
	SWT20048-1	86.25		0.059		0.128				11-573-1	86.25	CH:	36.50	PD:	22.00		DIA	
	SWT20048-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-573-2	86.50	DIST1:	-9.50	Head:	NONE	15.00		
	SWT20048-3	86.75		0.059		0.150				11-573-3	86.75	DIST2:		Skirt:	NONE			
	SWT20048-4	87.00		Oil:		4.000				3.200	NIFF-S	STEEL	CHROME	11-573-4	87.00		DIST3:	
REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP	2ND	OIL	REFERENCE # E92Z 6108 D F220-11-SA0													
2.3L (138CID,2261CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 23EW,DURATEC 23H / 2004-2009																		
ESCAPE / 05-08 ESCAPE HYBRID / 05-08 FOCUS / 04-08 FUSION / 06-09 MARINER / 05-08 MARINER HYBRID / 06-08 MILAN / 06-08	SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-843-0	87.50	TL:	51.00	PL:	61.50	CHK.		
	SWT20090-1	87.75		0.047		0.106				11-843-1	87.75	CH:	28.50	PD:	21.00		DIA	
	SWT20090-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-843-2	88.00	DIST1:	-4.00	Head:	AH	10.00		
	SWT20090-3	88.25		0.047		0.134				11-843-3	88.25	DIST2:		Skirt:	MS			
	SWT20090-4	88.50		Oil:		2.500				2.600	NIFF-S	STEEL	NITRIDED	11-843-4	88.50		DIST3:	
REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP	2ND	OIL	REFERENCE # L3Y9-11-010													
2.3L (138CID,2261CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 23NS / 2001-2011																		
RANGER / 01-11	SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.								
	SWT20090-1	87.75		0.047		0.106											11-843-1	87.75
	SWT20090-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE									
	SWT20090-3	88.25		0.047		0.134											11-843-3	88.25
	SWT20090-4	88.50		Oil:		2.500											2.600	NIFF-S
REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP	2ND	OIL														



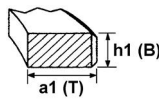
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.3L (140CID,2295CC),SOHC,4CYL, 96.00MM (3.780"), OHC 2.3 / 1984-1994										
AEROSTAR / 86-87	SWT20071-0	96.00	Top: 1.500	X	4.000	BF	CAST IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CAPRI / 85-85	SWT20071-1	96.25	0.059		0.157					
MARQUIS / 84-86	SWT20071-2	96.50	2nd: 1.500	X	4.000	TUC	CAST IRON	PHOSPHATE		
MUSTANG / 84-93	SWT20071-3	96.75	0.059		0.157					
RANGER / 85-94	SWT20071-4	97.00	Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME		
THUNDERBIRD / 84-88	REFERENCE #	TOP	2ND	OIL						
	F1ZZ 6148 A									
	ZZM0-23-130									
	ZZM9-23-130									
2.3L (140CID,2298CC),SOHC,4CYL, 96.00MM (3.780"), OHC 2.3 / 1995-1997										
RANGER / 95-97	SWT20076-0	96.00	Top: 1.500	X	4.000	BF	CAST IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT20076-1	96.25	0.059		0.157					
	SWT20076-2	96.50	2nd: 1.500	X	4.000	TUC	CAST IRON	PHOSPHATE		
	SWT20076-3	96.75	0.059		0.157					
	SWT20076-4	97.00	Oil: 3.000	X	3.450	NIFF-S	STEEL	CHROME		
	REFERENCE #	TOP	2ND	OIL						
	F67Z 6148 AA									
	F87Z 6148 AA									
	ZZP0-23-130									
2.3L (141CID,2311CC),OHV,4CYL, 93.47MM (3.680"), HSC 2.3 / 1984-1994										
TEMPO / 84-94	SWF30011-0	93.47	Top: 2.000	X	3.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
TOPAZ / 84-94	SWF30011-1	93.72	0.079		0.130					
	SWF30011-2	93.97	2nd: 2.000	X	4.300	T1-RB	CAST IRON	PHOSPHATE		
	SWF30011-3	94.22	0.079		0.169					
	SWF30011-4	94.47	Oil: 4.760	X	4.200	NIFF-S	STEEL	CHROME		
	REFERENCE #	TOP	2ND	OIL						
	E63Z 6148 A*									
2.3L (143CID,2346CC),SOHC,4CYL, 91.10MM (3.587"), 4D55 / 1985-1987 DIESEL										
BRONCO II / 85-85	SDM31038-0	91.10	Top: 2.500	X	3.250	BF-K2	STEEL	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
RANGER / 86-87	SDM31038-1	91.35	0.098		0.128					
	SDM31038-2	91.60	2nd: 2.000	X	3.900	T1-K2	CAST IRON	CHROME		
	SDM31038-3	91.85	0.079		0.154					
	SDM31038-4	92.10	Oil: 4.000	X	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #	TOP	2ND	OIL						
	E5TZ 6149 A									
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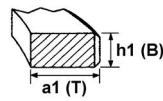
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), DURATEC 25,DURATEC 25H / 2009-2017															
ESCAPE / 09-17	SWF30024-0	89.00	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ESCAPE HYBRID / 09-12	SWF30024-1	89.25	0.047		0.114										
FUSION / 10-17	SWF30024-2	89.50	1.200	X	3.800	TUC	CAST IRON	PHOSPHATE							
FUSION HYBRID / 10-12	SWF30024-3	89.75	0.047		0.150										
MARINER / 09-10	SWF30024-4	90.00	2.500	X	2.450	NIFF-H	STEEL	NITRIDED							
MARINER HYBRID / 09-10	REFERENCE #	TOP	2ND	OIL											
MILAN HYBRID / 10-10	9E5Z 6148 A														
MKZ HYBRID / 11-12															
TRANSIT CONNECT / 14-17															
2.5L (152CID,2496CC),OHV,4CYL, 93.470MM (3.680"), HSC 2.5 / 1986-1991															
SABLE / 86-86	SWF30011-0	93.47	2.000	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
TAURUS / 86-91	SWF30011-1	93.72	0.079		0.130										
	SWF30011-2	93.97	2.000	X	4.300	T1-RB	CAST IRON	PHOSPHATE							
	SWF30011-3	94.22	0.079		0.169										
	SWF30011-4	94.47	4.760	X	4.200	NIFF-S	STEEL	CHROME							
	SWF30011-4	94.47	0.187		0.165										
	REFERENCE #	TOP	2ND	OIL											
	E63Z 6148 A*														
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL / 1993-1997															
PROBE / 93-97	SWT20073-0	84.50	1.500	X	3.050	BF	STEEL	CHROME	11-716-0	84.50	TL:	55.90	PL:	61.00	CHK.
	SWT20073-1	84.75	0.059		0.120				11-716-1	84.75	CH:	29.20	PD:	19.98	DIA
	SWT20073-2	85.00	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-716-2	85.00	DIST1:	-1.70	Head:	NONE	11.00
	SWT20073-3	85.25	0.059		0.142				11-716-3	85.25	DIST2:		Skirt:	MS	
	SWT20073-4	85.50	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-716-4	85.50	DIST3:				
	SWT20073-4	85.50	0.118		0.114										
	REFERENCE #	TOP	2ND	OIL					REFERENCE #						
	E32Z 6149 D								E32Z 6108 D						
	E42Z 6149 D								E32Z 6108 G						
	KLY2-11-SC0A								F42Z 6108 D						
									F52Z 6108 A						
									KLY1-11-SL0B						
									KLZ1-11-SA0						
									KLZ1-11-SL0B						
2.5L (153CID,2507CC),SOHC,4CYL, 96.000MM (3.780"), OHC 2.5 / 1998-2001															
RANGER / 98-01	SWT20076-0	96.00	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20076-1	96.25	0.059		0.157										
	SWT20076-2	96.50	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20076-3	96.75	0.059		0.157										
	SWT20076-4	97.00	3.000	X	3.450	NIFF-S	STEEL	CHROME							
	SWT20076-4	97.00	0.118		0.136										
	REFERENCE #	TOP	2ND	OIL											
	F67Z 6148 AA														
	F87Z 6148 AA														
	ZZP0-23-130														



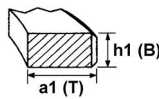
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.5L (155CID,2540CC),DOHC,6CYL, 82.420MM (3.245"), DURATEC 25SVT,DURATEC VE / 1995-2002															
CONTOUR / 95-00	SWF30003-0	82.42	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
COUGER / 99-02	SWF30003-1	82.67	0.047		0.114										
MYSTIQUE / 95-00	SWF30003-2	82.92	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWF30003-3	83.17	0.059		0.142										
	SWF30003-4	83.42	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
	AM Ring Available		0.118		0.112										
	REFERENCE #		TOP	2ND	OIL										
	F5RZ 6148 E														
	XS2Z 6148 AA														
2.9L (177CID,2901CC),OHV,6CYL, 93.000MM (3.661"), COLOGNE 29 / 1986-1992															
BRONCO II / 86-90	SWF30014-0	93.00	1.600	X	3.900	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
RANGER / 86-92	SWF30014-1	93.25	0.063		0.154										
SCORPIO / 88-89	SWF30014-2	93.50	1.750	X	3.900	T1	CAST IRON	PHOSPHATE							
	SWF30014-3	93.75	0.069		0.154										
	SWF30014-4	94.00	3.500	X	3.050	NIFF-S	STEEL	NITRIDED							
			0.138		0.120										
	REFERENCE #		TOP	2ND	OIL										
	E7RY 6148 A														
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1993-1998															
VILLAGER / 93-98	SWN30058-0	87.00	1.500	X	3.100	BF	STEEL	NITRIDED	11-603-0	87.00	TL:	67.00	PL:	64.00	CHK.
	SWN30058-1	87.25	0.059		0.122				11-603-1	87.25	CH:	32.00	PD:	21.00	DIA
	SWN30058-2	87.50	1.500	X	3.800	T1	CAST IRON	CHROME	11-603-2	87.50	DIST1:		Head:	NONE	10.00
	SWN30058-3	87.75	0.059		0.150				11-603-3	87.75	DIST2:		Skirt:	NONE	
	SWN30058-4	88.00	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-603-4	88.00	DIST3:				
	AM Ring Available		0.110		0.118										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	12033-17V01								12010-21P61						
	12033-21V01								12010-V7175						
	12033-96E01								A2010-10G03						
	12033-F6511								F7XZ 6108 AA						
	F6XZ 6148 AA														
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 2001-2010															
ESCAPE / 07-10	SWF30021-0	89.00	1.200	X	3.500	BF	STEEL	NITRIDED	11-868-0	89.00	TL:	52.60	PL:	60.50	CHK.
FIVE HUNDRED / 05-07	SWF30021-1	89.25	0.047		0.138				11-868-1	89.25	CH:	30.00	PD:	21.01	DIA
Freestyle / 05-07	SWF30021-2	89.50	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-868-2	89.50	DIST1:	1.00	Head:	NONE	7.00
FUSION / 06-10	SWF30021-3	89.75	0.059		0.161				11-868-3	89.75	DIST2:		Skirt:	MS	
LS / 02-05	SWF30021-4	90.00	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-868-4	90.00	DIST3:				
			0.098		0.112										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	AL8Z 6148 A								6E5Z 6100 BA						
	C2C005449								AJTM-11-210						
	XW4Z 6148 A								ZZDL-11-210						
	YF1Z 6148 BA														



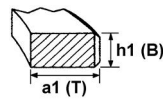
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 2001-2012																
ESCAPE / 01-12 FUSION / 11-12	SWF30021-0 SWF30021-1 SWF30021-2 SWF30021-3 SWF30021-4	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.200 0.047 1.500 0.059 2.500 0.098	X X X	3.500 0.138 4.100 0.161 2.850 0.112	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	REFERENCE # AL8Z 6148 A C2C005449 XW4Z 6148 A YF1Z 6148 BA	TOP 2ND OIL														
3.0L (182CID,2982CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 1996-2000																
SABLE / 97-00 TAURUS / 96-00	SWG10004-0 SWG10004-1 SWG10004-2 SWG10004-3 SWG10004-4 AM Ring Available	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.200 0.047 1.500 0.059 3.000 0.118	X X X	3.500 0.138 3.600 0.142 2.850 0.112	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	REFERENCE # 12481987 12538683 XW4Z 6148 CA	TOP 2ND OIL														
3.0L (182CID,2983CC),OHV,6CYL, 89.000MM (3.504"), VULCAN / 1986-2000																
AEROSTAR / 86-97 PROBE / 90-92 RANGER / 91-98 SABLE / 86-98 TAURUS / 86-98 TEMPO / 92-94 TOPAZ / 92-94 WINDSTAR / 95-00	SWI10155-0 SWI10155-1 SWI10155-2 SWI10155-3 SWI10155-4	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 4.000 0.157	X X X	3.700 0.146 3.600 0.142 3.200 0.126	T1 T1-RC NIFF-S	CAST IRON CAST IRON STEEL	PHOSPHATE PHOSPHATE CHROME	11-825-0 11-825-1 11-825-2 11-825-3 11-825-4	89.00 89.25 89.50 89.75 90.00	TL: CH: DIST1: DIST2: DIST3:	66.30 38.50 Head: Skirt:	PL: PD: Head: Skirt:	70.00 23.17 NONE NONE	CHK. DIA 8.00
	REFERENCE # 10181330 8-10181-330-0 F6DZ 6148 RA F6DZ 6148 RA* ZZCA-11-100	TOP 2ND OIL								REFERENCE # F5DZ 6108 EA F5DZ 6108 EB						
3.0L (183CID,2997CC),OHV,6CYL, 89.000MM (3.504"), VULCAN / 1999-2008																
RANGER / 99-08 SABLE / 99-04 TAURUS / 99-05	SWF30016-0 SWF30016-1 SWF30016-2 SWF30016-3 SWF30016-4	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.450 0.136 3.700 0.146 2.950 0.116	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-874-0 11-874-1 11-874-2 11-874-3 11-874-4	89.00 89.25 89.50 89.75 90.00	TL: CH: DIST1: DIST2: DIST3:	64.80 40.80 1.80	PL: PD: Head: Skirt:	57.50 23.17 NONE MS	CHK. DIA 11.00
	REFERENCE # 1F61-23-130 2F1Z 6148 AA 4F1Z 6148 CA ZZP1-23-130	TOP 2ND OIL								REFERENCE # 1U2Z 6108 CA 2F1Z 6108 AA						



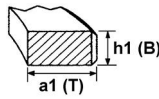
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.3L (200CID,3272CC),SOHC,6CYL, 91.500MM (3.602"), VG33E / 1999-2002										
VILLAGER / 99-02	SWN30120-0	91.50	Top: 1.500	X	3.250	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWN30120-1	91.75	0.059		0.128					
	SWN30120-2	92.00	2nd: 1.500	X	4.000	T1	CAST IRON	CHROME		
	SWN30120-3	92.25	0.059		0.157					
	SWN30120-4	92.50	Oil: 2.800	X	3.050	NIFF-S	STEEL	CHROME		
			0.110		0.120					
	REFERENCE #		TOP		2ND			OIL		
	12033-0W000									
	12033-7B000									
	12033-7Z800									
	XF5Z 6148 AA									
3.5L (213CID,3496CC),DOHC,6CYL, 92.500MM (3.642"), DURATEC 35,EcoBoost 35T / 2007-2017										
EDGE / 07-15	SWF30026-0	92.50	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
EXPEDITON / 15-17	SWF30026-1	92.75	0.047		0.122					
EXPLORER / 11-17	SWF30026-2	93.00	2nd: 1.500	X	3.550	TUC	CAST IRON	PHOSPHATE		
F150 / 15-17	SWF30026-3	93.25	0.059		0.140					
FLEX / 10-16	SWF30026-4	93.50	Oil: 2.500	X	2.750	NIFF-H	STEEL	NITRIDED		
FUSION / 10-12			0.098		0.108					
MKS / 10-12	REFERENCE #		TOP		2ND			OIL		
MKT / 10-12	ATAZ 6148 C									
MKX / 07-10										
MKZ / 07-12										
SABLE / 08-09										
TAURUS / 08-15										
TAURUS SHO / 10-16										
Taurus X / 08-09										
3.8L (232CID,3802CC),OHV,6CYL, 96.800MM (3.811"), ESSEX 38 / 1988-2006										
CONTINENTAL / 88-94	SWF30013-0	96.80	Top: 1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
COUGER / 88-95	SWF30013-1	97.05	0.059		0.136					
FREESTAR / 04-06	SWF30013-2	97.30	2nd: 1.500	X	4.200	T1-RB	CAST IRON	PHOSPHATE		
MUSTANG / 94-95	SWF30013-3	97.55	0.059		0.165					
SABLE / 88-95	SWF30013-4	97.80	Oil: 4.000	X	3.200	NIFF-S	STEEL	CHROME		
TAURUS / 88-95			0.157		0.126					
THUNDERBIRD / 88-95	REFERENCE #		TOP		2ND			OIL		
WINDSTAR / 95-95	E8DZ 6148 A									
	E9SZ 6148 B									
	F4DZ 6148 A									
3.8L (232CID,3802CC),OHV,6CYL, 96.800MM (3.811"), ESSEX 38 / 1996-2004										
COUGER / 96-97	SWF30004-0	96.80	Top: 1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
MUSTANG / 96-04	SWF30004-1	97.05	0.059		0.130					
THUNDERBIRD / 96-97	SWF30004-2	97.30	2nd: 1.500	X	4.200	T1-RB	CAST IRON	PHOSPHATE		
WINDSTAR / 96-03	SWF30004-3	97.55	0.059		0.165					
	SWF30004-4	97.80	Oil: 3.000	X	3.200	NIFF-S	STEEL	NITRIDED		
	AM Ring Available		0.118		0.126					
	REFERENCE #		TOP		2ND			OIL		
	2L3Z 6148 KA									
	F6ZZ 6148 A									



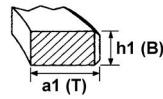
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.8L (232CID,3802CC),OHV,6CYL, 96.800MM (3.811"), ESSEX V6 38,ESSEX V6 38 C & F / 1982-1987										
CAPRI / 83-86	SWF30015-0	96.80	Top:	2.000	X	4.400	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CONTINENTAL / 82-82	SWF30015-1	97.05		0.079	0.173	T1-RB	CAST IRON	PHOSPHATE		
COUGER / 82-87	SWF30015-2	97.30		2.000	X				4.400	
COUGER XR7 / 82-82	SWF30015-3	97.55	2nd:	0.079	0.173	NIFF-S	STEEL	CHROME		
GRANADA / 82-82	SWF30015-4	97.80	Oil:	4.000	X				4.050	
LTD / 83-86	REFERENCE #	TOP	2ND	OIL						
MARQUIS / 83-86	E2DZ 6148 A									
MUSTANG / 83-86										
PICKUP / 82-83										
THUNDERBIRD / 82-87										
3.9L (240CID,3933CC),OHV,6CYL, 101.600MM (4.000"), 240 CDI / 1974-1974										
ECONOLINE E100 / 74-74	SWF80017-0	101.60	Top:	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF80017-1	101.85		0.078	0.195	T1-RC	CAST IRON	PHOSPHATE		
ECONOLINE E200 / 74-74	SWF80017-2	102.10		2nd:	1.984				X	
	SWF80017-3	102.35	Oil:	4.763	X	4.600	NIFF-S	STEEL	CHROME	
PICKUP / 74-74	SWF80017-4	102.60		0.188	0.181					
	REFERENCE #	TOP	2ND	OIL						
	12507985									
	14059025									
	14089025									
	88894219									
	C3AZ 6148 F									
	F6DZ 6148 RA									
4.0L (245CID,4015CC),OHV,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1998-1998										
RANGER / 98-98	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT20072-1	100.65		0.063	0.157	TUC	CAST IRON	PHOSPHATE		
	SWT20072-2	100.90		2nd:	1.750				X	
	SWT20072-3	101.15	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME	
	SWT20072-4	101.40		0.138	0.124					
	REFERENCE #	TOP	2ND	OIL						
	F7TZ 6148 BA									
	FOTZ 6148 M									
	ZZM2-23-130									
4.0L (245CID,4015CC),SOHC,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1997-2001										
EXPLORER / 97-99	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
MOUNTAINEER / 98-01	SWT20072-1	100.65		0.063	0.157	TUC	CAST IRON	PHOSPHATE		
RANGER / 99-00	SWT20072-2	100.90		2nd:	1.750				X	
	SWT20072-3	101.15	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME	
	SWT20072-4	101.40		0.138	0.124					
	REFERENCE #	TOP	2ND	OIL						
	F7TZ 6148 BA									
	FOTZ 6148 M									
	ZZM2-23-130									



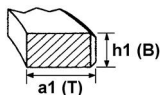
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
4.0L (245CID,4015CC),SOHC,6CYL, 100.400MM (3.953"), COLOGNE 40 / 2001-2011													
EXPLORER / 01-10	SWF30012-0	100.40	Top: 1.200	X	3.500	BF	STEEL	NITRIDED	11-914-0	100.40	TL: 64.70	PL: 72.50	CHK.
Explorer Sport Trac / 01-10	SWF30012-1	100.65	0.047		0.138				11-914-1	100.65	CH: 36.40	PD: 24.00	DIA
MOUNTAINEER / 02-10	SWF30012-2	100.90	2nd: 1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-914-2	100.90	DIST1:	Head: AH	12.50
MUSTANG / 05-09	SWF30012-3	101.15	0.059		0.165				11-914-3	101.15	DIST2:	Skirt: MS	
RANGER / 01-11	SWF30012-4	101.40	Oil: 3.000	X	3.250	NIFF-S	STEEL	CHROME	11-914-4	101.40	DIST3:		
	REFERENCE # 1F62-23-130 2U3Z 6148 AA		TOP		2ND			OIL		REFERENCE # XL2Z 6108 AA			
4.0L (246CID,4025CC),OHV,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1990-2000													
AEROSTAR / 90-97	SWT20072-0	100.40	Top: 1.600	X	4.000	BF	CAST IRON	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>				
EXPLORER / 91-00	SWT20072-1	100.65	0.063		0.157								
RANGER / 90-97	SWT20072-2	100.90	2nd: 1.750	X	4.000	TUC	CAST IRON	PHOSPHATE					
	SWT20072-3	101.15	0.069		0.157								
	SWT20072-4	101.40	Oil: 3.500	X	3.150	NIFF-S	STEEL	CHROME					
	REFERENCE # F7TZ 6148 BA FOTZ 6148 M ZZM2-23-130		TOP		2ND			OIL					
4.2L (256CID,4195CC),OHV,6CYL, 96.800MM (3.811"), ESSEX V6 4.2 / 1997-2008													
CLUB WAGON / 97-98	SWF30004-0	96.80	Top: 1.500	X	3.300	BF	STEEL	NITRIDED	11-826-0	96.80	TL: 59.10	PL: 63.30	CHK.
ECONOLINE E150 / 97-02	SWF30004-1	97.05	0.059		0.130				11-826-1	97.05	CH: 31.80	PD: 23.00	DIA
ECONOLINE E250 / 97-02	SWF30004-2	97.30	2nd: 1.500	X	4.200	T1-RB	CAST IRON	PHOSPHATE	11-826-2	97.30	DIST1: -3.60	Head: NONE	11.50
F150 / 97-08	SWF30004-3	97.55	0.059		0.165				11-826-3	97.55	DIST2:	Skirt: MS	
FREESTAR / 04-07	SWF30004-4	97.80	Oil: 3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-826-4	97.80	DIST3:		
	AM Ring Available		0.118		0.126								
	REFERENCE # 2L3Z 6148 KA F6ZZ 6148 A		TOP		2ND			OIL		REFERENCE # XL3Z 6108 AA			
4.6L (281CID,4605CC),DOHC,8CYL, 90.200MM (3.551"), INTECH 46 / 1998-2002													
CONTINENTAL / 98-02	SWF30008-0	90.20	Top: 1.200	X	3.300	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>				
MARK VIII / 98-98	SWF30008-1	90.45	0.047		0.130								
	SWF30008-2	90.70	2nd: 1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE					
	SWF30008-3	90.95	0.059		0.154								
	SWF30008-4	91.20	Oil: 3.000	X	3.100	NIFF-S	STEEL	NITRIDED					
	0.118		0.122										
	REFERENCE # F8LZ 6148 AA		TOP		2ND			OIL					



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.6L (281CID,4605CC),DOHC,8CYL, 90.200MM (3.551"), INTECH,TRITON 46C / 1993-1998																
CONTINENTAL / 95-97 MARK VIII / 93-97 MUSTANG / 96-98	SWF30006-0 SWF30006-1 SWF30006-2 SWF30006-3 SWF30006-4 AM Ring Available	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.300 0.130 4.100 0.161 3.100 0.122	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	REFERENCE # 1L2Z 6148 AA 2L3Z 6148 AA 2L3Z 6148 DA 2L3Z 6148 GA 4G7Z 6148 AA 6L3Z 6148 A 6L3Z 6148 A* F2AZ 6148 A F3LY 6148 A F5LY 6148 A F7AZ 6148 AA	TOP 2ND OIL														
4.6L (281CID,4605CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 46 / 1998-2001																
TOWN CAR / 98-01	SWF30008-0 SWF30008-1 SWF30008-2 SWF30008-3 SWF30008-4	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.200 0.047 1.500 0.059 3.000 0.118	X X X	3.300 0.130 3.900 0.154 3.100 0.122	BF T1-RB NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	REFERENCE # F8LZ 6148 AA	TOP 2ND OIL														
4.6L (281CID,4605CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 46GT / 1991-2004																
COUGER / 94-97 Crown Victoria / 92-00 ECONOLINE E150 / 00-02 EXPEDITON / 97-04 F150 / 97-02 Grand Marquis / 92-00 MUSTANG / 96-02 THUNDERBIRD / 94-97 TOWN CAR / 91-97	SWF30006-0 SWF30006-1 SWF30006-2 SWF30006-3 SWF30006-4 AM Ring Available REFERENCE # 1L2Z 6148 AA 2L3Z 6148 AA 2L3Z 6148 DA 2L3Z 6148 GA 4G7Z 6148 AA 6L3Z 6148 A 6L3Z 6148 A* F2AZ 6148 A F3LY 6148 A F5LY 6148 A F7AZ 6148 AA	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.300 0.130 4.100 0.161 3.100 0.122	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-820-0 11-820-1 11-820-2 11-820-3 11-820-4	90.20 90.45 90.70 90.95 91.20	TL: CH: DIST1: DIST2: DIST3:	56.20 30.86 -3.86	PL: PD: Head: Skirt:	62.00 22.00 NONE MS	CHK. DIA 11.00
		TOP 2ND OIL								REFERENCE # F8AZ 6108 AA						



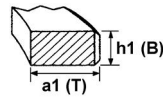
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
4.6L (281CID,4605CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 46GT / 1996-2014															
CLUB WAGON / 97-98	SWF30006-0	90.20	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
Crown Victoria / 01-08	SWF30006-1	90.45	0.059		0.130										
ECONOLINE E150 / 97-14	SWF30006-2	90.70	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE							
ECONOLINE E250 / 03-14	SWF30006-3	90.95	0.059		0.161										
	SWF30006-4	91.20	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
	AM Ring Available		0.118		0.122										
EXPLORER / 02-05	REFERENCE #	TOP	2ND	OIL											
F150 / 01-10	1L2Z 6148 AA														
Grand Marquis / 96-11	2L3Z 6148 AA														
MOUNTAINEER / 02-05	2L3Z 6148 DA														
MUSTANG / 00-04	2L3Z 6148 GA														
PICKUP / 97-99	4G7Z 6148 AA														
TOWN CAR / 02-11	6L3Z 6148 A														
	6L3Z 6148 A*														
	F2AZ 6148 A														
	F3LY 6148 A														
	F5LY 6148 A														
	F7AZ 6148 AA														
4.6L (281CID,4605CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 46V / 2005-2010															
EXPLORER / 06-10	SWF30006-0	90.20	1.500	X	3.300	BF	STEEL	NITRIDED	11-903-0	90.20	TL:	52.50	PL:	62.00	CHK.
Explorer Sport Trac / 07-10	SWF30006-1	90.45	0.059		0.130				11-903-1	90.45	CH:	31.00	PD:	22.00	DIA
	SWF30006-2	90.70	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-903-2	90.70	DIST1:	1.30	Head:	AH	9.00
MOUNTAINEER / 06-10	SWF30006-3	90.95	0.059		0.161				11-903-3	90.95	DIST2:		Skirt:	MS	
MUSTANG / 05-09	SWF30006-4	91.20	3.000	X	3.100	NIFF-S	STEEL	NITRIDED	11-903-4	91.20	DIST3:				
	AM Ring Available		0.118		0.122										
	REFERENCE #	TOP	2ND	OIL											
	1L2Z 6148 AA														
	2L3Z 6148 AA														
	2L3Z 6148 DA														
	2L3Z 6148 GA														
	4G7Z 6148 AA														
	6L3Z 6148 A														
	6L3Z 6148 A*														
	F2AZ 6148 A														
	F3LY 6148 A														
	F5LY 6148 A														
	F7AZ 6148 AA														
	REFERENCE #	8R3Z 6100 G													



FORD

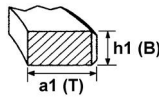
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.9L (300CID,4916CC),OHV,6CYL, 101.600MM (4.000"), straight-6 300 / 1974-1989										
BRONCO / 80-89	SWF80017-0	101.60	Top: 1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CLUB WAGON / 75-76	SWF80017-1	101.85	0.078		0.195					
ECONOLINE E100 / 74-83	SWF80017-2	102.10	2nd: 1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE		
	SWF80017-3	102.35	0.078		0.183					
ECONOLINE E150 / 75-84	SWF80017-4	102.60	Oil: 4.763	X	4.600	NIFF-S	STEEL	CHROME		
ECONOLINE E200 / 74-74	REFERENCE #		TOP	2ND	OIL					
	12507985									
ECONOLINE E250 / 75-78	14059025									
ECONOLINE E300 / 74-74	88894219									
ECONOLINE E350 / 75-84	C3AZ 6148 F									
F150 / 85-89	F6DZ 6148 RA									
F250 / 75-89										
F350 / 75-85										
PICKUP / 74-74										
4.9L (302CID, 4,949CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), WINDSOR 302 / 1986-2001										
BRONCO / 90-96	SWF80011-0	101.60	Top: 1.50	X	4.17	BF	DUCTILE IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CONTINENTAL / 86-86	SWF80011-1	101.85	0.059		0.164					
COUGER / 86-88	SWF80011-2	102.10	2nd: 1.50	X	4.45	T1-RB	CAST IRON	PHOSPHATE		
ECONOLINE E150 / 90-96	SWF80011-3	102.35	0.059		0.175					
	SWF80011-4	102.60	Oil: 4.00	X	2.61	NIFF-S	STEEL	CHROME		
ECONOLINE E250 / 90-95	REFERENCE #		TOP	2ND	OIL					
EXPLORER / 96-01	4740259									
F150 / 87-96	E5TZ 6148 EE									
F250 / 87-96	F2ZZ 6148 A									
Grand Marquis / 86-91	F6TZ 6148 AA									
MARK VII / 86-86										
MOUNTAINEER / 97-01										
MUSTANG / 89-95										
THUNDERBIRD / 91-93										
TOWN CAR / 86-90										



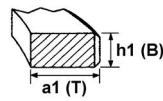
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.9L (302CID,4949CC),OHV,8CYL, 101.600MM (4.000"), WINDSOR 302 / 1974-1992										
BRONCO / 74-86	SWF80016-0	101.60	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CAPRI / 82-86	SWF80016-1	101.85	0.078		0.195					
CLUB WAGON / 79-81	SWF80016-2	102.10	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE		
CONTINENTAL / 80-85	SWF80016-3	102.35	0.078		0.183					
COUGER / 80-85	SWF80016-4	102.60	4.763	X	4.600	NIFF-S	STEEL	CHROME		
ECONOLINE E100 / 79-83	REFERENCE #	TOP	2ND	OIL						
ECONOLINE E150 / 79-89	12507985									
ECONOLINE E200 / 74-74	14089025									
ECONOLINE E250 / 87-89	3579044									
ECONOLINE E300 / 74-74	3780016									
F150 / 85-86	88894219									
F250 / 85-86	C3AZ 6108 F									
GRANADA / 80-80	C3AZ 6148 F									
Grand Marquis / 80-85	E3ZZ 6148 A									
LTD / 80-85	E6TZ 6148 A									
LTD Crown Victoria / 80-88										
MARK VI / 80-83										
MARK VII / 84-92										
MARQUIS / 80-82										
MONARCH / 80-80										
MUSTANG / 82-85										
THUNDERBIRD / 80-85										
TOWN CAR / 81-85										
VERSAILLES / 80-80										
5.0L (302CID,4951CC),DOHC,8CYL, 92.200MM (3.630"), COYOTE 50 / 2011-2017										
F150 / 11-16	SWF30027-0	92.20	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
MUSTANG / 11-17	SWF30027-1	92.45	0.047		0.122					
SHELBY GT350 / 14-17	SWF30027-2	92.70	1.200	X	3.500	TUC	DUCTILE IRON	CHROME		
	SWF30027-3	92.95	0.047		0.138					
	SWF30027-4	93.20	2.500	X	2.750	NIFF-H	STEEL	NITRIDED		
	REFERENCE #	TOP	2ND	OIL						
	CUTZ 6148 A									

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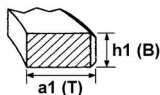


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
5.4L (330CID,5408CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54 / 1997-2010											
CLUB WAGON / 97-98	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-810-0 90.20	TL: 52.00 PL: 61.00 CHK.
ECONOLINE E150 / 97-10	SWF30006-1	90.45		0.059		0.130				11-810-1 90.45	CH: 31.00 PD: 22.00 DIA
ECONOLINE E250 / 97-10	SWF30006-2	90.70	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-810-2 90.70	DIST1: -1.75 Head: NONE 5.00
ECONOLINE E350 / 97-05	SWF30006-3	90.95		0.059		0.161				11-810-3 90.95	DIST2: Skirt: MS
EXCURSION / 00-00	SWF30006-4	91.20	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED	11-810-4 91.20	DIST3:
EXPEDITON / 97-00	AM Ring Available			0.118		0.122					
F150 / 97-00	REFERENCE #		TOP			2ND				OIL	REFERENCE #
F250 / 97-00	1L2Z 6148 AA										XC3Z 6108 CA
F350 / 99-00	2L3Z 6148 AA										
NAVIGATOR / 98-99	2L3Z 6148 DA										
	2L3Z 6148 GA										
	4G7Z 6148 AA										
	6L3Z 6148 A										
	6L3Z 6148 A*										
	F2AZ 6148 A										
	F3LY 6148 A										
	F5LY 6148 A										
	F7AZ 6148 AA										
5.4L (330CID,5408CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54 / 1999-2005											
EXCURSION / 00-05	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-809-0 90.20	TL: 52.10 PL: 61.00 CHK.
EXPEDITON / 99-04	SWF30006-1	90.45		0.059		0.130				11-809-1 90.45	CH: 30.75 PD: 22.00 DIA
F150 / 99-03	SWF30006-2	90.70	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-809-2 90.70	DIST1: -3.50 Head: NONE 6.00
F250 / 99-03	SWF30006-3	90.95		0.059		0.161				11-809-3 90.95	DIST2: Skirt: MS
F350 / 99-03	SWF30006-4	91.20	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED	11-809-4 91.20	DIST3:
NAVIGATOR / 99-99	AM Ring Available			0.118		0.122					
	REFERENCE #		TOP			2ND				OIL	REFERENCE #
	1L2Z 6148 AA										XL3Z 6148 KA
	2L3Z 6148 AA										
	2L3Z 6148 DA										
	2L3Z 6148 GA										
	4G7Z 6148 AA										
	6L3Z 6148 A										
	6L3Z 6148 A*										
	F2AZ 6148 A										
	F3LY 6148 A										
	F5LY 6148 A										
	F7AZ 6148 AA										



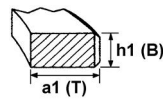
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.4L (330CID,5408CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 54 / 2011-2014										
ECONOLINE E150 / 11-14	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF30006-1	90.45		0.059		0.130				
ECONOLINE E250 / 11-14	SWF30006-2	90.70	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	
	SWF30006-3	90.95		0.059		0.161				
	SWF30006-4	91.20	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED	
	AM Ring Available			0.118		0.122				
	REFERENCE #		TOP	2ND	OIL					
	1L2Z 6148 AA									
	2L3Z 6148 AA									
	2L3Z 6148 DA									
	2L3Z 6148 GA									
	4G7Z 6148 AA									
	6L3Z 6148 A									
	6L3Z 6148 A*									
	F2AZ 6148 A									
	F3LY 6148 A									
	F5LY 6148 A									
	F7AZ 6148 AA									
5.4L (330CID,5409CC),DOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54 / 1999-2012										
BLACKWOOD / 02-02	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
GT / 05-06	SWF30006-1	90.45		0.059		0.130				
NAVIGATOR / 99-04	SWF30006-2	90.70	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	
SHELBY GT500 / 07-12	SWF30006-3	90.95		0.059		0.161				
	SWF30006-4	91.20	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED	
	AM Ring Available			0.118		0.122				
	REFERENCE #		TOP	2ND	OIL					
	1L2Z 6148 AA									
	2L3Z 6148 AA									
	2L3Z 6148 DA									
	2L3Z 6148 GA									
	4G7Z 6148 AA									
	6L3Z 6148 A									
	6L3Z 6148 A*									
	F2AZ 6148 A									
	F3LY 6148 A									
	F5LY 6148 A									
	F7AZ 6148 AA									



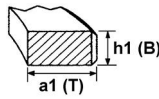
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ENGINE MODEL APPLICATION		PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO					
5.4L (330CID,5409CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54V / 2004-2014																	
EXPEDITON / 05-14		SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-853-0	90.20	TL:	52.00	PL:	62.00	CHK.
F150 / 04-10		SWF30006-1	90.45		0.059		0.130				11-853-1	90.45	CH:	30.70	PD:	22.00	DIA
F250 / 05-10		SWF30006-2	90.70		1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-853-2	90.70	DIST1:		Head:	AH	13.00
F350 / 05-10		SWF30006-3	90.95	2nd:	0.059		0.161			11-853-3	90.95	DIST2:		Skirt:	MS		
MARK LT / 06-08		SWF30006-4	91.20		3.000	X	3.100	NIFF-S	STEEL	NITRIDED	11-853-4	91.20	DIST3:				
NAVIGATOR / 06-14		AM Ring Available			0.118		0.122										
REFERENCE #			TOP	2ND			OIL			REFERENCE #							
1L2Z 6148 AA								3L3Z 6108 CC									
2L3Z 6148 AA																	
2L3Z 6148 DA																	
2L3Z 6148 GA																	
4G7Z 6148 AA																	
6L3Z 6148 A																	
6L3Z 6148 A*																	
F2AZ 6148 A																	
F3LY 6148 A																	
F5LY 6148 A																	
F7AZ 6148 AA																	
5.8L (351CID, 5752CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), WINDSOR 351 / 1994-1996																	
ECONOLINE E150 / 94-96		SWF80011-0	101.60	Top:	1.50	X	4.17	BF	DUCTILE IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ECONOLINE E250 / 90-95		SWF80011-1	101.85		0.059		0.164										
ECONOLINE E250 / 90-95		SWF80011-2	102.10		1.50	X	4.45	T1-RB	CAST IRON	PHOSPHATE							
ECONOLINE E250 / 90-95		SWF80011-3	102.35	2nd:	0.059		0.175										
ECONOLINE E250 / 90-95		SWF80011-4	102.60		4.00	X	2.61	NIFF-S	STEEL	CHROME							
ECONOLINE E350 / 94-96			Oil:	0.157		0.103											
REFERENCE #			TOP	2ND			OIL										
4740259																	
E5TZ 6148 EE																	
F2ZZ 6148 A																	
F6TZ 6148 AA																	
5.8L (351CID,5752CC),OHV,8CYL, 101.600MM (4.000"), 351M Cleveland,WINDSOR 351 / 1975-1996																	
BRONCO / 78-93		SWF80016-0	101.60	Top:	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
CLUB WAGON / 75-96		SWF80016-1	101.85		0.078		0.195										
CONTINENTAL / 80-80		SWF80016-2	102.10		1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE							
ECONOLINE E100 / 75-83		SWF80016-3	102.35	2nd:	0.078		0.183										
ECONOLINE E150 / 75-93		SWF80016-4	102.60		4.763	X	4.600	NIFF-S	STEEL	CHROME							
ECONOLINE E150 / 75-93			Oil:	0.188		0.181											
REFERENCE #			TOP	2ND			OIL										
12507985																	
14089025																	
3579044																	
3780016																	
88894219																	
C3AZ 6108 F																	
C3AZ 6148 F																	
E3ZZ 6148 A																	
E6TZ 6148 A																	
LTD / 80-81																	
LTD Crown Victoria / 80-81																	
MARK VI / 80-80																	
MARQUIS / 81-81																	
PICKUP / 77-84																	



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
5.9L (359CID,5889CC),OHV,6CYL, 102.000MM (4.016"), ISB 5.9 / 2004-2007 DIESEL													
F650 / 04-07	SDC10022-0	102.00	3.0K	X	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL: 105.20	PL: 83.00	CHK. 83.00
F750 / 04-07	SDC10022-1	102.25	0.118K		0.165				11-856-1	102.25	CH: 71.40	PD: 40.00	DIA 20.00
	SDC10022-2	102.50	2.350	X	4.300	T1-RC	CAST IRON	PHOSPHATE	11-856-2	102.50	DIST1: -12.50	Head: NONE	
	SDC10022-3	102.75	0.093		0.169				11-856-3	102.75	DIST2:	Skirt: NONE	
	SDC10022-4	103.00	4.000	X	4.300	E-BC16	CAST IRON	CHROME	11-856-4	103.00	DIST3:		
	SDC10022-4	103.00	0.157		0.169								
	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	4089258								3970192				
	4638644												
	5011858AA												
6.4L (391CID,6400CC),OHV,8CYL, 98.200MM (3.866"), PowerStroke 6.4 / 2008-2010 DIESEL													
F250 / 08-10	SDF30022-0	98.20	2.5K	X	3.500	BF-K1	STEEL	NITRIDED	11-886-0	98.20	TL: 78.90	PL: 75.00	CHK. 75.00
F350 / 08-10	SDF30022-1	98.45	0.098K		0.138				11-886-1	98.45	CH: 52.15	PD: 38.50	DIA 15.00
F450 / 08-10	SDF30022-2	98.70	2.000	X	4.300	T1-RB	CAST IRON	PHOSPHATE	11-886-2	98.70	DIST1: -15.95	Head: NONE	
F550 / 08-10	SDF30022-3	98.95	0.079		0.169				11-886-3	98.95	DIST2:	Skirt: MS	
	SDF30022-4	99.20	3.000	X	3.250	E-BC16	STEEL	NITRIDED	11-886-4	99.20	DIST3:		
	SDF30022-4	99.20	0.118		0.128								
	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	4C3Z 6148 AA								8C3Z-6108-EB				
6.6L (400CID,6555CC),OHV,8CYL, 101.600MM (4.000"), Modified 400 / 1977-1982													
BRONCO / 78-79	SWF80016-0	101.60	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
CLUB WAGON / 80-82	SWF80016-1	101.85	0.078		0.195								
ECONOLINE E350 / 81-82	SWF80016-2	102.10	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE					
PICKUP / 77-82	SWF80016-3	102.35	0.078		0.183								
	SWF80016-4	102.60	4.763	X	4.600	NIFF-S	STEEL	CHROME					
	SWF80016-4	102.60	0.188		0.181								
	REFERENCE #	TOP	2ND	OIL									
	12507985												
	14089025												
	3579044												
	3780016												
	88894219												
	C3AZ 6108 F												
	C3AZ 6148 F												
	E3ZZ 6148 A												
	E6TZ 6148 A												
6.7L (406CID,6651CC),OHV,8CYL, 99.000MM (3.898"), PowerStroke 6.7T / 2011-2017 DIESEL													
F250 / 11-15	SDF30025-0	99.00	2.850	X	3.600	BF-K1	DUCTILE IRON	CHROME	DISC-11-915-0	99.00	TL:	PL:	CHK.
F350 SUPER DUTY / 11-17	SDF30025-1	99.25	0.112		0.142				DISC-11-915-1	99.25	CH:	PD:	DIA
	SDF30025-2	99.50	2.000	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-915-2	99.50	DIST1:	Head: AH	
F450 / 11-16	SDF30025-3	99.75	0.079		0.142				DISC-11-915-3	99.75	DIST2:	Skirt: MS	
F550 / 11-16	SDF30025-4	100.00	2.500	X	2.850	E-BC16	STEEL	NITRIDED	DISC-11-915-4	100.00	DIST3:		
F650 / 16-17	SDF30025-4	100.00	0.098		0.112								
F750 / 16-17	SDF30025-4	100.00											
	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	BC3Z 6148 A								BC3Z 6108 D				



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
6.7L (408CID,6690CC),OHV,6CYL, 107.000MM (4.213"), ISB 6.7 / 2008-2013 DIESEL																
F650 / 08-13 F750 / 08-13	SDC10023-0 SDC10023-1 SDC10023-2 SDC10023-3 SDC10023-4	107.00 107.25 107.50 107.75 108.00	Top: 2nd: Oil:	3.0K 0.118K 2.500 0.098 3.500 0.138	X X X	4.400 0.173 4.500 0.177 4.150 0.163	BF-K1 T1-RB E-BC16	DUCTILE IRON CAST IRON CAST IRON	CHROME PHOSPHATE CHROME	11-885-0 11-885-1 11-885-2 11-885-3 11-885-4	107.00 107.25 107.50 107.75 108.00	TL: CH: DIST1: DIST2: DIST3:	103.20 69.40 -22.00	PL: PD: Head: Skirt:	90.50 40.00 NONE NONE	CHK. DIA 20.00
REFERENCE # 4955366		TOP 	2ND 	OIL 	REFERENCE # 4955365											
6.8L (415CID,6801CC),SOHC,10CYL, 90.200MM (3.551"), TRITON 68 / 1997-2003																
CLUB WAGON / 97-98 ECONOLINE E350 / 97-03	SWF30019-0 SWF30019-1 SWF30019-2 SWF30019-3 SWF30019-4	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.250 0.128 4.100 0.161 3.250 0.128	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-812-0 11-812-1 11-812-2 11-812-3 11-812-4	90.20 90.45 90.70 90.95 91.20	TL: CH: DIST1: DIST2: DIST3:	52.40 31.00 -1.75	PL: PD: Head: Skirt:	61.00 22.00 NONE MS	CHK. DIA 5.00
REFERENCE # 2L3Z 6148 AA 6L3Z 6148 A		TOP 	2ND 	OIL 	REFERENCE # XC3Z 6108 CA											
6.8L (415CID,6801CC),SOHC,10CYL, 90.200MM (3.551"), TRITON 68 / 1999-2005																
EXCURSION / 00-05 F250 / 00-04 F350 / 00-04 F450 / 99-04	SWF30019-0 SWF30019-1 SWF30019-2 SWF30019-3 SWF30019-4	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.250 0.128 4.100 0.161 3.250 0.128	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-811-0 11-811-1 11-811-2 11-811-3 11-811-4	90.20 90.45 90.70 90.95 91.20	TL: CH: DIST1: DIST2: DIST3:	52.10 30.75 -3.50	PL: PD: Head: Skirt:	61.00 22.00 NONE MS	CHK. DIA 6.00
REFERENCE # 2L3Z 6148 AA 6L3Z 6148 A		TOP 	2ND 	OIL 	REFERENCE # XL3Z 6148 KA											
6.8L (415CID,6801CC),SOHC,10CYL, 90.200MM (3.551"), TRITON 68,TRITON 68V / 2005-2016																
F250 / 05-10 F350 / 05-10 F450 / 05-15 F550 / 05-15 F650 / 15-15 F750 / 16-16	SWF30019-0 SWF30019-1 SWF30019-2 SWF30019-3 SWF30019-4	90.20 90.45 90.70 90.95 91.20	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.250 0.128 4.100 0.161 3.250 0.128	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
REFERENCE # 2L3Z 6148 AA 6L3Z 6148 A		TOP 	2ND 	OIL 												

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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.3L (444CID,7276CC),OHV,8CYL, 104.400MM (4.110"), PowerStroke 7.3T / 1999-2003										
ECONOLINE E350 / 99-03	SDF30020-0	104.40	3.0K	X	3.900	BF-K1	STEEL	NITRIDED	DISC-11-858-0	104.40
	SDF30020-1	104.65	0.118K		0.154				DISC-11-858-1	104.65
EXCURSION / 00-03	SDF30020-2	104.90	2.000	X	4.000	T1-RB	CAST IRON	PHOSPHATE	DISC-11-858-2	104.90
F250 / 99-03	SDF30020-3	105.15	0.079		0.157				DISC-11-858-3	105.15
F350 / 99-03	SDF30020-4	105.40	3.500	X	3.850	E-BC16	CAST IRON	CHROME	DISC-11-858-4	105.40
F450 / 99-02			0.138		0.152					
F550 / 99-02	REFERENCE #	TOP	2ND	OIL	REFERENCE #					
F650 / 00-02	F81Z 6148 AA				F81Z 6102 AA					

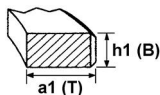
7.5L (460CID,7538CC),OHV,8CYL, 110.740MM (4.360"), FORD 385,FORD 385 C & F / 1975-1997										
CLUB WAGON / 75-96	SWF80032-0	110.74	1.984	X	4.450	BF-IB	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
ECONOLINE E250 / 75-79	SWF80032-1	110.99	0.078		0.175					
	SWF80032-2	111.24	1.984	X	4.400	T1-RB	CAST IRON	PHOSPHATE		
ECONOLINE E350 / 75-96	SWF80032-3	111.49	0.078		0.173					
F250 / 88-97	SWF80032-4	111.74	4.763	X	4.420	NIFF-H	STEEL	CHROME		
F350 / 88-97	REFERENCE #	TOP	2ND	OIL						
	C8SZ 6148 A									
	F3TZ 6148 G									

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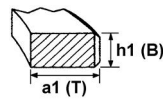
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1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1985-1988										
SPRINT / 85-88	SWS20144-0	74.00	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-668-0	74.00
	SWS20144-1	74.25	0.047		0.106				DISC-11-668-1	74.25
	SWS20144-2	74.50	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	DISC-11-668-2	74.50
	SWS20144-3	74.75	0.059		0.126				DISC-11-668-3	74.75
	SWS20144-4	75.00	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-668-4	75.00
	AM Ring Available		0.110		0.110					
	REFERENCE #	TOP	2ND	OIL	REFERENCE #					
	96055394				96053321					
	96057087									
	96061652									
	96068389									

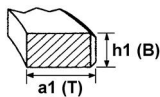
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1986-2000										
METRO / 89-00	SWS20144-0	74.00	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
SPRINT / 86-87	SWS20144-1	74.25	0.047		0.106					
	SWS20144-2	74.50	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE		
	SWS20144-3	74.75	0.059		0.126					
	SWS20144-4	75.00	2.800	X	2.800	NIFF-S	STEEL	CHROME		
	AM Ring Available		0.110		0.110					
	REFERENCE #	TOP	2ND	OIL						
	96055394									
	96057087									
	96061652									
	96068389									



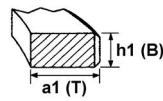
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1989-1998																
METRO / 89-98	SWS20144-0	74.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-665-0	74.00	TL:	55.70	PL:	65.00	CHK. DIA
	SWS20144-1	74.25		0.047		0.106				11-665-1	74.25	CH:	28.70	PD:	17.00	
	SWS20144-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-665-2	74.50	DIST1:	-2.10	Head:	NONE	
	SWS20144-3	74.75		0.059		0.126				11-665-3	74.75	DIST2:		Skirt:	NONE	
	SWS20144-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-665-4	75.00	DIST3:				
AM Ring Available																
REFERENCE #			TOP	2ND		OIL		REFERENCE #								
96055394								96060039								
96057087																
96061652																
96068389																
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10T / 1987-1988 TURBO																
SPRINT / 87-88	SWS20144-0	74.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-666-0	74.00					
	SWS20144-1	74.25		0.047		0.106				DISC-11-666-1	74.25					
	SWS20144-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	DISC-11-666-2	74.50					
	SWS20144-3	74.75		0.059		0.126				DISC-11-666-3	74.75					
	SWS20144-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-666-4	75.00					
AM Ring Available																
REFERENCE #			TOP	2ND		OIL		REFERENCE #								
96055394								96055390								
96057087								96067799								
96061652																
96068389																
1.2L (76CID,1249CC),DOHC,4CYL, 70.500MM (2.776"), ECOTEC LL0 / 2013-2015																
SPARK / 13-15	SWG10051-0	70.50	Top:	1.000	X	2.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10051-1	70.75		0.039		0.091										
	SWG10051-2	71.00	2nd:	1.200	X	2.550	TUC	CAST IRON	PHOSPHATE							
	SWG10051-3	71.25		0.047		0.100										
	SWG10051-4	71.50	Oil:	2.000	X	1.950	NIFF-H	STEEL	NITRIDED							
			0.079	0.077												
REFERENCE #			TOP	2ND		OIL										
25191142																
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1995-1997																
METRO / 95-97	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-625-0	74.00	TL:	55.30	PL:	65.00	CHK. DIA
	SWS20143-1	74.25		0.047		0.112				11-625-1	74.25	CH:	28.40	PD:	17.00	
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-625-2	74.50	DIST1:	-1.30	Head:	NONE	
	SWS20143-3	74.75		0.059		0.126				11-625-3	74.75	DIST2:		Skirt:	NONE	
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-625-4	75.00	DIST3:				
			0.110	0.100												
REFERENCE #			TOP	2ND		OIL		REFERENCE #								
12140-82X50								12111-83000-0A0								
91173873								96066387								
96068389																



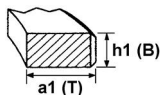
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1998-2001																
METRO / 98-01	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20143-1	74.25		0.047		0.112										
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE							
	SWS20143-3	74.75		0.059		0.126										
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME							
		0.110		0.100												
	REFERENCE # 12140-82X50 91173873 96068389		TOP		2ND		OIL									
1.5L (90CID,1471CC),SOHC,4CYL, 77.000MM (3.031"), 4XC1 / 1985-1989																
SPECTRUM / 85-89	SWI10151-0	77.00	Top:	1.500	X	3.300	T1-IB	DUCTILE IRON	CHROME		DISC-11-565-0	77.00				
	SWI10151-1	77.25		0.059		0.130										
	SWI10151-2	77.50	Oil:	2.800	X	3.100	NIFF-S	STEEL	NITRIDED	DISC-11-565-2	77.50					
	SWI10151-3	77.75		0.110		0.122										
	SWI10151-4	78.00								DISC-11-565-3	77.75					
			DISC-11-565-4	78.00												
	REFERENCE # 8-94141-947-0 94141947		TOP			OIL				REFERENCE # 94251076 94460838						
1.5L (90CID,1471CC),SOHC,4CYL, 77.000MM (3.031"), 4XC1T / 1987-1989 TURBO																
SPECTRUM / 87-89	SWI10153-0	77.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10153-1	77.25		0.047		0.114										
	SWI10153-2	77.50	2nd:	1.200	X	3.500	T1-IB	CAST IRON	CHROME							
	SWI10153-3	77.75		0.047		0.138										
	SWI10153-4	78.00	Oil:	2.800	X	3.100	NIFF-S	STEEL	NITRIDED							
		0.110		0.122												
	REFERENCE # 8-94109-650-0 94109650		TOP		2ND		OIL									
1.6L (95CID,1559CC),SOHC,4CYL, 76.500MM (3.012"), NP960 / 1988-1993																
LeMans / 88-93	SWD20003-0	76.50	Top:	1.500	X	2.650	BF	DUCTILE IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWD20003-1	76.75		0.059		0.104										
	SWD20003-2	77.00	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE							
	SWD20003-3	77.25		0.059		0.126										
	SWD20003-4	77.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
		0.118		0.114												
	REFERENCE # 90273451		TOP		2ND		OIL									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1587CC),DOHC,4CYL, 80.000MM (3.150"), 4XE1W / 1990-1991																	
STORM / 90-91	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWI10149-1	80.25		0.047		0.122											
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE								
	SWI10149-3	80.75		0.047		0.130											
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME								
				0.118		0.098											
	REFERENCE #	TOP	2ND	OIL													
	8-94331-660-0																
	8-94342-124-0																
	8-94370-434-0																
8-97042-171-0																	
8-97402-171-0																	
94331660																	
94342124																	
94370434																	
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-FE / 1989-1992																	
PRIZM / 89-92	SWT10142-0	81.00	Top:	1.500	X	2.700	BF	STEEL	NITRIDED	11-649-0	81.00	TL:	61.10	PL:	61.00	CHK.	
	SWT10142-1	81.25		0.059		0.106							11-649-1	81.25	CH:	30.60	PD:
	SWT10142-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-649-2	81.50	DIST1:	-3.00	Head:	NONE		
	SWT10142-3	81.75		0.059		0.134						11-649-3	81.75	DIST2:	-2.80	Skirt:	NONE
	SWT10142-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-649-4	82.00	DIST3:					
				0.118		0.112											
	REFERENCE #	TOP	2ND	OIL						REFERENCE #							
	13011-16130									13101-16090-01							
	94847305									94847306							
	1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-FE / 1993-1997																
PRIZM / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-714-0	81.00	TL:	55.60	PL:	56.00	CHK.	
	SWT10156-1	81.25		0.047		0.114							11-714-1	81.25	CH:	30.50	PD:
	SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-714-2	81.50	DIST1:	-2.50	Head:	NONE		
	SWT10156-3	81.75		0.059		0.134						11-714-3	81.75	DIST2:		Skirt:	NONE
	SWT10156-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-714-4	82.00	DIST3:					
				0.118		0.112											
	REFERENCE #	TOP	2ND	OIL						REFERENCE #							
	13011-16300									13101-16160-01							
	13011-16340									94853590							
	94854159																
94855500																	
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GE / 1988-1989																	
NOVA / 88-88 PRIZM / 89-89	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-660-0	81.00	TL:	64.50	PL:	61.00	CHK.	
	SWT10108-1	81.25		0.059		0.122							11-660-1	81.25	CH:	30.50	PD:
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-660-2	81.50	DIST1:	0.30	Head:	NONE		
	SWT10108-3	81.75		0.059		0.138						11-660-3	81.75	DIST2:		Skirt:	NONE
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-660-4	82.00	DIST3:					
				0.110		0.110											
	REFERENCE #	TOP	2ND	OIL						REFERENCE #							
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	13011-16170									94844692							
	94840036																
94845462																	



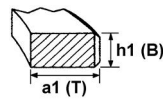
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GE / 1990-1992																
PRIZM / 90-92	SWT10150-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT10150-1	81.25		0.047		0.114										
	SWT10150-2	81.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME							
	SWT10150-3	81.75		0.059		0.134										
	SWT10150-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED							
		0.110		0.110												
REFERENCE #	TOP	2ND	OIL													
94847635																
1.6L (97CID,1587CC),SOHC,4CYL, 75.000MM (2.953"), G16K / 1989-1995																
TRACKER / 89-95	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED		11-629-0	75.00	TL:	58.20	PL:	63.00
	SWS20142-1	75.25		0.047		0.106					11-629-1	75.25	CH:	28.50	PD:	19.00
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-629-2	75.50	DIST1:	-3.30	Head:	NONE	10.00
	SWS20142-3	75.75		0.059		0.126					11-629-3	75.75	DIST2:	-4.70	Skirt:	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-629-4	76.00	DIST3:				
		0.110		0.110												
REFERENCE #	TOP	2ND	OIL													
12140-60A50				REFERENCE #												
91173290				12111-60A02-0A0												
96067669				96067795												
1.6L (97CID,1587CC),SOHC,4CYL, 75.000MM (2.953"), G16KV / 1996-2000																
TRACKER / 96-00	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-630-0	75.00	TL:	55.20	PL:	61.50	CHK. DIA
	SWS20142-1	75.25		0.047		0.106					11-630-1	75.25	CH:	28.20	PD:	
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-630-2	75.50	DIST1:	-4.10	Head:	NONE	21.00
	SWS20142-3	75.75		0.059		0.126					11-630-3	75.75	DIST2:		Skirt:	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-630-4	76.00	DIST3:				
		0.110		0.110												
REFERENCE #	TOP	2ND	OIL													
12140-60A50				REFERENCE #												
91173290				12100-71820-0A0												
96067669				96068583												
1.6L (97CID,1587CC),SOHC,4CYL, 80.000MM (3.150"), 4XE1 / 1990-1993																
STORM / 90-93	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10149-1	80.25		0.047		0.122										
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWI10149-3	80.75		0.047		0.130										
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME							
		0.118		0.098												
REFERENCE #	TOP	2ND	OIL													
8-94331-660-0																
8-94342-124-0																
8-94370-434-0																
8-97042-171-0																
8-97402-171-0																
94331660																
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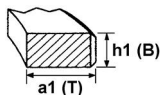
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1587CC),SOHC,4CYL, 81.000MM (3.189"), 4A-LC / 1985-1988																
NOVA / 85-88	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-144-0	81.00	TL:	60.50	PL:	61.00	CHK. DIA 13.00
	SWT10108-1	81.25		0.059		0.122				11-144-1	81.25	CH:	30.50	PD:	18.00	
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-144-2	81.50	DIST1:	-3.00	Head:	NONE	
	SWT10108-3	81.75		0.059		0.138				11-144-3	81.75	DIST2:		Skirt:	NONE	
	SWT10108-4	82.00		Oil:		2.800				2.800	NIFF-S	STEEL	CHROME	11-144-4	82.00	DIST3:
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
13011-16011							13103-16010									
13011-16170							94850643									
94840036																
94845462																
1.6L (98CID,1598CC),DOHC,4CYL, 79.000MM (3.110"), ECOTEC II / 2004-2011																
AVEO / 04-11 AVEO5 / 07-11 G3 / 09-09	SWD20004-0	79.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWD20004-1	79.25		0.047		0.120										
	SWD20004-2	79.50	2nd:	1.500	X	3.300	E-BC16	CAST IRON	PHOSPHATE							
	SWD20004-3	79.75		0.059		0.130										
SWD20004-4	80.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME								
REFERENCE #		TOP	2ND		OIL											
93740225																
1.8L (108CID,1762CC),DOHC,4CYL, 81.000MM (3.189"), 7A-FE / 1993-1997																
PRIZM / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-713-0	81.00	TL:	56.00	PL:	56.00	CHK. DIA 10.00
	SWT10156-1	81.25		0.047		0.114				11-713-1	81.25	CH:	30.50	PD:	20.00	
	SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-713-2	81.50	DIST1:	-3.40	Head:	NONE	
	SWT10156-3	81.75		0.059		0.134				11-713-3	81.75	DIST2:		Skirt:	NONE	
	SWT10156-4	82.00		Oil:		3.000				X	2.850	NIFF-S	STEEL	NITRIDED	11-713-4	82.00
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
13011-16300							13101-16150-01									
13011-16340							94853591									
94854159																
94855500																
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 1998-2000																
PRIZM / 98-00	SWT10183-0	79.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-756-0	79.00	TL:	51.60	PL:	50.00	CHK. DIA 10.00
	SWT10183-1	79.25		0.047		0.104				11-756-1	79.25	CH:	29.90	PD:	20.00	
	SWT10183-2	79.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-756-2	79.50	DIST1:	-4.20	Head:	NONE	
	SWT10183-3	79.75		0.047		0.126				11-756-3	79.75	DIST2:	2.30	Skirt:	NONE	
	SWT10183-4	80.00		Oil:		3.000				X	2.550	NIFF-S	STEEL	CHROME	11-756-4	80.00
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
13011-0D010							13101-22020									
13011-22040							94856684									
13011-22150																
88972331																
94856686																
94859421																



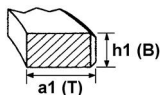
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 2001-2008											
PRIZM / 01-02 VIBE / 03-08	SWT10183-0	79.00	Top: 1.200 0.047	X	2.650 0.104	BF	STEEL	CHROME	11-777-0	79.00 TL: 51.70 PL: 50.00 79.25 CH: 29.80 PD: 20.01 79.50 DIST1: 2.40 Head: AH 79.75 DIST2: Skirt: MS 80.00 DIST3:	
	SWT10183-1	79.25							11-777-1		
	SWT10183-2	79.50	2nd: 1.200 0.047	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE	11-777-2		
	SWT10183-3	79.75							11-777-3		
	SWT10183-4	80.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-777-4		
REFERENCE #	TOP	2ND	OIL	REFERENCE #							
13011-0D010				13101-0D040							
13011-22040				13101-22140							
13011-22150				88969051							
88972331				88972330							
94856686				94859420							
94859421											
1.8L (110CID,1796CC),DOHC,4CYL, 80.500MM (3.169"), ECOTEC LUW / 2008-2015											
ASTRA / 08-08 CRUZE / 11-15 SONIC / 12-15	SWG10035-0	80.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWG10035-1	80.75									
	SWG10035-2	81.00	2nd: 1.200 0.047	X	3.000 0.118	T1	CAST IRON	PHOSPHATE			
	SWG10035-3	81.25									
SWG10035-4	81.50	Oil: 2.000 0.079	X	3.000 0.118	NIFF-H	STEEL	CHROME				
REFERENCE #	TOP	2ND	OIL								
93332835											
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), 2ZZ-FE / 2003-2006											
VIBE / 03-06	SWT10196-0	82.00	Top: 1.200 0.047	X	2.850 0.112	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWT10196-1	82.25									
	SWT10196-2	82.50	2nd: 1.200 0.047	X	3.050 0.120	TUC	CAST IRON	PHOSPHATE			
	SWT10196-3	82.75									
SWT10196-4	83.00	Oil: 3.000 0.118	X	3.200 0.126	NIFF-S	STEEL	CHROME				
REFERENCE #	TOP	2ND	OIL								
13011-88601											
88969557											
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), LAY(2ZR-FE) / 2009-2010											
VIBE / 09-10	SWT10232-0	80.50	Top: 1.000 0.039	X	2.900 0.114	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWT10232-1	80.75									
	SWT10232-2	81.00	2nd: 1.000 0.039	X	2.500 0.098	TUC	STEEL	PHOSPHATE			
	SWT10232-3	81.25									
SWT10232-4	81.50	Oil: 1.500 0.059	X	1.950 0.077	NIFF-H	STEEL	CHROME				
REFERENCE #	TOP	2ND	OIL								
13011-0T010											
13011-37110											
19185554											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (110CID,1809CC),DOHC,4CYL, 80.000MM (3.150"), 4XF1 / 1992-1993																
STORM / 92-93	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10149-1	80.25		0.047		0.122										
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWI10149-3	80.75		0.047		0.130										
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME							
		0.118		0.098												
	REFERENCE #		TOP		2ND		OIL									
	8-94331-660-0															
	8-94342-124-0															
	8-94370-434-0															
	8-97042-171-0															
	8-97402-171-0															
	94331660															
	94342124															
	94370434															
1.8L (111CID,1817CC),OHV,4CYL, 84.000MM (3.307"), 4FB1 / 1981-1986																
CHEVETTE / 81-86 EL CAMINO / 83-84	SDI10086-0	84.00	Top:	2.500	X	3.250	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDI10086-1	84.25		0.098		0.128										
	SDI10086-2	84.50	2nd:	2.000	X	3.500	T1	CAST IRON	CHROME							
	SDI10086-3	84.75		0.079		0.138										
	SDI10086-4	85.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED							
		0.157		0.171												
	REFERENCE #		TOP		2ND		OIL									
	8-94224-221-0															
	94224221															
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1972-1975																
LUV / 72-75	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-010-0	84.00					
	SWI10056-1	84.25		0.079		0.150										
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-010-1	84.25					
	SWI10056-3	84.75		0.079		0.157										
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-010-2	84.50					
		0.157		0.150												
	REFERENCE #		TOP		2ND		OIL		REFERENCE #							
	8-94216-640-0															
	94216641															
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1976-1979																
LUV / 76-79	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-011-0	84.00					
	SWI10056-1	84.25		0.079		0.150										
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-011-1	84.25					
	SWI10056-3	84.75		0.079		0.157										
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-011-2	84.50					
		0.157		0.150												
	REFERENCE #		TOP		2ND		OIL		REFERENCE #							
	8-94216-640-0															
	94216641															



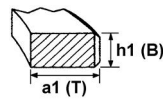
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1980-1980																	
LUV / 80-80	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	11-012-0	84.00	TL:	80.00	PL:	66.00	CHK. DIA 15.00	
	SWI10056-1	84.25		0.079						0.150	11-012-1	84.25	CH:	37.00	PD:		22.00
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	11-012-2	84.50	DIST1:	-0.80	Head:	NONE		
	SWI10056-3	84.75		0.079						0.157	11-012-3	84.75	DIST2:		Skirt:		NONE
	SWI10056-4	85.00		Oil:						4.000	X	3.800	NIFF-S	STEEL	CHROME		11-012-4
REFERENCE # 8-94216-640-0 94216641	TOP	2ND	OIL	REFERENCE # 8-94215-088-0													
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1981-1982																	
LUV / 81-82	SWI10098-0	84.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-013-0	84.00						
	SWI10098-1	84.25		0.059						0.138	DISC-11-013-1	84.25					
	SWI10098-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-013-2	84.50						
	SWI10098-3	84.75		0.059						0.150	DISC-11-013-3	84.75					
	SWI10098-4	85.00		Oil:						4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-013-4	85.00
REFERENCE # 8-94244-404-0	TOP	2ND	OIL	REFERENCE # 8-94238-475-0													
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1982-1982																	
S-15 PICKUP / 82-82	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
SWI10056-1	84.25	0.079		0.150													
SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE									
SWI10056-3	84.75		0.079						0.157								
SWI10056-4	85.00		Oil:						4.000							X	3.800
REFERENCE # 8-94216-640-0 94216641	TOP	2ND	OIL														
1.9L (116CID,1901CC),DOHC,4CYL, 82.000MM (3.228"), SATURN I4 LLO / 1991-1994																	
SC / 91-92	SWG10020-0	82.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
SC2 / 93-94	SWG10020-1	82.25		0.059												0.120	
SL2 / 91-94	SWG10020-2	82.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE								
SW2 / 93-94	SWG10020-3	82.75		0.059												0.138	
SWG10020-4	83.00	Oil:		3.000												X	3.200
REFERENCE # 21006715 21006721	TOP	2ND	OIL														



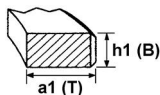
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.9L (116CID,1901CC),DOHC,4CYL, 82.000MM (3.228"), SATURN I4 LL0 / 1995-1998																
SC2 / 95-98	SWG10021-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL2 / 95-98	SWG10021-1	82.25		0.047		0.112										
SW2 / 95-98	SWG10021-2	82.50		2nd:	1.500	X	3.500	TUC	CAST IRON		PHOSPHATE					
	SWG10021-3	82.75	0.059			0.138										
	SWG10021-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
	SWG10021-4	83.00		0.118		0.126										
	REFERENCE # 21007180		TOP	2ND	OIL											
1.9L (116CID,1901CC),SOHC,4CYL, 82.000MM (3.228"), SATURN I4 L24 / 1995-1998																
SC1 / 95-98	SWG10021-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL / 95-98	SWG10021-1	82.25		0.047		0.112										
SL1 / 95-98	SWG10021-2	82.50		2nd:	1.500	X	3.500	TUC	CAST IRON		PHOSPHATE					
SW1 / 95-98	SWG10021-3	82.75	0.059			0.138										
		SWG10021-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL		CHROME					
	SWG10021-4	83.00		0.118		0.126										
	REFERENCE # 21007180		TOP	2ND	OIL											
1.9L (116CID,1901CC),SOHC,4CYL, 82.000MM (3.228"), SATURN I4 LK0 / 1991-1994																
SC1 / 93-94	SWG10020-0	82.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL / 91-94	SWG10020-1	82.25		0.059		0.120										
SL1 / 91-94	SWG10020-2	82.50		2nd:	1.500	X	3.500	TUC	CAST IRON		PHOSPHATE					
SW1 / 93-94	SWG10020-3	82.75	0.059			0.138										
		SWG10020-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL		CHROME					
	SWG10020-4	83.00		0.118		0.126										
	REFERENCE # 21006715 21006721		TOP	2ND	OIL											
1.9L (119CID,1949CC),SOHC,4CYL, 87.000MM (3.425"), G200Z / 1983-1985																
S-10 BLAZER / 83-84	SWI10096-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-016-0	87.00	TL:	80.00	PL:	77.00	CHK. DIA 10.00
S-10 PICKUP / 83-85	SWI10096-1	87.25		0.059		0.138				11-016-1	87.25	CH:	37.00	PD:	22.00	
S-15 JIMMY / 83-84	SWI10096-2	87.50		2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-016-2	87.50	DIST1:		Head:	
S-15 PICKUP / 83-85	SWI10096-3	87.75	0.059			0.150				11-016-3	87.75	DIST2:		Skirt:	NONE	
		SWI10096-4	88.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-016-4	88.00	DIST3:			
	SWI10096-4	88.00		0.157		0.130										
	REFERENCE # 8-94438-086-0 94438086		TOP	2ND	OIL				REFERENCE # 8-94237-469-2 94237469							



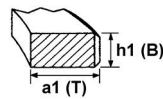
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.0L (121CID,1983CC),DOHC,4CYL, 84.000MM (3.307"), G20K / 1999-2002										
TRACKER / 99-02	SWS20178-0	84.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWS20178-1	84.25	0.047		0.114					
	SWS20178-2	84.50	2nd: 1.500	X	3.550	TUC	CAST IRON	CHROME		
	SWS20178-3	84.75	0.059		0.140					
	SWS20178-4	85.00	Oil: 2.500	X	2.850	NIFF-S	STEEL	NITRIDED		
	REFERENCE # 12140-86FA0 91174392		TOP		2ND			OIL		
2.0L (121CID,1983CC),SOHC,4CYL, 86.000MM (3.386") / 1987-1994										
FIRENZA / 87-88	SWG10010-0	86.00	Top: 1.500	X	3.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
LeMans / 89-90	SWG10010-1	86.25	0.059		0.130					
SKYHAWK / 87-88	SWG10010-2	86.50	2nd: 1.500	X	3.600	TUC	CAST IRON	PHOSPHATE		
SUNBIRD / 87-94	SWG10010-3	86.75	0.059		0.142					
	SWG10010-4	87.00	Oil: 3.000	X	3.050	NIFF-S	STEEL	NITRIDED		
	REFERENCE # 52273305 52273308		TOP		2ND			OIL		
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC LHU,ECOTEC LNF,ECOTEC LTG / 2007-2016 TURBO										
ATS / 13-15	SWG10032-0	86.00	Top: 1.200	X	3.100	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
COBALT / 08-10	SWG10032-1	86.25	0.047		0.122					
HHR / 08-10	SWG10032-2	86.50	2nd: 1.500	X	3.500	TUC	CAST IRON	PHOSPHATE		
MALIBU / 13-15	SWG10032-3	86.75	0.059		0.138					
REGAL / 11-15	SWG10032-4	87.00	Oil: 2.000	X	2.750	NIFF-H	STEEL	NITRIDED		
	REFERENCE # 19180831 89018107		TOP		2ND			OIL		
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC LSJ / 2005-2007										
COBALT / 05-07	SWG10019-0	86.00	Top: 1.200	X	2.900	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
ION / 05-07	SWG10019-1	86.25	0.047		0.114					
	SWG10019-2	86.50	2nd: 1.500	X	3.500	TUC	CAST IRON	PHOSPHATE		
	SWG10019-3	86.75	0.059		0.138					
	SWG10019-4	87.00	Oil: 2.500	X	2.850	NIFF-S	STEEL	CHROME		
	REFERENCE # 12140-85Z00 21018813 96180138		TOP		2ND			OIL		



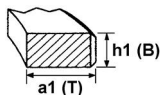
GM

GM

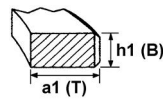
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.0L (122CID,1999CC),SOHC,4CYL, 86.000MM (3.386"), GM122 / 1987-1990										
GRAND AM / 87-89	SWG10010-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
SKYHAWK / 87-87	SWG10010-1	86.25		0.059		0.130				
SUNBIRD / 87-90	SWG10010-2	86.50		2nd:	1.500	X	3.600	TUC	CAST IRON	
	SWG10010-3	86.75	0.059			0.142				
	SWG10010-4	87.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED	
	AM Ring Available			0.118		0.120				
	REFERENCE #		TOP	2ND	OIL					
	52273305									
	52273308									
2.0L (122CID,1999CC),SOHC,4CYL, 89.000MM (3.504"), GM122 / 1987-1989										
BERETTA / 87-89	SWI10195-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CAVALIER / 87-89	SWI10195-1	89.25		0.059		0.159				
CORSICA / 87-89	SWI10195-2	89.50		2nd:	1.500	X	3.600	TUC	CAST IRON	
	SWI10195-3	89.75	0.059			0.142				
FIRENZA / 87-88	SWI10195-4	90.00	Oil:	3.000	X	2.950	NIFF-S	STEEL	CHROME	
SKYHAWK / 87-89				0.118		0.116				
	REFERENCE #		TOP	2ND	OIL					
	12363179									
	8-12363-179-0									
2.2L (134CID,2196CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC L61 / 2000-2011										
ALERO / 02-04	SWG10019-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CAVALIER / 02-05	SWG10019-1	86.25		0.047		0.114				
COBALT / 05-08	SWG10019-2	86.50		2nd:	1.500	X	3.500	TUC	CAST IRON	
	SWG10019-3	86.75	0.059			0.138				
G5 / 07-08	SWG10019-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	
GRAND AM / 02-04				0.098		0.112				
HHR / 06-11	REFERENCE #		TOP	2ND	OIL					
ION / 03-07	12140-85Z00									
L100 / 01-02	21018813									
L200 / 01-02	96180138									
L300 / 04-04										
LS / 00-00										
LS1 / 00-00										
LW1 / 00-00										
LW200 / 01-02										
MALIBU / 04-08										
SUNFIRE / 02-05										
2.2L (134CID,2196CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC L61 / 2002-2007										
VUE / 02-07	SWG10016-0 4	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG10016-1 4	86.25		0.047		0.114				
	SWG10016-2 4	86.50		2nd:	1.500	X	3.500	TUC	CAST IRON	
	SWG10016-3 4	86.75	0.059			0.138				
	SWG10016-4 4	87.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED	
				0.118		0.120				
	REFERENCE #		TOP	2ND	OIL					
	9118853									



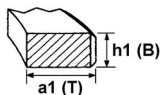
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.2L (134CID,2197CC),OHV,4CYL, 89.000MM (3.504"), GM122 2.2L / 1990-2003										
BERETTA / 90-96	SWI10195-0	89.00	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CAVALIER / 90-02	SWI10195-1	89.25	0.059		0.159					
CENTURY / 93-96	SWI10195-2	89.50	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE		
CIERA / 96-96	SWI10195-3	89.75	0.059		0.142					
CORSICA / 90-96	SWI10195-4	90.00	3.000	X	2.950	NIFF-S	STEEL	CHROME		
Cutlass CIERA / 93-95			0.118		0.116					
S-10 PICKUP / 94-03	REFERENCE #									
SONOMA / 94-02	12363179									
SUNFIRE / 95-02	8-12363-179-0									
		TOP 2ND OIL								
2.2L (134CID,2201CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC LAP / 2009-2010										
COBALT / 09-10	SWG10032-0	86.00	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
G5 / 09-09	SWG10032-1	86.25	0.047		0.122					
	SWG10032-2	86.50	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE		
	SWG10032-3	86.75	0.059		0.138					
	SWG10032-4	87.00	2.000	X	2.750	NIFF-H	STEEL	NITRIDED		
			0.079		0.108					
	REFERENCE #									
	19180831									
	89018107									
		TOP 2ND OIL								
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223 / 1984-1985 DIESEL										
S-10 BLAZER / 84-84	SJI10089-0	88.00	2.500	X	4.000	BF	DUCTILE IRON	CHROME	DISC-11-014-0	88.00
S-10 PICKUP / 84-85	SJI10089-1	88.25	0.098		0.157				DISC-11-014-1	88.25
S-15 PICKUP / 84-85	SJI10089-2	88.50	2.000	X	4.000	TUC	CAST IRON	CHROME	DISC-11-014-2	88.50
	SJI10089-3	88.75	0.079		0.157				DISC-11-014-3	88.75
	SJI10089-4	89.00	4.500	X	4.700	E-BC3	CAST IRON	CHROME	DISC-11-014-4	89.00
			0.177		0.185					
	REFERENCE #								REFERENCE #	
	8-94100-355-0								94250729	
	94250730									
		TOP 2ND OIL								
2.3L (138CID,2254CC),DOHC,4CYL, 92.000MM (3.622"), QUAD-4 LG0 / 1988-1995										
ACHIEVA / 92-95	SWG10014-0	92.00	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
BERETTA / 90-94	SWG10014-1	92.25	0.059		0.130					
CAVALIER / 95-95	SWG10014-2	92.50	1.500	X	3.700	T1-RB	CAST IRON	PHOSPHATE		
Cutlass Calais / 88-90	SWG10014-3	92.75	0.059		0.146					
Cutlass Supreme / 90-91	SWG10014-4	93.00	3.000	X	3.050	NIFF-S	STEEL	NITRIDED		
GRAND AM / 88-95	AM Ring Available		0.118		0.120					
GRAND PRIX / 90-91	REFERENCE #									
SKYLARK / 88-94	22548439									
SUNFIRE / 95-95										
		TOP 2ND OIL								



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.4L (145CID,2384CC),DOHC,4CYL, 88.000MM (3.465"), ECOTEC 2.4 LEA / 2012-2015													
EQUINOX / 12-15	SWG10048-0	88.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
REGAL / 12-15	SWG10048-1	88.25	0.047		0.114								
TERRAIN / 12-15	SWG10048-2	88.50	2nd: 1.500	X	4.000	TUC	CAST IRON	CHROME					
TERRAIN DENALI / 13-15	SWG10048-3	88.75	0.059		0.157								
	SWG10048-4	89.00	Oil: 2.000	X	2.450	NIFF-H	STEEL	CHROME					
	REFERENCE # 12659419		TOP		2ND		OIL						
2.4L (146CID,2392CC),DOHC,4CYL, 90.000MM (3.543"), QUAD-4 LD9 / 1996-2002													
ACHIEVA / 97-98	SWG10022-0	90.00	Top: 1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
ALERO / 99-01	SWG10022-1	90.25	0.047		0.130								
CAVALIER / 96-02	SWG10022-2	90.50	2nd: 1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE					
GRAND AM / 96-01	SWG10022-3	90.75	0.059		0.150								
MALIBU / 97-99	SWG10022-4	91.00	Oil: 3.000	X	3.250	NIFF-S	STEEL	CHROME					
SKYLARK / 96-97			0.118		0.128								
SUNFIRE / 96-02	REFERENCE # 24575965		TOP		2ND		OIL						
2.4L (147CID,2401CC),DOHC,4CYL, 88.500MM (3.484"), LAX(2AZ-FE) / 2009-2010													
VIBE / 09-10	SWT10182-0	88.50	Top: 1.200	X	2.700	BF	STEEL	CHROME	11-792-0	88.50	TL: 55.80	PL: 56.00	CHK.
	SWT10182-1	88.75	0.047		0.106				11-792-1	88.75	CH: 33.70	PD: 22.00	DIA
	SWT10182-2	89.00	2nd: 1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-792-2	89.00	DIST1: -6.40	Head: AH	4.00
	SWT10182-3	89.25	0.047		0.126				11-792-3	89.25	DIST2:	Skirt: MS	
	SWT10182-4	89.50	Oil: 2.000	X	2.450	NIFF-H	STEEL	NITRIDED	11-792-4	89.50	DIST3:		
	0.079		0.096										
	REFERENCE # 13011-23100		TOP		2ND		OIL		REFERENCE # 13211-28030-A0				
	13011-28102								13211-28031-A0				
2.5L (150CID,2457CC),DOHC,4CYL, 88.000MM (3.465"), ECOTEC 2.5 LKW / 2014-2016													
CANYON / 15-16	SWG10048-0	88.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
IMPALA / 14-15	SWG10048-1	88.25	0.047		0.114								
MALIBU LS / 14-15	SWG10048-2	88.50	2nd: 1.500	X	4.000	TUC	CAST IRON	CHROME					
	SWG10048-3	88.75	0.059		0.157								
	SWG10048-4	89.00	Oil: 2.000	X	2.450	NIFF-H	STEEL	CHROME					
	0.079		0.096										
	REFERENCE # 12659419		TOP		2ND		OIL						



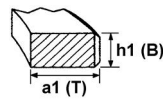
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.5L (152CID,2494CC),DOHC,6CYL, 84.000MM (3.307"), H25A / 2001-2001										
TRACKER / 01-01	SWS20207-0	84.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWS20207-1	84.25	0.047		0.114					
	SWS20207-2	84.50	2nd: 1.500	X	3.550	TUC	CAST IRON	CHROME		
	SWS20207-3	84.75	0.059		0.140					
	SWS20207-4	85.00	Oil: 2.500	X	2.850	NIFF-S	STEEL	NITRIDED		
	REFERENCE # 12140-86FA0		TOP		2ND			OIL		
2.8L (173CID,2827CC),OHV,6CYL, 89.000MM (3.504"), GM 60 L44 / 1984-1993										
6000 / 84-86	SWI10154-0	89.00	Top: 1.500	X	4.050	BF	CAST IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CAMARO / 85-89	SWI10154-1	89.25	0.059		0.159					
CAVALIER / 85-86	SWI10154-2	89.50	2nd: 2.000	X	4.050	T1-RC	CAST IRON	PHOSPHATE		
CELEBRITY / 85-86	SWI10154-3	89.75	0.079		0.159					
CENTURY / 86-86	SWI10154-4	90.00	Oil: 4.760	X	3.900	NIFF-S	STEEL	CHROME		
CIMARRON / 85-86	REFERENCE #		TOP		2ND			OIL		
CITATION II / 85-85	14059051									
Cutlass CIERA / 86-86	14089059									
FIERO / 85-88	8-14089-059-0									
FIREBIRD / 84-89										
FIRENZA / 85-86										
S-10 BLAZER / 86-89										
S-10 PICKUP / 86-93										
S-15 JIMMY / 86-89										
S-15 PICKUP / 86-90										
SKYLARK / 85-85										
SONOMA / 91-93										
2.8L (173CID,2835CC),OHV,6CYL, 89.000MM (3.504"), GM 60 G-II / 1987-1994										
6000 / 87-89	SWI10155-0	89.00	Top: 1.500	X	3.700	T1	CAST IRON	PHOSPHATE		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
BERETTA / 87-88	SWI10155-1	89.25	0.059		0.146					
CAVALIER / 87-94	SWI10155-2	89.50	2nd: 1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE		
CELEBRITY / 87-89	SWI10155-3	89.75	0.059		0.142					
CENTURY / 87-89	SWI10155-4	90.00	Oil: 4.000	X	3.200	NIFF-S	STEEL	CHROME		
CIMARRON / 87-88	REFERENCE #		TOP		2ND			OIL		
CORSICA / 87-88	10181330									
Cutlass CIERA / 87-89	8-10181-330-0									
Cutlass CRUISER / 87-89	F6DZ 6148 RA									
Cutlass Supreme / 88-89	F6DZ 6148 RA*									
FIRENZA / 87-87	ZZCA-11-100									
REGAL / 88-89										



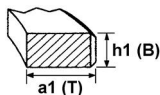
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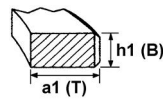
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.8L (173CID,2835CC),OHV,6CYL, 89.000MM (3.504"), GM 60 LE2 / 1981-1985										
6000 / 82-84	SWL03235-0	89.00	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CELEBRITY / 82-84	SWL03235-1	89.25		0.059	0.128					
CITATION / 81-83	SWL03235-2	89.50	2nd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	
CITATION II / 84-84	SWL03235-3	89.75		0.079	0.159					
FIREBIRD / 82-84	SWL03235-4	90.00	Oil:	4.760	X	3.850	NIFF-S	STEEL	CHROME	
OMEGA / 81-83				0.187		0.152				
S-10 BLAZER / 83-85	REFERENCE #		TOP	2ND		OIL				
S-10 PICKUP / 82-85	14034969									
S-15 JIMMY / 83-85										
S-15 PICKUP / 82-85										
SKYLARK / 82-84										
2.8L (173CID,2835CC),OHV,6CYL, 89.000MM (3.504"), GM 60 LH7 / 1981-1984										
CITATION / 81-83	SWI10154-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
Cutlass CIERA / 82-82	SWI10154-1	89.25		0.059	0.159					
OMEGA / 81-83	SWI10154-2	89.50	2nd:	2.000	X	4.050	T1-RC	CAST IRON	PHOSPHATE	
PHOENIX / 81-84	SWI10154-3	89.75		0.079	0.159					
SKYLARK / 81-84	SWI10154-4	90.00	Oil:	4.760	X	3.900	NIFF-S	STEEL	CHROME	
				0.187		0.154				
	REFERENCE #		TOP	2ND		OIL				
	14059051									
	14089059									
	8-14089-059-0									
2.9L (178CID,2921CC),DOHC,4CYL, 95.500MM (3.760"), ATLAS LLV,Vortec 2900 LLV / 2007-2012										
CANYON / 07-12	SWG10037-0	95.50	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
COLORADO / 07-12	SWG10037-1	95.75		0.047	0.130					
	SWG10037-2	96.00	2nd:	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE	
	SWG10037-3	96.25		0.059	0.146					
	SWG10037-4	96.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	
				0.098		0.112				
	REFERENCE #		TOP	2ND		OIL				
	89018219									
3.0L (181CID,2962CC),DOHC,6CYL, 86.000MM (3.386"), ELLESMERE L81 / 1999-2005										
CATERA / 99-01	SWG10016-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
L300 / 01-05	SWG10016-1	86.25		0.047	0.114					
LS2 / 00-00	SWG10016-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	
LW200 / 00-00	SWG10016-3	86.75		0.059	0.138					
LW300 / 01-02	SWG10016-4	87.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED	
VUE / 02-03				0.118		0.120				
	REFERENCE #		TOP	2ND		OIL				
	88 22 413									
	9118853									



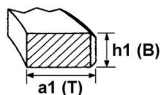
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
3.0L (181CID,2962CC),SOHC,6CYL, 86.00MM (3.386"), ELLESMERE L81 / 1997-1998											
CATERA / 97-98	SWC10001-0	86.00	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWC10001-1	86.25	0.059		0.136						
	SWC10001-2	86.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE			
	SWC10001-3	86.75	0.059		0.157						
	SWC10001-4	87.00	3.000	X	3.000	NIFF-S	STEEL	CHROME			
	REFERENCE #		TOP	2ND	OIL						
	4897027AA										
	90509740										
3.1L (191CID,3130CC),OHV,6CYL, 89.00MM (3.504"), CPC / 1990-1992											
CAMARO / 90-92	SWI10155-0	89.00	1.500	X	3.700	T1	CAST IRON	PHOSPHATE		DISC-11-569-0	89.00
FIREBIRD / 90-92	SWI10155-1	89.25	0.059		0.146				DISC-11-569-1	89.25	
	SWI10155-2	89.50	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE	DISC-11-569-2	89.50	
	SWI10155-3	89.75	0.059		0.142				DISC-11-569-3	89.75	
	SWI10155-4	90.00	4.000	X	3.200	NIFF-S	STEEL	CHROME	DISC-11-569-4	90.00	
	REFERENCE #		TOP	2ND	OIL				REFERENCE #		
	10181330								10070145		
	8-10181-330-0								8-10070-145-0		
	F6DZ 6148 RA										
	F6DZ 6148 RA*										
	ZZCA-11-100										
3.1L (191CID,3130CC),OHV,6CYL, 89.00MM (3.504"), GM 60 L82,GM 60 LH0 / 1989-1995											
ACHIEVA / 94-95	SWI10155-0	89.00	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
BERETTA / 89-95	SWI10155-1	89.25	0.059		0.146						
CENTURY / 94-95	SWI10155-2	89.50	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE			
CORSICA / 89-95	SWI10155-3	89.75	0.059		0.142						
Cutlass Supreme / 89-95	SWI10155-4	90.00	4.000	X	3.200	NIFF-S	STEEL	CHROME			
GRAND AM / 94-95			0.157		0.126						
	REFERENCE #		TOP	2ND	OIL						
GRAND PRIX / 89-95	10181330										
LUMINA / 90-95	8-10181-330-0										
MONTE CARLO / 95-95	F6DZ 6148 RA										
REGAL / 89-95	F6DZ 6148 RA*										
SKYLARK / 94-95											
SUNBIRD / 91-94	ZZCA-11-100										
3.1L (191CID,3137CC),OHV,6CYL, 89.00MM (3.504"), GM 60 L82,GM 60 LG8 / 1996-2005											
ACHIEVA / 96-98	SWG10004-0	89.00	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
BERETTA / 96-96	SWG10004-1	89.25	0.047		0.138						
CENTURY / 96-05	SWG10004-2	89.50	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE			
CORSICA / 96-96	SWG10004-3	89.75	0.059		0.142						
CUTLASS / 97-99	SWG10004-4	90.00	3.000	X	2.850	NIFF-S	STEEL	NITRIDED			
Cutlass Supreme / 96-97	AM Ring Available		0.118		0.112						
	REFERENCE #		TOP	2ND	OIL						
GRAND AM / 96-98	12481987										
GRAND PRIX / 96-03	12538683										
LUMINA / 96-01	XW4Z 6148 CA										
MALIBU / 97-03											
MONTE CARLO / 96-99											
REGAL / 96-96											
SKYLARK / 96-98											



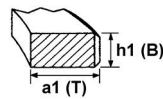
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.1L (191CID,3137CC),OHV,6CYL, 89.000MM (3.504"), GM 60 LG6 / 1990-1995										
APV / 90-93	SWI10155-0	89.00	Top:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
LUMINA APV / 90-95	SWI10155-1	89.25		0.059	0.146					
SILHOUETTE / 90-94	SWI10155-2	89.50	2nd:	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE	
TRANS SPORT / 90-95	SWI10155-3	89.75		0.059	0.142					
	SWI10155-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	
				0.157		0.126				
	REFERENCE #		TOP	2ND	OIL					
	10181330									
	8-10181-330-0									
	F6DZ 6148 RA									
	F6DZ 6148 RA*									
	ZZCA-11-100									
3.3L (204CID,3343CC),OHV,6CYL, 94.000MM (3.701"), BUICK 3300 / 1989-1993										
ACHIEVA / 92-93	SWG10012-0	94.00	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CENTURY / 89-93	SWG10012-1	94.25		0.059	0.138					
Cutlass Calais / 89-91	SWG10012-2	94.50	2nd:	1.500	X	3.700	T1-RB	CAST IRON	PHOSPHATE	
Cutlass CIERA / 89-93	SWG10012-3	94.75		0.059	0.146					
Cutlass CRUISER / 89-93	SWG10012-4	95.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	
GRAND AM / 93-93				0.118		0.126				
SKYLARK / 89-93	REFERENCE #		TOP	2ND	OIL					
	24501065									
	24501330									
3.4L (204CID,3350CC),OHV,6CYL, 92.000MM (3.622"), GM 60 LNJ / 2005-2008										
EQUINOX / 05-08	SWG10009-0	92.00	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
TORRENT / 06-08	SWG10009-1	92.25		0.047	0.130					
	SWG10009-2	92.50	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE	
	SWG10009-3	92.75		0.059	0.150					
	SWG10009-4	93.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED	
				0.118		0.100				
	REFERENCE #		TOP	2ND	OIL					
	12481322									
3.4L (207CID,3392CC),DOHC,6CYL, 92.000MM (3.622"), GM 60 LQ1 / 1991-1997										
Cutlass Supreme / 91-96	SWG80011-0	92.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
GRAND PRIX / 91-96	SWG80011-1	92.25		0.059	0.130					
LUMINA / 91-97	SWG80011-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE	
MONTE CARLO / 95-97	SWG80011-3	92.75		0.059	0.157					
	SWG80011-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	
				0.157		0.128				
	REFERENCE #		TOP	2ND	OIL					
	10181263									
	12520260									
	12536891									
	12538691									



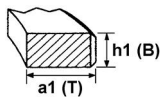
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 L32 / 1993-1995														
CAMARO / 93-95 FIREBIRD / 93-95	SWG80011-0 SWG80011-1 SWG80011-2 SWG80011-3 SWG80011-4	92.00 92.25 92.50 92.75 93.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X X X	3.300 0.130 4.000 0.157 3.250 0.128	BF T1 NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE #	TOP	2ND	OIL											
10181263 12520260 12536891 12538691														
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 LA1 / 1996-1999														
ALERO / 99-99 GRAND AM / 99-99 LUMINA APV / 96-96 MONTANA / 99-99 SILHOUETTE / 96-99 TRANS SPORT / 96-98 VENTURE / 97-99	SWG10001-0 SWG10001-1 SWG10001-2 SWG10001-3 SWG10001-4	92.00 92.25 92.50 92.75 93.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X X X	3.300 0.130 3.700 0.146 3.650 0.144	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-887-0 11-887-1 11-887-2 11-887-3 11-887-4	92.00 92.25 92.50 92.75 93.00	TL: 50.60 CH: 30.60 DIST1: -5.50 DIST2: DIST3:	PL: 60.00 PD: 23.00 Head: NONE Skirt: MS	60.00 23.00 NONE MS	CHK. DIA 15.00
REFERENCE #	TOP	2ND	OIL											
12537866														
REFERENCE #														
24508727														
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 LA1 / 2000-2005														
ALERO / 00-04 AZTEK / 01-05 GRAND AM / 00-05 IMPALA / 00-05 MONTANA / 00-05 MONTE CARLO / 00-05 RENDEZVOUS / 02-05 SILHOUETTE / 00-04 VENTURE / 00-05	SWG10009-0 SWG10009-1 SWG10009-2 SWG10009-3 SWG10009-4 AM Ring Available	92.00 92.25 92.50 92.75 93.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X X X	3.300 0.130 3.800 0.150 2.550 0.100	BF T1-RB NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE #	TOP	2ND	OIL											
12481322														
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A3 / 2004-2007														
VUE / 04-07	SWH30438-0 SWH30438-1 SWH30438-2 SWH30438-3 SWH30438-4	89.00 89.25 89.50 89.75 90.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.800 0.110	X X X X X	3.050 0.120 3.400 0.134 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-836-0 11-836-1 11-836-2 11-836-3 11-836-4	89.00 89.25 89.50 89.75 90.00	TL: 51.50 CH: 30.00 DIST1: -1.20 DIST2: DIST3:	PL: 54.00 PD: 21.97 Head: NONE Skirt: MS	54.00 21.97 NONE MS	CHK. DIA 7.00
REFERENCE #	TOP	2ND	OIL											
13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01														
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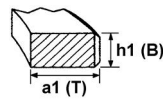
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
3.5L (213CID,3490CC),OHV,6CYL, 99.000MM (3.898"), High Value LZ4,High Value LZE / 2006-2011															
AURA / 07-08	SWG10049-0	99.00	Top: 1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
G6 / 07-09	SWG10049-1	99.25	0.047		0.130										
IMPALA / 07-11	SWG10049-2	99.50	2nd: 1.500	X	3.750	TUC	CAST IRON	PHOSPHATE							
MONTE CARLO / 06-07	SWG10049-3	99.75	0.059		0.148										
VUE / 08-10	SWG10049-4	100.00	Oil: 2.500	X	2.850	NIFF-S	STEEL	NITRIDED							
	REFERENCE #		TOP	2ND	OIL										
	89018067														
	89018068														
3.5L (213CID,3498CC),OHV,6CYL, 94.000MM (3.701"), High Value LX9 / 2004-2008															
G6 / 05-06	SWG10038-0	94.00	Top: 1.200	X	3.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
MALIBU / 04-08	SWG10038-1	94.25	0.047		0.130										
MALIBU MAXX / 04-06	SWG10038-2	94.50	2nd: 1.500	X	3.700	T1-RB	CAST IRON	PHOSPHATE							
MONTANA SV6 / 05-06	SWG10038-3	94.75	0.059		0.146										
RELAY / 05-06	SWG10038-4	95.00	Oil: 2.500	X	2.700	NIFF-H	STEEL	CHROME							
RENDEZVOUS / 06-07			TOP	2ND	OIL										
TERRAZA / 05-06	REFERENCE #														
UPLANDER / 05-06	12584525														
3.6L (217CID,3564CC),DOHC,6CYL, 94.000MM (3.701"), Alloytec LLT / 2008-2015															
ACADIA / 09-15	SWG10052-0	94.00	Top: 1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ACADIA DENALI / 11-15	SWG10052-1	94.25	0.047		0.130										
CAMARO / 10-11	SWG10052-2	94.50	2nd: 1.500	X	3.400	TUC	CAST IRON	PHOSPHATE							
CTS / 08-11	SWG10052-3	94.75	0.059		0.134										
ENLCLAVE / 09-11	SWG10052-4	95.00	Oil: 2.500	X	2.500	NIFF-H	STEEL	CHROME							
LaCrosse / 10-11			TOP	2ND	OIL										
TRAVERSE / 09-15	REFERENCE #														
	12616973														
3.6L (217CID,3564CC),DOHC,6CYL, 94.000MM (3.701"), Alloytec LY7 / 2004-2012															
ACADIA / 07-08	SWG10039-0	94.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-917-0	94.00	TL:	54.90	PL:	61.00	CHK.
AURA / 07-09	SWG10039-1	94.25	0.047		0.114				11-917-1	94.25	CH:	32.00	PD:	24.00	DIA
CTS / 04-09	SWG10039-2	94.50	2nd: 1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	11-917-2	94.50	DIST1:	-3.00	Head:	NONE	15.00
ENLCLAVE / 08-08	SWG10039-3	94.75	0.059		0.134				11-917-3	94.75	DIST2:		Skirt:	MS	
EQUINOX / 08-09	SWG10039-4	95.00	Oil: 2.500	X	2.500	NIFF-H	STEEL	CHROME	11-917-4	95.00	DIST3:				
G6 / 07-09			TOP	2ND	OIL				REFERENCE #						
G8 / 08-09	REFERENCE #								12590866						
LaCrosse / 05-08	12608615														
MALIBU / 09-12															
OUTLOOK / 07-10															
RENDEZVOUS / 04-06															
SRX / 04-09															
STS / 05-11															
TORRENT / 08-09															
VUE / 08-08															



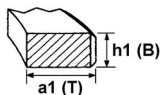
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.7L (223CID,3653CC),DOHC,5CYL, 95.500MM (3.760"), ATLAS LLR,Vortec 3700 LLR / 2007-2012										
CANYON / 07-12	SWG10036-0	95.50	1.200	X	3.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
COLORADO / 07-12	SWG10036-1	95.75	0.047		0.130					
H3 / 07-09	SWG10036-2	96.00	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE		
H3T / 09-09	SWG10036-3	96.25	0.059		0.146					
	SWG10036-4	96.50	2.500	X	2.850	NIFF-S	STEEL	CHROME		
	REFERENCE #		TOP		2ND			OIL		
	8-89018-219-0									
	89018219									
3.8L (229CID,3753CC),OHV,6CYL, 94.890MM (3.736"), BUICK V6 LD5 / 1980-1984										
CABALLERO / 80-84	SWG10007-0	94.89	1.984	X	3.450	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CAMARO / 80-81	SWG10007-1	95.14	0.078		0.136					
CAPRICE / 80-82	SWG10007-2	95.39	1.984	X	4.100	T1-RC	CAST IRON	PHOSPHATE		
EL CAMINO / 80-84	SWG10007-3	95.64	0.078		0.161					
IMPALA / 80-84	SWG10007-4	95.89	4.763	X	3.850	NIFF-S	STEEL	NITRIDED		
MALIBU / 80-82	AM Ring Available		0.188		0.152					
MONTE CARLO / 80-84	REFERENCE #		TOP		2ND			OIL		
	12518282									
	12818282									
3.8L (231CID,3785CC),OHV,6CYL, 96.500MM (3.799"), BUICK V6 L27 / 1993-1995										
BONNEVILLE / 93-94	SWG10006-0	96.50	1.200	X	3.500	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
EIGHTY EIGHT / 93-94	SWG10006-1	96.75	0.047		0.138					
LeSabre / 94-95	SWG10006-2	97.00	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE		
LUMINA APV / 94-95	SWG10006-3	97.25	0.059		0.150					
NINETY EIGHT / 93-94	SWG10006-4	97.50	3.000	X	2.850	NIFF-S	STEEL	NITRIDED		
PARK AVENUE / 94-94	AM Ring Available		0.118		0.112					
REGAL / 94-95	REFERENCE #		TOP		2ND			OIL		
SILHOUETTE / 94-95	24502947									
TRANS SPORT / 94-95										
3.8L (231CID,3785CC),OHV,6CYL, 96.520MM (3.800"), BUICK V6 L26 / 2005-2009										
LaCrosse / 05-09	SWG10003-0	96.52	1.200	X	3.500	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
LUCERNE / 06-08	SWG10003-1	96.77	0.047		0.138					
	SWG10003-2	97.02	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE		
	SWG10003-3	97.27	0.059		0.150					
	SWG10003-4	97.52	2.000	X	2.800	NIFF-H	STEEL	NITRIDED		
	AM Ring Available		0.079		0.110					
	REFERENCE #		TOP		2ND			OIL		
	12480825									
	12537410									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.8L (231CID,3791CC),OHV,6CYL, 96.500MM (3.799"), BUICK V6 L67 / 1994-1995																
BONNEVILLE / 94-95	SWG10006-0	96.50	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
EIGHTY EIGHT / 95-95	SWG10006-1	96.75		0.047		0.138										
NINETY EIGHT / 94-95	SWG10006-2	97.00	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE							
PARK AVENUE / 94-95	SWG10006-3	97.25		0.059		0.150										
RIVIERA / 95-95	SWG10006-4	97.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
	AM Ring Available	0.118		0.112												
	REFERENCE #	TOP	2ND	OIL												
	24502947															
3.8L (231CID,3791CC),OHV,6CYL, 96.520MM (3.800"), BUICK V6 L36,BUICK V6 L67 / 1995-2008																
BONNEVILLE / 95-03	SWG10003-0	96.52	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-888-0	96.52	TL:	53.30	PL:	65.50	CHK. DIA
CAMARO / 95-02	SWG10003-1	96.77		0.047		0.138				11-888-1	96.77	CH:	27.40	PD:	22.00	
EIGHTY EIGHT / 95-99	SWG10003-2	97.02	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE	11-888-2	97.02	DIST1:	-1.30	Head:	NONE	
FIREBIRD / 95-02	SWG10003-3	97.27		0.059		0.150				11-888-3	97.27	DIST2:		Skirt:	NONE	
GRAND PRIX / 97-08	SWG10003-4	97.52	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-888-4	97.52	DIST3:				
IMPALA / 00-05	AM Ring Available	0.079		0.110												
	REFERENCE #	TOP	2ND	OIL												
INTRIGUE / 98-99	12480825				REFERENCE #											
LeSabre / 96-05	12537410							12537408								
LSS / 96-99							12539085									
LUMINA / 98-99																
MONTE CARLO / 98-05																
NINETY EIGHT / 95-96																
PARK AVENUE / 95-05																
REGAL / 96-04																
REGENCY / 97-98																
RIVIERA / 96-99																
ROYALE / 95-95																
3.9L (237CID,3880CC),OHV,6CYL, 99.000MM (3.898"), High Value LGD,High Value LZ8,High Value LZ9 / 2006-2011																
G6 / 06-09	SWG10049-0	99.00	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
IMPALA / 07-11	SWG10049-1	99.25		0.047		0.130										
LUCERNE / 09-11	SWG10049-2	99.50	2nd:	1.500	X	3.750	TUC	CAST IRON	PHOSPHATE							
MALIBU / 07-07	SWG10049-3	99.75		0.059		0.148										
MALIBU MAXX / 07-07	SWG10049-4	100.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED							
MONTE CARLO / 06-06		0.098		0.112												
	REFERENCE #	TOP	2ND	OIL												
RELAY / 06-07	89018067															
TERRAZA / 06-07	89018068															
UPLANDER / 06-09																
4.0L (244CID,3995CC),DOHC,8CYL, 87.000MM (3.425"), Northstar L47 / 1995-1995																
AURORA / 95-95	SWG10017-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10017-1	87.25		0.059		0.122										
	SWG10017-2	87.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG10017-3	87.75		0.059		0.142										
	SWG10017-4	88.00	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
		0.118		0.122												
	REFERENCE #	TOP	2ND	OIL												
	3546717															



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
4.0L (244CID,3995CC),DOHC,8CYL, 87.000MM (3.425"), Northstar L47 / 1996-2003															
AURORA / 96-03	SWG10015-0	87.00	1.200	X	2.900	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10015-1	87.25	0.047		0.114										
	SWG10015-2	87.50	1.500	X	3.600	TUC	CAST IRON	CHROME							
	SWG10015-3	87.75	0.059		0.142										
	SWG10015-4	88.00	3.000	X	2.850	NIFF-S	STEEL	CHROME							
	AM Ring Available		0.118		0.112										
	REFERENCE #	TOP	2ND	OIL											
	12555219														
	12564802														
4.3L (262CID,4294CC),OHV,6CYL, 101.600MM (4.000"), Vortec 4300 L35,Vortec 4300 LF6,Vortec 4300 LU3 / 1995-2013															
ASTRO / 95-05	SWI10196-0	89.00	1.500	X	3.650	BF	STEEL	CHROME	11-827-0	89.00	TL:	66.00	PL:	69.70	CHK.
BLAZER / 95-05	SWI10196-1	89.25	0.059		0.144				11-827-1	89.25	CH:	39.40	PD:	23.56	DIA
BRAVADA / 96-01	SWI10196-2	89.50	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-827-2	89.50	DIST1:	-2.60	Head:	NONE	12.00
CHEVY Express / 96-02	SWI10196-3	89.75	0.059		0.165				11-827-3	89.75	DIST2:		Skirt:	NONE	
CHEVY VAN / 95-96	SWI10196-4	90.00	3.000	X	3.350	NIFF-S	STEEL	CHROME	11-827-4	90.00	DIST3:				
EXPRESS G1500 / 96-13			0.118		0.132										
JIMMY / 95-01	REFERENCE #	TOP	2ND	OIL											
PICKUP (Chev) / 96-98	12522848														
PICKUP (GMC) / 96-98	8-12522-848-0														
RALLY / 95-95															
S-10 PICKUP / 95-03															
SAFARI / 95-05															
SAVANA G1500 / 96-13															
SIERRA 1500 / 99-06															
SILVERADO 1500 / 99-06															
SONOMA / 95-02															
SPORTVAN / 95-95															
VANDURA / 95-95															
	REFERENCE #	REFERENCE #													
	12522850	12522850													
	88894280	88894280													



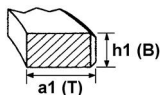
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.3L (262CID,4294CC),OHV,6CYL, 101.600MM (4.000"), Vortec 4300 LB4,Vortec 4300 LG3 / 1985-1995										
ASTRO / 86-94	SWF80017-0	101.60	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
BONNEVILLE / 86-86	SWF80017-1	101.85	0.078		0.195					
BRAVADA / 91-92	SWF80017-2	102.10	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE		
CABALLERO / 85-87	SWF80017-3	102.35	0.078		0.183					
CAPRICE / 85-93	SWF80017-4	102.60	4.763	X	4.600	NIFF-S	STEEL	CHROME		
CHEVY VAN / 85-95			0.188		0.181					
EL CAMINO / 85-87	REFERENCE #									
GRAND PRIX / 86-87	12507985									
IMPALA / 85-85	14059025									
JIMMY / 92-94	14089025									
MONTE CARLO / 85-88	88894219									
PARISIENNE / 85-86	C3AZ 6148 F									
PICKUP (Chev) / 88-94	F6DZ 6148 RA									
PICKUP (GMC) / 87-94										
RALLY / 85-94										
S-10 BLAZER / 92-93										
S-10 PICKUP / 88-94										
S-15 JIMMY / 88-91										
S-15 PICKUP / 88-90										
SAFARI / 86-94										
SONOMA / 91-94										
SPORTVAN / 88-94										
SYCLONE / 91-91										
TYPHOON / 92-93										
VANDURA / 87-94										
4.3L (265CID,4343CC),OHV,8CYL, 94.890MM (3.736"), LT1 4.3 L99 / 1994-1996										
CAPRICE / 94-96	SWG10007-0 8	94.89	1.984	X	3.450	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWG10007-1 8	95.14	0.078		0.136					
	SWG10007-2 8	95.39	1.984	X	4.100	T1-RC	CAST IRON	PHOSPHATE		
	SWG10007-3 8	95.64	0.078		0.161					
	SWG10007-4 8	95.89	4.763	X	3.850	NIFF-S	STEEL	NITRIDED		
			0.188		0.152					
	REFERENCE #									
	12518282									
4.5L (273CID,4474CC),OHV,8CYL, 92.000MM (3.622"), HT-4500 / 1988-1992										
ALLANTE / 89-92	SWG10002-0	92.00	1.500	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
DEVILLE / 88-90	SWG10002-1	92.25	0.059		0.150					
ELDORADO / 88-90	SWG10002-2	92.50	1.500	X	3.800	T1-RC	CAST IRON	PHOSPHATE		
FLEETWOOD / 88-90	SWG10002-3	92.75	0.059		0.150					
SEVILLE / 88-90	SWG10002-4	93.00	3.000	X	3.100	NIFF-S	STEEL	NITRIDED		
			0.118		0.122					
	REFERENCE #									
	1645491									



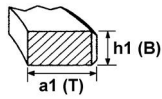
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
4.6L (281CID,4605CC),DOHC,8CYL, 93.000MM (3.661"), Northstar L37 / 1993-1995														
ALLANTE / 93-93 DEVILLE / 94-95 ELDORADO / 94-95 SEVILLE / 94-95	SWG10008-0 SWG10008-1 SWG10008-2 SWG10008-3 SWG10008-4 AM Ring Available	93.00 93.25 93.50 93.75 94.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	3.300 0.130 3.900 0.154 2.850 0.112	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	REFERENCE # 3543903 				
4.6L (281CID,4605CC),DOHC,8CYL, 93.000MM (3.661"), Northstar L37 / 1996-1999														
DEVILLE / 96-99 ELDORADO / 96-99 SEVILLE / 96-99	SWG10013-0 SWG10013-1 SWG10013-2 SWG10013-3 SWG10013-4 AM Ring Available	93.00 93.25 93.50 93.75 94.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	3.500 0.138 3.900 0.154 2.850 0.112	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED			Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	REFERENCE # 12555217 		
4.6L (281CID,4605CC),DOHC,8CYL, 93.000MM (3.661"), Northstar L37 / 2000-2004														
DEVILLE / 00-04 ELDORADO / 00-02 SEVILLE / 00-04	SWG10011-0 SWG10011-1 SWG10011-2 SWG10011-3 SWG10011-4 AM Ring Available	93.00 93.25 93.50 93.75 94.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.500 0.098	X X X	3.500 0.138 3.900 0.154 2.600 0.102	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	REFERENCE # 12564801 				
4.8L (294CID,4818CC),OHV,8CYL, 96.000MM (3.780"), Vortec 4800 L20 / 2010-2015														
CUTAWAY G3500 / 10-15 EXPRESS G2500 / 10-15 EXPRESS G3500 / 10-15 SAVANA G2500 / 10-15 SAVANA G3500 / 10-15 SIERRA 1500 / 10-13 SILVERADO 1500 / 10-13	SWG10005-0 SWG10005-1 SWG10005-2 SWG10005-3 SWG10005-4 AM Ring Available REFERENCE # 12456338 19208677 8-12456-338-0	96.00 96.25 96.50 96.75 97.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 3.000 0.118	X X X	3.300 0.130 4.000 0.157 3.200 0.126	BF T1-RB NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-920-0 11-920-1 11-920-2 11-920-3 11-920-4	96.00 96.25 96.50 96.75 97.00	TL: CH: DIST1: DIST2: DIST3:	PL: PD: Head: Skirt:	AH MS	CHK. DIA
REFERENCE # 19208675 														



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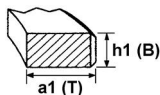
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
4.8L (294CID,4818CC),OHV,8CYL, 96.000MM (3.780"), Vortec 4800 LR4 / 1999-2003													
SIERRA 1500 / 99-03	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-900-0	96.00	TL: 64.80	PL: 63.50	CHK.
SILVERADO 1500 / 99-03	SWG10005-1	96.25	0.059		0.130				11-900-1	96.25	CH: 33.60	PD: 23.96	DIA
TAHOE / 00-03	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-900-2	96.50	DIST1: -1.80	Head: NONE	25.00
YUKON / 00-03	SWG10005-3	96.75	0.059		0.157				11-900-3	96.75	DIST2:	Skirt: MS	
	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-900-4	97.00	DIST3:		
	AM Ring Available		0.118		0.126								
	REFERENCE #	TOP	2ND		OIL		REFERENCE #						
	12456338						88894404						
	19208677						89017579						
	8-12456-338-0												
4.8L (294CID,4818CC),OHV,8CYL, 96.000MM (3.780"), Vortec 4800 LY2 / 1999-2010													
CUTAWAY G3500 / 05-09	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL: 59.30	PL: 65.00	CHK.
EXPRESS G2500 / 05-09	SWG10005-1	96.25	0.059		0.130				11-899-1	96.25	CH: 33.60	PD: 23.96	DIA
EXPRESS G3500 / 05-09	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:	Head: AH	16.00
SAVANA G2500 / 05-09	SWG10005-3	96.75	0.059		0.157				11-899-3	96.75	DIST2:	Skirt: MS	
SAVANA G3500 / 05-09	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:		
	AM Ring Available		0.118		0.126								
	REFERENCE #	TOP	2ND		OIL		REFERENCE #						
	12456338						89017577						
	19208677												
	8-12456-338-0												
	TAHOE / 00-10												
	YUKON / 00-09												
4.9L (302CID,4949CC),OHV,8CYL, 92.000MM (3.622"), HT-4900 L26 / 1993-1995													
DEVILLE / 94-95	SWG10002-0	92.00	1.500	X	3.800	BF	CAST IRON	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>				
Sixty Special / 93-93	SWG10002-1	92.25	0.059		0.150								
	SWG10002-2	92.50	1.500	X	3.800	T1-RC	CAST IRON	PHOSPHATE					
	SWG10002-3	92.75	0.059		0.150								
	SWG10002-4	93.00	3.000	X	3.100	NIFF-S	STEEL	NITRIDED					
	REFERENCE #	TOP	2ND		OIL								
	1645491												



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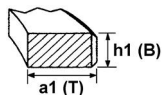
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.0L (305CID,4998CC),OHV,8CYL, 94.890MM (3.736"), Chevy S.B. 305,LG4 / 1977-2002										
BLAZER / 77-87	SWG10007-0 8	94.89	1.984	X	3.450	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>	
BONNEVILLE / 83-86	SWG10007-1 8	95.14	0.078		0.136					
BROUGHAM / 92-92	SWG10007-2 8	95.39	1.984	X	4.100	T1-RC	CAST IRON	PHOSPHATE		
CABALLERO / 78-87	SWG10007-3 8	95.64	0.078		0.161					
CAMARO / 80-92	SWG10007-4 8	95.89	4.763	X	3.850	NIFF-S	STEEL	NITRIDED		
CAPRICE / 80-93			0.188		0.152					
CENTURY / 80-80	REFERENCE #	TOP	2ND	OIL						
CHEVY Express / 97-02	12518282									
CHEVY VAN / 77-95										
CORVETTE / 80-80										
Custom CRUISER / 91-92										
CUTLASS / 80-80										
EL CAMINO / 80-87										
EXPRESS G1500 / 96-02										
EXPRESS G2500 / 96-02										
FIREBIRD / 80-92										
GRAND AM / 80-80										
GRAND LeMans / 80-80										
GRAND PRIX / 83-87										
IMPALA / 80-85										
JIMMY / 77-87										
LeMans / 80-80										
MALIBU / 80-83										
MONTE CARLO / 80-88										
PARISIENNE / 83-86										
PICKUP (Chev) / 77-99										
PICKUP (GMC) / 77-99										
RALLY / 79-95										
REGAL / 80-80										
ROADMASTER / 91-91										
SAVANA G1500 / 96-02										
SAVANA G2500 / 96-02										
SPORTVAN / 81-95										
SUBURBAN (CH) / 77-87										
SUBURBAN (GM) / 77-87										
VANDURA / 77-95										



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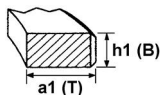
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
5.0L (307CID,5031CC),OHV,8CYL, 96.500MM (3.799"), Oldsmobile V8 307 / 1980-1991															
BONNEVILLE / 81-81	SWG10023-0	96.50	1.984	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
BROUGHAM / 87-91	SWG10023-1	96.75	0.078		0.138										
CAPRICE / 85-90	SWG10023-2	97.00	1.984	X	4.400	T1-RB	CAST IRON	PHOSPHATE							
CATALINA / 81-81	SWG10023-3	97.25	0.078		0.173										
Custom CRUISER / 80-90	SWG10023-4	97.50	4.763	X	4.050	NIFF-S	STEEL	CHROME							
CUTLASS / 85-85	REFERENCE #	TOP	2ND	OIL											
DELTA 88 / 80-85	22529562														
ELECTRA / 81-89															
FLEETWOOD / 86-86															
LeSabre / 81-89															
NINETY EIGHT / 80-84															
REGAL / 86-87															
RIVIERA / 80-84															
TORONADO / 80-84															
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 1999-2003															
AVALANCHE / 02-03	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-829-0	96.00	TL:	64.80	PL:	72.00	CHK.
ESCALADE / 02-03	SWG10005-1	96.25	0.059		0.130				11-829-1	96.25	CH:	33.70	PD:	24.00	DIA
EXPRESS G1500 / 03-03	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-829-2	96.50	DIST1:	-1.70	Head:	NONE	16.00
SAVANA G1500 / 03-03	SWG10005-3	96.75	0.059		0.157				11-829-3	96.75	DIST2:		Skirt:	MS	
SIERRA 1500 / 99-03	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-829-4	97.00	DIST3:				
SIERRA 2500 / 99-00	AM Ring Available		0.118		0.126										
SILVERADO 1500 / 99-03	REFERENCE #	TOP	2ND	OIL											
SILVERADO 2500 / 99-00	12456338														
SSR / 03-03	19208677														
SUBURBAN (CH) / 99-03	8-12456-338-0														
TAHOE / 99-03															
YUKON / 99-03															
YUKON XL / 02-03															
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 2003-2009															
AVALANCHE / 04-06	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-900-0	96.00	TL:	64.80	PL:	63.50	CHK.
ENVOY DENALI / 05-09	SWG10005-1	96.25	0.059		0.130				11-900-1	96.25	CH:	33.60	PD:	23.96	DIA
ENVOY XL / 04-06	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-900-2	96.50	DIST1:	-1.80	Head:	NONE	25.00
ESCALADE / 04-05	SWG10005-3	96.75	0.059		0.157				11-900-3	96.75	DIST2:		Skirt:	MS	
EXPRESS G1500 / 03-07	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-900-4	97.00	DIST3:				
RAINIER / 04-04	AM Ring Available		0.118		0.126										
SAVANA G1500 / 03-07	REFERENCE #	TOP	2ND	OIL											
SIERRA 1500 / 04-07	12456338														
SILVERADO 1500 / 03-07	19208677														
SSR / 04-04	8-12456-338-0														
SUBURBAN (CH) / 04-06															
TAHOE / 04-06															
YUKON / 04-06															
YUKON XL / 04-06															



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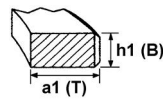
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
5.3L (325CID,5328CC),OHV,8CYL, 96.00MM (3.780"), Vortec 5300 IV / 2005-2013													
CANYON / 09-12	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL: 59.30	PL: 65.00	CHK. DIA
COLORADO / 09-12	SWG10005-1	96.25	0.059		0.130				11-899-1	96.25	CH: 33.60	PD: 23.96	DIA
ENVOY / 05-09	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:	Head: AH	16.00
EXPRESS G1500 / 08-13	SWG10005-3	96.75	0.059		0.157				11-899-3	96.75	DIST2:	Skirt: MS	
GRAND PRIX / 06-06	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:		
H3 / 08-09	AM Ring Available		0.118		0.126								
H3T / 09-09	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
IMPALA / 07-07	12456338				89017577								
LaCrosse / 09-09	19208677												
MONTE CARLO / 06-07	8-12456-338-0												
RAINIER / 05-07													
SAVANA G1500 / 08-13													
TAHOE / 07-09													
TRAILBLAZER / 06-08													
5.3L (325CID,5328CC),OHV,8CYL, 96.00MM (3.780"), Vortec 5300 IV / 2007-2014													
AVALANCHE / 07-13	SWG10005-0	96.00	1.500	X	3.300	BF	STEEL	NITRIDED	11-920-0	96.00	TL:	PL:	CHK. DIA
SIERRA 1500 / 07-13	SWG10005-1	96.25	0.059		0.130				11-920-1	96.25	CH:	PD:	DIA
SILVERADO 1500 / 07-13	SWG10005-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-920-2	96.50	DIST1:	Head: AH	
SUBURBAN (CH) / 07-14	SWG10005-3	96.75	0.059		0.157				11-920-3	96.75	DIST2:	Skirt: MS	
TAHOE / 10-14	SWG10005-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-920-4	97.00	DIST3:		
YUKON / 07-13	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
YUKON XL / 07-13	12456338				19208675								
	19208677												
	8-12456-338-0												
5.7L (346CID,5670CC),OHV,8CYL, 99.00MM (3.898"), Vortec 5700 LS1,Vortec 5700 LS6 / 1997-2009													
CAMARO / 98-02	SWG10018-0	99.00	1.500	X	3.500	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>				
CORVETTE / 97-04	SWG10018-1	99.25	0.059		0.138								
CTS / 04-06	SWG10018-2	99.50	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE					
FIREBIRD / 98-02	SWG10018-3	99.75	0.059		0.161								
GRAND PRIX / 05-08	SWG10018-4	100.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED					
GTO / 04-04			0.118		0.126								
IMPALA / 08-09	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
	88894299												
	88894247												



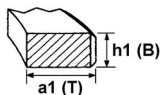
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
5.7L (350CID,5735CC),OHV,8CYL, 101.600MM (4.000"), Chevy S.B. 350,Chevy S.B. 350 L83,Chevy S.B. 350 L98,Vortec 5700 L31 / 1974-1998																	
BLAZER / 74-94 C3500 HD / 91-94 CABALLERO / 78-79 CAMARO / 80-89 CHEVY VAN / 75-95 CORVETTE / 80-89	SWF80016-0 SWF80016-1 SWF80016-2 SWF80016-3 SWF80016-4	101.60 101.85 102.10 102.35 102.60	Top: 2nd: Oil:	1.984 0.078 1.984 0.078 4.763 0.188	X X X	4.950 0.195 4.650 0.183 4.600 0.181	BF-IB T1-RC NIFF-S	CAST IRON CAST IRON STEEL	MOLY PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
FIREBIRD / 87-89 JIMMY / 75-91 MAGNAVAN / 75-93 MALIBU / 81-81 MONTE CARLO / 81-81 PICKUP (Chev) / 74-94 PICKUP (GMC) / 74-95 RALLY / 74-95 SPORTVAN / 74-94 SUBURBAN (CH) / 74-94 SUBURBAN (GM) / 74-95 TRANS AM / 92-96 VANDURA / 74-94 YUKON / 96-98	REFERENCE # 12507985 14089025 3579044 3780016 88894219 C3AZ 6108 F C3AZ 6148 F E3ZZ 6148 A E6TZ 6148 A	TOP 2ND OIL															
5.7L (350CID,5735CC),OHV,8CYL, 101.600MM (4.000"), Vortec 5700 L31 / 1996-2002																	
CHEVY Express / 96-02 CUTAWAY G30 / 96-96 CUTAWAY G3500 / 97-02 ESCALADE / 99-00 EXPRESS G1500 / 96-02	SWI10197-0 SWI10197-1 SWI10197-2 SWI10197-3 SWI10197-4	101.60 101.85 102.10 102.35 102.60	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.650 0.144 4.200 0.165 3.350 0.132	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME		11-828-0 11-828-1 11-828-2 11-828-3 11-828-4	101.60 101.85 102.10 102.35 102.60	TL: CH: DIST1: DIST2: DIST3:	66.00 39.40 -2.60	PL: PD: Head: Skirt:	69.70 23.56 NONE NONE	CHK. DIA 12.00
EXPRESS G2500 / 96-02 EXPRESS G3500 / 96-02 PICKUP (Chev) / 96-00 PICKUP (GMC) / 96-00 SAVANA G1500 / 96-02 SAVANA G2500 / 96-02 SAVANA G3500 / 96-02 SUBURBAN (CH) / 96-99 SUBURBAN (GM) / 96-99 TAHOE / 96-99 YUKON / 99-00 YUKON DENALI / 00-00	REFERENCE # 12456342 12522848 88894243	TOP 2ND OIL									REFERENCE # 12522850						



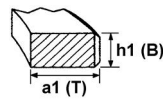
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
6.0L (364CID,5967CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 L76,L96 / 2006-2015													
AVALANCHE / 07-09	SWG10031-0	101.60	Top: 1.200	X	3.500	BF	STEEL	NITRIDED	11-889-0	101.60	TL: 57.90	PL: 65.00	CHK.
CUTAWAY G3500 / 06-15	SWG10031-1	101.85	0.047		0.138				11-889-1	101.85	CH: 33.90	PD: 23.96	DIA
EXPRESS G2500 / 06-15	SWG10031-2	102.10	2nd: 1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-889-2	102.10	DIST1: -1.40	Head: NONE	13.00
EXPRESS G3500 / 06-15	SWG10031-3	102.35	0.059		0.165				11-889-3	102.35	DIST2:	Skirt: MS	
EXPRESS G3500 / 06-15	SWG10031-4	102.60	Oil: 2.500	X	2.550	NIFF-H	STEEL	CHROME	11-889-4	102.60	DIST3:		
G8 / 08-09			0.098		0.100								
SAVANA G2500 / 06-15	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
SAVANA G3500 / 06-15	19178307				8-89017-849-0								
SIERRA 1500 / 06-09	8-89017-484-0				89017849								
SILVERADO 1500 / 06-09	89017484												
TRAILBLAZER / 06-09													
6.0L (364CID,5967CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 L77,Vortec 6000 LFA,Vortec 6000 LS2,Vortec 6000 LY6,Vortec 6000 LZ1 / 2005-2015													
CORVETTE / 05-07	SWG10031-0	101.60	Top: 1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
CTS / 07-07	SWG10031-1	101.85	0.047		0.138								
ESCALADE HYBRID / 09-13	SWG10031-2	102.10	2nd: 1.500	X	4.200	TUC	CAST IRON	PHOSPHATE					
GTO / 05-06	SWG10031-3	102.35	0.059		0.165								
H2 / 05-07	SWG10031-4	102.60	Oil: 2.500	X	2.550	NIFF-H	STEEL	CHROME					
SIERRA 2500 / 05-08	REFERENCE #	TOP	2ND	OIL									
SIERRA 2500 HD / 06-15	19178307												
SIERRA 3500 / 06-15	8-89017-484-0												
SIERRA HYBRID / 09-13	89017484												
SILVERADO 1500 / 10-12													
SILVERADO 2500HD / 06-15													
SILVERADO 3500HD / 06-15													
SILVERADO HYBRID / 09-13													
SSR / 05-06													
SUBURBAN (CH) / 07-13													
TAHOE HYBRID / 08-13													
YUKON HYBRID / 08-13													
YUKON HYBRID													
DENALI / 08-13													
YUKON XL / 06-13													



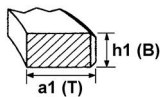
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
6.0L (364CID,5967CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 LQ4,LQ9 / 1999-2006													
CUTAWAY G3500 / 03-05	SWI10197-0	101.60	Top: 1.500	X	3.650	BF	STEEL	CHROME	11-823-0	101.60	TL: 60.60	PL: 70.00	CHK.
	SWI10197-1	101.85	0.059		0.144				11-823-1	101.85	CH: 33.80	PD: 24.00	DIA
ESCALADE / 02-06	SWI10197-2	102.10	2nd: 1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-823-2	102.10	DIST1: -1.10	Head: NONE	21.00
ESCALADE EXT / 02-06	SWI10197-3	102.35	0.059		0.165				11-823-3	102.35	DIST2:	Skirt: MS	
EXPRESS G2500 / 03-05	SWI10197-4	102.60	Oil: 3.000	X	3.350	NIFF-S	STEEL	CHROME	11-823-4	102.60	DIST3:		
EXPRESS G3500 / 03-05			0.118		0.132								
H2 / 03-04	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
SAVANA G2500 / 03-05	12456342				88894003								
SAVANA G3500 / 03-05	12522848												
SIERRA 1500 / 01-05	88894243												
SIERRA 2500 / 99-04													
SIERRA 2500 HD / 01-05													
SIERRA 3500 / 01-05													
SILVERADO 1500 / 03-05													
SILVERADO 2500 / 99-04													
SILVERADO 2500HD / 01-05													
SILVERADO 3500HD / 01-05													
SUBURBAN (CH) / 00-06													
YUKON / 01-05													
YUKON DENALI / 01-06													
6.2L (376CID,6162CC),OHV,8CYL, 103.250MM (4.065"), Vortec 6200 L92,L94 / 2007-2014													
ESCALADE / 07-14	SWG10050-0	103.25	Top: 1.500	X	3.500	BF	STEEL	NITRIDED	11-904-0	103.25	TL: 56.00	PL: 65.00	CHK.
ESCALADE EXT / 07-13	SWG10050-1	103.50	0.059		0.138				11-904-1	103.50	CH: 34.00	PD: 23.96	DIA
H2 / 08-09	SWG10050-2	103.75	2nd: 1.500	X	4.700	TUC	CAST IRON	PHOSPHATE	11-904-2	103.75	DIST1: -3.70	Head: AH	9.00
SIERRA 1500 DENALI / 09-13	SWG10050-3	104.00	0.059		0.185				11-904-3	104.00	DIST2:	Skirt: MS	
SILVERADO 1500 / 10-13	SWG10050-4	104.25	Oil: 2.500	X	2.850	NIFF-H	STEEL	CHROME	11-904-4	104.25	DIST3:		
YUKON DENALI / 07-13	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
YUKON XL DENALI / 10-13	19168090				19178597								
					19208471								
6.2L (376CID,6162CC),OHV,8CYL, 103.250MM (4.065"), Vortec 6200 LS3,Vortec 6200 LSA,Vortec 6200 LT1 / 2008-2017													
CAMARO / 10-17	SWG10050-0	103.25	Top: 1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
CAMARO ZL1 / 12-15	SWG10050-1	103.50	0.059		0.138								
CORVETTE / 08-15	SWG10050-2	103.75	2nd: 1.500	X	4.700	TUC	CAST IRON	PHOSPHATE					
G8 / 09-09	SWG10050-3	104.00	0.059		0.185								
SS / 14-15	SWG10050-4	104.25	Oil: 2.500	X	2.850	NIFF-H	STEEL	CHROME					
	REFERENCE #	TOP	2ND	OIL									
	19168090												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
6.5L (395CID,6473CC),OHV,8CYL, 103.000MM (4.055"), GM 6.5 Diesel / 1992-2004 DIESEL													
BLAZER / 94-94	SDG10024-0	103.00	2.800	X	3.700	BF-K1-IB	STEEL	NITRIDED	11-830-0	103.00	TL: 91.80	PL: 70.00	CHK. 17.00
C3500 HD / 92-02	SDG10024-1	103.25	0.110		0.146				11-830-1	103.25	CH: 53.50	PD: 31.00	DIA
CHEVY Express / 96-02	SDG10024-2	103.50	2.000	X	4.100	T1-IB	CAST IRON	PHOSPHATE	11-830-2	103.50	DIST1: -3.70	Head: AH	
CHEVY VAN / 94-96	SDG10024-3	103.75	0.079		0.161				11-830-3	103.75	DIST2:	Skirt: NONE	
CUTAWAY G30 / 96-96	SDG10024-4	104.00	4.000	X	4.150	E-BC16	STEEL	NITRIDED	11-830-4	104.00	DIST3:		
CUTAWAY G3500 / 97-02	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
EXPRESS G2500 / 96-02	12369198								12550059				
EXPRESS G3500 / 96-02									12550061				
H1 / 02-04													
PICKUP (Chev) / 92-00													
PICKUP (GMC) / 94-00													
SAVANA G2500 / 96-02													
SAVANA G3500 / 96-02													
SPORTVAN / 94-96													
SUBURBAN (CH) / 94-98													
SUBURBAN (GM) / 94-99													
TAHOE / 95-99													
VANDURA / 94-95													
YUKON / 94-97													
6.6L (403CID,6599CC),OHV,8CYL, 103.000MM (4.055"), Duramax LB7,Duramax LLY / 2001-2005 DIESEL													
SIERRA 2500 HD / 01-05	SDI10183-0	103.00	2.948	X	3.900	BF-K1	STEEL	NITRIDED	11-884-0	103.00	TL: 89.82	PL: 81.00	CHK. 20.00
SIERRA 3500 / 01-05	SDI10183-1	103.25	0.116		0.154				11-884-1	103.25	CH: 49.82	PD: 34.50	DIA
SILVERADO 2500HD / 01-05	SDI10183-2	103.50	2.000	X	4.400	T1-IC	CAST IRON	CHROME	11-884-2	103.50	DIST1: -15.20	Head: NONE	
SILVERADO 3500HD / 01-05	SDI10183-3	103.75	0.079		0.173				11-884-3	103.75	DIST2:	Skirt: MS	
SILVERADO 3500HD / 01-05	SDI10183-4	104.00	3.000	X	3.000	E-BC16	STEEL	NITRIDED	11-884-4	104.00	DIST3:		
TOPKICK / 03-05	REFERENCE #	TOP	2ND	OIL					REFERENCE #				
	97386951								97226116				
									97226117				
									97374384				
									97374385				
6.6L (403CID,6599CC),OHV,8CYL, 103.000MM (4.055"), Duramax LBZ,Duramax LGH,Duramax LML,Duramax LMM / 2006-2016 DIESEL													
CUTAWAY G3500 / 06-16	SDI10183-0	103.00	2.948	X	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
EXPRESS G2500 / 06-16	SDI10183-1	103.25	0.116		0.154								
EXPRESS G3500 / 06-16	SDI10183-2	103.50	2.000	X	4.400	T1-IC	CAST IRON	CHROME					
H1 ALPHA / 06-06	SDI10183-3	103.75	0.079		0.173								
SAVANA G2500 / 06-16	SDI10183-4	104.00	3.000	X	3.000	E-BC16	STEEL	NITRIDED					
SAVANA G3500 / 06-16	REFERENCE #	TOP	2ND	OIL									
SIERRA 2500 HD / 06-16	97386951												
SIERRA 3500 / 06-15													
SILVERADO 2500HD / 06-15													
SILVERADO 3500HD / 06-15													
TOPKICK / 06-09													



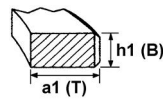
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.8L (475CID,7785CC),SOHC,6CYL, 115.000MM (4.528"), Duramax LG4 / 2003-2009 DIESEL										
TOPKICK / 03-09	SDI10178-0	115.00	Top:	2.948	X	4.100	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10178-1	115.25		0.116		0.161				
	SDI10178-2	115.50	2nd:	2.000	X	4.300	T1-IB	STEEL	NITRIDED	
	SDI10178-3	115.75		0.079		0.169				
	SDI10178-4	116.00	3rd:	2.500	X	4.800	TUC	CAST IRON	CHROME	
		0.098		0.189						
		Oil:	3.000	X	3.100	E-BC16	STEEL	NITRIDED		
	REFERENCE # 94391502*	TOP	2ND	3RD	OIL					

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.0L (305CID,5000CC),SOHC,4CYL, 112.000MM (4.409"), J05E-TP,J05E-TPH / 2012-2015 DIESEL										
CLASS 5 - 195 / 12-15 CLASS 5 - 195H / 13-15	SDH20108-0	112.00	Top:	2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20108-1	112.25		0.098		0.163				
	SDH20108-2	112.50	2nd:	2.000	X	4.300	T1	STEEL	NITRIDED	
	SDH20108-3	112.75		0.079		0.169				
	SDH20108-4	113.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	
		0.157		0.171						
	REFERENCE # 13011-E0350	TOP	2ND	OIL						

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.0L (313CID,5123CC),SOHC,4CYL, 112.000MM (4.409"), J05E-TP / 2014-2014 DIESEL										
CLASS 5 - 195DC / 14-14	SDH20108-0	112.00	Top:	2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20108-1	112.25		0.098		0.163				
	SDH20108-2	112.50	2nd:	2.000	X	4.300	T1	STEEL	NITRIDED	
	SDH20108-3	112.75		0.079		0.169				
	SDH20108-4	113.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	
		0.157		0.171						
	REFERENCE # 13011-E0350	TOP	2ND	OIL						

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.1L (313CID,5123CC),SOHC,4CYL, 112.000MM (4.409"), J05E-TPH / 2014-2014 DIESEL										
CLASS 5 - 195HDC / 14-14	SDH20108-0	112.00	Top:	2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20108-1	112.25		0.098		0.163				
	SDH20108-2	112.50	2nd:	2.000	X	4.300	T1	STEEL	NITRIDED	
	SDH20108-3	112.75		0.079		0.169				
	SDH20108-4	113.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	
		0.157		0.171						
	REFERENCE # 13011-E0350	TOP	2ND	OIL						

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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.7L (469CID,7684CC),SOHC,6CYL, 112.000MM (4.409"), J08E-TV,J08E-TW,J08E-VB,J08E-VC / 2009-2015 DIESEL										
CLASS 6 - 238 / 09-14	SDH20102-0	112.00	2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CLASS 6 - 258ALP / 09-14	SDH20102-1	112.25	0.098		0.163					
CLASS 6 - 258LP / 09-14	SDH20102-2	112.50	2.000	X	4.300	T1	STEEL	NITRIDED		
CLASS 6 - 268 / 09-15	SDH20102-3	112.75	0.079		0.169					
CLASS 6 - 268A / 09-14	SDH20102-4	113.00	4.000	X	4.350	E-BC16	STEEL	NITRIDED		
CLASS 7 - 338 / 09-15	SDH20102-4	113.00	0.157		0.171					
CLASS 7 - 338CT / 09-13	REFERENCE # 13011-4040A	TOP	2ND	OIL						

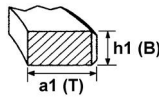
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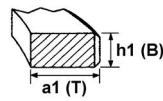
1.2L (71CID,1169CC),SOHC,4CYL, 70.000MM (2.756"), EB1 / 1973-1973										
CIVIC / 73-73	SWH30107-0	70.00	1.500	X	2.800	T1	CAST IRON	CHROME	DISC-11-096-0	70.00
	SWH30107-1	70.25	0.059		0.110				DISC-11-096-1	70.25
	SWH30107-2	70.50	1.500	X	2.800	T1	CAST IRON	PHOSPHATE	DISC-11-096-2	70.50
	SWH30107-3	70.75	0.059		0.110				DISC-11-096-3	70.75
	SWH30107-4	71.00	2.500	X	2.500	NIFF-H	STEEL	CHROME	DISC-11-096-4	71.00
	Oil:		2.800	X	2.750	NIFF-S	STEEL	CHROME		
	REFERENCE # 13011-634-004	TOP	2ND	3RD	OIL				REFERENCE # 13101-634-000	

1.2L (75CID,1237CC),SOHC,4CYL, 72.000MM (2.835"), EB2 / 1974-1978										
CIVIC / 74-78	SWH30184-0	72.00	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-097-0	72.00
	SWH30184-1	72.25	0.059		0.112				DISC-11-097-1	72.25
	SWH30184-2	72.50	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-097-2	72.50
	SWH30184-3	72.75	0.059		0.134				DISC-11-097-3	72.75
SWH30184-4	73.00	2.800	X	3.100	NIFF-S	STEEL	NITRIDED	DISC-11-097-4	73.00	
	Oil:		0.110		0.122					
	REFERENCE # 13011-642-004	TOP	2ND	OIL				REFERENCE # 13101-634-670		

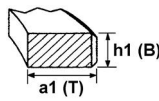
1.2L (75CID,1237CC),SOHC,4CYL, 72.000MM (2.835"), EB3 / 1978-1979										
CIVIC / 78-79	SWH30162-0	72.00	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-098-0	72.00
	SWH30162-1	72.25	0.059		0.122				DISC-11-098-1	72.25
	SWH30162-2	72.50	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-098-2	72.50
	SWH30162-3	72.75	0.059		0.134				DISC-11-098-3	72.75
SWH30162-4	73.00	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-098-4	73.00	
	Oil:		0.157		0.120					
	REFERENCE # 13011-673-000 13011-PA0-004 13011-PA1-004	TOP	2ND	OIL				REFERENCE # 13101-634-671		



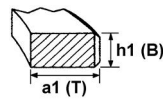
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (81CID,1335CC),SOHC,4CYL, 72.00MM (2.835"), EJ1 / 1980-1980																
CIVIC / 80-80	SWH30162-0	72.00	Top:	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-099-0	72.00					
	SWH30162-1	72.25		0.059		0.122					DISC-11-099-1	72.25				
	SWH30162-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-099-2	72.50					
	SWH30162-3	72.75		0.059		0.134						DISC-11-099-3	72.75			
	SWH30162-4	73.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-099-4	73.00					
			0.157	0.120												
	REFERENCE # 13011-673-000 13011-PA0-004 13011-PA1-004	TOP	2ND	OIL					REFERENCE # 13101-PA0-000							
1.3L (81CID,1335CC),SOHC,4CYL, 72.00MM (2.835"), EJ1 / 1981-1981																
CIVIC / 81-81	SWH30162-0	72.00	Top:	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-100-0	72.00					
	SWH30162-1	72.25		0.059		0.122					DISC-11-100-1	72.25				
	SWH30162-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-100-2	72.50					
	SWH30162-3	72.75		0.059		0.134						DISC-11-100-3	72.75			
	SWH30162-4	73.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-100-4	73.00					
			0.157	0.120												
	REFERENCE # 13011-673-000 13011-PA0-004 13011-PA1-004	TOP	2ND	OIL					REFERENCE # 13101-PA5-000							
1.3L (81CID,1335CC),SOHC,4CYL, 72.00MM (2.835"), EJ1 / 1982-1983																
CIVIC / 82-83	SWH30219-0	72.00	Top:	1.000	X	2.850	BF	STEEL	CHROME	DISC-11-102-0	72.00					
	SWH30219-1	72.25		0.039		0.112					DISC-11-102-1	72.25				
	SWH30219-2	72.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-102-2	72.50					
	SWH30219-3	72.75		0.047		0.126						DISC-11-102-3	72.75			
	SWH30219-4	73.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-102-4	73.00					
			0.110	0.118												
	REFERENCE # 13011-PA5-004	TOP	2ND	OIL					REFERENCE # 13101-PA5-030							
1.3L (82CID,1339CC),SOHC,4CYL, 73.00MM (2.874"), LDA-MF3 / 2003-2011																
CIVIC HYBRID / 03-11	SWH30474-0	73.00	Top:	1.000	X	2.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30474-1	73.25		0.039		0.089										
	SWH30474-2	73.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE							
	SWH30474-3	73.75		0.047		0.118										
	SWH30474-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	CHROME							
			0.079	0.087												
	REFERENCE # 13011-PWA-G01 13011-RMX-001	TOP	2ND	OIL												



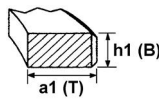
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
1.3L (82CID,1342CC),SOHC,4CYL, 74.00MM (2.913"), EV1 / 1985-1986																			
CIVIC / 85-86	SWH30252-0	74.00	Top: 1.200 0.047	X	2.800 0.110	BF	STEEL	CHROME	DISC-11-109-0	74.00									
	SWH30252-1	74.25							DISC-11-109-1	74.25									
	SWH30252-2	74.50	Oil: 2.800 0.110	X	2.800 0.110	NIFF-S	STEEL	CHROME	DISC-11-109-2	74.50									
	SWH30252-3	74.75							DISC-11-109-3	74.75									
	SWH30252-4	75.00							DISC-11-109-4	75.00									
REFERENCE # 13011-PE0-662		TOP	OIL		REFERENCE # 13101-PE0-660 13105-PE0-660														
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), D15A3,EW3,EW4 / 1985-1987																			
CIVIC / 85-86 CRX / 86-87	SWH30114-0	74.00	Top: 1.500 0.059	X	3.400 0.134	BF	CAST IRON	CHROME	11-515-0	74.00	TL: 59.80 CH: 29.80 DIST1: -2.70 DIST2: DIST3:	PL: 56.00 PD: 19.00 Head: NONE Skirt: NONE	56.00 19.00 NONE NONE	CHK. DIA 17.50					
	SWH30114-1	74.25							11-515-1	74.25									
	SWH30114-2	74.50	2nd: 1.500 0.059	X	3.200 0.126	T1	CAST IRON	PHOSPHATE	11-515-2	74.50									
	SWH30114-3	74.75							11-515-3	74.75									
	SWH30114-4	75.00	Oil: 4.000 0.157	X	3.050 0.120	NIFF-S	STEEL	CHROME	11-515-4	75.00									
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP	2ND	OIL		REFERENCE # 13101-PE7-305													
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), ED3,ED4 / 1975-1979																			
CIVIC / 75-79	SWH30114-0	74.00	Top: 1.500 0.059	X	3.400 0.134	BF	CAST IRON	CHROME	11-105-0	74.00	TL: 57.70 CH: 27.70 DIST1: -1.50 DIST2: DIST3:	PL: 62.00 PD: 17.00 Head: NONE Skirt: NONE	62.00 17.00 NONE NONE	CHK. DIA 10.00					
	SWH30114-1	74.25							11-105-1	74.25									
	SWH30114-2	74.50	2nd: 1.500 0.059	X	3.200 0.126	T1	CAST IRON	PHOSPHATE	11-105-2	74.50									
	SWH30114-3	74.75							11-105-3	74.75									
	SWH30114-4	75.00	Oil: 4.000 0.157	X	3.050 0.120	NIFF-S	STEEL	CHROME	11-105-4	75.00									
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP	2ND	OIL		REFERENCE # 13101-657-030 13101-657-670													
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), EM1 / 1980-1980																			
CIVIC / 80-80	SWH30114-0	74.00	Top: 1.500 0.059	X	3.400 0.134	BF	CAST IRON	CHROME	11-106-0	74.00	TL: 62.70 CH: 27.70 DIST1: DIST2: DIST3:	PL: 62.00 PD: 17.00 Head: NONE Skirt: NONE	62.00 17.00 NONE NONE	CHK. DIA 20.00					
	SWH30114-1	74.25							11-106-1	74.25									
	SWH30114-2	74.50	2nd: 1.500 0.059	X	3.200 0.126	T1	CAST IRON	PHOSPHATE	11-106-2	74.50									
	SWH30114-3	74.75							11-106-3	74.75									
	SWH30114-4	75.00	Oil: 4.000 0.157	X	3.050 0.120	NIFF-S	STEEL	CHROME	11-106-4	75.00									
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP	2ND	OIL		REFERENCE # 13101-PA6-000													



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO																
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), EM1 / 1981-1983																										
CIVIC / 81-83	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	DISC-11-107-0	74.00															
	SWH30114-1	74.25		0.059		0.134				DISC-11-107-1	74.25															
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-107-2	74.50															
	SWH30114-3	74.75		0.059		0.126				DISC-11-107-3	74.75															
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-107-4	75.00															
			0.157	0.120																						
	REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010	TOP	2ND	OIL	REFERENCE # 13101-PA6-305																					
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), EM1 / 1982-1983																										
CIVIC / 82-83	SWH30253-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	DISC-11-108-0	74.00															
	SWH30253-1	74.25		0.047		0.110				DISC-11-108-1	74.25															
	SWH30253-2	74.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-108-2	74.50															
	SWH30253-3	74.75		0.047		0.126				DISC-11-108-3	74.75															
	SWH30253-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-108-4	75.00															
			0.110	0.110																						
	REFERENCE # 13011-PA6-014 13011-PE1-004	TOP	2ND	OIL	REFERENCE # 13101-PA6-306																					
1.5L (91CID,1488CC),SOHC,4CYL, 74.00MM (2.913"), EW1 / 1984-1984																										
CIVIC / 84-84	SWH30253-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	11-111-0	74.00	TL:	59.80	PL:	56.00	CHK.										
	SWH30253-1	74.25		0.047		0.110				11-111-1	74.25						CH:	29.80	PD:	19.00	DIA					
	SWH30253-2	74.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	11-111-2	74.50											DIST1:	-4.70	Head:	NONE	10.00
	SWH30253-3	74.75		0.047		0.126				11-111-3	74.75															
	SWH30253-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-111-4	75.00															
			0.110	0.110																						
	REFERENCE # 13011-PA6-014 13011-PE1-004	TOP	2ND	OIL	REFERENCE # 13101-PE1-000 13105-PE1-000																					
1.5L (91CID,1493CC),SOHC,4CYL, 75.00MM (2.953"), D15B1,D15B2 / 1988-1991																										
CIVIC / 88-91 CRX / 88-91	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-518-0	75.00	TL:	60.80	PL:	56.00	CHK.										
	SWH30365-1	75.25		0.047		0.106				11-518-1	75.25						CH:	30.80	PD:	19.00	DIA					
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-518-2	75.50											DIST1:		Head:	NONE	10.00
	SWH30365-3	75.75		0.059		0.126				11-518-3	75.75															
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-518-4	76.00															
			0.110	0.110																						
	REFERENCE # 13011-P04-G02 13011-PJ1-752	TOP	2ND	OIL	REFERENCE # 13101-PM3-020																					



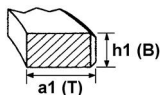
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1493CC),SOHC,4CYL, 75.00MM (2.953"), D15B6 / 1989-1991																
CRX / 89-91	SWH30363-0	75.00	Top:	1.000	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30363-1	75.25		0.039		0.104										
	SWH30363-2	75.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE							
	SWH30363-3	75.75		0.047		0.126										
	SWH30363-4	76.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME							
		0.110		0.118												
	REFERENCE # 13011-PM8-A02		TOP		2ND		OIL									
1.5L (91CID,1493CC),SOHC,4CYL, 75.00MM (2.953"), D15B7 / 1992-1995																
CIVIC / 92-95 DEL SOL / 93-95	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED		DISC-11-746-0	75.00				
	SWH30362-1	75.25		0.047		0.106							DISC-11-746-1	75.25		
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-746-2	75.50					
	SWH30362-3	75.75		0.059		0.126							DISC-11-746-3	75.75		
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	DISC-11-746-4	76.00					
		0.110		0.100												
	REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02		TOP		2ND		OIL			REFERENCE # 13010-P03-010						
1.5L (91CID,1493CC),SOHC,4CYL, 75.00MM (2.953"), D15B8 / 1992-1995																
CIVIC / 92-95	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30365-1	75.25		0.047		0.106										
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE							
	SWH30365-3	75.75		0.059		0.126										
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME							
		0.110		0.110												
	REFERENCE # 13011-P04-G02 13011-PJ1-752		TOP		2ND		OIL									
1.5L (91CID,1493CC),SOHC,4CYL, 75.00MM (2.953"), D15Z1 / 1992-1995																
CIVIC / 92-95	SWH30423-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME		11-736-0	75.00	TL:	57.80	PL:	56.00
	SWH30423-1	75.25		0.039		0.104							11-736-1	75.25	CH:	27.80
	SWH30423-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-736-2	75.50	DIST1:	-7.20	Head:	NONE	
	SWH30423-3	75.75		0.047		0.110							11-736-3	75.75	DIST2:	
	SWH30423-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-736-4	76.00	DIST3:				
		0.110		0.100												
	REFERENCE # 13011-P07-004 13011-P2F-A01		TOP		2ND		OIL			REFERENCE # 13010-P07-000						



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1496CC),SOHC,4CYL, 73.00MM (2.874"), L15A1 / 2007-2008																
FIT / 07-08	SWH30474-0	73.00	Top:	1.000	X	2.250	BF-IB	STEEL	CHROME	11-890-0	73.00	TL:	49.40	PL:	54.00	CHK. DIA 6.00
	SWH30474-1	73.25		0.039		0.089				11-890-1	73.25	CH:	26.20	PD:	18.00	
	SWH30474-2	73.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE	11-890-2	73.50	DIST1:	1.70	Head:	NONE	
	SWH30474-3	73.75		0.047		0.118				11-890-3	73.75	DIST2:		Skirt:	MS	
	SWH30474-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	CHROME	11-890-4	74.00	DIST3:				
		0.079	0.087													
	REFERENCE # 13011-PWA-G01 13011-RMX-001	TOP	2ND	OIL					REFERENCE # 13010-PWC-J01							
1.5L (91CID,1497CC),SOHC,4CYL, 73.00MM (2.874"), L15A7,LEA / 2009-2016																
CIVIC HYBRID / 12-15 CR-Z HYBRID / 11-16 FIT / 09-14	SWH30465-0	73.00	Top:	1.000	X	2.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30465-1	73.25		0.039		0.091										
	SWH30465-2	73.50	2nd:	1.000	X	2.300	TUC	STEEL	PHOSPHATE							
	SWH30465-3	73.75		0.039		0.091										
	SWH30465-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
		0.079	0.087													
	REFERENCE # 13011-RB1-004 13011-RB1-006 13011-RW0-004	TOP	2ND	OIL												
1.6L (97CID,1590CC),DOHC,4CYL, 81.00MM (3.189"), B16A2,B16A3 / 1994-2000																
CIVIC Si / 99-00 DEL SOL / 94-97	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME	11-737-0	81.00	TL:	62.60	PL:	56.00	CHK. DIA 16.00
	SWH30373-1	81.25		0.039		0.122				11-737-1	81.25	CH:	30.00	PD:	21.00	
	SWH30373-2	81.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE	11-737-2	81.50	DIST1:	2.60	Head:	NONE	
	SWH30373-3	81.75		0.047		0.130				11-737-3	81.75	DIST2:		Skirt:	NONE	
	SWH30373-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	11-737-4	82.00	DIST3:				
		0.110	0.106													
	REFERENCE # 13011-PR3-004	TOP	2ND	OIL					REFERENCE # 13010-P30-G00							
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), D16A6 / 1988-1991																
CIVIC / 88-91 CRX / 88-91	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-514-0	75.00	TL:	59.60	PL:	56.00	CHK. DIA 30.00
	SWH30362-1	75.25		0.047		0.106				11-514-1	75.25	CH:	29.50	PD:	19.00	
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-514-2	75.50	DIST1:	-1.00	Head:	NONE	
	SWH30362-3	75.75		0.059		0.126				11-514-3	75.75	DIST2:		Skirt:	NONE	
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-514-4	76.00	DIST3:				
		0.110	0.100													
	REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02	TOP	2ND	OIL					REFERENCE # 13101-PM6-020							



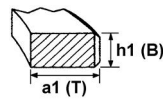
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), D16Y5 / 1996-2000													
CIVIC / 96-00	SWH30423-0	75.00	Top: 1.000 0.039	X	2.650 0.104	BF-IB	STEEL	CHROME	11-785-0	75.00	TL: 49.10	PL: 56.00	CHK. DIA 3.00
	SWH30423-1	75.25							11-785-1	75.25	CH: 29.10	PD: 19.00	
	SWH30423-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE	11-785-2	75.50	DIST1: -2.40	Head: NONE	
	SWH30423-3	75.75							11-785-3	75.75	DIST2: -4.40	Skirt: NONE	
	SWH30423-4	76.00	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-785-4	76.00	DIST3: -2.60		
REFERENCE # 13011-P07-004 13011-P2F-A01	TOP	2ND	OIL	REFERENCE # 13010-P2M-000									
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), D16Y7 / 1996-2000													
CIVIC / 96-00 DEL SOL / 96-97	SWH30423-0	75.00	Top: 1.000 0.039	X	2.650 0.104	BF-IB	STEEL	CHROME	11-752-0	75.00	TL: 50.00	PL: 56.00	CHK. DIA 15.00
	SWH30423-1	75.25							11-752-1	75.25	CH: 30.00	PD: 19.00	
	SWH30423-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE	11-752-2	75.50	DIST1: -3.40	Head: NONE	
	SWH30423-3	75.75							11-752-3	75.75	DIST2:	Skirt: NONE	
	SWH30423-4	76.00	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-752-4	76.00	DIST3:		
REFERENCE # 13011-P07-004 13011-P2F-A01	TOP	2ND	OIL	REFERENCE # 13010-P2E-000									
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), D16Y8 / 1996-2000													
CIVIC / 96-00 DEL SOL / 96-97	SWH30423-0	75.00	Top: 1.000 0.039	X	2.650 0.104	BF-IB	STEEL	CHROME	11-732-0	75.00	TL: 49.90	PL: 56.00	CHK. DIA 10.00
	SWH30423-1	75.25							11-732-1	75.25	CH: 29.90	PD: 19.00	
	SWH30423-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE	11-732-2	75.50	DIST1: -2.80	Head: NONE	
	SWH30423-3	75.75							11-732-3	75.75	DIST2:	Skirt: NONE	
	SWH30423-4	76.00	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-732-4	76.00	DIST3:		
REFERENCE # 13011-P07-004 13011-P2F-A01	TOP	2ND	OIL	REFERENCE # 13010-P2P-000									
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), D16Z6 / 1992-1995													
CIVIC / 92-95 DEL SOL / 93-95	SWH30362-0	75.00	Top: 1.200 0.047	X	2.700 0.106	BF	STEEL	NITRIDED	11-679-0	75.00	TL: 60.00	PL: 56.00	CHK. DIA 27.00
	SWH30362-1	75.25							11-679-1	75.25	CH: 30.00	PD: 19.00	
	SWH30362-2	75.50	2nd: 1.500 0.059	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE	11-679-2	75.50	DIST1: -3.50	Head: NONE	
	SWH30362-3	75.75							11-679-3	75.75	DIST2:	Skirt: NONE	
	SWH30362-4	76.00	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-679-4	76.00	DIST3:		
REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02	TOP	2ND	OIL	REFERENCE # 13010-P28-A01									



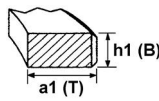
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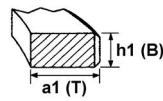
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),SOHC,4CYL, 74.00MM (2.913"), EF1 / 1976-1978																
ACCORD / 76-78	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	11-113-0	74.00	TL:	57.50	PL:	62.00	CHK.
	SWH30114-1	74.25		0.059		0.134				11-113-1	74.25	CH:	27.50	PD:	17.00	
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-113-2	74.50	DIST1:	-2.50	Head:	NONE	10.00
	SWH30114-3	74.75		0.059		0.126				11-113-3	74.75	DIST2:		Skirt:	NONE	
	SWH30114-4	75.00		Oil:		4.000				3.050	NIFF-S	STEEL	CHROME	11-113-4	75.00	
	REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010	TOP	2ND	OIL		REFERENCE # 13101-689-000										
1.7L (102CID,1668CC),SOHC,4CYL, 75.00MM (2.953"), D17A1 / 2001-2005																
CIVIC / 01-05	SWH30440-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-797-0	75.00	TL:	46.50	PL:	56.00	CHK.
	SWH30440-1	75.25		0.039		0.104				11-797-1	75.25	CH:	26.90	PD:	19.00	
	SWH30440-2	75.50	2nd:	1.200	X	3.000	T1	CAST IRON	PHOSPHATE	11-797-2	75.50	DIST1:	-2.90	Head:	NONE	5.00
	SWH30440-3	75.75		0.047		0.118				11-797-3	75.75	DIST2:		Skirt:	NONE	
	SWH30440-4	76.00		Oil:		2.000				2.450	NIFF-H	STEEL	CHROME	11-797-4	76.00	
	REFERENCE # 13011-PLM-A00 13011-PLR-A00	TOP	2ND	OIL		REFERENCE # 13010-PLM-A00										
1.7L (102CID,1668CC),SOHC,4CYL, 75.00MM (2.953"), D17A7,D17A8 / 2001-2005																
CIVIC / 01-05	SWH30440-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-798-0	75.00	TL:	45.60	PL:	56.00	CHK.
	SWH30440-1	75.25		0.039		0.104				11-798-1	75.25	CH:	27.00	PD:	19.00	
	SWH30440-2	75.50	2nd:	1.200	X	3.000	T1	CAST IRON	PHOSPHATE	11-798-2	75.50	DIST1:	-2.70	Head:	NONE	5.00
	SWH30440-3	75.75		0.047		0.118				11-798-3	75.75	DIST2:		Skirt:	NONE	
	SWH30440-4	76.00		Oil:		2.000				2.450	NIFF-H	STEEL	CHROME	11-798-4	76.00	
	REFERENCE # 13011-PLM-A00 13011-PLR-A00	TOP	2ND	OIL		REFERENCE # 13010-PLR-A00										
1.8L (107CID,1751CC),SOHC,4CYL, 77.00MM (3.031"), EK1 / 1979-1983																
ACCORD / 79-83 PRELUDE / 79-82	SWH30158-0	77.00	Top:	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-116-0	77.00					
	SWH30158-1	77.25		0.059		0.112				DISC-11-116-1	77.25					
	SWH30158-2	77.50	2nd:	1.500	X	3.300	TUC	CAST IRON	PHOSPHATE	DISC-11-116-2	77.50					
	SWH30158-3	77.75		0.059		0.130				DISC-11-116-3	77.75					
	SWH30158-4	78.00		Oil:		4.000				3.050	NIFF-S	STEEL	CHROME	DISC-11-116-4	78.00	
	REFERENCE # 13011-676-604	TOP	2ND	OIL		REFERENCE # 061A3-PC2-010 13101-689-010										



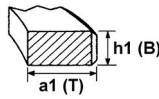
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (110CID,1798CC),SOHC,4CYL, 81.000MM (3.189"), R18A1 / 2006-2009																
CIVIC / 06-09	SWH30484-0	81.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	11-891-0	81.00	TL:	49.40	PL:	46.00	CHK. DIA
	SWH30484-1	81.25		0.047		0.098				11-891-1	81.25	CH:	28.88	PD:	19.96	
	SWH30484-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-891-2	81.50	DIST1:	-2.00	Head:	AH	6.00
	SWH30484-3	81.75		0.047		0.134				11-891-3	81.75	DIST2:		Skirt:	MS	
	SWH30484-4	82.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED	11-891-4	82.00	DIST3:				
		0.079	0.098													
	REFERENCE # 13011-R9A-A01 13011-RNA-A01 13011-RNB-A02	TOP	2ND	OIL					REFERENCE # 13010-RNA-A00							
1.8L (110CID,1798CC),SOHC,4CYL, 81.000MM (3.189"), R18A1,R18Z9 / 2010-2016																
CIVIC / 10-15 HR-V / 16-16	SWH30484-0	81.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30484-1	81.25		0.047		0.098										
	SWH30484-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWH30484-3	81.75		0.047		0.134										
	SWH30484-4	82.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED							
		0.079	0.098													
	REFERENCE # 13011-R9A-A01 13011-RNA-A01 13011-RNB-A02	TOP	2ND	OIL												
1.8L (112CID,1829CC),SOHC,4CYL, 80.000MM (3.150"), A18A1,ET2 / 1984-1987																
PRELUDE / 84-87	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-122-0	80.00	TL:	65.30	PL:	61.00	CHK. DIA
	SWH30251-1	80.25		0.059		0.120				11-122-1	80.25	CH:	29.80	PD:	20.00	
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	11-122-2	80.50	DIST1:	-0.50	Head:	NONE	30.00
	SWH30251-3	80.75		0.059		0.134				11-122-3	80.75	DIST2:	-3.30	Skirt:	NONE	
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-122-4	81.00	DIST3:	-2.20			
		0.157	0.130													
	REFERENCE # 13011-PC6-004 13011-PH2-003	TOP	2ND	OIL					REFERENCE # 13101-PC7-661							
1.8L (112CID,1829CC),SOHC,4CYL, 80.000MM (3.150"), ES1 / 1983-1983																
PRELUDE / 83-83	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-120-0	80.00					
	SWH30251-1	80.25		0.059		0.120										
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-120-2	80.50					
	SWH30251-3	80.75		0.059		0.134				DISC-11-120-3	80.75					
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-120-4	81.00					
		0.157	0.130													
	REFERENCE # 13011-PC6-004 13011-PH2-003	TOP	2ND	OIL					REFERENCE # 13101-PC6-020							



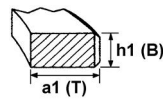
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1829CC),SOHC,4CYL, 80.00MM (3.150"), ES2,ES3 / 1984-1985																
ACCORD / 84-85	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-121-0	80.00					
	SWH30251-1	80.25		0.059		0.120				DISC-11-121-1	80.25					
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-121-2	80.50					
	SWH30251-3	80.75		0.059		0.134				DISC-11-121-3	80.75					
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-121-4	81.00					
			0.157	0.130												
	REFERENCE # 13011-PC6-004 13011-PH2-003	TOP	2ND	OIL					REFERENCE # 13101-PD2-030 13102-PD6-010							
2.0L (119CID,1955CC),SOHC,4CYL, 82.700MM (3.256"), A20A1,BS / 1986-1989																
ACCORD / 86-89	SWH30366-0	82.70	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-520-0	82.70	TL:	65.20	PL:	61.00	CHK. DIA 30.00
	SWH30366-1	82.95		0.059		0.122				11-520-1	82.95	CH:	29.80	PD:	20.00	
	SWH30366-2	83.20	2nd:	1.500	X	3.200	T1	CAST IRON	CHROME	11-520-2	83.20	DIST1:	-1.70	Head:	NONE	
	SWH30366-3	83.45		0.059		0.126				11-520-3	83.45	DIST2:	-2.90	Skirt:	NONE	
	SWH30366-4	83.70	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-520-4	83.70	DIST3:	-1.90			
			0.157	0.128												
	REFERENCE # 13011-PH4-004	TOP	2ND	OIL					REFERENCE # 13102-PH4-010							
2.0L (119CID,1955CC),SOHC,4CYL, 82.700MM (3.256"), A20A3,BT / 1986-1989																
ACCORD / 86-89 PRELUDE / 86-87	SWH30366-0	82.70	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-519-0	82.70	TL:	65.30	PL:	62.00	CHK. DIA 30.00
	SWH30366-1	82.95		0.059		0.122				11-519-1	82.95	CH:	29.80	PD:	20.00	
	SWH30366-2	83.20	2nd:	1.500	X	3.200	T1	CAST IRON	CHROME	11-519-2	83.20	DIST1:	-2.40	Head:	NONE	
	SWH30366-3	83.45		0.059		0.126				11-519-3	83.45	DIST2:		Skirt:	NONE	
	SWH30366-4	83.70	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-519-4	83.70	DIST3:				
			0.157	0.128												
	REFERENCE # 13011-PH4-004	TOP	2ND	OIL					REFERENCE # 13102-PJ0-010 13102-PJ0-307 13102-PJ0-307, 8							
2.0L (119CID,1958CC),DOHC,4CYL, 81.000MM (3.189"), B20A5 / 1988-1991																
PRELUDE / 88-91	SWH30375-0	81.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-525-0	81.00	TL:	65.40	PL:	57.00	CHK. DIA 9.00
	SWH30375-1	81.25		0.047		0.122				11-525-1	81.25	CH:	30.80	PD:	22.00	
	SWH30375-2	81.50	2nd:	1.500	X	3.200	TUC	DUCTILE IRON	PHOSPHATE	11-525-2	81.50	DIST1:	-2.10	Head:	NONE	
	SWH30375-3	81.75		0.059		0.126				11-525-3	81.75	DIST2:		Skirt:	NONE	
	SWH30375-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-525-4	82.00	DIST3:				
			0.110	0.110												
	REFERENCE # 13011-PK1-751	TOP	2ND	OIL					REFERENCE # 13101-PK2-660							



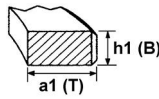
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (119CID,1958CC),SOHC,4CYL, 81.000MM (3.189"), B20A3 / 1988-1990													
PRELUDE / 88-90	SWH30375-0	81.00	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	11-524-0	81.00	TL: 65.20	PL: 62.00	9.00
	SWH30375-1	81.25							11-524-1	81.25	CH: 29.80	PD: 20.00	
	SWH30375-2	81.50	2nd: 1.500 0.059	X	3.200 0.126	TUC	DUCTILE IRON	PHOSPHATE	11-524-2	81.50	DIST1: -2.00	Head: NONE	
	SWH30375-3	81.75							11-524-3	81.75	DIST2:	Skirt: NONE	
	SWH30375-4	82.00	Oil: 2.800 0.110	X	2.800 0.110	NIFF-S	STEEL	NITRIDED	11-524-4	82.00	DIST3:		
REFERENCE # 13011-PK1-751	TOP	2ND	OIL	REFERENCE # 13101-PK1-010									
2.0L (120CID,1972CC),DOHC,4CYL, 84.000MM (3.307"), B20B4 / 1997-1998													
CR-V / 97-98	SWH30437-0	84.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-738-0	84.00	TL: 59.60	PL: 56.50	15.00
	SWH30437-1	84.25							11-738-1	84.25	CH: 29.60	PD: 21.00	
	SWH30437-2	84.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-738-2	84.50	DIST1: -4.10	Head: NONE	
	SWH30437-3	84.75							11-738-3	84.75	DIST2:	Skirt: NONE	
	SWH30437-4	85.00	Oil: 2.800 0.110	X	2.600 0.102	NIFF-S	STEEL	CHROME	11-738-4	85.00	DIST3:		
REFERENCE # 13011-P3F-003 13011-PHK-003	TOP	2ND	OIL	REFERENCE # 13010-P3F-000									
2.0L (120CID,1972CC),DOHC,4CYL, 84.000MM (3.307"), B20Z2 / 1999-2001													
CR-V / 99-01	SWH30437-0	84.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-799-0	84.00	TL: 59.60	PL: 56.50	15.00
	SWH30437-1	84.25							11-799-1	84.25	CH: 29.60	PD: 21.00	
	SWH30437-2	84.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-799-2	84.50	DIST1: -0.70	Head: NONE	
	SWH30437-3	84.75							11-799-3	84.75	DIST2:	Skirt: NONE	
	SWH30437-4	85.00	Oil: 2.800 0.110	X	2.600 0.102	NIFF-S	STEEL	CHROME	11-799-4	85.00	DIST3:		
REFERENCE # 13011-P3F-003 13011-PHK-003	TOP	2ND	OIL	REFERENCE # 13010-PHK-000									
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), K20A1, 3 / 2002-2005													
CIVIC Si / 02-05	SWH30454-0	86.00	Top: 1.200 0.047	X	2.900 0.114	BF	STEEL	CHROME	11-866-0	86.00	TL: 54.00	PL: 52.20	5.00
	SWH30454-1	86.25							11-866-1	86.25	CH: 29.50	PD: 21.97	
	SWH30454-2	86.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-866-2	86.50	DIST1: 2.50	Head: NONE	
	SWH30454-3	86.75							11-866-3	86.75	DIST2: -2.40	Skirt: MS	
	SWH30454-4	87.00	Oil: 2.000 0.079	X	2.500 0.098	NIFF-H	STEEL	NITRIDED	11-866-4	87.00	DIST3:		
REFERENCE # 13011-PNE-G02 13011-PRA-E02	TOP	2ND	OIL	REFERENCE # 13010-PNC-000 13010-PNC-010									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), K20Z3 / 2006-2011																
CIVIC Si / 06-11	SWH30454-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-882-0	86.00	TL:	55.80	PL:	52.50	CHK. DIA 10.00
	SWH30454-1	86.25		0.047		0.114				11-882-1	86.25	CH:	30.00	PD:	21.97	
	SWH30454-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-882-2	86.50	DIST1:	3.80	Head:	NONE	
	SWH30454-3	86.75		0.047		0.134				11-882-3	86.75	DIST2:		Skirt:	MS	
	SWH30454-4	87.00		Oil:	2.000	X				2.500	NIFF-H	STEEL	NITRIDED	11-882-4	87.00	DIST3:
	REFERENCE # 13011-PNE-G02 13011-PRA-E02		TOP		2ND		OIL			REFERENCE # 13010-PRB-A01						
2.1L (125CID,2056CC),DOHC,4CYL, 83.00MM (3.268"), B21A1 / 1990-1991																
PRELUDE / 90-91	SWH30448-0	83.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-726-0	83.00	TL:	65.40	PL:	56.00	CHK. DIA 16.00
	SWH30448-1	83.25		0.047		0.120				11-726-1	83.25	CH:	30.90	PD:	22.00	
	SWH30448-2	83.50	2nd:	1.200	X	3.100	T1	CAST IRON	CHROME	11-726-2	83.50	DIST1:	-0.80	Head:	NONE	
	SWH30448-3	83.75		0.047		0.122				11-726-3	83.75	DIST2:		Skirt:	NONE	
	SWH30448-4	84.00		Oil:	2.800	X				2.800	NIFF-S	STEEL	NITRIDED	11-726-4	84.00	DIST3:
	REFERENCE # 13011-PK3-A04		TOP		2ND		OIL			REFERENCE # 13101-PK3-A01						
2.2L (132CID,2156CC),SOHC,4CYL, 85.00MM (3.346"), F22A1 / 1992-1996																
PRELUDE / 92-96	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30383-1	85.25		0.047		0.120										
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE							
	SWH30383-3	85.75		0.047		0.134										
	SWH30383-4	86.00		Oil:	2.800	X										2.850
	REFERENCE # 13011-P0A-004 13011-P0A-A04 5-86202-103-0		TOP		2ND		OIL									
2.2L (132CID,2156CC),SOHC,4CYL, 85.00MM (3.346"), F22A1,F22A4,F22A6 / 1990-1993																
ACCORD / 90-93	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-678-0	85.00	TL:	65.30	PL:	57.00	CHK. DIA 20.00
	SWH30383-1	85.25		0.047		0.120				11-678-1	85.25	CH:	30.80	PD:	22.00	
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-678-2	85.50	DIST1:	-3.70	Head:	NONE	
	SWH30383-3	85.75		0.047		0.134				11-678-3	85.75	DIST2:		Skirt:	NONE	
	SWH30383-4	86.00		Oil:	2.800	X				2.850	NIFF-S	STEEL	CHROME	11-678-4	86.00	DIST3:
	REFERENCE # 13011-P0A-004 13011-P0A-A04 5-86202-103-0		TOP		2ND		OIL			REFERENCE # 13101-PT3-A01 13101-PT6-A00						



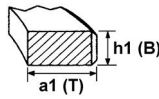
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), F22B1,F22B2,F22B6 / 1994-1997																						
ACCORD / 94-97 ODYSSEY / 95-97	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-751-0	85.00	TL:	65.00	PL:	57.00	CHK. DIA 14.00						
	SWH30383-1	85.25		0.047		0.120				11-751-1	85.25	CH:	30.50	PD:	22.00							
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-751-2	85.50	DIST1:	-3.80	Head:	NONE							
	SWH30383-3	85.75		0.047		0.134				11-751-3	85.75	DIST2:		Skirt:	NONE							
	SWH30383-4	86.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-751-4	86.00	DIST3:										
		0.110	0.112																			
REFERENCE # 13011-POA-004 13011-POA-A04 5-86202-103-0		TOP	2ND	OIL			REFERENCE # 13010-POA-010 5-86202-102-0															
2.2L (132CID,2157CC),DOHC,4CYL, 87.000MM (3.425"), H22A1 / 1993-1996																						
PRELUDE / 93-96	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-739-0	87.00	TL:	61.00	PL:	57.00	CHK. DIA 7.00						
	SWH30433-1	87.25		0.047		0.122				11-739-1	87.25	CH:	31.00	PD:	22.00							
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-739-2	87.50	DIST1:	0.90	Head:	NONE							
	SWH30433-3	87.75		0.047		0.126				11-739-3	87.75	DIST2:	-5.50	Skirt:	NONE							
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-739-4	88.00	DIST3:	-3.00									
		0.110	0.100																			
REFERENCE # 13011-P13-004 13011-P5M-003		TOP	2ND	OIL			REFERENCE # 13010-P13-A00															
2.2L (132CID,2157CC),DOHC,4CYL, 87.000MM (3.425"), H22A4 / 1997-2001																						
PRELUDE / 97-01	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-741-0	87.00	TL:	61.80	PL:	57.00	CHK. DIA 7.00						
	SWH30433-1	87.25		0.047		0.122				11-741-1	87.25	CH:	31.00	PD:	21.97							
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-741-2	87.50	DIST1:	0.80	Head:	NONE							
	SWH30433-3	87.75		0.047		0.126				11-741-3	87.75	DIST2:		Skirt:	NONE							
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-741-4	88.00	DIST3:										
		0.110	0.100																			
REFERENCE # 13011-P13-004 13011-P5M-003		TOP	2ND	OIL			REFERENCE # 13010-P5M-A00															
2.3L (137CID,2253CC),SOHC,4CYL, 86.000MM (3.386"), F23A7 / 1998-1998																						
ODYSSEY / 98-98	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
	SWH30443-1	86.25		0.047		0.114											11-741-1	86.25	CH:	31.00	PD:	21.97
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE								11-741-2	86.50	DIST1:	0.80	Head:	NONE
	SWH30443-3	86.75		0.047		0.134											11-741-3	86.75	DIST2:		Skirt:	NONE
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME								11-741-4	87.00	DIST3:			
		0.110	0.112																			
REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0		TOP	2ND	OIL																		



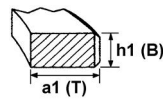
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.3L (138CID,2254CC),SOHC,4CYL, 86.000MM (3.386"), F23A1,F23A4 / 1998-2002																
ACCORD / 98-02	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-781-0	86.00	TL:	51.50	PL:	54.00	CHK. DIA 16.00
	SWH30443-1	86.25		0.047		0.114				11-781-1	86.25	CH:	30.02	PD:	21.97	
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-781-2	86.50	DIST1:	-2.40	Head:	NONE	
	SWH30443-3	86.75		0.047		0.134				11-781-3	86.75	DIST2:	-4.80	Skirt:	NONE	
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-781-4	87.00	DIST3:	-3.20			
		0.110	0.112													
	REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0	TOP	2ND	OIL	REFERENCE # 13010-PAA-A00											
2.3L (138CID,2254CC),SOHC,4CYL, 86.000MM (3.386"), F23A5 / 1998-2002																
ACCORD / 98-02	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	DISC-11-784-0	86.00					
	SWH30443-1	86.25		0.047		0.114				DISC-11-784-1	86.25					
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-784-2	86.50					
	SWH30443-3	86.75		0.047		0.134				DISC-11-784-3	86.75					
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-784-4	87.00					
		0.110	0.112													
	REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0	TOP	2ND	OIL	REFERENCE # 13010-PAB-A00											
2.3L (138CID,2259CC),DOHC,4CYL, 87.000MM (3.425"), H23A1 / 1992-1996																
PRELUDE / 92-96	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-740-0	87.00	TL:	60.50	PL:	60.00	CHK. DIA 11.00
	SWH30433-1	87.25		0.047		0.122				11-740-1	87.25	CH:	30.60	PD:	22.00	
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-740-2	87.50	DIST1:	-2.30	Head:	NONE	
	SWH30433-3	87.75		0.047		0.126				11-740-3	87.75	DIST2:	-3.20	Skirt:	NONE	
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-740-4	88.00	DIST3:	-3.00			
		0.110	0.100													
	REFERENCE # 13011-P13-004 13011-P5M-003	TOP	2ND	OIL	REFERENCE # 13010-P14-A00											
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A2, 3, 4, 8 / 2003-2010																
ACCORD / 03-07 ELEMENT / 03-10	SWH30466-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-834-0	87.00	TL:	56.60	PL:	52.00	CHK. DIA 11.00
	SWH30466-1	87.25		0.047		0.122				11-834-1	87.25	CH:	29.50	PD:	21.97	
	SWH30466-2	87.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-834-2	87.50	DIST1:	3.10	Head:	NONE	
	SWH30466-3	87.75		0.047		0.134				11-834-3	87.75	DIST2:		Skirt:	MS	
	SWH30466-4	88.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-834-4	88.00	DIST3:				
		0.079	0.096													
	REFERENCE # 13010-RAA-A00 13011-PZD-004 13011-RAA-A00 13011-RAA-A01	TOP	2ND	OIL	REFERENCE # 13010-RAA-A00 13010-RAA-A01											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A3 / 2002-2006													
CR-V / 02-06	SWH30466-0	87.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	CHROME	11-833-0	87.00	TL: 53.60	PL: 52.00	CHK. DIA 11.00
	SWH30466-1	87.25							11-833-1	87.25	CH: 29.60	PD: 21.97	
	SWH30466-2	87.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE	11-833-2	87.50	DIST1: -2.60	Head: NONE	
	SWH30466-3	87.75							11-833-3	87.75	DIST2:	Skirt: MS	
	SWH30466-4	88.00	Oil: 2.000 0.079	X	2.450 0.096	NIFF-H	STEEL	CHROME	11-833-4	88.00	DIST3:		
REFERENCE # 13010-RAA-A00 13011-PZD-004 13011-RAA-A00 13011-RAA-A01	TOP	2ND	OIL	REFERENCE # 13010-PPA-000									
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24Z1,K24Z2, 3 / 2007-2012													
ACCORD / 08-12 ACCORD CROSSTOUR / 10-12 CR-V / 07-09	SWH30488-0	87.00	Top: 1.200 0.047	X	2.650 0.104	BF-IB	STEEL	CHROME	11-905-0	87.00	TL: 57.40	PL: 52.00	CHK. DIA 10.00
	SWH30488-1	87.25							11-905-1	87.25	CH: 28.80	PD: 21.97	
	SWH30488-2	87.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	DUCTILE IRON	CHROME	11-905-2	87.50	DIST1: 4.20	Head: NONE	
	SWH30488-3	87.75							11-905-3	87.75	DIST2:	Skirt: MS	
	SWH30488-4	88.00	Oil: 2.000 0.079	X	2.500 0.098	NIFF-H	STEEL	CHROME	11-905-4	88.00	DIST3:		
REFERENCE # 13011-R40-A12 13011-R44-A01	TOP	2ND	OIL	REFERENCE # 13010-R40-A00									
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24Z6,K24Z7 / 2010-2015													
CIVIC Si / 12-15 CR-V / 10-14	SWH30488-0	87.00	Top: 1.200 0.047	X	2.650 0.104	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWH30488-1	87.25											
	SWH30488-2	87.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	DUCTILE IRON	CHROME					
	SWH30488-3	87.75											
	SWH30488-4	88.00	Oil: 2.000 0.079	X	2.500 0.098	NIFF-H	STEEL	CHROME					
REFERENCE # 13011-R40-A12 13011-R44-A01	TOP	2ND	OIL										
2.4L (144CID,2356CC),DOHC,4CYL, 87.000MM (3.425"), K24W1, 2, 3 / 2013-2017													
ACCORD / 13-17 ACCORD CROSSTOUR / 13-17	SWH30488-0	87.00	Top: 1.200 0.047	X	2.650 0.104	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWH30488-1	87.25											
	SWH30488-2	87.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	DUCTILE IRON	CHROME					
	SWH30488-3	87.75											
	SWH30488-4	88.00	Oil: 2.000 0.079	X	2.500 0.098	NIFF-H	STEEL	CHROME					
REFERENCE # 13011-R40-A12 13011-R44-A01	TOP	2ND	OIL										

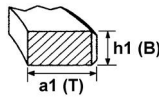


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1994-1996																	
PASSPORT / 94-96	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-559-0	92.60	TL:	79.00	PL:	72.00	CHK. DIA 25.00	
	SWI10144-1	92.85		0.059		0.130				11-559-1	92.85	CH:	36.50	PD:	23.00		
	SWI10144-2	93.10	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-559-2	93.10	DIST1:	-4.50	Head:	NONE		
	SWI10144-3	93.35		0.059		0.157				11-559-3	93.35	DIST2:		Skirt:	NONE		
	SWI10144-4	93.60		4.000		3.050				11-559-4	93.60	DIST3:					
		Oil:	0.157	0.120	NIFF-S	STEEL	NITRIDED										
	REFERENCE # 8-94405-614-0 8-94405-614-2 8-97037-801-1	TOP	2ND	OIL					REFERENCE # 8-97037-801-1								
2.7L (163CID,2675CC),SOHC,6CYL, 87.000MM (3.425"), C27A4 / 1995-1997																	
ACCORD / 95-97	SWH30370-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	DISC-11-783-0	87.00						
	SWH30370-1	87.25		0.047		0.122				DISC-11-783-1	87.25						
	SWH30370-2	87.50	2nd:	1.200	X	3.500	T1-IB	CAST IRON	PHOSPHATE	DISC-11-783-2	87.50						
	SWH30370-3	87.75		0.047		0.138				DISC-11-783-3	87.75						
	SWH30370-4	88.00		4.000		3.150				DISC-11-783-4	88.00						
		Oil:	0.157	0.124	NIFF-S	STEEL	CHROME										
	REFERENCE # 13011-P0G-A01 13011-P0G-A02	TOP	2ND	OIL					REFERENCE # 13010-P0G-A00 13101-PL2-000								
3.0L (183CID,2997CC),SOHC,6CYL, 86.000MM (3.386"), J30A1 / 1998-2002																	
ACCORD / 98-02	SWH30432-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-791-0	86.00	TL:	51.50	PL:	54.00	CHK. DIA 15.00	
	SWH30432-1	86.25		0.047		0.114				11-791-1	86.25	CH:	30.00	PD:	22.00		
	SWH30432-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-791-2	86.50	DIST1:	-0.80	Head:	NONE		
	SWH30432-3	86.75		0.047		0.134				11-791-3	86.75	DIST2:		Skirt:	NONE		
	SWH30432-4	87.00		2.800		2.850				11-791-4	87.00	DIST3:					
		Oil:	0.110	0.112	NIFF-S	STEEL	CHROME										
	REFERENCE # 13011-P8A-A01 13011-RCA-A01	TOP	2ND	OIL					REFERENCE # 13010-P8A-000 13010-P8A-A00								
3.0L (183CID,2997CC),SOHC,6CYL, 86.000MM (3.386"), J30A4, 5,JNA1 / 2003-2007																	
ACCORD / 03-07 ACCORD HYBRID / 05-07	SWH30432-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-832-0	86.00	TL:	52.20	PL:	54.00	CHK. DIA 7.00	
	SWH30432-1	86.25		0.047		0.114				11-832-1	86.25	CH:	30.00	PD:	21.97		
	SWH30432-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-832-2	86.50	DIST1:	0.70	Head:	NONE		
	SWH30432-3	86.75		0.047		0.134				11-832-3	86.75	DIST2:		Skirt:	MS		
	SWH30432-4	87.00		2.800		2.850				11-832-4	87.00	DIST3:					
		Oil:	0.110	0.112	NIFF-S	STEEL	CHROME										
	REFERENCE # 13011-P8A-A01 13011-RCA-A01	TOP	2ND	OIL					REFERENCE # 13010-RCA-A00								



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.2L (193CID,3165CC),SOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1994-1997													
PASSPORT / 94-97	SWI10185-0	93.40	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	11-686-0	93.40	TL: 65.20	PL: 66.00	CHK. DIA 10.00
	SWI10185-1	93.65							11-686-1	93.65	CH: 31.70	PD: 22.00	
	SWI10185-2	93.90	2nd: 1.500 0.059	X	4.000 0.157	TUC	CAST IRON	PHOSPHATE	11-686-2	93.90	DIST1:	Head: NONE	
	SWI10185-3	94.15							11-686-3	94.15	DIST2:	Skirt: NONE	
	SWI10185-4	94.40	Oil: 4.000 0.157	X	3.150 0.124	NIFF-S	STEEL	CHROME	11-686-4	94.40	DIST3:		
REFERENCE # 8-97162-198-0	TOP	2ND	OIL	REFERENCE # 8-94374-965-1									
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A1 / 1999-2002													
ODYSSEY / 99-02	SWH30438-0	89.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-835-0	89.00	TL: 51.50	PL: 54.00	CHK. DIA 7.00
	SWH30438-1	89.25							11-835-1	89.25	CH: 30.00	PD: 21.97	
	SWH30438-2	89.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-835-2	89.50	DIST1: -2.40	Head: NONE	
	SWH30438-3	89.75							11-835-3	89.75	DIST2:	Skirt: MS	
	SWH30438-4	90.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-835-4	90.00	DIST3:		
REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	TOP	2ND	OIL	REFERENCE # 13010-P8F-A00									
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A4, J35A6, J35A7, J35A9, J35Z1 / 2003-2010													
ODYSSEY / 03-10 PILOT / 03-08 RIDGELINE / 06-08	SWH30438-0	89.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-836-0	89.00	TL: 51.50	PL: 54.00	CHK. DIA 7.00
	SWH30438-1	89.25							11-836-1	89.25	CH: 30.00	PD: 21.97	
	SWH30438-2	89.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-836-2	89.50	DIST1: -1.20	Head: NONE	
	SWH30438-3	89.75							11-836-3	89.75	DIST2:	Skirt: MS	
	SWH30438-4	90.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-836-4	90.00	DIST3:		
REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	TOP	2ND	OIL	REFERENCE # 13010-PGK-A01 13010-RDA-A00 13010-RGL-A00 13010-RGM-A00 13101-RGL-100									

HONDA



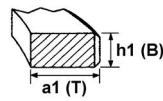
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35Y1,J35Y2,J35Z4,J35Z5,J35Z8 / 2009-2017															
ACCORD / 13-17	SWH30438-0	89.00	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ACCORD CROSSTOUR / 13-17	SWH30438-1	89.25	0.047		0.120										
ODYSSEY / 11-16	SWH30438-2	89.50	1.200	X	3.400	T1	CAST IRON	PHOSPHATE							
PILOT / 12-15	SWH30438-3	89.75	0.047		0.134										
RIDGELINE / 09-14	SWH30438-4	90.00	2.800	X	2.850	NIFF-S	STEEL	CHROME							
	REFERENCE #		TOP	2ND	OIL										
	13011-5G0-A01														
	13011-P8F-A01														
	13011-PGE-A01														
	13011-R70-A02														
	13011-RJA-004														
	13021-R70-A01														
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35Z2, 3,J35Z4 / 2008-2012															
ACCORD / 08-12	SWH30438-0	89.00	1.200	X	3.050	BF	STEEL	CHROME	11-906-0	89.00	TL:	51.30	PL:	54.00	CHK.
ACCORD CROSSTOUR / 10-12	SWH30438-1	89.25	0.047		0.120				11-906-1	89.25	CH:	29.40	PD:	21.97	DIA
PILOT / 09-11	SWH30438-2	89.50	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-906-2	89.50	DIST1:	-0.30	Head:	NONE	15.00
	SWH30438-3	89.75	0.047		0.134				11-906-3	89.75	DIST2:		Skirt:	MS	
	SWH30438-4	90.00	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-906-4	90.00	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	13011-5G0-A01								13010-R70-A00						
	13011-P8F-A01														
	13011-PGE-A01														
	13011-R70-A02														
	13011-RJA-004														
	13021-R70-A01														

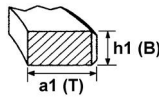
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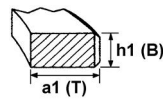
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
1.5L (90CID,1468CC),DOHC,4CYL, 75.500MM (2.972"), ALPHA G4EK / 1996-1997															
ACCENT / 96-97	SWG30019-0	75.50	1.200	X	2.850	BF	STEEL	CHROME	11-730-0	75.50	TL:	53.50	PL:	47.50	CHK.
	SWG30019-1	75.75	0.047		0.112				11-730-1	75.75	CH:	30.50	PD:	18.00	DIA
	SWG30019-2	76.00	1.500	X	3.100	T1	CAST IRON	PHOSPHATE	11-730-2	76.00	DIST1:	-4.10	Head:	NONE	10.00
	SWG30019-3	76.25	0.059		0.122				11-730-3	76.25	DIST2:		Skirt:	NONE	
	SWG30019-4	76.50	3.000	X	2.750	NIFF-S	STEEL	CHROME	11-730-4	76.50	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	23040-26001								23410-26012						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), ALPHA G4AE / 1993-1995 TURBO															
SCOUPE / 93-95	SWG30017-0	75.50	1.500	X	2.850	BF	STEEL	CHROME	11-742-0	75.50	TL:	54.40	PL:	47.30	CHK.
	SWG30017-1	75.75	0.059		0.112				11-742-1	75.75	CH:	31.40	PD:	18.00	DIA
	SWG30017-2	76.00	1.500	X	3.100	T1	CAST IRON	PHOSPHATE	11-742-2	76.00	DIST1:	-2.30	Head:	NONE	5.00
	SWG30017-3	76.25	0.059		0.122				11-742-3	76.25	DIST2:	-6.70	Skirt:	NONE	
	SWG30017-4	76.50	3.000	X	2.750	NIFF-S	STEEL	CHROME	11-742-4	76.50	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	23040-22010								23410-22110						
	23040-22601								23410-22160						



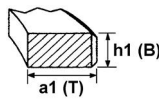
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), ALPHA G4AE / 1995-1999													
ACCENT / 95-99	SWG30017-0	75.50	Top: 1.500 0.059	X	2.850 0.112	BF	STEEL	CHROME	11-691-0	75.50	TL: 54.30	PL: 47.50	CHK. DIA 10.00
	SWG30017-1	75.75							11-691-1	75.75	CH: 31.40	PD: 18.00	
	SWG30017-2	76.00	2nd: 1.500 0.059	X	3.100 0.122	T1	CAST IRON	PHOSPHATE	11-691-2	76.00	DIST1: -0.70	Head: NONE	
	SWG30017-3	76.25							11-691-3	76.25	DIST2:	Skirt: NONE	
	SWG30017-4	76.50	Oil: 3.000 0.118	X	2.750 0.108	NIFF-S	STEEL	CHROME	11-691-4	76.50	DIST3:		
REFERENCE # 23040-22010 23040-22601	TOP	2ND	OIL	REFERENCE # 23410-22410									
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), ALPHA G4EB / 2000-2003													
ACCENT / 00-03	SWG30017-0	75.50	Top: 1.500 0.059	X	2.850 0.112	BF	STEEL	CHROME	11-837-0	75.50	TL: 53.70	PL: 47.50	CHK. DIA 10.00
	SWG30017-1	75.75							11-837-1	75.75	CH: 30.70	PD: 18.00	
	SWG30017-2	76.00	2nd: 1.500 0.059	X	3.100 0.122	T1	CAST IRON	PHOSPHATE	11-837-2	76.00	DIST1: -0.20	Head: NONE	
	SWG30017-3	76.25							11-837-3	76.25	DIST2:	Skirt: NONE	
	SWG30017-4	76.50	Oil: 3.000 0.118	X	2.750 0.108	NIFF-S	STEEL	CHROME	11-837-4	76.50	DIST3:		
REFERENCE # 23040-22010 23040-22601	TOP	2ND	OIL	REFERENCE # 23410-22612									
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G4DJ / 1986-1989													
EXCEL / 86-89	SWG30023-0	75.50	Top: 1.500 0.059	X	2.850 0.112	BF	STEEL	CHROME	11-529-0	75.50	TL: 58.00	PL: 60.00	CHK. DIA 7.00
	SWG30023-1	75.75							11-529-1	75.75	CH: 29.00	PD: 18.00	
	SWG30023-2	76.00	2nd: 1.500 0.059	X	3.300 0.130	T1	CAST IRON	PHOSPHATE	11-529-2	76.00	DIST1: -0.70	Head: NONE	
	SWG30023-3	76.25							11-529-3	76.25	DIST2:	Skirt: NONE	
	SWG30023-4	76.50	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-529-4	76.50	DIST3:		
REFERENCE # 23040-21210 23040-24200	TOP	2ND	OIL	REFERENCE # 23410-21114 MD074715									
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G4DJ / 1990-1994													
EXCEL / 90-94 SCOUPÉ / 91-93	SWG30023-0	75.50	Top: 1.500 0.059	X	2.850 0.112	BF	STEEL	CHROME	11-530-0	75.50	TL: 58.60	PL: 60.00	CHK. DIA 10.00
	SWG30023-1	75.75							11-530-1	75.75	CH: 29.40	PD: 18.00	
	SWG30023-2	76.00	2nd: 1.500 0.059	X	3.300 0.130	T1	CAST IRON	PHOSPHATE	11-530-2	76.00	DIST1: -3.60	Head: NONE	
	SWG30023-3	76.25							11-530-3	76.25	DIST2:	Skirt: NONE	
	SWG30023-4	76.50	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-530-4	76.50	DIST3:		
REFERENCE # 23040-21210 23040-24200	TOP	2ND	OIL	REFERENCE # 23410-24110 MD099770									



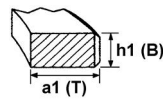
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1591CC),DOHC,4CYL, 77.00MM (3.031"), GAMMA G4FJ,GAMMA II 1.6L / 2011-2017																
ACCENT / 11-15	SWG30046-0	77.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SONATA / 15-16	SWG30046-1	77.25		0.047		0.112										
TUCSON / 15-17	SWG30046-2	77.50		2nd:	1.200	X	3.050	TUC	CAST IRON		PHOSPHATE					
VELOSTER / 12-16	SWG30046-3	77.75	0.047			0.120										
	SWG30046-4	78.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME							
	SWG30046-4	78.00	0.079		0.100											
	REFERENCE #	TOP	2ND	OIL												
	23040-2B000															
	23040-2B600															
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), SIRIUS G4CR / 1992-1995																
ELANTRA / 92-95	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-729-0	82.30	TL:	66.00	PL:	66.00	CHK.
	SWM31049-1	82.55		0.047		0.122				11-729-1	82.55	CH:	32.50	PD:	21.00	DIA
	SWM31049-2	82.80		2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-729-2	82.80	DIST1:	1.50	Head:	NONE
	SWM31049-3	83.05	0.059			0.150				11-729-3	83.05	DIST2:		Skirt:	NONE	
	SWM31049-4	83.30	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-729-4	83.30	DIST3:				
			0.118		0.112											
	REFERENCE #	TOP	2ND	OIL												
	23040-33030															
	MD133495															
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA G4ED / 2001-2005																
ACCENT / 01-05	SWG30030-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-819-0	76.50					
	SWG30030-1	76.75		0.047		0.112				DISC-11-819-1	76.75					
	SWG30030-2	77.00		2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-819-2	77.00				
	SWG30030-3	77.25	0.047			0.126				DISC-11-819-3	77.25					
	SWG30030-4	77.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-819-4	77.50					
			0.098		0.112											
	REFERENCE #	TOP	2ND	OIL												
	23040-26101															
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA II G4ED / 2006-2010																
ACCENT / 06-10	SWG30034-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30034-1	76.75		0.047		0.112										
	SWG30034-2	77.00		2nd:	1.200	X	3.200	TUC	CAST IRON							PHOSPHATE
	SWG30034-3	77.25	0.047			0.126										
	SWG30034-4	77.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED							
			0.079		0.098											
	REFERENCE #	TOP	2ND	OIL												
	23040-26120															
	23040-26160															



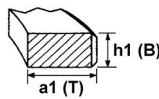
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), G4GB / 1997-1997														
TIBURON / 97-97	SWG30028-0	82.00	Top: 1.200 0.047	X	3.050 0.120	BF-IB	STEEL	CHROME	11-693-0	82.00	TL: 63.20	PL: 59.00	CHK. DIA 24.00	
	SWG30028-1	82.25							11-693-1	82.25	CH: 31.10	PD: 20.00		
	SWG30028-2	82.50	2nd: 1.200 0.047	X	3.500 0.138	T1	CAST IRON	PHOSPHATE	11-693-2	82.50	DIST1: 2.10	Head: NONE		
	SWG30028-3	82.75							11-693-3	82.75	DIST2:	Skirt: NONE		
	SWG30028-4	83.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-693-4	83.00	DIST3:			
REFERENCE # 23040-23000 23040-23200	TOP	2ND	OIL	REFERENCE # 23410-23010										
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), Nu 1.8L / 2011-2015														
ELANTRA / 11-15	SWG30059-0	81.00	Top: 1.000 0.039	X	2.700 0.106	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWG30059-1	81.25												
	SWG30059-2	81.50	2nd: 1.200 0.047	X	3.150 0.124	TUC-RB	CAST IRON	PHOSPHATE						
	SWG30059-3	81.75												
	SWG30059-4	82.00	Oil: 2.000 0.079	X	2.200 0.087	NIFF-H	STEEL	NITRIDED						
REFERENCE # 23040-2E000	TOP	2ND	OIL											
1.8L (112CID,1836CC),DOHC,4CYL, 81.500MM (3.209"), G4JN / 1993-1998														
ELANTRA / 93-98	SWM31058-0	81.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	11-690-0	81.50	TL: 67.00	PL: 66.00	CHK. DIA 20.00	
	SWM31058-1	81.75							11-690-1	81.75	CH: 35.00	PD: 21.00		
	SWM31058-2	82.00	2nd: 1.500 0.059	X	3.600 0.142	T1	CAST IRON	CHROME	11-690-2	82.00	DIST1: -1.00	Head: NONE		
	SWM31058-3	82.25							11-690-3	82.25	DIST2:	Skirt: NONE		
	SWM31058-4	82.50	Oil: 3.000 0.118	X	2.900 0.114	NIFF-S	STEEL	NITRIDED	11-690-4	82.50	DIST3:			
REFERENCE # 23040-33430	TOP	2ND	OIL	REFERENCE # 23410-33410										
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA G4GF / 1997-2001														
ELANTRA / 99-00 TIBURON / 97-01	SWG30028-0	82.00	Top: 1.200 0.047	X	3.050 0.120	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWG30028-1	82.25												
	SWG30028-2	82.50	2nd: 1.200 0.047	X	3.500 0.138	T1	CAST IRON	PHOSPHATE						
	SWG30028-3	82.75												
	SWG30028-4	83.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	CHROME						
REFERENCE # 23040-23000 23040-23200	TOP	2ND	OIL											



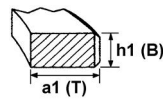
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA G4GF / 2001-2008																
ELANTRA / 01-05 TIBURON / 03-08	SWG30028-0	82.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-838-0	82.00	TL:	57.80	PL:	59.00	CHK.
	SWG30028-1	82.25		0.047		0.120				11-838-1	82.25	CH:	31.00	PD:	20.00	DIA
	SWG30028-2	82.50	2nd:	1.200	X	3.500	T1	CAST IRON	PHOSPHATE	11-838-2	82.50	DIST1:	0.30	Head:	NONE	10.00
	SWG30028-3	82.75		0.047		0.138				11-838-3	82.75	DIST2:		Skirt:	NONE	
	SWG30028-4	83.00		Oil:		2.500				2.850	11-838-4	83.00	DIST3:			
			0.098	0.112	NIFF-S	STEEL	CHROME									
	REFERENCE # 23040-23000 23040-23200	TOP	2ND	OIL	REFERENCE # 23410-23711											
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA II G4GF,BETA II G4JP / 2005-2010																
ELANTRA / 06-10 ELANTRA TOURING / 09-10 TUCSON / 05-09	SWG30054-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-901-0	82.00	TL:	57.90	PL:	59.00	CHK.
	SWG30054-1	82.25		0.047		0.112				11-901-1	82.25	CH:	31.10	PD:	20.00	DIA
	SWG30054-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE	11-901-2	82.50	DIST1:	0.30	Head:	NONE	5.00
	SWG30054-3	82.75		0.047		0.120				11-901-3	82.75	DIST2:		Skirt:	GS	
	SWG30054-4	83.00		Oil:		2.000				2.450	11-901-4	83.00	DIST3:			
			0.079	0.096	NIFF-H	STEEL	NITRIDED									
	REFERENCE # 23040-23300 23040-23400	TOP	2ND	OIL	REFERENCE # 23410-23300 23410-23AA0											
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), G4CP / 1992-1998																
SONATA / 92-98	SWG30027-0	85.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-692-0	85.00	TL:	67.00	PL:	66.00	CHK.
	SWG30027-1	85.25		0.047		0.122				11-692-1	85.25	CH:	35.00	PD:	21.00	DIA
	SWG30027-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-692-2	85.50	DIST1:	-2.10	Head:	NONE	10.00
	SWG30027-3	85.75		0.059		0.150				11-692-3	85.75	DIST2:		Skirt:	NONE	
	SWG30027-4	86.00		Oil:		3.000				2.550	11-692-4	86.00	DIST3:			
			0.118	0.100	NIFF-S	STEEL	NITRIDED									
	REFERENCE # 23040-33150	TOP	2ND	OIL	REFERENCE # 23410-33110											
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), THETA II,THETA II G4KD / 2010-2015																
GENESIS COUPE / 10-14 SANTA FE / 13-15 SONATA / 11-15 TUCSON / 11-13	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-909-0	86.00	TL:	53.00	PL:	58.00	CHK.
	SWG30042-1	86.25		0.047		0.120				11-909-1	86.25	CH:	29.70	PD:	22.00	DIA
	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-909-2	86.50	DIST1:	-0.40	Head:	AH	15.00
	SWG30042-3	86.75		0.047		0.142				11-909-3	86.75	DIST2:	-1.50	Skirt:	MS	
	SWG30042-4	87.00		Oil:		2.000				2.450	11-909-4	87.00	DIST3:	-3.10		
			0.079	0.096	NIFF-H	STEEL	CHROME									
	REFERENCE # 1110A436 23040-2C400 5191418AB	TOP	2ND	OIL	REFERENCE # 23410-2C400 5191337AA											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.0L (122CID,1999CC),DOHC,4CYL, 81.000MM (3.189"), Nu 2.0L / 2013-2017														
ELANTRA / 15-17	SWG30059-0	81.00	Top: 1.000 0.039	X	2.700 0.106	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
ELANTRA TOURING / 15-17	SWG30059-1	81.25												
TUCSON / 13-15	SWG30059-2	81.50	2nd: 1.200 0.047	X	3.150 0.124	TUC-RB	CAST IRON	PHOSPHATE						
	SWG30059-3	81.75												
	SWG30059-4	82.00	Oil: 2.000 0.079	X	2.200 0.087	NIFF-H	STEEL	NITRIDED						
REFERENCE # 23040-2E000		TOP	2ND	OIL										
2.4L (143CID,2350CC),DOHC,4CYL, 86.500MM (3.406"), SIRIUS II G4JS / 1999-2005														
SANTA FE / 01-04	SWG30047-0	86.50	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	CHROME	11-772-0	86.50	TL: 66.70	PL: 62.00	CHK. 62.00	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
SONATA / 99-05	SWG30047-1	86.75							2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	
	SWG30047-2	87.00	11-772-2	87.00	DIST1: -3.50	Head: NONE	NONE							
	SWG30047-3	87.25	11-772-3	87.25	DIST2:	Skirt: NONE	NONE							
	SWG30047-4	87.50	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME						
REFERENCE # 23040-38200 23040-38212		TOP	2ND	OIL					REFERENCE # 23410-38200 23411-38200					
2.4L (143CID,2350CC),DOHC,4CYL, 86.500MM (3.406"), SIRIUS II G4JS / 2006-2010														
SONATA / 06-10	SWG30047-0	86.50	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWG30047-1	86.75												
	SWG30047-2	87.00	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	PHOSPHATE						
	SWG30047-3	87.25												
	SWG30047-4	87.50	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME						
REFERENCE # 23040-38200 23040-38212		TOP	2ND	OIL										
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G4JS / 1989-1991														
SONATA / 89-91	SWG30024-0	86.50	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	11-538-0	86.50	TL: 72.40	PL: 72.00	CHK. 72.00	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG30024-1	86.75							2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	
	SWG30024-2	87.00	11-538-2	87.00	DIST1: 0.50	Head: NONE	NONE							
	SWG30024-3	87.25	11-538-3	87.25	DIST2: 0.30	Skirt: NONE	NONE							
	SWG30024-4	87.50	Oil: 4.000 0.157	X	3.300 0.130	NIFF-S	STEEL	CHROME						
REFERENCE # 23040-32610		TOP	2ND	OIL					REFERENCE # 23410-32610 MD105377					



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), THETA II G4KC / 2010-2015																
ELANTRA TOURING / 11-15 SANTA FE / 10-15	SWG30041-0	88.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30041-1	88.25		0.047		0.120										
	SWG30041-2	88.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG30041-3	88.75		0.047		0.142										
SWG30041-4	89.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME								
		0.079	0.096													
REFERENCE #	TOP	2ND	OIL													
1110A822																
23040-25200																
5191424AA																
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), THETA II G4KC,THETA II G4KH / 2010-2015																
SONATA / 11-15 SONATA HYBRID / 11-15 TUCSON / 10-15	SWG30041-0	88.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-908-0	88.00	TL:	51.50	PL:	58.00	CHK. DIA 15.00
	SWG30041-1	88.25		0.047		0.120					11-908-1	88.25	CH:	27.20	PD:	
	SWG30041-2	88.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-908-2	88.50	DIST1:	-1.50	Head:	NONE	
	SWG30041-3	88.75		0.047		0.142					11-908-3	88.75	DIST2:	-3.30	Skirt:	
SWG30041-4	89.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-908-4	89.00	DIST3:					
		0.079	0.096													
REFERENCE #	TOP	2ND	OIL				REFERENCE #									
1110A822							23410-25211									
23040-25200							5191340AA									
5191424AA																
2.7L (162CID,2656CC),DOHC,6CYL, 86.700MM (3.413"), DELTA 6GBA,DELTA G6BA / 2006-2009																
SANTA FE / 06-09 TIBURON / 07-08 TUCSON / 07-09	SWG30045-0	86.70	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-892-0	86.70	TL:	54.00	PL:	59.00	CHK. DIA 5.00
	SWG30045-1	86.95		0.047		0.120					11-892-1	86.95	CH:	30.50	PD:	
	SWG30045-2	87.20	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-892-2	87.20	DIST1:	-0.60	Head:	NONE	
	SWG30045-3	87.45		0.047		0.142					11-892-3	87.45	DIST2:		Skirt:	
SWG30045-4	87.70	Oil:	2.000	X	2.650	NIFF-H	STEEL	NITRIDED	11-892-4	87.70	DIST3:					
		0.079	0.104													
REFERENCE #	TOP	2ND	OIL				REFERENCE #									
23040-3E001							23410-3E001									
2.7L (162CID,2656CC),DOHC,6CYL, 86.700MM (3.413"), DELTA G6BA / 2001-2006																
SANTA FE / 01-05 SONATA / 03-05 TIBURON / 03-06 TUCSON / 05-06	SWG30037-0	86.70	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-862-0	86.70	TL:	54.00	PL:	60.00	CHK. DIA 6.00
	SWG30037-1	86.95		0.047		0.120					11-862-1	86.95	CH:	30.40	PD:	
	SWG30037-2	87.20	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-862-2	87.20	DIST1:	-0.80	Head:	NONE	
	SWG30037-3	87.45		0.047		0.142					11-862-3	87.45	DIST2:		Skirt:	
SWG30037-4	87.70	Oil:	2.500	X	2.900	NIFF-H	STEEL	CHROME	11-862-4	87.70	DIST3:					
		0.098	0.114													
REFERENCE #	TOP	2ND	OIL				REFERENCE #									
23040-37300							23410-37307									
							23410-37310									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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2.8L (170CID,2792CC),SOHC,6CYL, 91.100MM (3.587"), G6AT / 1990-1998

SONATA / 90-98	SWM31080-0	91.10	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-549-0	91.10	TL:	68.20	PL:	64.00	CHK. DIA
	SWM31080-1	91.35		0.059		0.128				11-549-1	91.35	CH:	32.20	PD:	22.00	
	SWM31080-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-549-2	91.60	DIST1:	-3.00	Head:	NONE	8.00
	SWM31080-3	91.85		0.059		0.150				11-549-3	91.85	DIST2:		Skirt:	NONE	
	SWM31080-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-549-4	92.10	DIST3:				
		0.157	0.128													
REFERENCE #		TOP	2ND	OIL			REFERENCE #									
23040-35010							23410-35114									
23040-35500							23410-35144									
MD104936							23410-35214									
MD104939							23410-35244									
							MD119671									
							MD152563									

3.3L (204CID,3342CC),DOHC,6CYL, 92.000MM (3.622"), LAMBDA G6DB,LAMBDA II G6DG / 2006-2017

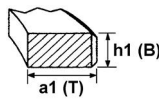
AZERA / 07-16 SANTA FE / 07-17 SONATA / 06-10	SWG30055-0	92.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30055-1	92.25		0.047		0.122										
	SWG30055-2	92.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWG30055-3	92.75		0.047		0.134										
SWG30055-4	93.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED								
		0.079	0.100													
REFERENCE #		TOP	2ND	OIL												
23040-3C150																

3.5L (212CID,3467CC),DOHC,6CYL, 93.000MM (3.661"), SIGMA G6AU / 2002-2006

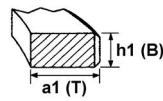
SANTA FE / 03-06 XG350 / 02-05	SWG30056-0	93.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30056-1	93.25		0.059		0.130										
	SWG30056-2	93.50	2nd:	1.500	X	3.900	TUC	CAST IRON	CHROME							
	SWG30056-3	93.75		0.059		0.154										
SWG30056-4	94.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED								
		0.118	0.112													
REFERENCE #		TOP	2ND	OIL												
23040-39800																

2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1991-1999

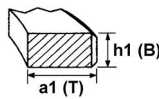
G20 / 91-99	SWN30102-0	86.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-602-0	86.00	TL:	63.00	PL:	60.00	CHK. DIA
	SWN30102-1	86.25		0.059		0.120				11-602-1	86.25	CH:	32.00	PD:	22.00	
	SWN30102-2	86.50	2nd:	1.500	X	3.650	T1	CAST IRON	CHROME	11-602-2	86.50	DIST1:	-0.90	Head:	NONE	10.00
	SWN30102-3	86.75		0.059		0.144				11-602-3	86.75	DIST2:		Skirt:	NONE	
	SWN30102-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-602-4	87.00	DIST3:				
		0.118	0.118													
REFERENCE #		TOP	2ND	OIL			REFERENCE #									
12033-53J01							A2010-63J00									
12033-53J10							A3020-63J00									



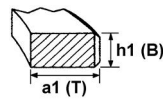
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 2000-2002																
G20 / 00-02	SWN30123-0	86.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30123-1	86.25		0.047		0.122										
	SWN30123-2	86.50	2nd:	1.200	X	3.700	T1	CAST IRON	CHROME							
	SWN30123-3	86.75		0.047		0.146										
	SWN30123-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED							
		0.098	0.112													
	REFERENCE # 12033-2J210 12033-4M802		TOP		2ND		OIL									
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DER / 2014-2015																
QX60 HYBRID / 14-15	SWN30189-0	89.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30189-1	89.25		0.047		0.114										
	SWN30189-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	PHOSPHATE							
	SWN30189-3	89.75		0.047		0.150										
	SWN30189-4	90.00	Oil:	2.000	X	2.250	NIFF-H	STEEL	NITRIDED							
		0.079	0.089													
	REFERENCE # 12033-ET80B 12033-JA00B 12033-JG30A		TOP		2ND		OIL									
3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VG30DE / 1993-1997																
J30 / 93-97	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-727-0	87.00	TL:	61.00	PL:	69.00	CHK.
	SWN30058-1	87.25		0.059		0.122				11-727-1	87.25	CH:	32.00	PD:	22.00	DIA
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-727-2	87.50	DIST1:	1.50	Head:	NONE	10.00
	SWN30058-3	87.75		0.059		0.150				11-727-3	87.75	DIST2:	-1.20	Skirt:	NONE	
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-727-4	88.00	DIST3:				
	AM Ring Available	0.110	0.118													
	REFERENCE # 12033-17V01 12033-21V01 12033-96E01 12033-F6511 F6XZ 6148 AA		TOP		2ND		OIL		REFERENCE # A2010-30P00							
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1990-1992																
M30 / 90-92	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-603-0	87.00	TL:	67.00	PL:	64.00	CHK.
	SWN30058-1	87.25		0.059		0.122				11-603-1	87.25	CH:	32.00	PD:	21.00	DIA
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-603-2	87.50	DIST1:		Head:	NONE	10.00
	SWN30058-3	87.75		0.059		0.150				11-603-3	87.75	DIST2:		Skirt:	NONE	
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-603-4	88.00	DIST3:				
	AM Ring Available	0.110	0.118													
	REFERENCE # 12033-17V01 12033-21V01 12033-96E01 12033-F6511 F6XZ 6148 AA		TOP		2ND		OIL		REFERENCE # 12010-21P61 12010-V7175 A2010-10G03 F7XZ 6108 AA							



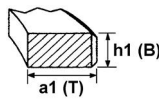
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.0L (182CID,2987CC),DOHC,6CYL, 93.000MM (3.661"), VQ30DE / 1996-2001														
I30 / 96-01	SWN30115-0	93.00	Top: 1.200 0.047	X	3.250 0.128	BF	STEEL	CHROME	11-711-0	93.00	TL: 58.30 CH: 30.20 DIST1: -0.40 DIST2: DIST3:	PL: 58.00 PD: 22.00 Head: AH Skirt: MS	58.00 22.00 AH MS	CHK. DIA 14.00
	SWN30115-1	93.25							11-711-1	93.25				
	SWN30115-2	93.50	2nd: 1.200 0.047	X	4.000 0.157	T1	CAST IRON	CHROME	11-711-2	93.50				
	SWN30115-3	93.75							11-711-3	93.75				
	SWN30115-4	94.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-711-4	94.00				
REFERENCE # 12033-2Y900 12033-2Y903 12033-38U01		TOP	2ND	OIL	REFERENCE # A2010-2Y900 A2010-2Y910 A2010-38U10 A2010-39U00									
3.3L (200CID,3272CC),SOHC,6CYL, 91.500MM (3.602"), VG33E / 1997-2000														
QX4 / 97-00	SWN30120-0	91.50	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-728-0	91.50	TL: 63.00 CH: 32.00 DIST1: -1.50 DIST2: DIST3:	PL: 60.00 PD: 20.98 Head: AH Skirt: NONE	60.00 20.98 AH NONE	CHK. DIA 11.00
	SWN30120-1	91.75							11-728-1	91.75				
	SWN30120-2	92.00	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	CHROME	11-728-2	92.00				
	SWN30120-3	92.25							11-728-3	92.25				
	SWN30120-4	92.50	Oil: 2.800 0.110	X	3.050 0.120	NIFF-S	STEEL	CHROME	11-728-4	92.50				
REFERENCE # 12033-0W000 12033-7B000 12033-7Z800 XF5Z 6148 AA		TOP	2ND	OIL	REFERENCE # A2010-1W200 A2010-1W261 A2010-5S600 A2010-5S661 A2010-5S700 A2010-5S761									
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2001-2008														
FX35 / 03-08 G35 / 03-07 QX4 / 01-03	SWN30131-0	95.50	Top: 1.200 0.047	X	3.450 0.136	BF	STEEL	CHROME	11-859-0	95.50	TL: 52.60 CH: 29.60 DIST1: DIST2: DIST3:	PL: 58.00 PD: 22.00 Head: AH Skirt: MS	58.00 22.00 AH MS	CHK. DIA 10.00
	SWN30131-1	95.75							11-859-1	95.75				
	SWN30131-2	96.00	2nd: 1.200 0.047	X	4.100 0.161	T1	CAST IRON	PHOSPHATE	11-859-2	96.00				
	SWN30131-3	96.25							11-859-3	96.25				
	SWN30131-4	96.50	Oil: 2.500 0.098	X	2.750 0.108	NIFF-S	STEEL	CHROME	11-859-4	96.50				
REFERENCE # 12033-4W001 12033-4W005 12033-8J100		TOP	2ND	OIL	REFERENCE # A2010-4W100									
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2002-2008														
I35 / 02-04 M35 / 06-08	SWN30131-0	95.50	Top: 1.200 0.047	X	3.450 0.136	BF	STEEL	CHROME	11-860-0	95.50	TL: 53.90 CH: 29.50 DIST1: 0.80 DIST2: DIST3:	PL: 58.00 PD: 22.00 Head: AH Skirt: MS	58.00 22.00 AH MS	CHK. DIA 6.00
	SWN30131-1	95.75							11-860-1	95.75				
	SWN30131-2	96.00	2nd: 1.200 0.047	X	4.100 0.161	T1	CAST IRON	PHOSPHATE	11-860-2	96.00				
	SWN30131-3	96.25							11-860-3	96.25				
	SWN30131-4	96.50	Oil: 2.500 0.098	X	2.750 0.108	NIFF-S	STEEL	CHROME	11-860-4	96.50				
REFERENCE # 12033-4W001 12033-4W005 12033-8J100		TOP	2ND	OIL	REFERENCE # A2010-7Y001 A2010-8J110									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2013-2015														
JX35 / 13-13 QX60 / 14-15	SWN30191-0 SWN30191-1 SWN30191-2 SWN30191-3 SWN30191-4	95.50 95.75 96.00 96.25 96.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	11-907-0 11-907-1 11-907-2 11-907-3 11-907-4	95.50 95.75 96.00 96.25 96.50	TL: 49.60 CH: 29.00 DIST1: -2.20 DIST2: DIST3:	PL: 54.00 PD: 22.00 Head: AH Skirt: MS	54.00 22.00 10.00	CHK. DIA 10.00
	REFERENCE # 12033-JA10D 12033-JP00A 12033-JP10D 12035-1EA0B	TOP 2ND OIL							REFERENCE # 12010-9N00B 12010-9N00C A2010-JA10A A2010-JA11B A2010-JP00C A2010-JP00D					
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35HR / 2007-2017														
EX35 / 09-12 FX35 / 09-11 G35 / 07-08 M35 / 09-10 Q50 HYBRID / 14-17 Q70 HYBRID / 14-17 QX70 HYBRID / 14-17	SWN30162-0 SWN30162-1 SWN30162-2 SWN30162-3 SWN30162-4	95.50 95.75 96.00 96.25 96.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>					
			2nd: 1.200 0.047	X	3.700 0.146	TUC	CAST IRON	PHOSPHATE						
			Oil: 2.000 0.079	X	2.600 0.102	NIFF-H	STEEL	NITRIDED						
	REFERENCE # 12033-JK20A 12033-JK20B 12033-JK20C	TOP 2ND OIL												
3.7L (226CID,3696CC),DOHC,6CYL, 95.500MM (3.760"), VQ37VHR / 2008-2013														
EX37 / 13-13 G37 / 08-12 M37 / 11-13	SWN30162-0 SWN30162-1 SWN30162-2 SWN30162-3 SWN30162-4	95.50 95.75 96.00 96.25 96.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>					
			2nd: 1.200 0.047	X	3.700 0.146	TUC	CAST IRON	PHOSPHATE						
			Oil: 2.000 0.079	X	2.600 0.102	NIFF-H	STEEL	NITRIDED						
	REFERENCE # 12033-JK20A 12033-JK20B 12033-JK20C	TOP 2ND OIL												
3.7L (226CID,3696CC),DOHC,6CYL, 95.500MM (3.760"), VQ37VHR / 2013-2015														
G37 / 13-13 Q50 / 14-15 Q60 / 14-15 Q70 / 14-15 QX50 / 14-15 QX70 / 14-15	SWN30191-0 SWN30191-1 SWN30191-2 SWN30191-3 SWN30191-4	95.50 95.75 96.00 96.25 96.50	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>					
			2nd: 1.200 0.047	X	4.100 0.161	TUC	CAST IRON	PHOSPHATE						
			Oil: 2.000 0.079	X	2.600 0.102	NIFF-H	STEEL	NITRIDED						
	REFERENCE # 12033-JA10D 12033-JP00A 12033-JP10D 12035-1EA0B	TOP 2ND OIL												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
4.1L (252CID,4130CC),DOHC,8CYL, 93.000MM (3.661"), VH41DE / 1997-2001																	
Q45 / 97-01	SWN30117-0	93.00	Top:	1.500	X	3.350	BF	STEEL	TIN	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30117-1	93.25		0.059		0.132											
	SWN30117-2	93.50	2nd:	1.500	X	4.100	T1	CAST IRON	PHOSPHATE								
	SWN30117-3	93.75		0.059		0.161											
	SWN30117-4	94.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME								
		0.110		0.118													
	REFERENCE # 12033-60U02 12033-60U10		TOP	2ND	OIL												
4.5L (274CID,4494CC),DOHC,8CYL, 93.000MM (3.661"), VH45DE / 1990-1996																	
Q45 / 90-96	SWN30117-0	93.00	Top:	1.500	X	3.350	BF	STEEL	TIN		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30117-1	93.25		0.059		0.132											
	SWN30117-2	93.50	2nd:	1.500	X	4.100	T1	CAST IRON	PHOSPHATE								
	SWN30117-3	93.75		0.059		0.161											
	SWN30117-4	94.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME								
		0.110		0.118													
	REFERENCE # 12033-60U02 12033-60U10		TOP	2ND	OIL												
5.0L (307CID,5026CC),DOHC,8CYL, 95.500MM (3.760"), VK50VE / 2009-2015																	
FX50 / 09-13 QX70 / 14-15	SWN30184-0	95.50	Top:	1.200	X	3.150	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30184-1	95.75		0.047		0.124											
	SWN30184-2	96.00	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE								
	SWN30184-3	96.25		0.047		0.146											
	SWN30184-4	96.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED								
		0.079		0.098													
	REFERENCE # 12033-1CA0A		TOP	2ND	OIL												
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56DE / 2004-2010																	
QX56 / 04-10	SWN30149-0	98.00	Top:	1.500	X	3.450	BF	STEEL	CHROME		11-879-0	98.00	TL:	52.00	PL:	59.60	CHK. DIA
	SWN30149-1	98.25		0.059		0.136							11-879-1	98.25	CH:	31.60	
	SWN30149-2	98.50	2nd:	1.500	X	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	Head:	AH	6.00	
	SWN30149-3	98.75		0.059		0.169						11-879-3	98.75	DIST2:			Skirt:
	SWN30149-4	99.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:					
		0.098		0.102													
	REFERENCE # 12033-7S001 12033-7S01B 12033-ZE00A		TOP	2ND	OIL	REFERENCE # A2010-7S000											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56VD / 2011-2015										
M56 / 11-13 Q70 / 14-15 QX56 / 11-13 QX80 / 14-15	SWN30177-0 SWN30177-1 SWN30177-2 SWN30177-3 SWN30177-4	98.00 98.25 98.50 98.75 99.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.500 0.098	X X X	3.150 0.124 4.300 0.169 2.500 0.098	BF TUC NIFF-H	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	REFERENCE # 12033-1MC0B	TOP 2ND OIL								

1.5L (90CID,1471CC),SOHC,4CYL, 77.000MM (3.031"), 4XC1 / 1985-1989										
I-MARK / 85-89	SWI10151-0 SWI10151-1 SWI10151-2 SWI10151-3 SWI10151-4	77.00 77.25 77.50 77.75 78.00	Top: 1.500 0.059 Oil: 2.800 0.110	X X	3.300 0.130 3.100 0.122	T1-IB NIFF-S	DUCTILE IRON STEEL	CHROME NITRIDED	DISC-11-564-0 DISC-11-564-1 DISC-11-564-2 DISC-11-564-3 DISC-11-564-4	77.00 77.25 77.50 77.75 78.00
	REFERENCE # 8-94141-947-0 94141947	TOP OIL							REFERENCE # 8-94141-426-0 8-94460-838-2	

1.5L (90CID,1471CC),SOHC,4CYL, 77.000MM (3.031"), 4XC1T / 1987-1989										
I-MARK / 87-89	SWI10153-0 SWI10153-1 SWI10153-2 SWI10153-3 SWI10153-4	77.00 77.25 77.50 77.75 78.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.800 0.110	X X X	2.900 0.114 3.500 0.138 3.100 0.122	BF T1-IB NIFF-S	STEEL CAST IRON STEEL	NITRIDED CHROME NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	REFERENCE # 8-94109-650-0 94109650	TOP 2ND OIL								

1.6L (97CID,1588CC),DOHC,4CYL, 80.000MM (3.150"), 4EW1W,4XE1W / 1989-1992										
I-MARK / 89-89 IMPULSE / 90-92 STYLUS / 91-92	SWI10149-0 SWI10149-1 SWI10149-2 SWI10149-3 SWI10149-4	80.00 80.25 80.50 80.75 81.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 3.000 0.118	X X X	3.100 0.122 3.300 0.130 2.500 0.098	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	DISC-11-557-0 DISC-11-557-1 DISC-11-557-2 DISC-11-557-3 DISC-11-557-4	80.00 80.25 80.50 80.75 81.00
	REFERENCE # 8-94331-660-0 8-94342-124-0 8-94370-434-0 8-97042-171-0 8-97402-171-0 94331660 94342124 94370434	TOP 2ND OIL							REFERENCE # 8-97066-886-0	



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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1.6L (97CID,1588CC),DOHC,4CYL, 80.000MM (3.150"), 4XE1W / 1991-1992

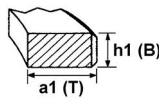
IMPULSE / 91-92	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWI10149-1	80.25		0.047		0.122				
	SWI10149-2	80.50	2nd:	1.200	3.300	T1	CAST IRON	PHOSPHATE		
SWI10149-3	80.75	0.047		0.130						
SWI10149-4	81.00	Oil:	3.000	2.500	NIFF-S	STEEL	CHROME			
			0.118	0.098						
	REFERENCE #		TOP	2ND	OIL					
	8-94331-660-0									
	8-94342-124-0									
	8-94370-434-0									
	8-97042-171-0									
	8-97402-171-0									
	94331660									
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	94370434									

1.6L (97CID,1588CC),SOHC,4CYL, 80.000MM (3.150"), 4XE1V / 1991-1993

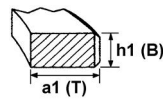
STYLUS / 91-93	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	DISC-11-556-0	80.00				
	SWI10149-1	80.25		0.047		0.122									
	SWI10149-2	80.50	2nd:	1.200	3.300	T1	CAST IRON	PHOSPHATE	DISC-11-556-2	80.50					
SWI10149-3	80.75	0.047		0.130	DISC-11-556-3				80.75						
SWI10149-4	81.00	Oil:	3.000	2.500	NIFF-S	STEEL	CHROME	DISC-11-556-4	81.00						
			0.118	0.098											
	REFERENCE #		TOP	2ND	OIL				REFERENCE #						
	8-94331-660-0								8-97066-885-0						
	8-94342-124-0														
	8-94370-434-0														
	8-97042-171-0														
	8-97402-171-0														
	94331660														
	94342124														
	94370434														

1.8L (110CID,1809CC),DOHC,4CYL, 80.000MM (3.150"), 4XF1 / 1992-1992

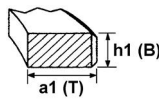
IMPULSE / 92-92 STYLUS / 92-92	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWI10149-1	80.25		0.047		0.122				
	SWI10149-2	80.50	2nd:	1.200	3.300	T1	CAST IRON	PHOSPHATE		
SWI10149-3	80.75	0.047		0.130						
SWI10149-4	81.00	Oil:	3.000	2.500	NIFF-S	STEEL	CHROME			
			0.118	0.098						
	REFERENCE #		TOP	2ND	OIL					
	8-94331-660-0									
	8-94342-124-0									
	8-94370-434-0									
	8-97042-171-0									
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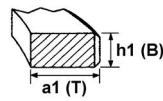
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
1.8L (111CID,1817CC),4CYL, 84.00MM (3.307"), 4FB1 / 1981-1984																			
I-MARK / 81-84	SDI10086-0	84.00	Top:	2.500	X	3.250	BF	STEEL	CHROME	DISC-11-015-0	84.00								
	SDI10086-1	84.25		0.098		0.128				DISC-11-015-1	84.25								
	SDI10086-2	84.50	2nd:	2.000	X	3.500	T1	CAST IRON	CHROME	DISC-11-015-2	84.50								
	SDI10086-3	84.75		0.079		0.138				DISC-11-015-3	84.75								
	SDI10086-4	85.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	DISC-11-015-4	85.00								
		0.157	0.171																
	REFERENCE # 8-94224-221-0 94224221	TOP	2ND	OIL		REFERENCE # 8-94228-886-2													
1.8L (111CID,1817CC),SOHC,4CYL, 84.00MM (3.307"), G180Z / 1981-1981																			
I-MARK / 81-81 PICKUP / 81-81	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	11-012-0	84.00	TL: 80.00 CH: 37.00 DIST1: -0.80 DIST2: DIST3:	PL: 66.00 PD: 22.00 Head: NONE Skirt: NONE	CHK. DIA 15.00					
	SWI10056-1	84.25		0.079		0.150				11-012-1	84.25								
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	11-012-2	84.50								
	SWI10056-3	84.75		0.079		0.157				11-012-3	84.75								
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	11-012-4	85.00								
		0.157	0.150																
	REFERENCE # 8-94216-640-0 94216641	TOP	2ND	OIL		REFERENCE # 8-94215-088-0													
1.8L (111CID,1817CC),SOHC,4CYL, 84.00MM (3.307"), G180Z / 1982-1984																			
I-MARK / 82-84 PICKUP / 82-82	SWI10098-0	84.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-013-0	84.00								
	SWI10098-1	84.25		0.059		0.138				DISC-11-013-1	84.25								
	SWI10098-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-013-2	84.50								
	SWI10098-3	84.75		0.059		0.150				DISC-11-013-3	84.75								
	SWI10098-4	85.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-013-4	85.00								
		0.157	0.128																
	REFERENCE # 8-94244-404-0	TOP	2ND	OIL		REFERENCE # 8-94238-475-0													
1.9L (119CID,1949CC),SOHC,4CYL, 87.00MM (3.425"), G200Z / 1983-1987																			
IMPULSE / 83-87	SWI10096-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-695-0	87.00								
	SWI10096-1	87.25		0.059		0.138				DISC-11-695-1	87.25								
	SWI10096-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-695-2	87.50								
	SWI10096-3	87.75		0.059		0.150				DISC-11-695-3	87.75								
	SWI10096-4	88.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-695-4	88.00								
		0.157	0.130																
	REFERENCE # 8-94438-086-0 94438086	TOP	2ND	OIL		REFERENCE # 8-94258-494-2													



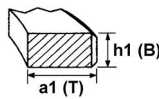
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.9L (119CID,1949CC),SOHC,4CYL, 87.000MM (3.425"), G200Z / 1983-1987													
PICKUP / 83-87 TROOPER II / 84-85	SWI10096-0	87.00	Top: 1.500 0.059	X	3.500 0.138	BF	STEEL	CHROME	11-016-0	87.00	TL: 80.00	PL: 77.00	CHK. DIA 10.00
	SWI10096-1	87.25							11-016-1	87.25	CH: 37.00	PD: 22.00	
	SWI10096-2	87.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-016-2	87.50	DIST1: Head: NONE	DIST2: Skirt: NONE	
	SWI10096-3	87.75							11-016-3	87.75			
	SWI10096-4	88.00	Oil: 4.000 0.157	X	3.300 0.130	NIFF-S	STEEL	CHROME	11-016-4	88.00	DIST3:		
REFERENCE # 8-94438-086-0 94438086	TOP	2ND	OIL	REFERENCE # 8-94237-469-2 94237469									
2.0L (122CID,1994CC),SOHC,4CYL, 88.000MM (3.465"), 4ZC1 / 1985-1989													
IMPULSE / 85-89	SWI10133-0	88.00	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	11-558-0	88.00	TL: 80.10	PL: 77.00	CHK. DIA 10.00
	SWI10133-1	88.25							11-558-1	88.25	CH: 37.00	PD: 22.00	
	SWI10133-2	88.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	11-558-2	88.50	DIST1: -2.00	Head: NONE	
	SWI10133-3	88.75							11-558-3	88.75	DIST2: Skirt: NONE		
	SWI10133-4	89.00	Oil: 4.000 0.157	X	3.300 0.130	NIFF-S	STEEL	CHROME	11-558-4	89.00	DIST3:		
REFERENCE # 8-94235-878-0	TOP	2ND	OIL	REFERENCE # 8-94143-151-3									
2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), RJ1,F22B6 / 1996-1997													
OASIS / 96-97	SWH30383-0	85.00	Top: 1.200 0.047	X	3.050 0.120	BF	STEEL	CHROME	11-751-0	85.00	TL: 65.00	PL: 57.00	CHK. DIA 14.00
	SWH30383-1	85.25							11-751-1	85.25	CH: 30.50	PD: 22.00	
	SWH30383-2	85.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE	11-751-2	85.50	DIST1: -3.80	Head: NONE	
	SWH30383-3	85.75							11-751-3	85.75	DIST2: Skirt: NONE		
	SWH30383-4	86.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-751-4	86.00	DIST3:		
REFERENCE # 13011-POA-004 13011-POA-A04 5-86202-103-0	TOP	2ND	OIL	REFERENCE # 13010-POA-010 5-86202-102-0									
2.2L (133CID,2180CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 1998-1999													
AMIGO / 98-99	SWI10205-0	86.00	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	11-747-0	86.00	TL: 55.50	PL: 61.50	CHK. DIA 10.00
	SWI10205-1	86.25							11-747-1	86.25	CH: 30.40	PD: 21.00	
	SWI10205-2	86.50	2nd: 1.500 0.059	X	3.500 0.138	TUC	CAST IRON	PHOSPHATE	11-747-2	86.50	DIST1: -7.50	Head: NONE	
	SWI10205-3	86.75							11-747-3	86.75	DIST2: Skirt: NONE		
	SWI10205-4	87.00	Oil: 3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-747-4	87.00	DIST3:		
REFERENCE # 8-92062-027-0	TOP	2ND	OIL	REFERENCE # 8-92062-910-0									



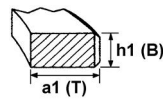
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (133CID,2180CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 2001-2003																
RODEO SPORT / 01-03	SWI10206-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-840-0	86.00	TL:	53.70	PL:	61.00	CHK. DIA
	SWI10206-1	86.25		0.047		0.106				11-840-1	86.25	CH:	27.60	PD:	21.00	
	SWI10206-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-840-2	86.50	DIST1:	1.20	Head:	NONE	
	SWI10206-3	86.75		0.059		0.138				11-840-3	86.75	DIST2:		Skirt:	NONE	
	SWI10206-4	87.00		Oil:		2.500				2.850	NIFF-S	STEEL	CHROME	11-840-4	87.00	DIST3:
	REFERENCE # 8-92065-115-0	TOP	2ND	OIL					REFERENCE # 8-92064-692-0							
2.2L (134CID,2197CC),SOHC,4CYL, 89.000MM (3.504"), GM122 / 1996-2000																
HOMBRE / 96-00	SWI10195-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10195-1	89.25		0.059		0.159										
	SWI10195-2	89.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWI10195-3	89.75		0.059		0.142										
	SWI10195-4	90.00		Oil:		3.000										
	REFERENCE # 12363179 8-12363-179-0	TOP	2ND	OIL												
2.2L (134CID,2198CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 1998-2000																
RODEO / 98-00	SWI10205-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-747-0	86.00	TL:	55.50	PL:	61.50	CHK. DIA
	SWI10205-1	86.25		0.059		0.136				11-747-1	86.25	CH:	30.40	PD:	21.00	
	SWI10205-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-747-2	86.50	DIST1:	-7.50	Head:	NONE	
	SWI10205-3	86.75		0.059		0.138				11-747-3	86.75	DIST2:		Skirt:	NONE	
	SWI10205-4	87.00		Oil:		3.000				2.850	NIFF-S	STEEL	CHROME	11-747-4	87.00	DIST3:
	REFERENCE # 8-92062-027-0	TOP	2ND	OIL					REFERENCE # 8-92062-910-0							
2.2L (134CID,2198CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 2001-2003																
RODEO / 01-03	SWI10206-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-840-0	86.00	TL:	53.70	PL:	61.00	CHK. DIA
	SWI10206-1	86.25		0.047		0.106				11-840-1	86.25	CH:	27.60	PD:	21.00	
	SWI10206-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-840-2	86.50	DIST1:	1.20	Head:	NONE	
	SWI10206-3	86.75		0.059		0.138				11-840-3	86.75	DIST2:		Skirt:	NONE	
	SWI10206-4	87.00		Oil:		2.500				2.850	NIFF-S	STEEL	CHROME	11-840-4	87.00	DIST3:
	REFERENCE # 8-92065-115-0	TOP	2ND	OIL					REFERENCE # 8-92064-692-0							



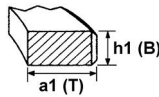
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223 / 1981-1982															
PICKUP / 81-82	SJI10089-0	88.00	Top: 2.500 0.098	X	4.000 0.157	BF	DUCTILE IRON	CHROME	DISC-11-017-0	88.00					
	SJI10089-1	88.25							DISC-11-017-1	88.25					
	SJI10089-2	88.50	2nd: 2.000 0.079	X	4.000 0.157	TUC	CAST IRON	CHROME	DISC-11-017-2	88.50					
	SJI10089-3	88.75							DISC-11-017-3	88.75					
	SJI10089-4	89.00	Oil: 4.500 0.177	X	4.700 0.185	E-BC3	CAST IRON	CHROME	DISC-11-017-4	89.00					
REFERENCE # 8-94100-355-0 94250730	TOP	2ND	OIL	REFERENCE # 5-12111-212-0											
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223 / 1983-1987															
PICKUP / 83-87 TROOPER II / 86-87	SDI10101-0	88.00	Top: 2.000 0.079	X	3.250 0.128	BF	STEEL	CHROME	11-696-0	88.00	TL: 82.40 CH: 47.60 DIST1: -2.60 DIST2: DIST3:	PL: 68.00 PD: 27.00 Head: NONE Skirt: NONE	CHK. DIA		
	SDI10101-1	88.25							11-696-1	88.25					
	SDI10101-2	88.50	2nd: 2.000 0.079	X	3.550 0.140	TUC	CAST IRON	CHROME	11-696-2	88.50					
	SDI10101-3	88.75							11-696-3	88.75					
	SDI10101-4	89.00	Oil: 4.000 0.157	X	4.350 0.171	E-BC16	STEEL	NITRIDED	11-696-4	89.00					
REFERENCE # 8-94250-730-0	TOP	2ND	OIL	REFERENCE # 8-94250-729-0											
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223T / 1986-1987 TURBO															
PICKUP / 86-87 TROOPER II / 87-87	SJI10111-0	88.00	Top: 2.500 0.098	X	4.000 0.157	BF	DUCTILE IRON	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>						
	SJI10111-1	88.25													
	SJI10111-2	88.50	2nd: 2.000 0.079	X	3.550 0.140	TUC	CAST IRON	CHROME							
	SJI10111-3	88.75													
	SJI10111-4	89.00	Oil: 4.000 0.157	X	4.000 0.157	E-BC3	CAST IRON	CHROME							
REFERENCE # 8-94158-084-0	TOP	2ND	OIL												
2.3L (137CID,2253CC),SOHC,4CYL, 86.000MM (3.386"), F23A7 / 1998-1999															
OASIS / 98-99	SWH30443-0	86.00	Top: 1.200 0.047	X	2.900 0.114	BF	STEEL	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>						
	SWH30443-1	86.25													
	SWH30443-2	86.50	2nd: 1.200 0.047	X	3.400 0.134	T1	CAST IRON	PHOSPHATE							
	SWH30443-3	86.75													
	SWH30443-4	87.00	Oil: 2.800 0.110	X	2.850 0.112	NIFF-S	STEEL	CHROME							
REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0	TOP	2ND	OIL												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.3L (138CID,2254CC),SOHC,4CYL, 89.300MM (3.516"), 4ZD1 / 1986-1995																
AMIGO / 89-93	SWI10123-0	89.30	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-554-0	89.30	TL:	81.00	PL:	77.00	CHK.
IMPULSE / 88-89	SWI10123-1	89.55		0.059	0.130	0.130				23.00	DIA					
PICKUP / 89-95	SWI10123-2	89.80	2nd:	1.500	X	3.800	T1	DUCTILE IRON	CHROME	11-554-2	89.80	DIST1:	-5.20	Head:	NONE	30.00
TROOPER II / 86-87	SWI10123-3	90.05		0.059	0.150	0.150				NONE						
	SWI10123-4	90.30	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-554-3	90.05	DIST2:		Skirt:	NONE	
			0.157	0.120	0.120	11-554-4				90.30	DIST3:					
	REFERENCE # 8-94153-966-2	TOP	2ND	OIL	REFERENCE # 8-94438-625-2 8-94439-301-2											
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1988-1992																
AMIGO / 89-92	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-555-0	92.60	TL:	79.00	PL:	72.00	CHK.
PICKUP / 88-92	SWI10144-1	92.85		0.059	0.130	0.130				23.00	DIA					
RODEO / 91-92	SWI10144-2	93.10	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-555-2	93.10	DIST1:	-1.40	Head:	NONE	25.00
TROOPER / 89-91	SWI10144-3	93.35		0.059	0.157	0.157				11-555-3	93.35	DIST2:		Skirt:	NONE	
TROOPER II / 88-88	SWI10144-4	93.60	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-555-4	93.60	DIST3:				
			0.157	0.120	0.120	11-555-4				93.60	DIST3:					
	REFERENCE # 8-94405-614-0 8-94405-614-2 8-97037-801-1	TOP	2ND	OIL	REFERENCE # 8-94163-189-3											
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1993-1997																
AMIGO / 93-94	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-559-0	92.60	TL:	79.00	PL:	72.00	CHK.
PICKUP / 93-95	SWI10144-1	92.85		0.059	0.130	0.130				23.00	DIA					
RODEO / 93-97	SWI10144-2	93.10	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-559-2	93.10	DIST1:	-4.50	Head:	NONE	25.00
	SWI10144-3	93.35		0.059	0.157	0.157				11-559-3	93.35	DIST2:		Skirt:	NONE	
	SWI10144-4	93.60	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-559-4	93.60	DIST3:				
			0.157	0.120	0.120	11-559-4				93.60	DIST3:					
	REFERENCE # 8-94405-614-0 8-94405-614-2 8-97037-801-1	TOP	2ND	OIL	REFERENCE # 8-97037-801-1											
2.8L (173CID,2827CC),OHV,6CYL, 89.000MM (3.504"), LL2 / 1989-1991																
TROOPER / 89-91	SWI10154-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10154-1	89.25		0.059	0.159	0.159										
	SWI10154-2	89.50	2nd:	2.000	X	4.050	T1-RC	CAST IRON	PHOSPHATE							
	SWI10154-3	89.75		0.079	0.159	0.159										
	SWI10154-4	90.00	Oil:	4.760	X	3.900	NIFF-S	STEEL	CHROME							
			0.187	0.154	0.154											
	REFERENCE # 14059051 14089059 8-14089-059-0	TOP	2ND	OIL												



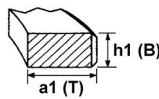
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO		
2.9L (178CID,2921CC),DOHC,4CYL, 95.500MM (3.760"), Vortec 2900 LLV / 2007-2008												
i-290 / 07-08	SWG10037-0	95.50	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWG10037-1	95.75		0.047		0.130						
	SWG10037-2	96.00	2nd:	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE			
	SWG10037-3	96.25		0.059		0.146						
	SWG10037-4	96.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME			
		0.098		0.112								
	REFERENCE # 89018219		TOP	2ND	OIL							
3.0L (183CID,2999CC),DOHC,4CYL, 95.400MM (3.756"), 4JJ1-TC / 2011-2015												
NPR ECO-MAX / 11-15	SDI10215-0	95.40	Top:	2.000	X	3.450	BF-K2	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDI10215-1	95.65		0.079		0.136						
	SDI10215-2	95.90	2nd:	2.000	X	4.400	T1-IC	CAST IRON	CHROME			
	SDI10215-3	96.15		0.079		0.173						
	SDI10215-4	96.40	Oil:	3.000	X	3.000	E-BC16	STEEL	NITRIDED			
		0.118		0.118								
	REFERENCE # 8-98053-579-0		TOP	2ND	OIL							
3.0L (183CID,2999CC),DOHC,4CYL, 95.400MM (3.756"), 4JJ1-TC / 2011-2015 TURBO												
NPR ECO-MAX / 11-15	SDI10210-0	95.40	Top:	2.000	X	3.450	BF-K2	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SDI10210-1	95.65		0.079		0.136						
	SDI10210-2	95.90	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE			
	SDI10210-3	96.15		0.059		0.157						
	SDI10210-4	96.40	Oil:	3.000	X	3.000	E-BC16	STEEL	NITRIDED			
		0.118		0.118								
	REFERENCE # 8-97388-734-0		TOP	2ND	OIL							
3.1L (191CID,3137CC),OHV,6CYL, 89.000MM (3.504"), CPC / 1991-1994												
PICKUP / 91-94 RODEO / 91-92	SWI10155-0	89.00	Top:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE		DISC-11-569-0	89.00
	SWI10155-1	89.25		0.059		0.146						
	SWI10155-2	89.50	2nd:	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE	DISC-11-569-2	89.50	
	SWI10155-3	89.75		0.059		0.142						DISC-11-569-3
	SWI10155-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	DISC-11-569-4	90.00	
		0.157		0.126								
	REFERENCE # 10181330 8-10181-330-0 F6DZ 6148 RA F6DZ 6148 RA* ZZCA-11-100		TOP	2ND	OIL				REFERENCE # 10070145 8-10070-145-0			



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.2L (193CID,3165CC),DOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1992-2003																
AMIGO / 98-00	SWI10185-0	93.40	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
RODEO SPORT / 01-03	SWI10185-1	93.65		0.059		0.136										
TROOPER / 92-95	SWI10185-2	93.90	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWI10185-3	94.15		0.059		0.157										
	SWI10185-4	94.40		Oil:	4.000	X	3.150	NIFF-S	STEEL		CHROME					
	SWI10185-4	94.40	Oil:	0.157		0.124										
	REFERENCE # 8-97162-198-0		TOP	2ND	OIL											
3.2L (193CID,3165CC),SOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1992-1997																
RODEO / 93-97	SWI10185-0	93.40	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-686-0	93.40	TL:	65.20	PL:	66.00	CHK.
TROOPER / 92-97	SWI10185-1	93.65		0.059		0.136				11-686-1	93.65	CH:	31.70	PD:	22.00	DIA
	SWI10185-2	93.90	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	11-686-2	93.90	DIST1:		Head:	NONE	10.00
	SWI10185-3	94.15		0.059		0.157				11-686-3	94.15	DIST2:		Skirt:	NONE	
SWI10185-4	94.40	Oil:		4.000	X	3.150	NIFF-S	STEEL	CHROME	11-686-4	94.40	DIST3:				
	SWI10185-4	94.40	Oil:	0.157		0.124										
	REFERENCE # 8-97162-198-0		TOP	2ND	OIL				REFERENCE # 8-94374-965-1							
3.5L (213CID,3494CC),DOHC,6CYL, 93.400MM (3.677"), 6VE1 / 1998-1998																
TROOPER / 98-98	SWI10191-0	93.40	Top:	1.500	X	3.250	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10191-1	93.65		0.059		0.128										
	SWI10191-2	93.90	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE							
	SWI10191-3	94.15		0.059		0.157										
SWI10191-4	94.40	Oil:		3.000	X	2.850	NIFF-S	STEEL	CHROME							
	SWI10191-4	94.40	Oil:	0.118		0.112										
	REFERENCE # 8-97136-135-0		TOP	2ND	OIL											
3.5L (213CID,3494CC),DOHC,6CYL, 93.400MM (3.677"), 6VE1 / 1999-2004																
AXIOM / 02-04	SWI10191-0	93.40	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-793-0	93.40	TL:	52.70	PL:	66.00	CHK.
TROOPER / 99-02	SWI10191-1	93.65		0.059		0.128				11-793-1	93.65	CH:	29.70	PD:	22.00	DIA
	SWI10191-2	93.90	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE	11-793-2	93.90	DIST1:	-3.00	Head:	NONE	15.00
	SWI10191-3	94.15		0.059		0.157				11-793-3	94.15	DIST2:		Skirt:	NONE	
VehiCROSS / 99-01	SWI10191-4	94.40		Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-793-4	94.40	DIST3:			
	SWI10191-4	94.40	Oil:	0.118		0.112										
	REFERENCE # 8-97136-135-0		TOP	2ND	OIL				REFERENCE # 8-97136-315-3 8-97163-315-3							



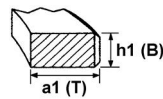
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.5L (213CID,3494CC),DOHC,6CYL, 93.400MM (3.677"), 6VE1 / 2004-2004													
RODEO / 04-04	SWI10191-0	93.40	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-764-0	TL: 57.00 CH: 33.70 DIST1: -1.90 DIST2: DIST3:	PL: 66.00 PD: 22.00 Head: NONE Skirt: NONE	CHK. DIA 10.00	
	SWI10191-1	93.65							11-764-1				93.65
	SWI10191-2	93.90	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	PHOSPHATE	11-764-2				93.90
	SWI10191-3	94.15							11-764-3				94.15
	SWI10191-4	94.40	Oil: 3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-764-4				94.40
REFERENCE # 8-97136-135-0	TOP	2ND	OIL	REFERENCE # 8-97172-674-0									
3.7L (223CID,3653CC),DOHC,5CYL, 95.500MM (3.760"), Vortec 3700 LLR / 2007-2008													
i-370 / 07-08	SWG10036-0	95.50	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWG10036-1	95.75										11-764-1	95.75
	SWG10036-2	96.00	2nd: 1.500 0.059	X	3.700 0.146	TUC	CAST IRON	PHOSPHATE				11-764-2	96.00
	SWG10036-3	96.25										11-764-3	96.25
	SWG10036-4	96.50	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	CHROME				11-764-4	96.50
REFERENCE # 8-89018-219-0 89018219	TOP	2ND	OIL										
4.3L (262CID,4293CC),OHV,6CYL, 101.600MM (4.000"), Vortec 4300 LF6 / 1997-2000													
HOMBRE / 97-00	SWI10196-0	89.00	Top: 1.500 0.059	X	3.650 0.144	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWI10196-1	89.25										11-764-1	89.25
	SWI10196-2	89.50	2nd: 1.500 0.059	X	4.200 0.165	TUC	CAST IRON	PHOSPHATE				11-764-2	89.50
	SWI10196-3	89.75										11-764-3	89.75
	SWI10196-4	90.00	Oil: 3.000 0.118	X	3.350 0.132	NIFF-S	STEEL	CHROME				11-764-4	90.00
REFERENCE # 12522848 8-12522-848-0	TOP	2ND	OIL										
5.2L (317CID,5193CC),SOHC,4CYL, 115.000MM (4.528"), 4HK1-TC / 2005-2015													
NPR - HD DSL / 05-15 NQR / 05-15 NRR / 05-15	SDI10207-0	115.00	Top: 2.948 0.116	X	4.150 0.163	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDI10207-1	115.25										11-764-1	115.25
	SDI10207-2	115.50	2nd: 2.000 0.079	X	4.300 0.169	T1-IB	STEEL	NITRIDED				11-764-2	115.50
	SDI10207-3	115.75										11-764-3	115.75
	SDI10207-4	116.00	3rd: 2.500 0.098	X	4.800 0.189	TUC	CAST IRON	CHROME				11-764-4	116.00
REFERENCE # 8-98017-166-0	TOP	2ND	3RD	OIL									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.3L (325CID,5328CC), OHV, 8CYL, 96.000MM (3.780"), Vortec 5300 III / 2003-2004																
ASCENDER / 03-04	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-829-0	96.00	TL:	64.80	PL:	72.00	CHK.
	SWG10005-1	96.25		0.059		0.130				11-829-1	96.25	CH:	33.70	PD:	24.00	
	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-829-2	96.50	DIST1:	-1.70	Head:	NONE	
	SWG10005-3	96.75		0.059		0.157				11-829-3	96.75	DIST2:		Skirt:	MS	
	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-829-4	97.00	DIST3:				
AM Ring Available		0.118	0.126													
REFERENCE #		TOP	2ND	OIL			REFERENCE #									
12456338							8-88894-397-0									
19208677							88894397									
8-12456-338-0																
5.3L (325CID,5328CC), OHV, 8CYL, 96.000MM (3.780"), Vortec 5300 III / 2005-2006																
ASCENDER / 05-06	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10005-1	96.25		0.059		0.130										
	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE							
	SWG10005-3	96.75		0.059		0.157										
	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED							
AM Ring Available		0.118	0.126													
REFERENCE #		TOP	2ND	OIL			REFERENCE #									
12456338							8-88894-397-0									
19208677							88894397									
8-12456-338-0																
6.0L (364CID,5957CC), OHV, 8CYL, 101.600MM (4.000"), Vortec 6000 L96 / 2012-2015																
NPR - GAS / 12-15	SWG10031-0	101.60	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-889-0	101.60	TL:	57.90	PL:	65.00	CHK.
	SWG10031-1	101.85		0.047		0.138				11-889-1	101.85	CH:	33.90	PD:	23.96	
	SWG10031-2	102.10	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-889-2	102.10	DIST1:	-1.40	Head:	NONE	
	SWG10031-3	102.35		0.059		0.165				11-889-3	102.35	DIST2:		Skirt:	MS	
	SWG10031-4	102.60	Oil:	2.500	X	2.550	NIFF-H	STEEL	CHROME	11-889-4	102.60	DIST3:				
		0.098	0.100													
REFERENCE #		TOP	2ND	OIL			REFERENCE #									
19178307							8-89017-849-0									
8-89017-484-0							89017849									
89017484																

2.0L (122.0 CID, 1,999.0 CC), DOHC, 4CYL, 87.500mm (3.445"), EcoBoost 20T / 2013-2018 TURBO															
XF / 13-18	SWF30023-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWF30023-1	87.75		0.047		0.114									
	SWF30023-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE						
	SWF30023-3	88.25		0.047		0.134									
	SWF30023-4	88.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED						
		0.079	0.098												
REFERENCE #		TOP	2ND	OIL			REFERENCE #								
AG9Z 6148 A							8-89017-849-0								
CM5Z 6148 AB							89017849								
EJ7E 6148 AA															

JAGUAR



JAGUAR

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 2002-2008										
S-TYPE / 07-08 X-TYPE / 02-08	SWF30021-0 SWF30021-1 SWF30021-2 SWF30021-3 SWF30021-4	89.00 89.25 89.50 89.75 90.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.500 0.098	X X X	3.500 0.138 4.100 0.161 2.850 0.112	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
REFERENCE #	AL8Z 6148 A C2C005449 XW4Z 6148 A YF1Z 6148 BA	TOP	2ND	OIL						

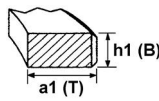
KIA

KIA

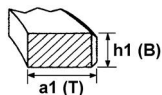
1.5L (91CID,1493CC),DOHC,4CYL, 75.500MM (2.972"), DC / 2001-2002													
RIO / 01-02 RIO CINCO / 01-02	SWK30019-0 SWK30019-1 SWK30019-2 SWK30019-3 SWK30019-4	75.50 75.75 76.00 76.25 76.50	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.500 0.098	X X X	2.850 0.112 3.300 0.130 2.800 0.110	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-773-0 11-773-1 11-773-2 11-773-3 11-773-4	75.50 75.75 76.00 76.25 76.50	TL: 51.30 CH: 28.30 DIST1: -2.30 DIST2: DIST3:	PL: 52.00 PD: 19.98 Head: NONE Skirt: NONE	CHK. DIA 18.00
REFERENCE #	K3Y2-11-SCO	TOP	2ND	OIL				REFERENCE #	K3Y2-11-SAO				

1.6L (97CID,1591CC),DOHC,4CYL, 77.000MM (3.031"), GAMMA 1.6L, GAMMA G4FJ / 2010-2016										
FORTE 5 / 14-15 FORTE KOUP / 14-15 OPTIMA / 16-16 RIO / 12-15 Soul / 10-15	SWG30046-0 SWG30046-1 SWG30046-2 SWG30046-3 SWG30046-4	77.00 77.25 77.50 77.75 78.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.000 0.079	X X X	2.850 0.112 3.050 0.120 2.550 0.100	BF-IB TUC NIFF-H	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
REFERENCE #	23040-2B000 23040-2B600	TOP	2ND	OIL						

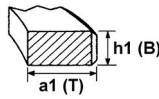
1.6L (97CID,1597CC),DOHC,4CYL, 78.000MM (3.071"), B6 / 1995-1997										
Sephia / 95-97	SWK30020-0 SWK30020-1 SWK30020-2 SWK30020-3 SWK30020-4	78.00 78.25 78.50 78.75 79.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X	3.050 0.120 3.400 0.134 3.050 0.120	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
REFERENCE #	K2YA-11-SCO	TOP	2ND	OIL						



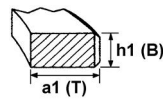
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6 / 1994-1995																
Sephia / 94-95	SWK30020-0	78.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-786-0	78.00					
	SWK30020-1	78.25		0.059		0.120							DISC-11-786-1	78.25		
	SWK30020-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-786-2	78.50					
	SWK30020-3	78.75		0.059		0.134							DISC-11-786-3	78.75		
	SWK30020-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-786-4	79.00					
		0.157	0.120													
	REFERENCE # K2YA-11-SCO	TOP	2ND	OIL					REFERENCE # B6Y3-11-SA0A K2Y3-11-SAO							
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA G4ED,ALPHA II G4ED / 2003-2005																
RIO / 03-05 RIO CINCO / 03-05	SWG30030-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-819-0	76.50					
	SWG30030-1	76.75		0.047		0.112							DISC-11-819-1	76.75		
	SWG30030-2	77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-819-2	77.00					
	SWG30030-3	77.25		0.047		0.126							DISC-11-819-3	77.25		
	SWG30030-4	77.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-819-4	77.50					
		0.098	0.112													
	REFERENCE # 23040-26101	TOP	2ND	OIL					REFERENCE # 23410-26121 23410-26212							
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA II G4ED / 2006-2011																
RIO / 06-11 RIO 5 / 06-11	SWG30034-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30034-1	76.75		0.047		0.112										
	SWG30034-2	77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE							
	SWG30034-3	77.25		0.047		0.126										
	SWG30034-4	77.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED							
		0.079	0.098													
	REFERENCE # 23040-26120 23040-26160	TOP	2ND	OIL												
1.8L (109CID,1793CC),DOHC,4CYL, 81.000MM (3.189"), FB / 2000-2004																
Spectra / 00-04	SWG30040-0	81.00	Top:	1.200	X	3.300	BF-IB	STEEL	CHROME	11-841-0	81.00	TL:	50.30	PL:	58.00	CHK. DIA 10.00
	SWG30040-1	81.25		0.047		0.130							11-841-1	81.25	CH:	
	SWG30040-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-841-2	81.50	DIST1:	-2.60	Head:	NONE	
	SWG30040-3	81.75		0.047		0.134							11-841-3	81.75	DIST2:	
	SWG30040-4	82.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-841-4	82.00	DIST3:				
		0.098	0.112													
	REFERENCE # 23040-2Y000	TOP	2ND	OIL					REFERENCE # 23410-2Y010							



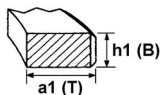
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), Nu 1.8L / 2014-2015																	
FORTE / 14-15	SWG30059-0	81.00	Top:	1.000	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWG30059-1	81.25		0.039		0.106											
	SWG30059-2	81.50	2nd:	1.200	X	3.150	TUC-RB	CAST IRON	PHOSPHATE								
	SWG30059-3	81.75		0.047		0.124											
	SWG30059-4	82.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED								
		0.079		0.087													
	REFERENCE # 23040-2E000		TOP		2ND		OIL										
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP / 1995-2000																	
Sephia / 95-00	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED		11-703-0	83.00	TL:	61.50	PL:	70.00	CHK. DIA 15.00
	SWT20066-1	83.25		0.059		0.130							11-703-1	83.25	CH:	30.60	
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-703-2	83.50	DIST1:	0.50	Head:	NONE		
	SWT20066-3	83.75		0.059		0.142						11-703-3	83.75	DIST2:		Skirt:	
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-703-4	84.00	DIST3:					
		0.118		0.110													
	REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A		TOP		2ND		OIL			REFERENCE # BPY1-11-SA0A BPY1-11-SAO							
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA G4GF / 2005-2008																	
Spectra5 / 05-08 SPORTAGE / 05-06	SWG30028-0	82.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-838-0	82.00	TL:	57.80	PL:	59.00	CHK. DIA 10.00	
	SWG30028-1	82.25		0.047		0.120						11-838-1	82.25	CH:	31.00		PD:
	SWG30028-2	82.50	2nd:	1.200	X	3.500	T1	CAST IRON	PHOSPHATE	11-838-2	82.50	DIST1:	0.30	Head:	NONE		
	SWG30028-3	82.75		0.047		0.138						11-838-3	82.75	DIST2:			Skirt:
	SWG30028-4	83.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-838-4	83.00	DIST3:					
		0.098		0.112													
	REFERENCE # 23040-23000 23040-23200		TOP		2ND		OIL			REFERENCE # 23410-23711							
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA II G4JP / 2007-2011																	
Soul / 10-11 Spectra / 07-09 Spectra5 / 09-09 SPORTAGE / 07-10	SWG30054-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-901-0	82.00	TL:	57.90	PL:	59.00	CHK. DIA 5.00	
	SWG30054-1	82.25		0.047		0.112						11-901-1	82.25	CH:	31.10		PD:
	SWG30054-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE	11-901-2	82.50	DIST1:	0.30	Head:	NONE		
	SWG30054-3	82.75		0.047		0.120						11-901-3	82.75	DIST2:			Skirt:
	SWG30054-4	83.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	NITRIDED	11-901-4	83.00	DIST3:					
		0.079		0.096													
	REFERENCE # 23040-23300 23040-23400		TOP		2ND		OIL			REFERENCE # 23410-23300 23410-23AA0							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO										
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), FED / 1995-2002																				
SPORTAGE / 95-02	SWK30022-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-699-0	86.00	TL:	71.00	PL:	71.50	CHK. DIA 18.00				
	SWK30022-1	86.25		0.059		0.130				11-699-1	86.25	CH:	36.00	PD:	22.00					
	SWK30022-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-699-2	86.50	DIST1:	-0.70	Head:	NONE					
	SWK30022-3	86.75		0.059		0.150				11-699-3	86.75	DIST2:	-5.50	Skirt:	NONE					
	SWK30022-4	87.00		Oil:		4.000				3.050	11-699-4	87.00	DIST3:							
	0.157	0.120																		
REFERENCE #	TOP	2ND	OIL	REFERENCE #																
KFY3-11-SCO				K9Y2-11-SAO																
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), THETA II / 2010-2015																				
FORTE / 10-13 FORTE KOUP / 11-13 OPTIMA / 11-15 SPORTAGE / 12-15	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-909-0	86.00	TL:	53.00	PL:	58.00	CHK. DIA 15.00				
	SWG30042-1	86.25		0.047		0.120				11-909-1	86.25	CH:	29.70	PD:	22.00					
	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-909-2	86.50	DIST1:	-0.40	Head:	AH					
	SWG30042-3	86.75		0.047		0.142				11-909-3	86.75	DIST2:	-1.50	Skirt:	MS					
	SWG30042-4	87.00		Oil:		2.000				2.450	11-909-4	87.00	DIST3:	-3.10						
		0.079	0.096																	
REFERENCE #	TOP	2ND	OIL	REFERENCE #																
1110A436 23040-2C400 5191418AB				23410-2C400 5191337AA																
2.0L (122CID,1998CC),SOHC,4CYL, 86.000MM (3.386"), FE / 1995-1995																				
SPORTAGE / 95-95	SWK30022-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-129-0	86.00	TL:	70.80	PL:	67.00	CHK. DIA 10.00				
	SWK30022-1	86.25		0.059		0.130				11-129-1	86.25	CH:	34.00	PD:	22.00					
	SWK30022-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-129-2	86.50	DIST1:	-2.60	Head:	NONE					
	SWK30022-3	86.75		0.059		0.150				11-129-3	86.75	DIST2:		Skirt:	NONE					
	SWK30022-4	87.00		Oil:		4.000				3.050	11-129-4	87.00	DIST3:							
		0.157	0.120																	
REFERENCE #	TOP	2ND	OIL	REFERENCE #																
KFY3-11-SCO				FE01-23-200 FEY0-11-SAO																
2.0L (122CID,1999CC),DOHC,4CYL, 81.000MM (3.189"), Nu 2.0L / 2012-2015																				
FORTE / 14-15 FORTE 5 / 14-15 FORTE KOUP / 14-15 Soul / 12-15	SWG30059-0	81.00	Top:	1.000	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.										
	SWG30059-1	81.25		0.039		0.106														
	SWG30059-2	81.50	2nd:	1.200	X	3.150	TUC-RB	CAST IRON	PHOSPHATE											
	SWG30059-3	81.75		0.047		0.124														
	SWG30059-4	82.00		Oil:		2.000										2.200				
		0.079	0.087																	
REFERENCE #	TOP	2ND	OIL																	
23040-2E000																				



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.4L (143CID,2350CC),DOHC,4CYL, 86.500MM (3.406"), SIRIUS II G4JS / 2001-2005														
OPTIMA / 01-05	SWG30047-0	86.50	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	CHROME	11-772-0	86.50	TL: 66.70	PL: 62.00	5.00	
	SWG30047-1	86.75							11-772-1	86.75	CH: 34.60	PD: 22.00		DIA
	SWG30047-2	87.00	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	PHOSPHATE	11-772-2	87.00	DIST1: -3.50	Head: NONE		
	SWG30047-3	87.25							11-772-3	87.25	DIST2:	Skirt: NONE		
	SWG30047-4	87.50	Oil: 2.800 0.110	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-772-4	87.50	DIST3:			
REFERENCE # 23040-38200 23040-38212		TOP	2ND	OIL	REFERENCE # 23410-38200 23411-38200									
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), THETA II G4KC / 2006-2015														
FORTE / 10-13 FORTE KOUP / 11-13 OPTIMA / 06-08 SORENTO / 11-15 SPORTAGE / 11-15	SWG30041-0	88.00	Top: 1.200 0.047	X	3.050 0.120	BF-IB	STEEL	CHROME	11-908-0	88.00	TL: 51.50	PL: 58.00	15.00	
	SWG30041-1	88.25							11-908-1	88.25	CH: 27.20	PD: 21.00		DIA
	SWG30041-2	88.50	2nd: 1.200 0.047	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-908-2	88.50	DIST1: -1.50	Head: NONE		
	SWG30041-3	88.75							11-908-3	88.75	DIST2: -3.30	Skirt: MS		
	SWG30041-4	89.00	Oil: 2.000 0.079	X	2.450 0.096	NIFF-H	STEEL	CHROME	11-908-4	89.00	DIST3:			
REFERENCE # 1110A822 23040-25200 5191424AA		TOP	2ND	OIL	REFERENCE # 23410-25211 5191340AA									
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), THETA II G4KC, THETA II G4KH / 2009-2015														
OPTIMA / 09-15 OPTIMA HYBRID / 11-15	SWG30041-0	88.00	Top: 1.200 0.047	X	3.050 0.120	BF-IB	STEEL	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>					
	SWG30041-1	88.25												
	SWG30041-2	88.50	2nd: 1.200 0.047	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE						
	SWG30041-3	88.75												
	SWG30041-4	89.00	Oil: 2.000 0.079	X	2.450 0.096	NIFF-H	STEEL	CHROME						
REFERENCE # 1110A822 23040-25200 5191424AA		TOP	2ND	OIL										
2.7L (162CID,2656CC),DOHC,6CYL, 86.700MM (3.413"), DELTA G6BA / 2002-2006														
OPTIMA / 02-06 SPORTAGE / 05-06	SWG30037-0	86.70	Top: 1.200 0.047	X	3.050 0.120	BF-IB	STEEL	CHROME	11-862-0	86.70	TL: 54.00	PL: 60.00	6.00	
	SWG30037-1	86.95							11-862-1	86.95	CH: 30.40	PD: 21.01		DIA
	SWG30037-2	87.20	2nd: 1.200 0.047	X	3.600 0.142	T1	CAST IRON	PHOSPHATE	11-862-2	87.20	DIST1: -0.80	Head: NONE		
	SWG30037-3	87.45							11-862-3	87.45	DIST2:	Skirt: NONE		
	SWG30037-4	87.70	Oil: 2.500 0.098	X	2.900 0.114	NIFF-H	STEEL	CHROME	11-862-4	87.70	DIST3:			
REFERENCE # 23040-37300		TOP	2ND	OIL	REFERENCE # 23410-37307 23410-37310									



KIA

KIA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.7L (162CID,2656CC),DOHC,6CYL, 86.700MM (3.413"), Mu G6A5 / 2006-2010													
OPTIMA / 06-10	SWG30045-0	86.70	Top: 1.200	X	3.050	BF-IB	STEEL	CHROME	11-892-0	86.70	TL: 54.00	PL: 59.00	CHK.
Rondo / 07-10	SWG30045-1	86.95	0.047		0.120				11-892-1	86.95	CH: 30.50	PD: 21.00	DIA
SPORTAGE / 07-10	SWG30045-2	87.20	2nd: 1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-892-2	87.20	DIST1: -0.60	Head: NONE	5.00
	SWG30045-3	87.45	0.047		0.142				11-892-3	87.45	DIST2:	Skirt: MS	
	SWG30045-4	87.70	Oil: 2.000	X	2.650	NIFF-H	STEEL	NITRIDED	11-892-4	87.70	DIST3:		
	REFERENCE # 23040-3E001		TOP		2ND		OIL		REFERENCE # 23410-3E001				

3.3L (204CID,3342CC),DOHC,6CYL, 92.000MM (3.622"), LAMBDA G6DB,LAMBDA II G6DG / 2008-2017												
Cadenza / 14-17	SWG30055-0	92.00	Top: 1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.			
SEDONA / 14-17	SWG30055-1	92.25	0.047		0.122							
SORENTO / 08-09	SWG30055-2	92.50	2nd: 1.200	X	3.400	TUC	CAST IRON	PHOSPHATE				
	SWG30055-3	92.75	0.047		0.134							
	REFERENCE # 23040-3C150		TOP		2ND		OIL					

3.5L (213CID,3497CC),DOHC,6CYL, 93.000MM (3.661"), SIGMA G6AU / 2002-2006												
AMANTI / 04-06	SWG30056-0	93.00	Top: 1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.			
SEDONA / 02-05	SWG30056-1	93.25	0.059		0.130							
SORENTO / 03-06	SWG30056-2	93.50	2nd: 1.500	X	3.900	TUC	CAST IRON	CHROME				
	SWG30056-3	93.75	0.059		0.154							
	REFERENCE # 23040-39800		TOP		2ND		OIL					

LAND ROVER

LAND ROVER

2.0L (122.0 CID, 1,999.0 CC), DOHC, 4CYL, 87.500mm (3.445"), EcoBoost 20T / 2013-2018 TURBO												
DISCOVERY / 17-18	SWF30023-0	87.50	Top: 1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.			
DISCOVERY SPORT / 17-18	SWF30023-1	87.75	0.047		0.114							
LR2 / 13-15	SWF30023-2	88.00	2nd: 1.200	X	3.400	TUC	CAST IRON	PHOSPHATE				
RANGE ROVER EVOQUE / 13-18	SWF30023-3	88.25	0.047		0.134							
	REFERENCE # AG9Z 6148 A		TOP		2ND		OIL					

LAND ROVER



LAND ROVER

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.0L (245CID,4009CC),SOHC,6CYL, 100.400MM (3.953"), COLOGNE 40 / 2005-2009										
LR3 / 05-09	SWF30012-0	100.40	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF30012-1	100.65		0.047		0.138				
	SWF30012-2	100.90	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	
	SWF30012-3	101.15		0.059		0.165				
	SWF30012-4	101.40	Oil:	3.000	X	3.250	NIFF-S	STEEL	CHROME	
		0.118	0.128							
	REFERENCE # 1F62-23-130 2U3Z 6148 AA		TOP		2ND		OIL			

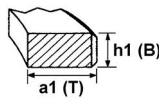
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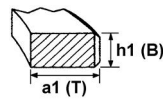
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FXE / 2011-2015										
CT 200 HYBRID / 11-15	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT10232-1	80.75		0.039		0.114				
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE	
	SWT10232-3	81.25		0.039		0.098				
	SWT10232-4	81.50	Oil:	1.500	X	1.950	NIFF-H	STEEL	CHROME	
		0.059	0.077							
	REFERENCE # 13011-0T010 13011-37110 19185554		TOP		2ND		OIL			

2.4L (144CID,2355CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FXE / 2010-2012										
HS 250 HYBRID / 10-12	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10200-1	88.75		0.039		0.106				
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	
	SDT10200-3	89.25		0.039		0.106				
	SDT10200-4	89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	
		0.079	0.108							
	REFERENCE # 13011-0H031 13011-28161		TOP		2ND		OIL			

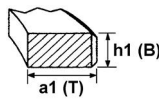
2.5L (152CID,2499CC),DOHC,6CYL, 83.000MM (3.268"), 4GR-FSE / 2006-2015										
IS 250 / 06-15 IS 250C / 10-15	SDT10225-0	83.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10225-1	83.25		0.047		0.106				
	SDT10225-2	83.50	2nd:	1.200	X	2.700	B1-TUC	STEEL	CHROME	
	SDT10225-3	83.75		0.047		0.106				
	SDT10225-4	84.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	
		0.079	0.108							
	REFERENCE # 13011-31220		TOP		2ND		OIL			



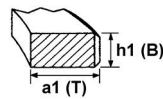
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.5L (153CID,2507CC),DOHC,6CYL, 87.500MM (3.445"), 2VZ-FE / 1990-1991																	
ES 250 / 90-91	SWT10148-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-651-0	87.50	TL:	65.20	PL:	63.00	CHK. DIA	
	SWT10148-1	87.75		0.059		0.130				11-651-1	87.75	CH:	32.30	PD:	21.00		
	SWT10148-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-651-2	88.00	DIST1:	-2.20	Head:	AH	10.00	
	SWT10148-3	88.25		0.059		0.150				11-651-3	88.25	DIST2:		Skirt:	NONE		
	SWT10148-4	88.50		Oil:		3.000				2.900	NIFF-S	STEEL	CHROME	11-651-4	88.50		DIST3:
			0.118	0.114													
	REFERENCE # 13011-62040	TOP	2ND	OIL					REFERENCE # 13101-62020-01								
3.0L (181CID,2958CC),DOHC,6CYL, 87.500MM (3.445"), 3VZ-FE / 1992-1993																	
ES 300 / 92-93	SWT10144-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-661-0	87.50	TL:	62.20	PL:	62.00	CHK. DIA	
	SWT10144-1	87.75		0.059		0.130				11-661-1	87.75	CH:	34.00	PD:	22.00		
	SWT10144-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-661-2	88.00	DIST1:	-3.40	Head:	NONE	10.00	
	SWT10144-3	88.25		0.059		0.150				11-661-3	88.25	DIST2:		Skirt:	NONE		
	SWT10144-4	88.50		Oil:		4.000				2.850	NIFF-S	STEEL	NITRIDED	11-661-4	88.50		DIST3:
			0.157	0.112													
	REFERENCE # 13011-62060	TOP	2ND	OIL					REFERENCE # 13101-62040-01								
3.0L (183CID,2995CC),DOHC,6CYL, 87.500MM (3.445"), 1MZ-FE / 1994-2003																	
ES 300 / 94-03 RX 300 / 99-03	SWT10177-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-720-0	87.50	TL:	51.00	PL:	54.00	CHK. DIA	
	SWT10177-1	87.75		0.047		0.114				11-720-1	87.75	CH:	31.20	PD:	22.00		
	SWT10177-2	88.00	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE	11-720-2	88.00	DIST1:		Head:	AH	10.00	
	SWT10177-3	88.25		0.047		0.130				11-720-3	88.25	DIST2:		Skirt:	MS		
	SWT10177-4	88.50		Oil:		3.000				2.850	NIFF-S	STEEL	NITRIDED	11-720-4	88.50		DIST3:
			0.118	0.112													
	REFERENCE # 13011-0A020 13011-20022	TOP	2ND	OIL					REFERENCE # 13101-0A020 13101-20030 13301-0A020 13301-20020								
3.0L (183CID,2997CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GE / 1992-1997																	
GS 300 / 94-97 SC 300 / 92-97	SWT10134-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	DISC-11-770-0	86.00						
	SWT10134-1	86.25		0.059		0.130				DISC-11-770-1	86.25						
	SWT10134-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	DISC-11-770-2	86.50						
	SWT10134-3	86.75		0.059		0.150				DISC-11-770-3	86.75						
	SWT10134-4	87.00		Oil:		4.000				2.900	NIFF-S	STEEL	NITRIDED	DISC-11-770-4	87.00		
			0.157	0.114													
	REFERENCE # 13011-46041 13011-46051	TOP	2ND	OIL					REFERENCE # 13101-46031								



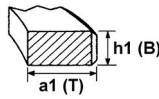
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.0L (183CID,2997CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GE / 1998-2005													
GS 300 / 98-05	SWT10134-0	86.00	Top: 1.500	X	3.300	BF	STEEL	NITRIDED	11-851-0	86.00	TL: 59.00	PL: 66.00	CHK.
IS 300 / 01-05	SWT10134-1	86.25	0.059		0.130				11-851-1	86.25	CH: 34.00	PD: 22.00	DIA
SC 300 / 98-00	SWT10134-2	86.50	2nd: 1.500	X	3.800	TUC	CAST IRON	CHROME	11-851-2	86.50	DIST1: -2.30	Head: NONE	10.00
	SWT10134-3	86.75	0.059		0.150				11-851-3	86.75	DIST2:	Skirt: MS	
	SWT10134-4	87.00	Oil: 4.000	X	2.900	NIFF-S	STEEL	NITRIDED	11-851-4	87.00	DIST3:		
	REFERENCE # 13011-46041 13011-46051		TOP		2ND			OIL		REFERENCE # 13101-46081			
3.3L (202CID,3311CC),DOHC,6CYL, 92.000MM (3.622"), 3MZ-FE,3MZ-FXE / 2004-2008													
ES 330 / 04-06	SWT10228-0	92.00	Top: 1.200	X	2.850	BF	STEEL	CHROME	11-867-0	92.00	TL: 54.50	PL: 56.00	CHK.
RX 330 / 04-06	SWT10228-1	92.25	0.047		0.112				11-867-1	92.25	CH: 31.20	PD: 22.00	DIA
RX 400 HYBRID / 06-08	SWT10228-2	92.50	2nd: 1.200	X	3.800	TUC	CAST IRON	PHOSPHATE	11-867-2	92.50	DIST1: -0.60	Head: AH	9.40
	SWT10228-3	92.75	0.047		0.150				11-867-3	92.75	DIST2:	Skirt: MS	
	SWT10228-4	93.00	Oil: 3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-867-4	93.00	DIST3:		
	REFERENCE # 13011-0A030 13011-0A031 13011-0A040		TOP		2ND			OIL		REFERENCE # 13101-0A040			
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FE / 2007-2015													
ES 350 / 07-15	SDT10194-0	94.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-870-0	94.00	TL: 52.50	PL: 56.00	CHK.
RX 350 / 07-15	SDT10194-1	94.25	0.047		0.114				11-870-1	94.25	CH: 31.30	PD: 22.00	DIA
	SDT10194-2	94.50	2nd: 1.200	X	2.900	TUC	STEEL	PHOSPHATE	11-870-2	94.50	DIST1: 2.10	Head: AH	5.50
	SDT10194-3	94.75	0.047		0.114				11-870-3	94.75	DIST2:	Skirt: MS	
	SDT10194-4	95.00	Oil: 2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-870-4	95.00	DIST3:		
	REFERENCE # 13011-0P040 13011-31130 13011-31140 13011-31142 13011-31160		TOP		2ND			OIL		REFERENCE # 13101-0P053 13101-31090 13101-31092-A0 13101-31092-B0			
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FSE,2GR-FXE / 2006-2016													
GS 350 / 07-15	SDT10194-0	94.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
GS 450 HYBRID / 07-16	SDT10194-1	94.25	0.047		0.114								
IS 350 / 06-15	SDT10194-2	94.50	2nd: 1.200	X	2.900	TUC	STEEL	PHOSPHATE					
IS 350C / 10-15	SDT10194-3	94.75	0.047		0.114								
RC 350 / 15-16	SDT10194-4	95.00	Oil: 2.000	X	2.750	E-BC16	STEEL	NITRIDED					
RX 450 HYBRID / 10-15													
	REFERENCE # 13011-0P040 13011-31130 13011-31140 13011-31142 13011-31160		TOP		2ND			OIL					



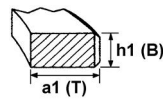
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
4.0L (242CID,3969CC),DOHC,8CYL, 87.500MM (3.445"), 1UZ-FE / 1990-2000											
GS 400 / 98-00	SWT10147-0	87.50	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
LS 400 / 90-00	SWT10147-1	87.75		0.059		0.122					
SC 400 / 92-00	SWT10147-2	88.00		2nd:	1.500	X	3.700	TUC	CAST IRON		PHOSPHATE
	SWT10147-3	88.25	0.059			0.146					
	SWT10147-4	88.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED		
				0.118		0.112					
	REFERENCE #		TOP	2ND	OIL						
	13011-50040										
	13011-50080										
	13011-50110										
	13011-50120										
4.5L (273CID,4477CC),DOHC,6CYL, 100.000MM (3.937"), 1FZ-FE / 1996-1997											
LX 450 / 96-97	SWT10184-0	100.00	Top:	1.750	X	3.700	BF-IB	STEEL	NITRIDED	DISC-11-700-0	100.00
	SWT10184-1	100.25		0.069		0.146				DISC-11-700-1	100.25
	SWT10184-2	100.50		2nd:	2.000	X	3.800	TUC	CAST IRON	CHROME	DISC-11-700-2
	SWT10184-3	100.75	0.079			0.150				DISC-11-700-3	100.75
	SWT10184-4	101.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	NITRIDED	DISC-11-700-4	101.00
				0.157		0.130					
	REFERENCE #		TOP	2ND	OIL				REFERENCE #		
	13011-66021								13101-66040-01		
4.6L (281CID,4608CC),DOHC,8CYL, 94.000MM (3.701"), 1UR-FE / 2010-2015											
GX 460 / 10-15	SWT10236-0	94.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWT10236-1	94.25		0.047		0.114					
	SWT10236-2	94.50		2nd:	1.200	X	3.400	TUC	CAST IRON		PHOSPHATE
	SWT10236-3	94.75	0.047			0.134					
	SWT10236-4	95.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED		
				0.079		0.110					
	REFERENCE #		TOP	2ND	OIL						
	13011-0S011										
4.6L (281CID,4608CC),DOHC,8CYL, 94.000MM (3.701"), 1UR-FSE / 2007-2015											
GS 460 / 08-11	SDT10204-0	94.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDT10204-1	94.25		0.047		0.114					
	SDT10204-2	94.50		2nd:	1.200	X	2.900	TUC	STEEL		PHOSPHATE
	SDT10204-3	94.75	0.047			0.114					
	SDT10204-4	95.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED		
				0.079		0.108					
	REFERENCE #		TOP	2ND	OIL						
	13011-38080										
	13011-38081										
	13011-38090										



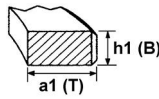
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
4.7L (285CID,4663CC),DOHC,8CYL, 94.000MM (3.701"), 2UZ-FE / 1998-2004													
GX 470 / 03-04 LX 470 / 98-03	SWT10203-0	94.00	Top: 1.500 0.059	X	3.300 0.130	BF	STEEL	NITRIDED	11-801-0	94.00	TL: 60.30	PL: 62.00	CHK.
	SWT10203-1	94.25							11-801-1	94.25	CH: 33.90	PD: 22.00	DIA
	SWT10203-2	94.50	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	PHOSPHATE	11-801-2	94.50	DIST1: -6.80	Head: AH	10.50
	SWT10203-3	94.75							11-801-3	94.75	DIST2:	Skirt: MS	
	SWT10203-4	95.00	Oil: 4.000 0.157	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-801-4	95.00	DIST3:		
REFERENCE # 13011-50140	TOP	2ND	OIL	REFERENCE # 13101-50050-01 13301-50040-01									
4.7L (285CID,4663CC),DOHC,8CYL, 94.000MM (3.701"), 2UZ-FE / 2004-2009													
GX 470 / 05-09 LX 470 / 04-07	SWT10240-0	94.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-912-0	94.00	TL: 54.70	PL: 62.00	CHK.
	SWT10240-1	94.25							11-912-1	94.25	CH: 33.40	PD: 22.00	DIA
	SWT10240-2	94.50	2nd: 1.200 0.047	X	3.900 0.154	TUC	CAST IRON	PHOSPHATE	11-912-2	94.50	DIST1: 2.30	Head: AH	15.00
	SWT10240-3	94.75							11-912-3	94.75	DIST2: -6.10	Skirt: MS	
	SWT10240-4	95.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-912-4	95.00	DIST3:		
REFERENCE # 13011-50162	TOP	2ND	OIL	REFERENCE # 13101-50082-01 13103-50081-01									
5.0L (303CID,4969CC),DOHC,8CYL, 94.000MM (3.701"), 2UR-FSE,2UR-GSE / 2008-2016													
IS-F / 08-14 LS 600 HYBRID / 08-15 RC F / 15-16	SDT10204-0	94.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDT10204-1	94.25											
	SDT10204-2	94.50	2nd: 1.200 0.047	X	2.900 0.114	TUC	STEEL	PHOSPHATE					
	SDT10204-3	94.75											
	SDT10204-4	95.00	Oil: 2.000 0.079	X	2.750 0.108	E-BC16	STEEL	NITRIDED					
REFERENCE # 13011-38080 13011-38081 13011-38090	TOP	2ND	OIL										
5.7L (346CID,5663CC),DOHC,8CYL, 94.000MM (3.701"), 3UR-FE / 2008-2016													
LX 570 / 08-16	SWT10236-0	94.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWT10236-1	94.25											
	SWT10236-2	94.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE					
	SWT10236-3	94.75											
	SWT10236-4	95.00	Oil: 2.000 0.079	X	2.800 0.110	NIFF-H	STEEL	NITRIDED					
REFERENCE # 13011-0S011	TOP	2ND	OIL										



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.2L (73CID,1200CC),4CYL, 70.000MM (2.756"), TB / 1970-1972																	
1200 / 70-72	SXT20009-0	70.00	Top:	2.000	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-702-0	70.00						
	SXT20009-1	70.25		0.079						0.122	DISC-11-702-1	70.25					
	SXT20009-2	70.50	2nd:	2.000	X	3.100	TUC	CAST IRON	PHOSPHATE	DISC-11-702-2	70.50						
	SXT20009-3	70.75		0.079						0.122	DISC-11-702-3	70.75					
	SXT20009-4	71.00	Oil:	4.000	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-702-4	71.00						
		0.157		0.122													
	REFERENCE # 0271-23-170	TOP	2ND	OIL					REFERENCE # 0271-23-200								
1.3L (78CID,1272CC),4CYL, 73.000MM (2.874"), TC / 1976-1978																	
808 / 76-77 GLC / 77-78	SWT20026-0	73.00	Top:	2.000	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-123-0	73.00						
	SWT20026-1	73.25		0.079						0.122	DISC-11-123-1	73.25					
	SWT20026-2	73.50	2nd:	2.000	X	3.100	TUC	CAST IRON	PHOSPHATE	DISC-11-123-2	73.50						
	SWT20026-3	73.75		0.079						0.122	DISC-11-123-3	73.75					
	SWT20026-4	74.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-123-4	74.00						
		0.157		0.118													
	REFERENCE # 0324-23-130	TOP	2ND	OIL					REFERENCE # 0370-23-200								
1.4L (86CID,1415CC),4CYL, 77.000MM (3.031"), UC / 1979-1980																	
GLC / 79-80	SWT20036-0	77.00	Top:	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-125-0	77.00						
	SWT20036-1	77.25		0.059						0.112	DISC-11-125-1	77.25					
	SWT20036-2	77.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-125-2	77.50						
	SWT20036-3	77.75		0.059						0.126	DISC-11-125-3	77.75					
	SWT20036-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-125-4	78.00						
		0.157		0.120													
	REFERENCE # 8569-23-130A	TOP	2ND	OIL					REFERENCE # 8569-23-200								
1.5L (91CID,1489CC),DOHC,4CYL, 75.300MM (2.965"), Z5 / 1995-1998																	
PROTEGE / 95-98	SWT20074-0	75.30	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-731-0	75.30	TL: 51.80 CH: 28.00 DIST1: -6.30 DIST2: DIST3:	PL: 61.00 PD: 20.00 Head: NONE Skirt: NONE	CHK. DIA 10.00			
	SWT20074-1	75.55		0.039						0.106	11-731-1				75.55		
	SWT20074-2	75.80	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-731-2	75.80						
	SWT20074-3	76.05		0.047						0.126	11-731-3				76.05		
	SWT20074-4	76.30	Oil:	2.500	X	2.550	NIFF-S	STEEL	NITRIDED	11-731-4	76.30						
		0.098		0.100													
	REFERENCE # Z5Y0-11-SC0	TOP	2ND	OIL					REFERENCE # Z5Y0-11-SA0B								



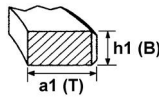
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO								
1.5L (91CID,1490CC),4CYL, 77.00MM (3.031"), E5 / 1981-1985																		
GLC / 81-85	SWT20037-0	77.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	DISC-11-126-0	77.00							
	SWT20037-1	77.25		0.047		0.128							DISC-11-126-1	77.25				
	SWT20037-2	77.50	2nd:	1.500	X	3.200	TUC	CAST IRON	CHROME	DISC-11-126-2	77.50							
	SWT20037-3	77.75		0.059		0.126							DISC-11-126-3	77.75				
	SWT20037-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-126-4	78.00							
			0.157	0.120														
	REFERENCE # E512-23-130	TOP	2ND	OIL					REFERENCE # E501-23-200									
1.5L (91CID,1490CC),4CYL, 77.00MM (3.031"), E5 / 1983-1985																		
GLC / 83-85	SWT20045-0	77.00	Top:	1.500	X	2.900	BF	STEEL	NITRIDED	11-127-0	77.00	TL: 60.60	PL: 65.00	CHK. DIA 1.00	CH: 28.60	PD: 20.00	Head: NONE	Skirt: NONE
	SWT20045-1	77.25		0.059		0.114												
	SWT20045-2	77.50	2nd:	2.000	X	3.300	TUC	CAST IRON	PHOSPHATE	11-127-2	77.50							
	SWT20045-3	77.75		0.079		0.130												
	SWT20045-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-127-4	78.00							
			0.157	0.120														
	REFERENCE # E302-23-130A	TOP	2ND	OIL					REFERENCE # E502-23-200A									
1.5L (91CID,1498CC),DOHC,4CYL, 78.00MM (3.071"), ZY-VE / 2011-2015																		
MAZDA 2 / 11-15	SWT20087-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.								
	SWT20087-1	78.25		0.047		0.096												
	SWT20087-2	78.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE									
	SWT20087-3	78.75		0.047		0.130												
	SWT20087-4	79.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED									
			0.098	0.096														
	REFERENCE # ZYY2-11-SC0	TOP	2ND	OIL														
1.6L (97CID,1586CC),SOHC,4CYL, 78.00MM (3.071"), NA / 1972-1977																		
808 / 72-77 B1600 / 72-76	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	DISC-11-128-0	78.00							
	SWT20025-1	78.25		0.059		0.142							DISC-11-128-1	78.25				
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-128-2	78.50							
	SWT20025-3	78.75		0.059		0.142							DISC-11-128-3	78.75				
	SWT20025-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-128-4	79.00							
			0.157	0.120														
	REFERENCE # 0494-23-130 3763-23-130	TOP	2ND	OIL					REFERENCE # 0305-23-200									



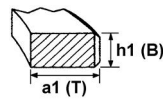
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),DOHC,4CYL, 78.00MM (3.071"), B6-ZE / 1990-1993																
Miata / 90-93	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-579-0	78.00	TL:	63.50	PL:	62.00	CHK. DIA 10.00
	SWT20060-1	78.25		0.059		0.122				11-579-1	78.25	CH:	32.30	PD:	20.00	
	SWT20060-2	78.50	2nd:	1.500	3.400	TUC	CAST IRON	CHROME	11-579-2	78.50	DIST1:	-1.30	Head:	NONE		
	SWT20060-3	78.75		0.059	0.134				11-579-3	78.75	DIST2:	Skirt:	NONE			
	SWT20060-4	79.00		Oil:	4.000				3.000	11-579-4	79.00	DIST3:				
			0.157	0.118	NIFF-S	STEEL	NITRIDED									
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A	TOP	2ND	OIL				REFERENCE # B6Z2-11-SA0C								
Miata / 90-93	SWT20063-0	78.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	DISC-11-588-0	78.00					
	SWT20063-1	78.25		0.059		0.120				DISC-11-588-1	78.25					
	SWT20063-2	78.50	2nd:	1.500	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-588-2	78.50						
	SWT20063-3	78.75		0.059	0.134				DISC-11-588-3	78.75						
	SWT20063-4	79.00		Oil:	3.000				3.050	DISC-11-588-4	79.00					
			0.118	0.120	NIFF-S	STEEL	NITRIDED									
	REFERENCE # B6Y3-11-SC0A	TOP	2ND	OIL				REFERENCE # B6Z5-11-SC0								
1.6L (97CID,1597CC),DOHC,4CYL, 78.00MM (3.071"), B6T / 1988-1989 TURBO																
323 / 88-89	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-578-0	78.00					
	SWT20060-1	78.25		0.059		0.122				DISC-11-578-1	78.25					
	SWT20060-2	78.50	2nd:	1.500	3.400	TUC	CAST IRON	CHROME	DISC-11-578-2	78.50						
	SWT20060-3	78.75		0.059	0.134				DISC-11-578-3	78.75						
	SWT20060-4	79.00		Oil:	4.000				3.000	DISC-11-578-4	79.00					
			0.157	0.118	NIFF-S	STEEL	NITRIDED									
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A	TOP	2ND	OIL				REFERENCE # B6Z0-11-SA0A								
1.6L (97CID,1597CC),DOHC,4CYL, 80.00MM (3.150"), ZL / 1999-2001																
PROTEGE / 99-01	SWT20080-0	80.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20080-1	80.25		0.047		0.104										
	SWT20080-2	80.50	2nd:	1.500	3.200	TUC	CAST IRON	PHOSPHATE								
	SWT20080-3	80.75		0.059	0.126											
	SWT20080-4	81.00		Oil:	3.000				3.000							
			0.118	0.118	NIFF-S	STEEL	CHROME									
	REFERENCE # ZLY0-11-SC0	TOP	2ND	OIL												



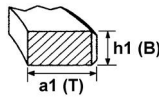
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6 / 1986-1995																
323 / 86-95	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-577-0	78.00					
	SWT20060-1	78.25		0.059						0.122	DISC-11-577-1	78.25				
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-577-2	78.50					
	SWT20060-3	78.75		0.059						0.134	DISC-11-577-3	78.75				
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-577-4	79.00					
		0.157	0.118													
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A	TOP	2ND	OIL					REFERENCE # B6Y0-11-SA0A E9GZ 6108 A							
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6,B6-ME / 1992-1995																
323 / 94-95 MX3 / 92-93	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-786-0	78.00					
	SWT20060-1	78.25		0.059						0.122	DISC-11-786-1	78.25				
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-786-2	78.50					
	SWT20060-3	78.75		0.059						0.134	DISC-11-786-3	78.75				
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-786-4	79.00					
		0.157	0.118													
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A	TOP	2ND	OIL					REFERENCE # B6Y3-11-SA0A K2Y3-11-SAO							
1.6L (97CID,1597CC),SOHC,4CYL, 78.00MM (3.071"), B6-ME / 1995-1995																
MX3 / 95-95	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-794-0	78.00	TL:	62.40	PL:	57.00	CHK.
	SWT20060-1	78.25		0.059						0.122	11-794-1	78.25	CH:	31.90	PD:	20.00
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	11-794-2	78.50	DIST1:	-2.50	Head:	NONE	15.00
	SWT20060-3	78.75		0.059						0.134	11-794-3	78.75	DIST2:		Skirt:	NONE
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	11-794-4	79.00	DIST3:				
		0.157	0.118													
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A	TOP	2ND	OIL					REFERENCE # B6Z7-11-SA0							
1.8L (110CID,1796CC),4CYL, 78.00MM (3.071"), VB / 1972-1973																
618 / 72-73	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20025-1	78.25		0.059												
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWT20025-3	78.75		0.059												
SWT20025-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME								
		0.157	0.120													
	REFERENCE # 0494-23-130 3763-23-130	TOP	2ND	OIL												



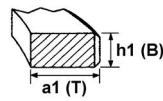
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO										
1.8L (110CID,1797CC),SOHC,4CYL, 78.00MM (3.071"), VB / 1972-1978																				
618 / 72-72 B1800 / 77-78	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	DISC-11-092-0	78.00									
	SWT20025-1	78.25		0.059		0.142				DISC-11-092-1	78.25									
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-092-2	78.50									
	SWT20025-3	78.75		0.059		0.142				DISC-11-092-3	78.75									
	SWT20025-4	79.00		Oil:		4.000				3.050	NIFF-S	STEEL	CHROME	DISC-11-092-4	79.00					
	REFERENCE # 0494-23-130 3763-23-130	TOP	2ND	OIL					REFERENCE # 0290-23-200 3879-23-200											
1.8L (112CID,1839CC),DOHC,4CYL, 83.00MM (3.268"), BP01 / 1990-1994																				
PROTEGE / 90-94	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-584-0	83.00	TL:	61.00	PL:	61.00	CHK.				
	SWT20066-1	83.25		0.059		0.130				11-584-1	83.25	CH:	30.70	PD:	20.00	DIA				
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-584-2	83.50	DIST1:	-2.50	Head:	NONE	10.00				
	SWT20066-3	83.75		0.059		0.142				11-584-3	83.75	DIST2:		Skirt:	NONE					
	SWT20066-4	84.00		Oil:		3.000				2.800	NIFF-S	STEEL	NITRIDED	11-584-4	84.00	DIST3:				
	REFERENCE # BPY0-11-SC0 BPY1-11-SC0 BPY3-11-SC0 BPZ0-11-SC0A FOCZ 6149 A	TOP	2ND	OIL					REFERENCE # BPZ0-11-SA0 BPZ0-11-SA0A											
1.8L (112CID,1839CC),DOHC,4CYL, 83.00MM (3.268"), BP05,BP05-ZE / 1990-1998																				
Miata / 94-97 PROTEGE / 90-98	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-703-0	83.00	TL:	61.50	PL:	70.00	CHK.				
	SWT20066-1	83.25		0.059		0.130				11-703-1	83.25	CH:	30.60	PD:	32.00	DIA				
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-703-2	83.50	DIST1:	0.50	Head:	NONE	15.00				
	SWT20066-3	83.75		0.059		0.142				11-703-3	83.75	DIST2:		Skirt:	NONE					
	SWT20066-4	84.00		Oil:		3.000				2.800	NIFF-S	STEEL	NITRIDED	11-703-4	84.00	DIST3:				
	REFERENCE # BPY0-11-SC0 BPY1-11-SC0 BPY3-11-SC0 BPZ0-11-SC0A FOCZ 6149 A	TOP	2ND	OIL					REFERENCE # BPY1-11-SA0A BPY1-11-SAO											
1.8L (112CID,1839CC),DOHC,4CYL, 83.00MM (3.268"), BP05-4W / 1999-2000																				
Miata / 99-00	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.										
	SWT20066-1	83.25		0.059		0.130														
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE											
	SWT20066-3	83.75		0.059		0.142														
	SWT20066-4	84.00		Oil:		3.000											2.800	NIFF-S	STEEL	NITRIDED
	REFERENCE # BPY0-11-SC0 BPY1-11-SC0 BPY3-11-SC0 BPZ0-11-SC0A FOCZ 6149 A	TOP	2ND	OIL																



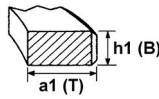
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05-VE / 2001-2005														
Miata / 01-05	SWT20066-0	83.00	Top: 1.500 0.059	X	3.300 0.130	BF-IB	STEEL	NITRIDED	11-842-0	83.00	TL: 64.00	PL: 57.00	CHK. DIA 10.00	
	SWT20066-1	83.25							11-842-1	83.25	CH: 30.70	PD: 20.00		
	SWT20066-2	83.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-842-2	83.50	DIST1: 3.00	Head: NONE		
	SWT20066-3	83.75							11-842-3	83.75	DIST2:	Skirt: NONE		
	SWT20066-4	84.00	Oil: 3.000 0.118	X	2.800 0.110	NIFF-S	STEEL	NITRIDED	11-842-4	84.00	DIST3:			
REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A	TOP	2ND	OIL	REFERENCE # BPZ3-11-SA0										
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), FP / 1999-2000														
PROTEGE / 99-00	SWT20078-0	83.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	DISC-11-715-0	83.00				
	SWT20078-1	83.25							DISC-11-715-1	83.25				
	SWT20078-2	83.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	DISC-11-715-2	83.50				
	SWT20078-3	83.75							DISC-11-715-3	83.75				
	SWT20078-4	84.00	Oil: 3.000 0.118	X	3.200 0.126	NIFF-S	STEEL	CHROME	DISC-11-715-4	84.00				
REFERENCE # FSY2-11-SC0A	TOP	2ND	OIL	REFERENCE # FPY1-11-SA0E										
1.8L (113CID,1844CC),DOHC,6CYL, 75.000MM (2.953"), K8-DE / 1992-1994														
MX3 / 92-94	SWT20067-0	75.00	Top: 1.500 0.059	X	2.700 0.106	BF	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>					
	SWT20067-1	75.25												
	SWT20067-2	75.50	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED						
	SWT20067-3	75.75												
	SWT20067-4	76.00												
REFERENCE # K8Y2-11-SC0A	TOP	2ND	OIL											
2.0L (120CID,1970CC),SOHC,4CYL, 80.000MM (3.150"), MA / 1979-1981														
626 / 79-81 B2000 / 79-81	SWT20031-0	80.00	Top: 1.200 0.047	X	3.450 0.136	BF	STEEL	CHROME	DISC-11-130-0	80.00				
	SWT20031-1	80.25							DISC-11-130-1	80.25				
	SWT20031-2	80.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	DISC-11-130-2	80.50				
	SWT20031-3	80.75							DISC-11-130-3	80.75				
	SWT20031-4	81.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	DISC-11-130-4	81.00				
REFERENCE # HE18-23-130	TOP	2ND	OIL	REFERENCE # HE01-23-200										



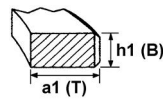
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (120CID,1970CC),SOHC,4CYL, 80.00MM (3.150"), MA / 1982-1984																
626 / 82-82 B2000 / 82-84	SWT20042-0	80.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-131-0	80.00					
	SWT20042-1	80.25		0.059		0.136				DISC-11-131-1	80.25					
	SWT20042-2	80.50	2nd:	2.000	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-131-2	80.50					
	SWT20042-3	80.75		0.079		0.142				DISC-11-131-3	80.75					
	SWT20042-4	81.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-131-4	81.00					
	REFERENCE # HE05-23-130	TOP	2ND	OIL					REFERENCE # HE41-23-200							
2.0L (121CID,1988CC),DOHC,4CYL, 84.800MM (3.339"), YF / 2001-2004																
TRIBUTE / 01-04	SWF30002-0	84.80	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF30002-1	85.05		0.059		0.120										
	SWF30002-2	85.30	2nd:	1.750	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF30002-3	85.55		0.069		0.154										
	SWF30002-4	85.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
	REFERENCE # F8CZ 6148 AA YF09-11-100A YS4Z 6135 AA	TOP	2ND	OIL												
2.0L (121CID,1991CC),DOHC,4CYL, 83.000MM (3.268"), FS,FS-DE / 1993-2003																
626 / 93-02 MX6 / 93-97 PROTEGE / 01-03 PROTEGE 5 / 02-03	SWT20078-0	83.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-706-0	83.00	TL:	53.80	PL:	58.00	CHK.
	SWT20078-1	83.25		0.047		0.122				11-706-1	83.25	CH:	30.00	PD:	19.00	DIA
	SWT20078-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-706-2	83.50	DIST1:	-8.40	Head:	NONE	10.00
	SWT20078-3	83.75		0.059		0.142				11-706-3	83.75	DIST2:		Skirt:	NONE	
	SWT20078-4	84.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-706-4	84.00	DIST3:				
	REFERENCE # FSY2-11-SC0A	TOP	2ND	OIL					REFERENCE # F72Z 6108 AA FSY1-11-SA0D FSY3-11-SA0D							
2.0L (122CID,1998CC),4CYL, 86.000MM (3.386"), RFX / 1984-1985 DIESEL																
626 / 84-85	SDT20055-0	86.00	Top:	2.000	X	3.100	BF-K3	STEEL	NITRIDED	11-701-0	86.00	TL:	86.40	PL:	68.00	CHK.
	SDT20055-1	86.25		0.079		0.122				11-701-1	86.25	CH:	47.30	PD:	25.00	DIA
	SDT20055-2	86.50	2nd:	2.000	X	3.600	T1-IC	CAST IRON	CHROME	11-701-2	86.50	DIST1:	-1.50	Head:	NONE	20.00
	SDT20055-3	86.75		0.079		0.142				11-701-3	86.75	DIST2:		Skirt:	NONE	
	SDT20055-4	87.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-701-4	87.00	DIST3:				
	REFERENCE # RF01-23-130A	TOP	2ND	OIL					REFERENCE # RF01-23-200B							



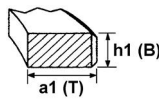
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (122CID,1998CC),SOHC,4CYL, 86.00MM (3.386"), FE / 1983-1987													
626 / 83-87 B2000 / 86-87	SWT20048-0	86.00	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-129-0	86.00	TL: 70.80	PL: 67.00	CHK. DIA 10.00
	SWT20048-1	86.25							11-129-1	86.25	CH: 34.00	PD: 22.00	
	SWT20048-2	86.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	PHOSPHATE	11-129-2	86.50	DIST1: -2.60	Head: NONE	
	SWT20048-3	86.75							11-129-3	86.75	DIST2:	Skirt: NONE	
	SWT20048-4	87.00	Oil: 4.000 0.157	X	3.200 0.126	NIFF-S	STEEL	CHROME	11-129-4	87.00	DIST3:		
REFERENCE # E9Z2 6149 A F2Y1-11-SC0	TOP	2ND	OIL	REFERENCE # FE01-23-200 FEY0-11-SAO									
2.0L (122CID,1998CC),SOHC,4CYL, 86.00MM (3.386"), FET / 1986-1987													
626 / 86-87	SWT20048-0	86.00	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	DISC-11-572-0	86.00			
	SWT20048-1	86.25							DISC-11-572-1	86.25			
	SWT20048-2	86.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	PHOSPHATE	DISC-11-572-2	86.50			
	SWT20048-3	86.75							DISC-11-572-3	86.75			
	SWT20048-4	87.00	Oil: 4.000 0.157	X	3.200 0.126	NIFF-S	STEEL	CHROME	DISC-11-572-4	87.00			
REFERENCE # E9Z2 6149 A F2Y1-11-SC0	TOP	2ND	OIL	REFERENCE # FE30-23-200A									
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), LF-DE / 2004-2005													
MAZDA 3 / 04-05	SWT20089-0	87.50	Top: 1.200 0.047	X	2.850 0.112	BF	STEEL	CHROME	11-854-0	87.50	TL: 51.00	PL: 61.50	CHK. DIA 10.00
	SWT20089-1	87.75							11-854-1	87.75	CH: 28.50	PD: 21.00	
	SWT20089-2	88.00	2nd: 1.200 0.047	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE	11-854-2	88.00	DIST1: -2.00	Head: AH	
	SWT20089-3	88.25							11-854-3	88.25	DIST2:	Skirt: MS	
	SWT20089-4	88.50	Oil: 2.500 0.098	X	2.800 0.110	NIFF-S	STEEL	CHROME	11-854-4	88.50	DIST3:		
REFERENCE # LFY1-11-SC0A LFY5-11-SC0	TOP	2ND	OIL	REFERENCE # LFY2-11-010									
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), LF-DE / 2006-2013													
MAZDA 3 / 06-13	SWT20089-0	87.50	Top: 1.200 0.047	X	2.850 0.112	BF	STEEL	CHROME	11-898-0	87.50	TL: 51.00	PL: 60.00	CHK. DIA 10.00
	SWT20089-1	87.75							11-898-1	87.75	CH: 28.50	PD: 21.00	
	SWT20089-2	88.00	2nd: 1.200 0.047	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE	11-898-2	88.00	DIST1: -2.00	Head: AH	
	SWT20089-3	88.25							11-898-3	88.25	DIST2:	Skirt: MS	
	SWT20089-4	88.50	Oil: 2.500 0.098	X	2.800 0.110	NIFF-S	STEEL	CHROME	11-898-4	88.50	DIST3:		
REFERENCE # LFY1-11-SC0A LFY5-11-SC0	TOP	2ND	OIL	REFERENCE # LFY5-11-010									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), LF-DE / 2006-2015																			
MIATA MX5 / 06-15	SWT20089-0	87.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.									
	SWT20089-1	87.75		0.047	0.112														
	SWT20089-2	88.00		2nd:	1.200	X	3.400	TUC	CAST IRON		PHOSPHATE								
	SWT20089-3	88.25			0.047	0.134													
	SWT20089-4	88.50			Oil:	2.500	X					2.800	NIFF-S	STEEL	CHROME				
			0.098	0.110															
	REFERENCE # LFY1-11-SC0A LFY5-11-SC0		TOP	2ND	OIL														
2.2L (133CID,2184CC),SOHC,4CYL, 86.000MM (3.386"), F2 / 1986-1993																			
626 / 88-92	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME		11-583-0	86.00	TL:	71.00	PL:	67.00	CHK. DIA 10.00		
B2200 / 86-93	SWT20048-1	86.25		0.059	0.128								11-583-1	86.25	CH:	36.00		PD:	22.00
MX6 / 88-92	SWT20048-2	86.50		2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-583-2	86.50	DIST1:	-5.40	Head:	NONE			
	SWT20048-3	86.75			0.059	0.150							11-583-3	86.75	DIST2:			Skirt:	NONE
	SWT20048-4	87.00			Oil:	4.000	X				3.200	NIFF-S	STEEL	CHROME	11-583-4	87.00		DIST3:	
			0.157	0.126															
	REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP	2ND	OIL				REFERENCE # F2Y4-11-SA0A										
2.2L (135CID,2209CC),OHV,4CYL, 88.900MM (3.500"), S2 / 1982-1984 DIESEL																			
B2200 / 82-84	SDT20032-0	88.90	Top:	2.380	X	3.450	BF	STEEL	CHROME	DISC-11-132-0	88.90								
	SDT20032-1	89.15		0.094	0.136							DISC-11-132-1	89.15						
	SDT20032-2	89.40		2nd:	2.380	X	3.500	T1-IC	CAST IRON	PHOSPHATE	DISC-11-132-2	89.40							
	SDT20032-3	89.65			0.094	0.138							DISC-11-132-3	89.65					
	SDT20032-4	89.90			Oil:	4.760	X				4.600	E-BC16	STEEL	NITRIDED	DISC-11-132-4	89.90			
			0.187	0.181															
	REFERENCE # 1456-23-206		TOP	2ND	OIL				REFERENCE # 8259-23-200C										
2.3L (138CID,2260CC),DOHC,4CYL, 87.500MM (3.445"), L3-VE / 2001-2010																			
B2300 / 01-09	SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-843-0	87.50	TL:	51.00	PL:	61.50	CHK. DIA 10.00			
MAZDA 3 / 04-09	SWT20090-1	87.75		0.047	0.106							11-843-1	87.75	CH:	28.50		PD:	21.00	
MAZDA 5 / 06-10	SWT20090-2	88.00		2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-843-2	88.00	DIST1:	-4.00	Head:		AH		
MAZDA 6 / 03-04	SWT20090-3	88.25			0.047	0.134							11-843-3	88.25	DIST2:			Skirt:	MS
TRIBUTE / 05-06	SWT20090-4	88.50			Oil:	2.500	X				2.600	NIFF-S	STEEL	NITRIDED	11-843-4		88.50	DIST3:	
			0.098	0.102															
	REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP	2ND	OIL				REFERENCE # L3Y9-11-010										

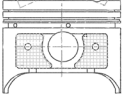

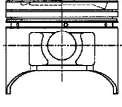
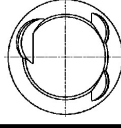
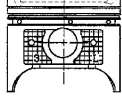
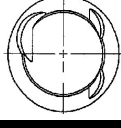
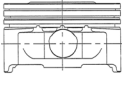




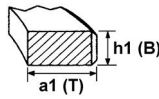
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.3L (138CID,2260CC),DOHC,4CYL, 87.500MM (3.445"), L3-VE / 2005-2009														
MAZDA 3 / 06-09	SWT20090-0	87.50	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-844-0	87.50	TL: 51.00 CH: 28.50 DIST1: -3.30 DIST2: DIST3:	PL: 61.50 PD: 21.00 Head: NONE Skirt: NONE	61.50 21.00 NONE NONE	CHK. DIA 10.00
MAZDA 6 / 05-08	SWT20090-1	87.75	0.047		0.106				11-844-1	87.75				
	SWT20090-2	88.00	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-844-2	88.00				
	SWT20090-3	88.25	0.047		0.134				11-844-3	88.25				
	SWT20090-4	88.50	2.500	X	2.600	NIFF-S	STEEL	NITRIDED	11-844-4	88.50				
	REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A	TOP	2ND	OIL	REFERENCE # L3YH-11-010									
2.3L (140CID,2298CC),SOHC,4CYL, 96.000MM (3.780"), A / 1994-1997														
B2300 / 94-97	SWT20071-0	96.00	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	SWT20071-1	96.25	0.059		0.157									
	SWT20071-2	96.50	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE						
	SWT20071-3	96.75	0.059		0.157									
	SWT20071-4	97.00	4.000	X	3.250	NIFF-S	STEEL	CHROME						
	REFERENCE # F1ZZ 6148 A ZZM0-23-130 ZZM9-23-130	TOP	2ND	OIL										
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-DE / 1993-2002														
626 / 93-97	SWT20073-0	84.50	1.500	X	3.050	BF	STEEL	CHROME	11-716-0	84.50	TL: 55.90 CH: 29.20 DIST1: -1.70 DIST2: DIST3:	PL: 61.00 PD: 19.98 Head: NONE Skirt: MS	61.00 19.98 NONE MS	CHK. DIA 11.00
MILLENNIA / 95-02	SWT20073-1	84.75	0.059		0.120				11-716-1	84.75				
MX6 / 93-97	SWT20073-2	85.00	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-716-2	85.00				
	SWT20073-3	85.25	0.059		0.142				11-716-3	85.25				
	SWT20073-4	85.50	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-716-4	85.50				
	REFERENCE # E32Z 6149 D E42Z 6149 D KLY2-11-SC0A	TOP	2ND	OIL	REFERENCE # E32Z 6108 D E32Z 6108 G F42Z 6108 D F52Z 6108 A KLY1-11-SL0B KLZ1-11-SA0 KLZ1-11-SL0B									
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-G4 / 1998-1999														
626 / 98-99	SWT20073-0	84.50	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-766-0	84.50				
	SWT20073-1	84.75	0.059		0.120				DISC-11-766-1	84.75				
	SWT20073-2	85.00	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-766-2	85.00				
	SWT20073-3	85.25	0.059		0.142				DISC-11-766-3	85.25				
	SWT20073-4	85.50	3.000	X	2.900	NIFF-S	STEEL	CHROME	DISC-11-766-4	85.50				
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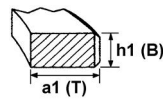
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-G4 / 2000-2002																
626 / 00-02	SWT20073-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20073-1	84.75		0.059		0.120										
	SWT20073-2	85.00	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWT20073-3	85.25		0.059		0.142										
	SWT20073-4	85.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
		0.118	0.114													
	REFERENCE # E32Z 6149 D E42Z 6149 D KLY2-11-SC0A		TOP		2ND		OIL									
2.5L (153CID,2507CC),SOHC,4CYL, 96.000MM (3.780"), C / 1998-2001																
B2500 / 98-01	SWT20076-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20076-1	96.25		0.059		0.157										
	SWT20076-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20076-3	96.75		0.059		0.157										
	SWT20076-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME							
		0.118	0.136													
	REFERENCE # F67Z 6148 AA F87Z 6148 AA ZZP0-23-130		TOP		2ND		OIL									
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), AM1 / 1987-1988																
B2600 / 87-88	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-035-0	91.10	TL:	78.30	PL:	79.00	CHK. DIA
	SWM31039-1	91.35		0.059		0.130				11-035-1	91.35	CH:	36.00	PD:	22.00	
	SWM31039-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-035-2	91.60	DIST1:	0.30	Head:	NONE	
	SWM31039-3	91.85		0.059		0.150				11-035-3	91.85	DIST2:		Skirt:	NONE	
	SWM31039-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-035-4	92.10	DIST3:				
		0.157	0.128													
	REFERENCE # AM15-11-SC0 MD061258 MD076170		TOP		2ND		OIL		REFERENCE # AM01-11-SA0 AM15-11-SA0 MD071172							
2.6L (159CID,2606CC),SOHC,4CYL, 92.000MM (3.622"), G6 / 1989-1994																
B2600i / 90-93 MPV / 89-94	SWT20064-0	92.00	Top:	1.500	X	3.300	BF-IB	STEEL	CHROME	11-580-0	92.00	TL:	73.70	PL:	63.00	CHK. DIA
	SWT20064-1	92.25		0.059		0.130				11-580-1	92.25	CH:	35.40	PD:	23.00	
	SWT20064-2	92.50	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-580-2	92.50	DIST1:	-8.70	Head:	NONE	
	SWT20064-3	92.75		0.059		0.161				11-580-3	92.75	DIST2:		Skirt:	NONE	
	SWT20064-4	93.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-580-4	93.00	DIST3:				
		0.157	0.126													
	REFERENCE # G601-11-SC0A		TOP		2ND		OIL		REFERENCE # G602-11-SA0							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (180CID,2954CC),DOHC,6CYL, 90.000MM (3.543"), JE48 / 1992-1995																
929 / 92-95	SWT20062-0	90.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-759-0	90.00	TL:	70.70	PL:	63.00	CHK. DIA 16.00
	SWT20062-1	90.25		0.059		0.130				11-759-1	90.25	CH:	35.20	PD:	23.00	
	SWT20062-2	90.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-759-2	90.50	DIST1:	1.45	Head:	NONE	
	SWT20062-3	90.75		0.059		0.150				11-759-3	90.75	DIST2:	-5.60	Skirt:	MS	
	SWT20062-4	91.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-759-4	91.00	DIST3:				
		0.157	0.128													
REFERENCE # JEY1-11-SC0		TOP	2ND	OIL			REFERENCE # JEY8-11-SAXB JEY8-11-SLXA		 							
3.0L (180CID,2954CC),SOHC,6CYL, 90.000MM (3.543"), JE / 1988-1993																
929 / 88-91 MPV / 89-93	SWT20062-0	90.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-575-0	90.00	TL:	74.00	PL:	77.00	CHK. DIA 10.00
	SWT20062-1	90.25		0.059		0.130				11-575-1	90.25	CH:	35.50	PD:	23.00	
	SWT20062-2	90.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-575-2	90.50	DIST1:	-3.60	Head:	NONE	
	SWT20062-3	90.75		0.059		0.150				11-575-3	90.75	DIST2:		Skirt:	MS	
	SWT20062-4	91.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-575-4	91.00	DIST3:				
		0.157	0.128													
REFERENCE # JEY1-11-SC0		TOP	2ND	OIL			REFERENCE # JEY6-11-SA0B		 							
3.0L (180CID,2954CC),SOHC,6CYL, 90.000MM (3.543"), JE / 1994-1998																
MPV / 94-98	SWT20062-0	90.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-704-0	90.00	TL:	71.30	PL:	63.00	CHK. DIA 5.00
	SWT20062-1	90.25		0.059		0.130				11-704-1	90.25	CH:	35.70	PD:	26.63	
	SWT20062-2	90.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-704-2	90.50	DIST1:	-3.60	Head:	NONE	
	SWT20062-3	90.75		0.059		0.150				11-704-3	90.75	DIST2:		Skirt:	MS	
	SWT20062-4	91.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-704-4	91.00	DIST3:				
		0.157	0.128													
REFERENCE # JEY1-11-SC0		TOP	2ND	OIL			REFERENCE # JEY7-11-SAXA JEY7-11-SLXA		 							
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), AJ-DE / 2002-2008																
MAZDA 6 / 03-08 MPV / 02-06	SWF30021-0	89.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-868-0	89.00	TL:	52.60	PL:	60.50	CHK. DIA 7.00
	SWF30021-1	89.25		0.047		0.138				11-868-1	89.25	CH:	30.00	PD:	21.01	
	SWF30021-2	89.50	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-868-2	89.50	DIST1:	1.00	Head:	NONE	
	SWF30021-3	89.75		0.059		0.161				11-868-3	89.75	DIST2:		Skirt:	MS	
	SWF30021-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-868-4	90.00	DIST3:				
		0.098	0.112													
REFERENCE # AL8Z 6148 A C2C005449 XW4Z 6148 A YF1Z 6148 BA		TOP	2ND	OIL			REFERENCE # 6E5Z 6100 BA AJTM-11-210 ZZDL-11-210		  							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.0L (181CID,2967CC),OHV,6CYL, 89.000MM (3.504"), VULCAN / 1998-2008										
B3000 / 98-08	SWF30016-0	89.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF30016-1	89.25		0.059		0.136				
	SWF30016-2	89.50	2nd:	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE	
	SWF30016-3	89.75		0.059		0.146				
	SWF30016-4	90.00	Oil:	3.000	X	2.950	NIFF-S	STEEL	CHROME	
		0.118	0.116							
	REFERENCE #		TOP	2ND	OIL					
	1F61-23-130									
	2F1Z 6148 AA									
	4F1Z 6148 CA									
	ZZP1-23-130									
3.0L (182CID,2986CC),OHV,6CYL, 89.000MM (3.504"), VULCAN / 1994-1997										
B3000 / 94-97	SWT20075-0	89.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT20075-1	89.25		0.059		0.136				
	SWT20075-2	89.50	2nd:	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE	
	SWT20075-3	89.75		0.059		0.146				
	SWT20075-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	
		0.157	0.126							
	REFERENCE #		TOP	2ND	OIL					
	F6DZ 6148 RA									
	F6DZ 6148 RA*									
	ZZMD-23-130									
3.5L (213CID,3496CC),DOHC,6CYL, 92.500MM (3.642"), MZI 3.5 / 2007-2007										
CX-9 / 07-07	SWF30026-0	92.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF30026-1	92.75		0.047		0.122				
	SWF30026-2	93.00	2nd:	1.500	X	3.550	TUC	CAST IRON	PHOSPHATE	
	SWF30026-3	93.25		0.059		0.140				
	SWF30026-4	93.50	Oil:	2.500	X	2.750	NIFF-H	STEEL	NITRIDED	
		0.098	0.108							
	REFERENCE #		TOP	2ND	OIL					
	ATAZ 6148 C									
4.0L (245CID,4016CC),SOHC,6CYL, 100.400MM (3.953"), COLONGE 40 / 2004-2009										
B4000 / 04-09	SWF30012-0	100.40	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF30012-1	100.65		0.047		0.138				
	SWF30012-2	100.90	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	
	SWF30012-3	101.15		0.059		0.165				
	SWF30012-4	101.40	Oil:	3.000	X	3.250	NIFF-S	STEEL	CHROME	
		0.118	0.128							
	REFERENCE #		TOP	2ND	OIL					
	1F62-23-130									
	2U3Z 6148 AA									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
4.0L (245CID,4016CC),SOHC,6CYL, 100.400MM (3.953"), COLONGE V6 XS / 1991-2003											
B4000 / 94-03 NAVAJO / 91-94	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWT20072-1	100.65		0.063		0.157					
	SWT20072-2	100.90	2nd:	1.750	X	4.000	TUC	CAST IRON	PHOSPHATE		
	SWT20072-3	101.15		0.069		0.157					
	SWT20072-4	101.40	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME		
		0.138		0.124							
REFERENCE #		TOP	2ND	OIL							
F7TZ 6148 BA											
FOTZ 6148 M											
ZZM2-23-130											

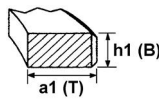
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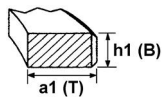
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1991-1996																
MIRAGE / 91-96	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-531-0	75.50	TL:	58.00	PL:	56.00	CHK.
	SWM31076-1	75.75		0.047		0.106				11-531-1	75.75	CH:	29.00	PD:	18.00	DIA
	SWM31076-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-531-2	76.00	DIST1:	-0.50	Head:	NONE	19.00
	SWM31076-3	76.25		0.059		0.130				11-531-3	76.25	DIST2:		Skirt:	NONE	
	SWM31076-4	76.50	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-531-4	76.50	DIST3:				
		0.118		0.110												
REFERENCE #		TOP	2ND	OIL		REFERENCE #										
MD158549						MD144901										
MD180804																

1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1995-1996																
MIRAGE / 95-96	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31076-1	75.75		0.047		0.106										
	SWM31076-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWM31076-3	76.25		0.059		0.130										
	SWM31076-4	76.50	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED							
		0.118		0.110												
REFERENCE #		TOP	2ND	OIL												
MD158549																
MD180804																

1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1997-1999																
MIRAGE / 97-99	SWM31145-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-748-0	75.50					
	SWM31145-1	75.75		0.047		0.106				DISC-11-748-1	75.75					
	SWM31145-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	DISC-11-748-2	76.00					
	SWM31145-3	76.25		0.059		0.130				DISC-11-748-3	76.25					
	SWM31145-4	76.50	Oil:	2.800	X	2.500	NIFF-S	STEEL	CHROME	DISC-11-748-4	76.50					
		0.110		0.098												
REFERENCE #		TOP	2ND	OIL		REFERENCE #										
MD332715						MD332841										



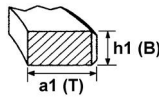
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1997-2002													
MIRAGE / 97-02	SWM31145-0	75.50	Top: 1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWM31145-1	75.75	0.047		0.106								
	SWM31145-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE					
	SWM31145-3	76.25	0.059		0.130								
	SWM31145-4	76.50	Oil: 2.800	X	2.500	NIFF-S	STEEL	CHROME					
	REFERENCE # MD332715		TOP		2ND		OIL						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15,G15B,G4DJ / 1987-1994													
MIRAGE / 87-90 PRECIS / 90-94	SWM31063-0	75.50	Top: 1.500	X	2.850	BF	STEEL	CHROME	11-530-0	75.50	TL: 58.60	PL: 60.00	CHK. 60.00
	SWM31063-1	75.75	0.059		0.112				11-530-1	75.75	CH: 29.40	PD: 18.00	DIA 18.00
	SWM31063-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-530-2	76.00	DIST1: -3.60	Head: NONE	10.00
	SWM31063-3	76.25	0.059		0.130				11-530-3	76.25	DIST2:	Skirt: NONE	
	SWM31063-4	76.50	Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME	11-530-4	76.50	DIST3:		
	REFERENCE # 23040-21210 23040-24200 MD074725 MD156165 MD156169		TOP		2ND		OIL		REFERENCE # 23410-24110 MD099770				
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G15B / 1985-1989													
MIRAGE / 85-86 PRECIS / 87-89	SWM31063-0	75.50	Top: 1.500	X	2.850	BF	STEEL	CHROME	11-529-0	75.50	TL: 58.00	PL: 60.00	CHK. 60.00
	SWM31063-1	75.75	0.059		0.112				11-529-1	75.75	CH: 29.00	PD: 18.00	DIA 18.00
	SWM31063-2	76.00	2nd: 1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-529-2	76.00	DIST1: -0.70	Head: NONE	7.00
	SWM31063-3	76.25	0.059		0.130				11-529-3	76.25	DIST2:	Skirt: NONE	
	SWM31063-4	76.50	Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME	11-529-4	76.50	DIST3:		
	REFERENCE # 23040-21210 23040-24200 MD074725 MD156165 MD156169		TOP		2ND		OIL		REFERENCE # 23410-21114 MD074715				
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1989-1989 TURBO													
MIRAGE / 89-89	SWM31049-0	82.30	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWM31049-1	82.55	0.047		0.122								
	SWM31049-2	82.80	2nd: 1.500	X	3.800	T1	CAST IRON	CHROME					
	SWM31049-3	83.05	0.059		0.150								
	SWM31049-4	83.30	Oil: 3.000	X	2.850	NIFF-S	STEEL	NITRIDED					
	REFERENCE # 23040-33030 MD133495		TOP		2ND		OIL						



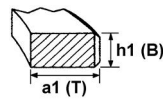
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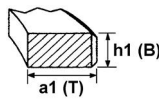
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1991-1992																			
MIRAGE / 91-92	SWM31049-0	82.30	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	DISC-11-546-0	82.30									
	SWM31049-1	82.55							DISC-11-546-1	82.55									
	SWM31049-2	82.80	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	DISC-11-546-2	82.80									
	SWM31049-3	83.05							DISC-11-546-3	83.05									
	SWM31049-4	83.30	Oil: 3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	DISC-11-546-4	83.30									
REFERENCE # 23040-33030 MD133495	TOP	2ND	OIL	REFERENCE # MD129932															
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1985-1986 TURBO																			
MIRAGE / 85-86	SWM31043-0	76.90	Top: 1.500 0.059	X	3.100 0.122	BF	STEEL	CHROME	DISC-11-024-0	76.90									
	SWM31043-1	77.15							DISC-11-024-1	77.15									
	SWM31043-2	77.40	2nd: 1.500 0.059	X	3.500 0.138	T1	CAST IRON	PHOSPHATE	DISC-11-024-2	77.40									
	SWM31043-3	77.65							DISC-11-024-3	77.65									
	SWM31043-4	77.90	Oil: 4.000 0.157	X	3.800 0.150	NIFF-S	STEEL	CHROME	DISC-11-024-4	77.90									
REFERENCE # MD012765	TOP	2ND	OIL	REFERENCE # MD074471															
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1987-1988 TURBO																			
MIRAGE / 87-88	SWM31043-0	76.90	Top: 1.500 0.059	X	3.100 0.122	BF	STEEL	CHROME	DISC-11-532-0	76.90									
	SWM31043-1	77.15							DISC-11-532-1	77.15									
	SWM31043-2	77.40	2nd: 1.500 0.059	X	3.500 0.138	T1	CAST IRON	PHOSPHATE	DISC-11-532-2	77.40									
	SWM31043-3	77.65							DISC-11-532-3	77.65									
	SWM31043-4	77.90	Oil: 4.000 0.157	X	3.800 0.150	NIFF-S	STEEL	CHROME	DISC-11-532-4	77.90									
REFERENCE # MD012765	TOP	2ND	OIL	REFERENCE # MD100254															
1.8L (107CID,1755CC),SOHC,4CYL, 80.600MM (3.173"), 4G37 / 1990-1994																			
ECLIPSE / 90-94	SWM31041-0	80.60	Top: 1.500 0.059	X	3.450 0.136	BF	STEEL	CHROME	11-545-0	80.60	TL: 72.00 CH: 34.00 DIST1: 4.00 DIST2: DIST3:	PL: 64.00 PD: 19.00 Head: NONE Skirt: NONE	64.00 19.00 NONE NONE	CHK. DIA 15.00					
	SWM31041-1	80.85							11-545-1	80.85									
	SWM31041-2	81.10	2nd: 1.500 0.059	X	3.700 0.146	T1	CAST IRON	PHOSPHATE	11-545-2	81.10									
	SWM31041-3	81.35							11-545-3	81.35									
	SWM31041-4	81.60	Oil: 4.000 0.157	X	3.300 0.130	NIFF-S	STEEL	CHROME	11-545-4	81.60									
REFERENCE # MD040465	TOP	2ND	OIL	REFERENCE # MD100416															

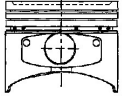
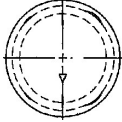
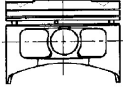
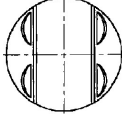
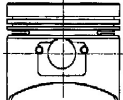
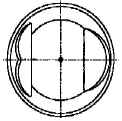


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO										
1.8L (110CID,1795CC),SOHC,4CYL, 80.600MM (3.173"), G62B / 1983-1983																				
CORDIA / 83-83 TREDIA / 83-83	SWM31040-0	80.60	Top:	2.000	X	3.500	BF	CAST IRON	CHROME	DISC-11-033-0	80.60									
	SWM31040-1	80.85		0.079						0.138	DISC-11-033-1	80.85								
	SWM31040-2	81.10	2nd:	2.000	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-033-2	81.10									
	SWM31040-3	81.35		0.079						0.146	DISC-11-033-3	81.35								
	SWM31040-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-033-4	81.60									
		0.157	0.130																	
	REFERENCE # MD040610		TOP		2ND		OIL			REFERENCE # MD040571										
1.8L (110CID,1795CC),SOHC,4CYL, 80.600MM (3.173"), G62B / 1984-1988 TURBO																				
CORDIA / 84-88 TREDIA / 84-88	SWM31041-0	80.60	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-034-0	80.60									
	SWM31041-1	80.85		0.059						0.136	DISC-11-034-1	80.85								
	SWM31041-2	81.10	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-034-2	81.10									
	SWM31041-3	81.35		0.059						0.146	DISC-11-034-3	81.35								
	SWM31041-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-034-4	81.60									
		0.157	0.130																	
	REFERENCE # MD040465		TOP		2ND		OIL			REFERENCE # MD074221										
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1993-1996																				
MIRAGE / 93-96	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	11-767-0	81.00	TL: 60.00	PL: 58.00	CHK. DIA 10.00						
	SWM31079-1	81.25		0.047						0.126	11-767-1						81.25	CH: 30.80	PD: 19.00	
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-767-2	81.50						DIST1: 0.20			Head: NONE
	SWM31079-3	81.75		0.047						0.142	11-767-3									
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	11-767-4	82.00									
		0.110	0.106																	
	REFERENCE # MD173206		TOP		2ND		OIL			REFERENCE # MD318097										
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1997-2002																				
MIRAGE / 97-02	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	DISC-11-761-0	81.00									
	SWM31079-1	81.25		0.047						0.126	DISC-11-761-1	81.25								
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-761-2	81.50									
	SWM31079-3	81.75		0.047						0.142	DISC-11-761-3	81.75								
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	DISC-11-761-4	82.00									
		0.110	0.106																	
	REFERENCE # MD173206		TOP		2ND		OIL			REFERENCE # MD314278 MD347630										



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (122CID,1997CC),DOCH,4CYL, 85.000MM (3.346"), 4G63 / 2003-2006													
LANCER EVO. / 03-06	SWM31143-0	85.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWM31143-1	85.25											
	SWM31143-2	85.50	2nd: 1.200 0.047	X	3.500 0.138	TUC	CAST IRON	PHOSPHATE					
	SWM31143-3	85.75											
	SWM31143-4	86.00	Oil: 2.000 0.079	X	2.300 0.091	NIFF-H	STEEL	CHROME					
REFERENCE # MN149594	TOP	2ND	OIL										
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1989-1992													
ECLIPSE / 90-92 GALANT / 89-91	SWM31048-0	85.00	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	11-540-0	85.00	TL: 67.00	PL: 66.00	CHK. DIA 10.00
	SWM31048-1	85.25							11-540-1	85.25	CH: 35.00	PD: 21.00	
	SWM31048-2	85.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	11-540-2	85.50	DIST1: -2.10	Head: NONE	
	SWM31048-3	85.75							11-540-3	85.75	DIST2:	Skirt: NONE	
	SWM31048-4	86.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-540-4	86.00	DIST3:		
REFERENCE # MD140923 MD144245	TOP	2ND	OIL				REFERENCE # MD129922						
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1990-1992 TURBO													
ECLIPSE / 90-91 GALANT / 92-92	SWM31048-0	85.00	Top: 1.200 0.047	X	3.100 0.122	BF	STEEL	NITRIDED	11-546-0	85.00	TL: 67.00	PL: 66.00	CHK. DIA 26.00
	SWM31048-1	85.25							11-546-1	85.25	CH: 35.00	PD: 21.00	
	SWM31048-2	85.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	11-546-2	85.50	DIST1: -5.40	Head: AH	
	SWM31048-3	85.75							11-546-3	85.75	DIST2:	Skirt: NONE	
	SWM31048-4	86.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-546-4	86.00	DIST3:		
REFERENCE # MD140923 MD144245	TOP	2ND	OIL				REFERENCE # MD129232 MD129923						
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1993-1994 TURBO													
ECLIPSE / 93-94	SWM31071-0	85.00	Top: 1.200 0.047	X	3.100 0.122	BF-IB	STEEL	NITRIDED	11-719-0	85.00	TL: 67.00	PL: 62.00	CHK. DIA 10.00
	SWM31071-1	85.25							11-719-1	85.25	CH: 35.00	PD: 22.00	
	SWM31071-2	85.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	11-719-2	85.50	DIST1: -5.40	Head: AH	
	SWM31071-3	85.75							11-719-3	85.75	DIST2:	Skirt: NONE	
	SWM31071-4	86.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-719-4	86.00	DIST3:		
REFERENCE # MD176437 MD195867	TOP	2ND	OIL				REFERENCE # MD308200						



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1995-1998 TURBO																	
ECLIPSE / 95-98	SWM31103-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-758-0	85.00	TL:	67.00	PL:	62.00	CHK. DIA 10.00	
	SWM31103-1	85.25		0.047		0.122				11-758-1	85.25	CH:	35.00	PD:	22.00		
	SWM31103-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-758-2	85.50	DIST1:	-3.30	Head:	AH		
	SWM31103-3	85.75		0.059		0.150				11-758-3	85.75	DIST2:		Skirt:	NONE		
	SWM31103-4	86.00		Oil:		2.800				2.550	NIFF-S	STEEL	NITRIDED	11-758-4	86.00		DIST3:
			0.110	0.100													
	REFERENCE # MD195805 MD313405	TOP	2ND	OIL					REFERENCE # MD307820								
2.0L (122CID,1997CC),DOHC,4CYL, 87.500MM (3.445"), 420A / 1995-1999																	
ECLIPSE / 95-99	SWM31120-0	87.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	11-735-0	87.50	TL:	64.80	PL:	75.00	CHK. DIA 13.00	
	SWM31120-1	87.75		0.047		0.136				11-735-1	87.75	CH:	31.40	PD:	21.00		
	SWM31120-2	88.00	2nd:	1.200	X	4.000	T1	CAST IRON	PHOSPHATE	11-735-2	88.00	DIST1:	0.90	Head:	NONE		
	SWM31120-3	88.25		0.047		0.157				11-735-3	88.25	DIST2:		Skirt:	NONE		
	SWM31120-4	88.50		Oil:		3.000				2.900	NIFF-S	STEEL	CHROME	11-735-4	88.50		DIST3:
			0.118	0.114													
	REFERENCE # 4741401 M04741401	TOP	2ND	OIL					REFERENCE # 4797613 M04741372 M04797613								
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), 4G63 / 1993-1993																	
GALANT / 93-93	SWM31103-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	DISC-11-710-0	85.00						
	SWM31103-1	85.25		0.047		0.122				DISC-11-710-1	85.25						
	SWM31103-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	DISC-11-710-2	85.50						
	SWM31103-3	85.75		0.059		0.150				DISC-11-710-3	85.75						
	SWM31103-4	86.00		Oil:		2.800				2.550	NIFF-S	STEEL	NITRIDED	DISC-11-710-4	86.00		
			0.110	0.100													
	REFERENCE # MD195805 MD313405	TOP	2ND	OIL					REFERENCE # MD188097								
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1983-1988																	
CORDIA / 84-88 PICKUP / 83-86 TREDIA / 84-88	SWM31013-0	85.00	Top:	2.000	X	3.100	BF	STEEL	NITRIDED	11-027-0	85.00	TL:	72.20	PL:	72.00	CHK. DIA 30.00	
	SWM31013-1	85.25		0.079		0.122				11-027-1	85.25	CH:	35.20	PD:	21.00		
	SWM31013-2	85.50	2nd:	2.000	X	3.700	T1	CAST IRON	PHOSPHATE	11-027-2	85.50	DIST1:	-5.20	Head:	NONE		
	SWM31013-3	85.75		0.079		0.146				11-027-3	85.75	DIST2:	-7.70	Skirt:	NONE		
	SWM31013-4	86.00		Oil:		4.000				3.250	NIFF-S	STEEL	CHROME	11-027-4	86.00		DIST3:
			0.157	0.128													
	REFERENCE # MD040640	TOP	2ND	OIL					REFERENCE # MD040591								



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1987-1992

GALANT / 89-92	SWM31044-0	85.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-539-0	85.00	TL:	72.30	PL:	72.00	CHK.	
MIGHTY MAX / 88-89	SWM31044-1	85.25		0.059		0.138				11-539-1	85.25	CH:	35.20	PD:	21.00	DIA	
PICKUP / 87-89	SWM31044-2	85.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-539-2	85.50	DIST1:	-5.00	Head:	NONE	17.00	
	SWM31044-3	85.75		0.059		0.150				11-539-3	85.75	DIST2:	-7.30	Skirt:	NONE		
	SWM31044-4	86.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-539-4	86.00	DIST3:					
REFERENCE # MD100467		TOP			2ND			OIL			REFERENCE # MD100372						

2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 4B11,4B11T / 2008-2017

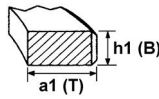
LANCER / 08-15	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.								
LANCER EVO. / 08-14	SWG30042-1	86.25		0.047		0.120												
LANCER RALLIART / 09-15	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE									
OUTLANDER SPORT / 11-17	SWG30042-3	86.75		0.047		0.142												
	SWG30042-4	87.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME									
REFERENCE # 1110A436 23040-2C400 5191418AB		TOP			2ND			OIL										

2.0L (122CID,1999CC),SOHC,4CYL, 81.500MM (3.209"), 4G94 / 2002-2006

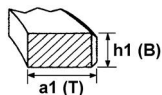
LANCER / 02-06	SWM31164-0	81.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.								
	SWM31164-1	81.75		0.047		0.106												
	SWM31164-2	82.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE									
	SWM31164-3	82.25		0.047		0.134												
	SWM31164-4	82.50	Oil:	2.500	X	2.450	NIFF-H	STEEL	CHROME									
REFERENCE # MD371157 MD371189		TOP			2ND			OIL										

2.3L (143CID,2346CC),SOHC,4CYL, 91.100MM (3.587"), 4D55 / 1983-1985 DIESEL

PICKUP / 83-85	SDM31038-0	91.10	Top:	2.500	X	3.250	BF-K2	STEEL	CHROME	11-028-0	91.10	TL:	88.70	PL:	75.00	CHK.	
	SDM31038-1	91.35		0.098		0.128				11-028-1	91.35	CH:	48.70	PD:	29.00	DIA	
	SDM31038-2	91.60	2nd:	2.000	X	3.900	T1-K2	CAST IRON	CHROME	11-028-2	91.60	DIST1:	-2.30	Head:	NONE	10.00	
	SDM31038-3	91.85		0.079		0.154				11-028-3	91.85	DIST2:	-2.60	Skirt:	NONE		
	SDM31038-4	92.10	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-028-4	92.10	DIST3:					
REFERENCE # E5TZ 6149 A MD103391		TOP			2ND			OIL			REFERENCE # MD103308						



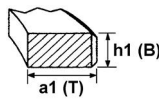
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1993-1996																	
MIGHTY MAX / 93-96 PICKUP / 93-94	SWM31072-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-536-0	86.50	TL:	67.40	PL:	62.00	CHK. DIA 10.00	
	SWM31072-1	86.75		0.047		0.122				11-536-1	86.75	CH:	35.00	PD:	22.00		
	SWM31072-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-536-2	87.00	DIST1:	0.30	Head:	NONE		
	SWM31072-3	87.25		0.059		0.150				11-536-3	87.25	DIST2:	0.40	Skirt:	NONE		
	SWM31072-4	87.50		Oil:		3.000				2.550	11-536-4	87.50	DIST3:				
			0.118	0.100													
REFERENCE # MD195872	TOP	2ND	OIL	REFERENCE # MD188998													
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1993-1999																	
ECLIPSE / 97-99 Expo / 93-95 Expo LRV / 93-94 GALANT / 94-98	SWM31116-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-709-0	86.50	TL:	67.10	PL:	62.00	CHK. DIA 12.00	
	SWM31116-1	86.75		0.047		0.122				11-709-1	86.75	CH:	35.00	PD:	22.00		
	SWM31116-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-709-2	87.00	DIST1:	-4.30	Head:	NONE		
	SWM31116-3	87.25		0.059		0.150				11-709-3	87.25	DIST2:		Skirt:	NONE		
	SWM31116-4	87.50		Oil:		2.800				2.550	11-709-4	87.50	DIST3:				
			0.110	0.100													
REFERENCE # MD195828	TOP	2ND	OIL	REFERENCE # MD188115 MD303071													
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1997-1999																	
MONTERO SPORT / 97-99	SWM31116-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	DISC-11-763-0	86.50						
	SWM31116-1	86.75		0.047		0.122				DISC-11-763-1	86.75						
	SWM31116-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	DISC-11-763-2	87.00						
	SWM31116-3	87.25		0.059		0.150				DISC-11-763-3	87.25						
	SWM31116-4	87.50		Oil:		2.800				2.550	DISC-11-763-4	87.50					
			0.110	0.100													
REFERENCE # MD195828	TOP	2ND	OIL	REFERENCE # MD341734													
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1997-2004																	
ECLIPSE / 97-99 GALANT / 99-04	SWM31116-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWM31116-1	86.75		0.047		0.122											
	SWM31116-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE								
	SWM31116-3	87.25		0.059		0.150											
	SWM31116-4	87.50		Oil:		2.800											2.550
			0.110	0.100													
REFERENCE # MD195828	TOP	2ND	OIL														



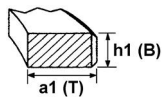
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1999-2005													
ECLIPSE / 00-05	SWM31116-0	86.50	Top: 1.200	X	3.100	BF-IB	STEEL	CHROME	11-804-0	86.50	TL: 53.50	PL: 62.00	CHK.
ECLIPSE SPYDER / 01-05	SWM31116-1	86.75	0.047		0.122				11-804-1	86.75	CH: 30.50	PD: 22.00	DIA
GALANT / 99-99	SWM31116-2	87.00	2nd: 1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-804-2	87.00	DIST1: Head: NONE	10.00	
OUTLANDER / 03-04	SWM31116-3	87.25	0.059		0.150				11-804-3	87.25	DIST2: Skirt: MS		
	SWM31116-4	87.50	Oil: 2.800	X	2.550	NIFF-S	STEEL	CHROME	11-804-4	87.50	DIST3:		
	REFERENCE # MD195828		TOP		2ND		OIL		REFERENCE # MD357066 MD357067				
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G64B / 1984-1986													
GALANT / 84-86	SWM31037-0	86.50	Top: 1.500	X	3.450	BF	STEEL	CHROME	DISC-11-537-0	86.50			
	SWM31037-1	86.75	0.059		0.136				DISC-11-537-1	86.75			
	SWM31037-2	87.00	2nd: 1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	DISC-11-537-2	87.00			
	SWM31037-3	87.25	0.059		0.150				DISC-11-537-3	87.25			
	SWM31037-4	87.50	Oil: 4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-537-4	87.50			
	REFERENCE # MD085346		TOP		2ND		OIL		REFERENCE # MD068759				
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G64B / 1987-1992													
GALANT / 87-88	SWM31037-0	86.50	Top: 1.500	X	3.450	BF	STEEL	CHROME	11-538-0	86.50	TL: 72.40	PL: 72.00	CHK.
MIGHTY MAX / 90-92	SWM31037-1	86.75	0.059		0.136				11-538-1	86.75	CH: 34.90	PD: 21.00	DIA
VAN / 87-91	SWM31037-2	87.00	2nd: 1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-538-2	87.00	DIST1: 0.50	Head: NONE	15.00
	SWM31037-3	87.25	0.059		0.150				11-538-3	87.25	DIST2: 0.30	Skirt: NONE	
	SWM31037-4	87.50	Oil: 4.000	X	3.300	NIFF-S	STEEL	CHROME	11-538-4	87.50	DIST3:		
	REFERENCE # MD085346		TOP		2ND		OIL		REFERENCE # 23410-32610 MD105377				
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), 4B12 / 2008-2017													
LANCER / 09-15	SWG30041-0	88.00	Top: 1.200	X	3.050	BF-IB	STEEL	CHROME	11-908-0	88.00	TL: 51.50	PL: 58.00	CHK.
OUTLANDER / 08-13	SWG30041-1	88.25	0.047		0.120				11-908-1	88.25	CH: 27.20	PD: 21.00	DIA
OUTLANDER SPORT / 15-17	SWG30041-2	88.50	2nd: 1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-908-2	88.50	DIST1: -1.50	Head: NONE	15.00
	SWG30041-3	88.75	0.047		0.142				11-908-3	88.75	DIST2: -3.30	Skirt: MS	
	SWG30041-4	89.00	Oil: 2.000	X	2.450	NIFF-H	STEEL	CHROME	11-908-4	89.00	DIST3:		
	REFERENCE # 1110A822 23040-25200 5191424AA		TOP		2ND		OIL		REFERENCE # 23410-25211 5191340AA				



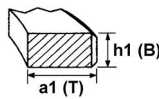
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (145CID,2378CC),SOHC,4CYL, 87.000MM (3.425"), 4G69 / 2004-2012																
ECLIPSE / 06-11	SWM31161-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ECLIPSE SPYDER / 06-11	SWM31161-1	87.25		0.047	X	0.122	TUC	CAST IRON	PHOSPHATE							
GALANT / 05-12	SWM31161-2	87.50		1.200	X	3.400										
LANCER / 04-06	SWM31161-3	87.75		0.047	X	0.134										
OUTLANDER / 04-06	SWM31161-4	88.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
	REFERENCE #	TOP	2ND	OIL												
	1110A966															
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1983-1985																
MONTERO / 83-83	SWM31047-0	91.10	Top:	2.000	X	3.500	BF	DUCTILE IRON	CHROME	11-031-0	91.10	TL:	77.20	PL:	75.00	CHK.
PICKUP / 83-85	SWM31047-1	91.35		0.079	X	0.138	T1	CAST IRON	CHROME	11-031-1	91.35	CH:	35.20	PD:	22.00	DIA
	SWM31047-2	91.60		2nd:	2.000	X				3.800	11-031-2	91.60	DIST1:	Head:	NONE	37.50
	SWM31047-3	91.85		0.079	X	0.150	11-031-3	91.85	DIST2:	Skirt:			NONE			
	SWM31047-4	92.10	Oil:	4.000	X	3.250			NIFF-S	STEEL	CHROME	11-031-4	92.10	DIST3:		
	REFERENCE #	TOP	2ND	OIL												
	MD025080				REFERENCE #											
	MD026835															
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1983-1989																
STARION / 83-89	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	DISC-11-544-0	91.10					
	SWM31039-1	91.35		0.059	X	0.130	T1	CAST IRON	CHROME	DISC-11-544-1	91.35					
	SWM31039-2	91.60		2nd:	1.500	X				3.800	DISC-11-544-2	91.60				
	SWM31039-3	91.85		0.059	X	0.150	NIFF-S	STEEL	NITRIDED	DISC-11-544-3			91.85			
	SWM31039-4	92.10	Oil:	4.000	X	3.250				NIFF-S	STEEL	NITRIDED	DISC-11-544-4	92.10		
	REFERENCE #	TOP	2ND	OIL												
	AM15-11-SC0				REFERENCE #	MD128450										
	MD061258															
	MD076170															
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1984-1989																
MIGHTY MAX / 88-89	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-035-0	91.10	TL:	78.30	PL:	79.00	CHK.
MONTERO / 84-89	SWM31039-1	91.35		0.059	X	0.130	T1	CAST IRON	CHROME	11-035-1	91.35	CH:	36.00	PD:	22.00	DIA
PICKUP / 86-89	SWM31039-2	91.60		2nd:	1.500	X				3.800	11-035-2	91.60	DIST1:	0.30	Head:	NONE
	SWM31039-3	91.85		0.059	X	0.150	NIFF-S	STEEL	NITRIDED	11-035-3			91.85	DIST2:	Skirt:	NONE
	SWM31039-4	92.10	Oil:	4.000	X	3.250				NIFF-S	STEEL	NITRIDED	11-035-4	92.10	DIST3:	
	REFERENCE #	TOP	2ND	OIL												
	AM15-11-SC0				REFERENCE #	AM01-11-SA0										
	MD061258															
	MD076170															



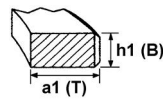
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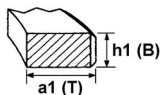
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1999													
3000GT / 91-99 DIAMANTE / 92-95	SWM31078-0	91.10	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-543-0	91.10	TL: 66.50	PL: 64.00	CHK. 15.00
	SWM31078-1	91.35							11-543-1	91.35	CH: 32.00	PD: 22.00	DIA
	SWM31078-2	91.60	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-543-2	91.60	DIST1: 0.50	Head: NONE	15.00
	SWM31078-3	91.85							11-543-3	91.85	DIST2:	Skirt: NONE	
	SWM31078-4	92.10	Oil: 3.000 0.118	X	2.900 0.114	NIFF-S	STEEL	CHROME	11-543-4	92.10	DIST3:		
REFERENCE # MD158334 MD301716 MD329755 MD334192	TOP	2ND	OIL	REFERENCE # MD307958									
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72T / 1991-1999													
3000GT / 91-99	SWM31078-0	91.10	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-547-0	91.10	TL: 65.90	PL: 64.00	CHK. 15.00
	SWM31078-1	91.35							11-547-1	91.35	CH: 31.90	PD: 22.00	DIA
	SWM31078-2	91.60	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-547-2	91.60	DIST1: -3.40	Head: NONE	15.00
	SWM31078-3	91.85							11-547-3	91.85	DIST2:	Skirt: NONE	
	SWM31078-4	92.10	Oil: 3.000 0.118	X	2.900 0.114	NIFF-S	STEEL	CHROME	11-547-4	92.10	DIST3:		
REFERENCE # MD158334 MD301716 MD329755 MD334192	TOP	2ND	OIL	REFERENCE # MD307972									
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 4G72,6G72 / 1995-1998 TURBO													
MONTERO / 95-96 MONTERO SPORT / 97-98	SWM31078-0	91.10	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-762-0	91.10	TL: 65.80	PL: 64.00	CHK. 20.00
	SWM31078-1	91.35							11-762-1	91.35	CH: 31.80	PD: 22.00	DIA
	SWM31078-2	91.60	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-762-2	91.60	DIST1: -3.20	Head: NONE	20.00
	SWM31078-3	91.85							11-762-3	91.85	DIST2:	Skirt: NONE	
	SWM31078-4	92.10	Oil: 3.000 0.118	X	2.900 0.114	NIFF-S	STEEL	CHROME	11-762-4	92.10	DIST3:		
REFERENCE # MD158334 MD301716 MD329755 MD334192	TOP	2ND	OIL	REFERENCE # MD318501									
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1988-1993													
GALANT SIGMA / 88-90 MIGHTY MAX / 90-93 MONTERO / 89-93 PICKUP / 90-93 SIGMA / 89-90	SWM31080-0	91.10	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-549-0	91.10	TL: 68.20	PL: 64.00	CHK. 8.00
	SWM31080-1	91.35							11-549-1	91.35	CH: 32.20	PD: 22.00	DIA
	SWM31080-2	91.60	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-549-2	91.60	DIST1: -3.00	Head: NONE	8.00
	SWM31080-3	91.85							11-549-3	91.85	DIST2:	Skirt: NONE	
	SWM31080-4	92.10	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-549-4	92.10	DIST3:		
REFERENCE # 23040-35010 23040-35500 MD104936 MD104939	TOP	2ND	OIL	REFERENCE # 23410-35114 23410-35144 23410-35214 23410-35244 MD119671 MD152563									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1992-1996																
DIAMANTE / 92-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-542-0	91.10					
	SWM31078-1	91.35		0.047						0.130	DISC-11-542-1	91.35				
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-542-2	91.60					
	SWM31078-3	91.85		0.059						0.150	DISC-11-542-3	91.85				
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	DISC-11-542-4	92.10					
		0.118	0.114													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #							
	MD158334								MD307944							
	MD301716															
	MD329755															
	MD334192															
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1994-1999																
3000GT / 97-99 MONTERO / 94-94 PICKUP / 94-94	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-707-0	91.10	TL:	66.00	PL:	64.00	CHK.
	SWM31078-1	91.35		0.047						0.130	11-707-1	91.35	CH:	32.00	PD:	22.00
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-707-2	91.60	DIST1:	-2.30	Head:	NONE	16.00
	SWM31078-3	91.85		0.059						0.150	11-707-3	91.85	DIST2:	-7.10	Skirt:	
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-707-4	92.10	DIST3:				
		0.118	0.114													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #							
	MD158334								MD197808							
	MD301716								MD197814							
	MD329755															
	MD334192															
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1999-1999																
GALANT / 99-99	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31078-1	91.35		0.047												0.130
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME							
	SWM31078-3	91.85		0.059												0.150
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
		0.118	0.114													
	REFERENCE #		TOP		2ND		OIL									
	MD158334															
	MD301716															
	MD329755															
	MD334192															
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 2000-2005																
ECLIPSE / 00-05 ECLIPSE SPYDER / 01-05 GALANT / 00-03 MONTERO SPORT / 00-03	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-817-0	91.10	TL:	64.20	PL:	64.00	CHK.
	SWM31078-1	91.35		0.047						0.130	11-817-1	91.35	CH:	30.20	PD:	22.00
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-817-2	91.60	DIST1:	-1.30	Head:	NONE	15.00
	SWM31078-3	91.85		0.059						0.150	11-817-3	91.85	DIST2:		Skirt:	
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-817-4	92.10	DIST3:				
		0.118	0.114													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #							
	MD158334								MD367088							
	MD301716								MD367089							
	MD329755															
	MD334192															



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
3.5L (213CID,3496CC),DOHC,6CYL, 93.000MM (3.661"), 6G74 / 1994-1996														
MONTERO / 94-96	SWM31121-0	93.00	Top: 1.500 0.059	X	3.450 0.136	BF-IB	STEEL	CHROME	11-749-0	93.00	TL: 86.00 CH: 32.00 DIST1: -2.70 DIST2: DIST3:	PL: 64.00 PD: 22.00 Head: NONE Skirt: NONE	64.00 22.00 NONE NONE	CHK. DIA 15.00
	SWM31121-1	93.25							11-749-1	93.25				
	SWM31121-2	93.50	2nd: 1.500 0.059	X	3.900 0.154	TUC	CAST IRON	PHOSPHATE	11-749-2	93.50				
	SWM31121-3	93.75							11-749-3	93.75				
	SWM31121-4	94.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	11-749-4	94.00				
REFERENCE # 23040-39800 MD300569 MD322783	TOP	2ND	OIL	REFERENCE # MD308276										
3.5L (213CID,3496CC),SOHC,6CYL, 93.000MM (3.661"), 6G74 / 1997-2000														
DIAMANTE / 97-00 MONTERO / 97-00 MONTERO SPORT / 99-00	SWM31121-0	93.00	Top: 1.500 0.059	X	3.450 0.136	BF-IB	STEEL	CHROME	DISC-11-760-0	93.00				
	SWM31121-1	93.25							DISC-11-760-1	93.25				
	SWM31121-2	93.50	2nd: 1.500 0.059	X	3.900 0.154	TUC	CAST IRON	PHOSPHATE	DISC-11-760-2	93.50				
	SWM31121-3	93.75							DISC-11-760-3	93.75				
	SWM31121-4	94.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	DISC-11-760-4	94.00				
REFERENCE # 23040-39800 MD300569 MD322783	TOP	2ND	OIL	REFERENCE # MD332016										
3.5L (213CID,3496CC),SOHC,6CYL, 93.000MM (3.661"), 6G74 / 2001-2004														
DIAMANTE / 01-04 MONTERO / 01-02 MONTERO SPORT / 01-04	SWM31121-0	93.00	Top: 1.500 0.059	X	3.450 0.136	BF-IB	STEEL	CHROME	11-847-0	93.00	TL: 64.20 CH: 30.20 DIST1: -4.70 DIST2: DIST3:	PL: 64.00 PD: 22.00 Head: AH Skirt: NONE	64.00 22.00 NONE	CHK. DIA 10.00
	SWM31121-1	93.25							11-847-1	93.25				
	SWM31121-2	93.50	2nd: 1.500 0.059	X	3.900 0.154	TUC	CAST IRON	PHOSPHATE	11-847-2	93.50				
	SWM31121-3	93.75							11-847-3	93.75				
	SWM31121-4	94.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	11-847-4	94.00				
REFERENCE # 23040-39800 MD300569 MD322783	TOP	2ND	OIL	REFERENCE # MN140937 MN149038										
3.7L (226CID,3701CC),SOHC,6CYL, 93.000MM (3.661"), Power Tech 3.7 / 2006-2009														
RAIDER / 06-09	SWC10002-0	93.00	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-806-0	93.00	TL: 53.90 CH: 31.80 DIST1: DIST2: DIST3:	PL: 59.00 PD: 24.02 Head: NONE Skirt: MS	59.00 24.02 NONE MS	CHK. DIA 13.00
	SWC10002-1	93.25							11-806-1	93.25				
	SWC10002-2	93.50	2nd: 1.500 0.059	X	3.900 0.154	T1-RB	CAST IRON	PHOSPHATE	11-806-2	93.50				
	SWC10002-3	93.75							11-806-3	93.75				
	SWC10002-4	94.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	11-806-4	94.00				
AM Ring Available	REFERENCE # 4897033AA 5012364AC 5241051 5241052	TOP	2ND	OIL	REFERENCE # 5019316AA									



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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.8L (234CID,3828CC),SOHC,6CYL, 95.000MM (3.740"), 6G75 / 2003-2011																
ECLIPSE / 06-11	SWM31148-0	95.00	Top:	1.200	X	3.500	BF-IB	STEEL	NITRIDED	11-848-0	95.00	TL:	56.80	PL:	58.00	CHK.
ECLIPSE SPYDER / 07-11	SWM31148-1	95.25		0.047		0.138				11-848-1	95.25	CH:	29.10	PD:	22.00	DIA
ENDEVOR / 04-11	SWM31148-2	95.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-848-2	95.50	DIST1:	0.20	Head:	AH	12.00
GALANT / 04-09	SWM31148-3	95.75		0.047		0.134				11-848-3	95.75	DIST2:		Skirt:	MS	
MONTERO / 03-06	SWM31148-4	96.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED	11-848-4	96.00	DIST3:				
	REFERENCE # MN183867		TOP		2ND		OIL			REFERENCE # MN128276 MN183040						
4.7L (287CID,4701CC),SOHC,8CYL, 93.000MM (3.661"), Power Tech 4.7 / 2006-2007																
RAIDER / 06-07	SWC10021-0	93.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-807-0	93.00	TL:	53.90	PL:	59.00	CHK.
	SWC10021-1	93.25		0.059		0.128				11-807-1	93.25	CH:	31.80	PD:	24.02	DIA
	SWC10021-2	93.50	2nd:	1.500	X	3.900	T1-RC	CAST IRON	PHOSPHATE	11-807-2	93.50	DIST1:		Head:	NONE	13.00
	SWC10021-3	93.75		0.059		0.154				11-807-3	93.75	DIST2:		Skirt:	MS	
	SWC10021-4	94.00	Oil:	3.000	X	3.000	NIF-S	STEEL	CHROME	11-807-4	94.00	DIST3:				
	AM Ring Available			0.118		0.118										
	REFERENCE # 5012364AC		TOP		2ND		OIL			REFERENCE # 5012362AB 5012362AC						

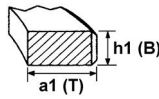
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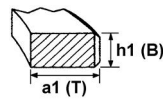
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.2L (75CID,1237CC),4CYL, 75.000MM (2.953"), A12A / 1980-1981																
210 / 80-81	SWN30073-0	75.00	Top:	2.000	X	3.200	T1	DUCTILE IRON	CHROME	DISC-11-037-0	75.00					
	SWN30073-1	75.25		0.079		0.126				DISC-11-037-1	75.25					
	SWN30073-2	75.50	2nd:	2.000	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-037-2	75.50					
	SWN30073-3	75.75		0.079		0.126				DISC-11-037-3	75.75					
	SWN30073-4	76.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-037-4	76.00					
	REFERENCE # 12033-H8500		TOP		2ND		OIL			REFERENCE # 12010-H9022						
1.2L (75CID,1237CC),4CYL, 75.000MM (2.953"), A12A / 1982-1982																
210 / 82-82	SWN30073-0	75.00	Top:	2.000	X	3.200	T1	DUCTILE IRON	CHROME	DISC-11-040-0	75.00					
	SWN30073-1	75.25		0.079		0.126				DISC-11-040-1	75.25					
	SWN30073-2	75.50	2nd:	2.000	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-040-2	75.50					
	SWN30073-3	75.75		0.079		0.126				DISC-11-040-3	75.75					
	SWN30073-4	76.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-040-4	76.00					
	REFERENCE # 12033-H8500		TOP		2ND		OIL			REFERENCE # 12010-H9512						



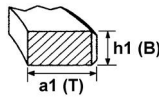
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (79CID,1288CC),4CYL, 73.000MM (2.874"), A13 / 1974-1974																
B210 / 74-74	SWN30026-0	73.00	Top:	2.000	X	3.000	T1	CAST IRON	CHROME	DISC-11-041-0	73.00					
	SWN30026-1	73.25		0.079						0.118	DISC-11-041-1	73.25				
	SWN30026-2	73.50	2nd:	2.000	X	3.000	T1	CAST IRON	PHOSPHATE	DISC-11-041-2	73.50					
	SWN30026-3	73.75		0.079						0.118	DISC-11-041-3	73.75				
	SWN30026-4	74.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-041-4	74.00					
		0.157	0.118													
	REFERENCE # 12033-H6200	TOP	2ND	OIL					REFERENCE # 12010-H6211							
1.4L (85CID,1397CC),4CYL, 76.000MM (2.992"), A14 / 1975-1982																
210 / 79-82 310 / 79-80 B210 / 75-78	SWN30045-0	76.00	Top:	2.000	X	3.200	BF	STEEL	CHROME	DISC-11-044-0	76.00					
	SWN30045-1	76.25		0.079						0.126	DISC-11-044-1	76.25				
	SWN30045-2	76.50	2nd:	2.000	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-044-2	76.50					
	SWN30045-3	76.75		0.079						0.134	DISC-11-044-3	76.75				
	SWN30045-4	77.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-044-4	77.00					
		0.157	0.128													
	REFERENCE # 12033-H7200 12033-H8920	TOP	2ND	OIL					REFERENCE # 12010-H7684 12010-H7685 12010-H7711							
1.4L (85CID,1397CC),4CYL, 76.000MM (2.992"), A14 / 1977-1978																
B210 / 77-78	SWN30052-0	76.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	DISC-11-047-0	76.00					
	SWN30052-1	76.25		0.047						0.120	DISC-11-047-1	76.25				
	SWN30052-2	76.50	2nd:	2.000	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-047-2	76.50					
	SWN30052-3	76.75		0.079						0.134	DISC-11-047-3	76.75				
	SWN30052-4	77.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-047-4	77.00					
		0.157	0.128													
	REFERENCE # 12033-H7680 12033-H9820	TOP	2ND	OIL					REFERENCE # 12010-H8702							
1.5L (91CID,1487CC),SOHC,4CYL, 76.000MM (2.992"), E15T / 1983-1983 TURBO																
PULSAR / 83-83	SWN30057-0	76.00	Top:	1.500	X	2.650	BF	STEEL	CHROME	DISC-11-051-0	76.00					
	SWN30057-1	76.25		0.059						0.104	DISC-11-051-1	76.25				
	SWN30057-2	76.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-051-2	76.50					
	SWN30057-3	76.75		0.059						0.134	DISC-11-051-3	76.75				
	SWN30057-4	77.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-051-4	77.00					
		0.157	0.118													
	REFERENCE # 12033-50A00 12033-61A01	TOP	2ND	OIL					REFERENCE # 12010-17M12							



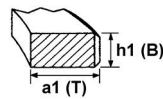
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1488CC),4CYL, 76.000MM (2.992"), A15 / 1979-1980																
210 / 79-80	SWN30052-0	76.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	DISC-11-048-0	76.00					
	SWN30052-1	76.25		0.047		0.120				DISC-11-048-1	76.25					
	SWN30052-2	76.50	2nd:	2.000	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-048-2	76.50					
	SWN30052-3	76.75		0.079		0.134				DISC-11-048-3	76.75					
	SWN30052-4	77.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-048-4	77.00					
		0.157	0.128													
	REFERENCE # 12033-H7680 12033-H9820	TOP	2ND	OIL		REFERENCE # 12010-H9704										
1.5L (91CID,1488CC),4CYL, 76.000MM (2.992"), A15 / 1981-1982																
210 / 81-82 310 / 81-81	SWN30052-0	76.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-049-0	76.00	TL:	65.00	PL:	63.00	CHK.
	SWN30052-1	76.25		0.047		0.120				11-049-1	76.25	CH:	30.00	PD:	19.00	DIA
	SWN30052-2	76.50	2nd:	2.000	X	3.400	TUC	CAST IRON	PHOSPHATE	11-049-2	76.50	DIST1:	-6.50	Head:	NONE	10.00
	SWN30052-3	76.75		0.079		0.134				11-049-3	76.75	DIST2:		Skirt:	NONE	
	SWN30052-4	77.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-049-4	77.00	DIST3:				
		0.157	0.128													
	REFERENCE # 12033-H7680 12033-H9820	TOP	2ND	OIL		REFERENCE # 12010-H9802										
1.5L (91CID,1488CC),SOHC,4CYL, 76.000MM (2.992"), E15,E15S / 1982-1983																
310 / 82-82 SENTRA / 82-83	SWN30057-0	76.00	Top:	1.500	X	2.650	BF	STEEL	CHROME	11-050-0	76.00	TL:	62.70	PL:	62.00	CHK.
	SWN30057-1	76.25		0.059		0.104				11-050-1	76.25	CH:	32.50	PD:	19.00	DIA
	SWN30057-2	76.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-050-2	76.50	DIST1:	-9.40	Head:	NONE	10.00
	SWN30057-3	76.75		0.059		0.134				11-050-3	76.75	DIST2:		Skirt:	NONE	
	SWN30057-4	77.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	CHROME	11-050-4	77.00	DIST3:				
		0.157	0.118													
	REFERENCE # 12033-50A00 12033-61A01	TOP	2ND	OIL		REFERENCE # 12010-11M22										
1.6L (97CID,1595CC),4CYL, 83.000MM (3.268"), L16 / 1972-1972																
620 / 72-72	SWN30014-0	83.00	Top:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-053-0	83.00					
	SWN30014-1	83.25		0.079		0.142				DISC-11-053-1	83.25					
	SWN30014-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-053-2	83.50					
	SWN30014-3	83.75		0.079		0.150				DISC-11-053-3	83.75					
	SWN30014-4	84.00	Oil:	4.000	X	3.750	NIFF-S	STEEL	CHROME	DISC-11-053-4	84.00					
		0.157	0.148													
	REFERENCE # 12033-A3501	TOP	2ND	OIL		REFERENCE # 12010-23002										



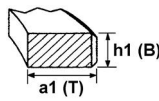
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO										
1.6L (97CID,1595CC),4CYL, 83.000MM (3.268"), L16 / 1973-1973																				
620 / 73-73	SWN30014-0	83.00	Top: 2.000 0.079	X	3.600 0.142	T1	CAST IRON	CHROME	DISC-11-054-0	83.00										
	SWN30014-1	83.25							DISC-11-054-1	83.25										
	SWN30014-2	83.50	2nd: 2.000 0.079	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	DISC-11-054-2	83.50										
	SWN30014-3	83.75							DISC-11-054-3	83.75										
	SWN30014-4	84.00	Oil: 4.000 0.157	X	3.750 0.148	NIFF-S	STEEL	CHROME	DISC-11-054-4	84.00										
REFERENCE # 12033-A3501	TOP	2ND	OIL	REFERENCE # 12010-H2501																
1.6L (97CID,1595CC),OHV,4CYL, 87.200MM (3.433"), R16 / 1966-1967																				
411 / 66-67	SWN30069-0	87.20	Top: 2.000 0.079	X	4.050 0.159	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.											
	SWN30069-1	87.45																		
	SWN30069-2	87.70	2nd: 2.500 0.098	X	4.050 0.159	TUC	CAST IRON	PHOSPHATE												
	SWN30069-3	87.95																		
	SWN30069-4	88.20	Oil: 4.000 0.157	X	3.800 0.150	NIFF-S	STEEL	CHROME												
REFERENCE # 12033-14601 12033-R9000	TOP	2ND	OIL																	
1.6L (97CID,1595CC),OHV,4CYL, 87.200MM (3.433"), R16 / 1966-1970																				
SRL 311 / 66-70	SWN30069-0	87.20	Top: 2.000 0.079	X	4.050 0.159	BF	CAST IRON	CHROME	DISC-11-055-0	87.20										
	SWN30069-1	87.45							DISC-11-055-1	87.45										
	SWN30069-2	87.70	2nd: 2.500 0.098	X	4.050 0.159	TUC	CAST IRON	PHOSPHATE	DISC-11-055-2	87.70										
	SWN30069-3	87.95							DISC-11-055-3	87.95										
	SWN30069-4	88.20	Oil: 4.000 0.157	X	3.800 0.150	NIFF-S	STEEL	CHROME	DISC-11-055-4	88.20										
REFERENCE # 12033-14601 12033-R9000	TOP	2ND	OIL	REFERENCE #																
1.6L (97CID,1595CC),SOHC,4CYL, 83.000MM (3.268"), L16 / 1972-1972																				
521 / 72-72	SWN30014-0	83.00	Top: 2.000 0.079	X	3.600 0.142	T1	CAST IRON	CHROME	DISC-11-053-0	83.00										
	SWN30014-1	83.25							DISC-11-053-1	83.25										
	SWN30014-2	83.50	2nd: 2.000 0.079	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	DISC-11-053-2	83.50										
	SWN30014-3	83.75							DISC-11-053-3	83.75										
	SWN30014-4	84.00	Oil: 4.000 0.157	X	3.750 0.148	NIFF-S	STEEL	CHROME	DISC-11-053-4	84.00										
REFERENCE # 12033-A3501	TOP	2ND	OIL	REFERENCE # 12010-23002																



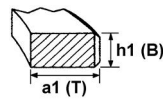
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),DOHC,4CYL, 76.000MM (2.992"), GA16DE / 1991-1994																
NX / 91-93 SENTRA / 91-94	SWN30104-0	76.00	Top:	1.500	X	3.300	BF	DUCTILE IRON	CHROME	11-601-0	76.00	TL:	54.00	PL:	52.00	CHK.
	SWN30104-1	76.25		0.059		0.130		IRON		11-601-1	76.25	CH:	29.50	PD:	19.00	DIA
	SWN30104-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-601-2	76.50	DIST1:	-4.80	Head:	NONE	10.00
	SWN30104-3	76.75		0.059		0.126				11-601-3	76.75	DIST2:		Skirt:	NONE	
	SWN30104-4	77.00		Oil:		2.800				2.850	NIFF-S	STEEL	CHROME	11-601-4	77.00	DIST3:
	REFERENCE # 12033-57Y01		TOP		2ND		OIL		REFERENCE # A2010-57Y00							
1.6L (97CID,1597CC),DOHC,4CYL, 76.000MM (2.992"), GA16DE / 1995-1999																
200SX / 95-98 SENTRA / 95-99	SWN30116-0	76.00	Top:	1.500	X	3.050	T1-IB	STEEL	CHROME	11-680-0	76.00	TL:	54.30	PL:	52.00	CHK.
	SWN30116-1	76.25		0.059		0.120				11-680-1	76.25	CH:	29.70	PD:	19.00	DIA
	SWN30116-2	76.50	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-680-2	76.50	DIST1:	-4.70	Head:	AH	12.00
	SWN30116-3	76.75		0.110		0.100				11-680-3	76.75	DIST2:		Skirt:	NONE	
	SWN30116-4	77.00		11-680-4		77.00				DIST3:						
	REFERENCE # 12033-1M200		TOP		OIL		REFERENCE # A2010-0M210									
1.6L (97CID,1597CC),SOHC,4CYL, 76.000MM (2.992"), E16, E16i, E16S / 1983-1988																
PULSAR / 83-86 SENTRA / 83-88	SWN30057-0	76.00	Top:	1.500	X	2.650	BF	STEEL	CHROME	11-052-0	76.00	TL:	62.50	PL:	62.00	CHK.
	SWN30057-1	76.25		0.059		0.104				11-052-1	76.25	CH:	32.50	PD:	19.00	DIA
	SWN30057-2	76.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-052-2	76.50	DIST1:	-9.50	Head:	NONE	10.00
	SWN30057-3	76.75		0.059		0.134				11-052-3	76.75	DIST2:		Skirt:	NONE	
	SWN30057-4	77.00		Oil:		4.000				3.000	NIFF-S	STEEL	CHROME	11-052-4	77.00	DIST3:
	REFERENCE # 12033-50A00 12033-61A01		TOP		2ND		OIL		REFERENCE # 12010-33M22							
1.6L (97CID,1597CC),SOHC,4CYL, 76.000MM (2.992"), GA16i / 1989-1990																
PULSAR / 89-90 SENTRA / 89-90	SWN30097-0	76.00	Top:	1.500	X	2.670	BF	STEEL	CHROME	11-590-0	76.00	TL:	54.00	PL:	52.00	CHK.
	SWN30097-1	76.25		0.059		0.105				11-590-1	76.25	CH:	29.50	PD:	19.00	DIA
	SWN30097-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	CHROME	11-590-2	76.50	DIST1:	-5.20	Head:	NONE	15.00
	SWN30097-3	76.75		0.059		0.126				11-590-3	76.75	DIST2:		Skirt:	NONE	
	SWN30097-4	77.00		Oil:		2.800				2.800	NIFF-S	STEEL	CHROME	11-590-4	77.00	DIST3:
	REFERENCE # 12033-84A11		TOP		2ND		OIL		REFERENCE # 12010-84A61							



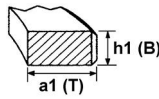
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), CA16DE / 1987-1987																	
PULSAR / 87-87	SWN30111-0	78.00	Top:	1.500	X	2.900	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30111-1	78.25		0.059		0.114											
	SWN30111-2	78.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE								
	SWN30111-3	78.75		0.059		0.134											
	SWN30111-4	79.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME								
		0.110		0.118													
REFERENCE #	12033-55M00	TOP	2ND	OIL													
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), HR16DE / 2009-2012																	
VERSA / 09-12	SWN30196-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME		11-893-0	78.00	TL:	46.80	PL:	53.50	CHK.
	SWN30196-1	78.25		0.047		0.096							11-893-1	78.25	CH:	28.50	PD:
	SWN30196-2	78.50	2nd:	1.200	X	2.700	T1	CAST IRON	PHOSPHATE	11-893-2	78.50	DIST1:	-4.50	Head:	AH		
	SWN30196-3	78.75		0.047		0.106						11-893-3	78.75	DIST2:		Skirt:	MS
	SWN30196-4	79.00	Oil:	2.000	X	2.300	NIFF-H	STEEL	CHROME	11-893-4	79.00	DIST3:					
		0.079		0.091													
REFERENCE #	12033-EE000	TOP	2ND	OIL				REFERENCE #	A2010-ED500								
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), HR16DE / 2013-2017																	
VERSA / 13-17	SWN30196-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30196-1	78.25		0.047		0.096											
	SWN30196-2	78.50	2nd:	1.200	X	2.700	T1	CAST IRON	PHOSPHATE								
	SWN30196-3	78.75		0.047		0.106											
	SWN30196-4	79.00	Oil:	2.000	X	2.300	NIFF-H	STEEL	CHROME								
		0.079		0.091													
REFERENCE #	12033-EE000	TOP	2ND	OIL													
1.6L (99CID,1618CC),DOHC,4CYL, 79.700MM (3.138"), MR16DDT / 2011-2015 TURBO																	
JUKE / 11-15	SWN30186-0	79.70	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30186-1	79.95		0.047		0.098											
	SWN30186-2	80.20	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE								
	SWN30186-3	80.45		0.039		0.106											
	SWN30186-4	80.70	Oil:	2.000	X	2.400	NIFF-H	STEEL	NITRIDED								
		0.079		0.094													
REFERENCE #	12033-1KC0A	TOP	2ND	OIL													



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
1.7L (103CID,1680CC),4CYL, 80.00MM (3.150"), CD17 / 1983-1986 DIESEL																						
SENTRA / 83-86	SDN30088-0	80.00	Top:	1.750	X	2.850	BF-IB	STEEL	CHROME	DISC-11-056-0	80.00											
	SDN30088-1	80.25		0.069	0.112	DISC-11-056-1				80.25												
	SDN30088-2	80.50	2nd:	2.000	X	3.300	T1-IC	CAST IRON	CHROME	DISC-11-056-2	80.50											
	SDN30088-3	80.75		0.079	0.130	DISC-11-056-3				80.75												
	SDN30088-4	81.00	Oil:	3.000	X	3.250	E-BC16	STEEL	NITRIDED	DISC-11-056-4	81.00											
	REFERENCE # 12033-16A10	TOP	2ND	OIL	REFERENCE # 12010-17A02																	
1.8L (108CID,1769CC),DOHC,4CYL, 80.00MM (3.150"), QG18DE / 2000-2002																						
SENTRA / 00-02	SWN30142-0	80.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-869-0	80.00	TL:	53.70	PL:	51.50	CHK.	DIA	12.50				
	SWN30142-1	80.25		0.047	0.112	11-869-1				80.25												
	SWN30142-2	80.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-869-2	80.50								DIST1:	-4.70	Head:	AH
	SWN30142-3	80.75		0.047	0.134	11-869-3				80.75	DIST2:											
	SWN30142-4	81.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-869-4												
	REFERENCE # 12033-5M001 12033-5M060	TOP	2ND	OIL	REFERENCE # A2010-5M010																	
1.8L (108CID,1769CC),DOHC,4CYL, 80.00MM (3.150"), QG18DE / 2003-2006																						
SENTRA / 03-06	SWN30142-0	80.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-876-0		80.00	TL:	53.70	PL:	52.00	CHK.	DIA	10.00			
	SWN30142-1	80.25		0.047	0.112	11-876-1				80.25												
	SWN30142-2	80.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-876-2	80.50	DIST1:								-4.80	Head:	ARL
	SWN30142-3	80.75		0.047	0.134	11-876-3				80.75	DIST2:											
	SWN30142-4	81.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-876-4												
	REFERENCE # 12033-5M001 12033-5M060	TOP	2ND	OIL	REFERENCE # A2010-F4670																	
1.8L (108CID,1770CC),SOHC,4CYL, 85.00MM (3.346"), L18 / 1973-1974																						
610 / 73-73 620 / 74-74 710 / 74-74	SWN30020-0	85.00	Top:	2.000	X	3.050	BF	STEEL	CHROME	DISC-11-057-0		85.00										
	SWN30020-1	85.25		0.079	0.120	DISC-11-057-1				85.25												
	SWN30020-2	85.50	2nd:	2.000	X	4.200	T1	CAST IRON	PHOSPHATE	DISC-11-057-2	85.50											
	SWN30020-3	85.75		0.079	0.165	DISC-11-057-3				85.75												
	SWN30020-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-057-4	86.00											
	REFERENCE # 12033-A8702	TOP	2ND	OIL	REFERENCE # 12010-U2001																	



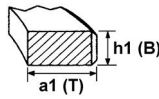
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
1.8L (110CID,1797CC),DOHC,4CYL, 84.000MM (3.307"), MR18DE / 2007-2014											
Cube / 09-14 VERSA / 07-12	SWN30154-0	84.00	Top: 1.200 0.047	X	2.650 0.104	BF	STEEL	CHROME	11-849-0	84.00	TL: 52.80 CH: 31.20 DIST1: 3.20 DIST2: DIST3: PL: 53.00 PD: 19.99 Head: AH Skirt: MS CHK. DIA 5.50
	SWN30154-1	84.25							11-849-1	84.25	
	SWN30154-2	84.50	2nd: 1.200 0.047	X	3.000 0.118	TUC	CAST IRON	PHOSPHATE	11-849-2	84.50	
	SWN30154-3	84.75							11-849-3	84.75	
	SWN30154-4	85.00	Oil: 2.000 0.079	X	2.550 0.100	NIFF-H	STEEL	CHROME	11-849-4	85.00	
REFERENCE # 12033-EN200 12033-EN20A	TOP	2ND	OIL	REFERENCE # A2010-ED800 A2010-ED80A							
1.8L (110CID,1809CC),DOHC,4CYL, 83.000MM (3.268"), CA18DE / 1988-1989											
PULSAR / 88-89	SWN30090-0	83.00	Top: 1.500 0.059	X	2.900 0.114	BF-IB	STEEL	NITRIDED	DISC-11-768-0	83.00	
	SWN30090-1	83.25							DISC-11-768-1	83.25	
	SWN30090-2	83.50	2nd: 1.500 0.059	X	3.600 0.142	T1	CAST IRON	CHROME	DISC-11-768-2	83.50	
	SWN30090-3	83.75							DISC-11-768-3	83.75	
	SWN30090-4	84.00	Oil: 2.800 0.110	X	2.800 0.110	NIFF-S	STEEL	NITRIDED	DISC-11-768-4	84.00	
REFERENCE # 12033-18F00 12033-D4210	TOP	2ND	OIL	REFERENCE # 12010-51E61							
1.8L (110CID,1809CC),SOHC,4CYL, 83.000MM (3.268"), CA18ET / 1984-1986 TURBO											
200SX / 84-86	SWN30090-0	83.00	Top: 1.500 0.059	X	2.900 0.114	BF-IB	STEEL	NITRIDED	DISC-11-058-0	83.00	
	SWN30090-1	83.25							DISC-11-058-1	83.25	
	SWN30090-2	83.50	2nd: 1.500 0.059	X	3.600 0.142	T1	CAST IRON	CHROME	DISC-11-058-2	83.50	
	SWN30090-3	83.75							DISC-11-058-3	83.75	
	SWN30090-4	84.00	Oil: 2.800 0.110	X	2.800 0.110	NIFF-S	STEEL	NITRIDED	DISC-11-058-4	84.00	
REFERENCE # 12033-18F00 12033-D4210	TOP	2ND	OIL	REFERENCE # 12010-17F11							
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), L20B / 1974-1979											
200SX / 77-79 510 / 78-79 610 / 74-76 620 / 75-79 710 / 75-77 PICKUP / 79-79	SWN30048-0	85.00	Top: 2.000 0.079	X	3.900 0.154	T1	CAST IRON	CHROME	11-059-0	85.00	TL: 78.10 CH: 38.10 DIST1: -2.20 DIST2: DIST3: PL: 72.00 PD: 21.00 Head: NONE Skirt: NONE CHK. DIA 15.00
	SWN30048-1	85.25							11-059-1	85.25	
	SWN30048-2	85.50	2nd: 2.000 0.079	X	4.200 0.165	T1	CAST IRON	PHOSPHATE	11-059-2	85.50	
	SWN30048-3	85.75							11-059-3	85.75	
	SWN30048-4	86.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-059-4	86.00	
REFERENCE # 12033-U6001 12033-W0815	TOP	2ND	OIL	REFERENCE # 12010-U6001 12010-U6021							



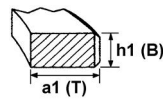
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), L20B / 1980-1980																
720 / 80-80 PICKUP / 80-80	SWN30048-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	11-060-0	85.00	TL:	78.00	PL:	72.00	CHK. DIA 15.00
	SWN30048-1	85.25		0.079		0.154				11-060-1	85.25	CH:	38.00	PD:	21.00	
	SWN30048-2	85.50	2nd:	2.000	X	4.200	T1	CAST IRON	PHOSPHATE	11-060-2	85.50	DIST1:	-3.00	Head:	NONE	
	SWN30048-3	85.75		0.079		0.165				11-060-3	85.75	DIST2:		Skirt:	NONE	
	SWN30048-4	86.00		Oil:		4.000				0.157	3.250	0.128	NIFF-S	STEEL	CHROME	11-060-4
REFERENCE # 12033-U6001 12033-W0815		TOP			2ND		OIL		REFERENCE # 12010-04W11							
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), Z20 / 1983-1986																
720 / 83-86 PICKUP / 83-86	SWN30086-0	85.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-066-0	85.00					
	SWN30086-1	85.25		0.059		0.120				DISC-11-066-1	85.25					
	SWN30086-2	85.50	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-066-2	85.50					
	SWN30086-3	85.75		0.059		0.146				DISC-11-066-3	85.75					
	SWN30086-4	86.00		Oil:		4.000				0.157	3.150	0.124	NIFF-S	STEEL	CHROME	DISC-11-066-4
REFERENCE # 12033-N8510 12033-N8520		TOP			2ND		OIL		REFERENCE # 12010-82W11 12010-W4001							
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), Z20E,Z20S / 1980-1981																
200SX / 80-81 510 / 80-81	SWN30086-0	85.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-064-0	85.00	TL:	67.00	PL:	72.00	CHK. DIA 20.00
	SWN30086-1	85.25		0.059		0.120				11-064-1	85.25	CH:	32.00	PD:	21.00	
	SWN30086-2	85.50	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-064-2	85.50	DIST1:	-1.50	Head:	NONE	
	SWN30086-3	85.75		0.059		0.146				11-064-3	85.75	DIST2:	-2.50	Skirt:	NONE	
	SWN30086-4	86.00		Oil:		4.000				0.157	3.150	0.124	NIFF-S	STEEL	CHROME	11-064-4
REFERENCE # 12033-N8510 12033-N8520		TOP			2ND		OIL		REFERENCE # 12010-N8701							
2.0L (120CID,1974CC),SOHC,4CYL, 84.500MM (3.327"), CA20E / 1984-1989																
200SX / 84-88 STANZA / 84-89	SWN30053-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-062-0	84.50	TL:	65.00	PL:	61.00	CHK. DIA 30.00
	SWN30053-1	84.75		0.059		0.120				11-062-1	84.75	CH:	30.00	PD:	20.00	
	SWN30053-2	85.00	2nd:	1.500	X	3.700	T1	CAST IRON	CHROME	11-062-2	85.00	DIST1:	-2.20	Head:	NONE	
	SWN30053-3	85.25		0.059		0.146				11-062-3	85.25	DIST2:		Skirt:	NONE	
	SWN30053-4	85.50		Oil:		4.000				0.157	3.050	0.120	NIFF-S	STEEL	CHROME	11-062-4
REFERENCE # 12033-04E10		TOP			2ND		OIL		REFERENCE # 12010-10F11							



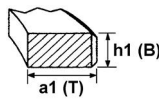
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (120CID,1974CC),SOHC,4CYL, 84.500MM (3.327"), CA20S / 1982-1983																
STANZA / 82-83	SWN30053-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-063-0	84.50					
	SWN30053-1	84.75		0.059		0.120				DISC-11-063-1	84.75					
	SWN30053-2	85.00	2nd:	1.500	X	3.700	T1	CAST IRON	CHROME	DISC-11-063-2	85.00					
	SWN30053-3	85.25		0.059		0.146				DISC-11-063-3	85.25					
	SWN30053-4	85.50	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-063-4	85.50					
		0.157	0.120													
	REFERENCE # 12033-04E10	TOP	2ND	OIL					REFERENCE # 12010-D1811							
2.0L (121CID,1982CC),OHV,4CYL, 87.200MM (3.433"), U20 / 1967-1970																
SRL 311 / 67-70	SWN30024-0	87.20	Top:	2.000	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30024-1	87.45		0.079		0.159										
	SWN30024-2	87.70	2nd:	2.000	X	4.050	ES-TUC	CAST IRON	PHOSPHATE							
	SWN30024-3	87.95		0.079		0.159										
	SWN30024-4	88.20	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME							
		0.157	0.150													
	REFERENCE # 12033-25502	TOP	2ND	OIL												
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1991-1998																
200SX / 95-98 NX / 91-93 SENTRA / 91-94	SWN30102-0	86.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-602-0	86.00	TL:	63.00	PL:	60.00	CHK.
	SWN30102-1	86.25		0.059		0.120				11-602-1	86.25	CH:	32.00	PD:	22.00	DIA
	SWN30102-2	86.50	2nd:	1.500	X	3.650	T1	CAST IRON	CHROME	11-602-2	86.50	DIST1:	-0.90	Head:	NONE	10.00
	SWN30102-3	86.75		0.059		0.144				11-602-3	86.75	DIST2:		Skirt:	NONE	
	SWN30102-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-602-4	87.00	DIST3:				
		0.118	0.118													
	REFERENCE # 12033-53J01 12033-53J10	TOP	2ND	OIL					REFERENCE # A2010-63J00 A3020-63J00							
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1998-2001																
SENTRA / 98-01	SWN30123-0	86.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30123-1	86.25		0.047		0.122										
	SWN30123-2	86.50	2nd:	1.200	X	3.700	T1	CAST IRON	CHROME							
	SWN30123-3	86.75		0.047		0.146										
	SWN30123-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED							
		0.098	0.112													
	REFERENCE # 12033-2J210 12033-4M802	TOP	2ND	OIL												



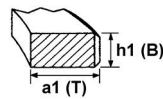
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1999CC),DOCH,4CYL, 84.000MM (3.307"), MR20DE / 2013-2017																
NV200 / 13-17	SWN30154-0	84.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
NV200 TAXI / 14-17	SWN30154-1	84.25		0.047		0.104										
	SWN30154-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE							
	SWN30154-3	84.75		0.047		0.118										
	SWN30154-4	85.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME							
	REFERENCE #		TOP	2ND	OIL											
	12033-EN200															
	12033-EN20A															
2.0L (122CID,1999CC),DOHC,4CYL, 84.000MM (3.307"), MR20DE / 2007-2012																
SENTRA / 07-12	SWN30154-0	84.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30154-1	84.25		0.047		0.104										
	SWN30154-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE							
	SWN30154-3	84.75		0.047		0.118										
	SWN30154-4	85.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME							
	REFERENCE #		TOP	2ND	OIL											
	12033-EN200															
	12033-EN20A															
2.2L (132CID,2164CC),4CYL, 83.000MM (3.268"), SD22 / 1981-1982 DIESEL																
720 / 81-82	SDN31027-0	83.00	Top:	2.500	X	3.500	BF	DUCTILE IRON	CHROME	11-068-0	83.00	TL:	90.00	PL:	71.00	CHK.
PICKUP / 81-82	SDN31027-1	83.25		0.098		0.138				11-068-1	83.25	CH:	48.00	PD:	26.00	DIA
	SDN31027-2	83.50	2nd:	2.000	X	3.400	T1-IC	DUCTILE IRON	CHROME	11-068-2	83.50	DIST1:	-2.00	Head:	NONE	15.00
	SDN31027-3	83.75		0.079		0.134				11-068-3	83.75	DIST2:	-0.50	Skirt:	NONE	
	SDN31027-4	84.00	Oil:	4.500	X	3.900	E-BC3	CAST IRON	CHROME	11-068-4	84.00	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	12033-R8112								12010-36W10							
2.2L (133CID,2181CC),SOHC,4CYL, 87.000MM (3.425"), Z22 / 1981-1982																
720 / 81-82	SWN30054-0	87.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-069-0	87.00	TL:	72.00	PL:	64.00	CHK.
PICKUP / 81-82	SWN30054-1	87.25		0.059		0.120				11-069-1	87.25	CH:	32.00	PD:	21.00	DIA
	SWN30054-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-069-2	87.50	DIST1:	-2.50	Head:	NONE	10.00
	SWN30054-3	87.75		0.059		0.150				11-069-3	87.75	DIST2:		Skirt:	NONE	
	SWN30054-4	88.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-069-4	88.00	DIST3:				
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	12033-06W20								12010-06W21							



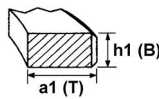
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.2L (133CID,2181CC),SOHC,4CYL, 87.000MM (3.425"), Z22E / 1982-1983													
200SX / 82-83	SWN30054-0	87.00	Top: 1.500 0.059	X	3.050 0.120	BF	STEEL	CHROME	11-236-0	87.00	TL: 67.00	PL: 72.00	CHK. DIA 10.00
	SWN30054-1	87.25							11-236-1	87.25	CH: 32.00	PD: 21.00	
	SWN30054-2	87.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	CHROME	11-236-2	87.50	DIST1: -2.20	Head: NONE	
	SWN30054-3	87.75							11-236-3	87.75	DIST2:	Skirt: NONE	
	SWN30054-4	88.00	Oil: 4.000 0.157	X	3.050 0.120	NIFF-S	STEEL	NITRIDED	11-236-4	88.00	DIST3:		
REFERENCE # 12033-06W20	TOP	2ND	OIL	REFERENCE # 12010-D8111									
2.4L (146CID,2389CC),6CYL, 83.000MM (3.268"), L24 / 1972-1973													
240Z / 72-73	SWN30034-0	83.00	Top: 2.000 0.079	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	11-071-0	83.00	TL: 78.00	PL: 72.00	CHK. DIA 25.00
	SWN30034-1	83.25							11-071-1	83.25	CH: 38.00	PD: 21.00	
	SWN30034-2	83.50	2nd: 2.000 0.079	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	11-071-2	83.50	DIST1:	Head: NONE	
	SWN30034-3	83.75							11-071-3	83.75	DIST2:	Skirt: NONE	
	SWN30034-4	84.00	Oil: 4.000 0.157	X	3.900 0.154	NIFF-S	STEEL	CHROME	11-071-4	84.00	DIST3:		
REFERENCE # 12033-A8600 12033-E3100	TOP	2ND	OIL	REFERENCE # 12010-H2701									
2.4L (146CID,2389CC),DOHC,4CYL, 89.000MM (3.504"), KA24DE / 1991-1998													
240SX / 91-98	SWN30096-0	89.00	Top: 1.500 0.059	X	3.270 0.129	BF-IB	STEEL	CHROME	11-598-0	89.00	TL: 68.30	PL: 61.50	CHK. DIA 17.00
	SWN30096-1	89.25							11-598-1	89.25	CH: 34.00	PD: 21.00	
	SWN30096-2	89.50	2nd: 1.500 0.059	X	3.900 0.154	T1	CAST IRON	CHROME	11-598-2	89.50	DIST1: -6.60	Head: AH	
	SWN30096-3	89.75							11-598-3	89.75	DIST2:	Skirt: NONE	
	SWN30096-4	90.00	Oil: 2.800 0.110	X	3.150 0.124	NIFF-S	STEEL	CHROME	11-598-4	90.00	DIST3:		
REFERENCE # 12033-53F01 12033-70F00	TOP	2ND	OIL	REFERENCE # A2010-53F00									
2.4L (146CID,2389CC),DOHC,4CYL, 89.000MM (3.504"), KA24DE / 1993-1997													
ALTIMA / 93-97	SWN30118-0	89.00	Top: 1.500 0.059	X	3.050 0.120	BF-IB	STEEL	CHROME	11-609-0	89.00	TL: 68.30	PL: 61.50	CHK. DIA 17.00
	SWN30118-1	89.25							11-609-1	89.25	CH: 34.00	PD: 21.00	
	SWN30118-2	89.50	2nd: 1.500 0.059	X	3.900 0.154	T1	CAST IRON	CHROME	11-609-2	89.50	DIST1: -6.60	Head: AH	
	SWN30118-3	89.75							11-609-3	89.75	DIST2:	Skirt: NONE	
	SWN30118-4	90.00	Oil: 2.800 0.110	X	3.150 0.124	NIFF-S	STEEL	CHROME	11-609-4	90.00	DIST3:		
REFERENCE # 12033-4E100 12033-86G00	TOP	2ND	OIL	REFERENCE # A2010-1E400									



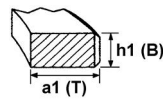
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (146CID,2389CC),DOHC,4CYL, 89.000MM (3.504"), KA24DE / 1998-2004																
ALTIMA / 98-01	SWN30143-0	89.00	Top:	1.200	X	3.250	BF-IB	STEEL	CHROME	11-755-0	89.00	TL:	60.90	PL:	57.00	CHK.
FRONTIER / 98-04	SWN30143-1	89.25		0.047		0.128						11-755-1	89.25	CH:	34.00	PD:
XTERRA / 00-04	SWN30143-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-755-2	89.50	DIST1:	-6.40	Head:	AH	10.00
	SWN30143-3	89.75		0.047		0.150						11-755-3	89.75	DIST2:	-6.50	Skirt:
	SWN30143-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-755-4	90.00	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-0Z810				A2010-1Z102											
	12033-9E000				A2010-8Z310											
					A2010-9E000											
					A2010-9E001											
					A2010-9E002											
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), KA24E / 1989-1992																
240SX / 89-90	SWN30096-0	89.00	Top:	1.500	X	3.270	BF-IB	STEEL	CHROME	11-600-0	89.00	TL:	68.30	PL:	59.00	CHK.
AXXESS / 90-90	SWN30096-1	89.25		0.059		0.129						11-600-1	89.25	CH:	34.00	PD:
STANZA / 90-92	SWN30096-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-600-2	89.50	DIST1:	-0.50	Head:	NONE	5.00
	SWN30096-3	89.75		0.059		0.154						11-600-3	89.75	DIST2:		Skirt:
	SWN30096-4	90.00	Oil:	2.800	X	3.150	NIFF-S	STEEL	CHROME	11-600-4	90.00	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-53F01				12010-40F10											
	12033-70F00				A2010-30R10											
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), KA24E / 1990-1999																
PICKUP / 90-99	SWN30118-0	89.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-676-0	89.00	TL:	68.30	PL:	66.50	CHK.
	SWN30118-1	89.25		0.059		0.120						11-676-1	89.25	CH:	34.00	PD:
	SWN30118-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-676-2	89.50	DIST1:	-0.60	Head:	NONE	10.00
	SWN30118-3	89.75		0.059		0.154						11-676-3	89.75	DIST2:		Skirt:
	SWN30118-4	90.00	Oil:	2.800	X	3.150	NIFF-S	STEEL	CHROME	11-676-4	90.00	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-4E100				12010-86G20											
	12033-86G00															
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), Z24 / 1983-1984																
720 / 83-84	SWN30059-0	89.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-070-0	89.00	TL:	72.00	PL:	72.00	CHK.
PICKUP / 83-84	SWN30059-1	89.25		0.059		0.128						11-070-1	89.25	CH:	34.00	PD:
	SWN30059-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-070-2	89.50	DIST1:	-4.00	Head:	NONE	30.00
	SWN30059-3	89.75		0.059		0.154						11-070-3	89.75	DIST2:		Skirt:
	SWN30059-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-070-4	90.00	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-30W10				12010-30W11											



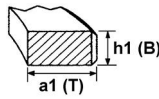
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), Z24, Z24i / 1985-1989														
720 / 85-86	SWN30085-0	89.00	2.000	X	3.050	BF	STEEL	CHROME	11-238-0	89.00	TL: 70.40 CH: 33.80 DIST1: -4.00 DIST2: DIST3:	PL: 66.50 PD: 21.00 Head: NONE Skirt: NONE	66.50 21.00 NONE NONE	CHK. DIA 10.00
PATHFINDER / 87-87	SWN30085-1	89.25	0.079		0.120				11-238-1	89.25				
PICKUP / 85-89	SWN30085-2	89.50	1.500	X	3.900	T1	CAST IRON	PHOSPHATE	11-238-2	89.50				
VAN / 87-88	SWN30085-3	89.75	0.059		0.154				11-238-3	89.75				
	SWN30085-4	90.00	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-238-4	90.00				
	REFERENCE # 12033-21G00 12033-21G10	TOP	2ND	OIL					REFERENCE # 12010-83W11					
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1982-1984														
MAXIMA / 82-84	SWN30065-0	83.00	1.500	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-078-0	83.00				
	SWN30065-1	83.25	0.059		0.142				DISC-11-078-1	83.25				
	SWN30065-2	83.50	1.500	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-078-2	83.50				
	SWN30065-3	83.75	0.059		0.142				DISC-11-078-3	83.75				
	SWN30065-4	84.00	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-078-4	84.00				
	REFERENCE # 12033-W3100	TOP	2ND	OIL					REFERENCE # 12010-51L01					
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1977-1978														
810 / 77-78	SWN30034-0	83.00	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-073-0	83.00				
	SWN30034-1	83.25	0.079		0.150				DISC-11-073-1	83.25				
	SWN30034-2	83.50	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-073-2	83.50				
	SWN30034-3	83.75	0.079		0.150				DISC-11-073-3	83.75				
	SWN30034-4	84.00	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-073-4	84.00				
	REFERENCE # 12033-A8600 12033-E3100	TOP	2ND	OIL					REFERENCE # 12010-A8601					
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1979-1980														
810 / 79-80	SWN30034-0	83.00	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	11-076-0	83.00	TL: 78.00 CH: 38.00 DIST1: -0.80 DIST2: DIST3:	PL: 72.00 PD: 21.00 Head: NONE Skirt: NONE	72.00 21.00 NONE NONE	CHK. DIA 12.00
	SWN30034-1	83.25	0.079		0.150				11-076-1	83.25				
	SWN30034-2	83.50	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	11-076-2	83.50				
	SWN30034-3	83.75	0.079		0.150				11-076-3	83.75				
	SWN30034-4	84.00	4.000	X	3.900	NIFF-S	STEEL	CHROME	11-076-4	84.00				
	REFERENCE # 12033-A8600 12033-E3100	TOP	2ND	OIL					REFERENCE # 12010-H2501					

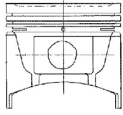

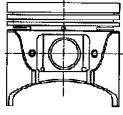
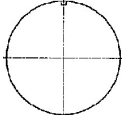


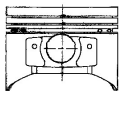
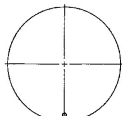



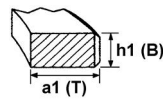
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1981-1981																
810 / 81-81 MAXIMA / 81-81	SWN30064-0	83.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	DISC-11-077-0	83.00					
	SWN30064-1	83.25		0.059						0.142	DISC-11-077-1	83.25				
	SWN30064-2	83.50	2nd:	2.000	X	3.500	ES-TUC	CAST IRON	PHOSPHATE	DISC-11-077-2	83.50					
	SWN30064-3	83.75		0.079						0.138	DISC-11-077-3	83.75				
	SWN30064-4	84.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-077-4	84.00					
		0.157	0.120													
	REFERENCE # 12033-W2420		TOP		2ND		OIL			REFERENCE # 12010-W2402						
2.5L (152CID,2488CC),4CYL, 89.000MM (3.504"), SD25 / 1983-1986 DIESEL																
720 / 83-86 PICKUP / 83-86	SDN31023-0	89.00	Top:	2.500	X	3.700	BF	DUCTILE IRON	CHROME	DISC-11-079-0	89.00					
	SDN31023-1	89.25		0.098						0.146	DISC-11-079-1	89.25				
	SDN31023-2	89.50	2nd:	2.000	X	3.700	T1-IC	DUCTILE IRON	CHROME	DISC-11-079-2	89.50					
	SDN31023-3	89.75		0.079						0.146	DISC-11-079-3	89.75				
	SDN31023-4	90.00	Oil:	4.500	X	4.200	E-BC3	CAST IRON	CHROME	DISC-11-079-4	90.00					
		0.177	0.165													
	REFERENCE # 12033-L2006		TOP		2ND		OIL			REFERENCE # 12010-29W00						
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2002-2006																
ALTIMA / 02-06 SENTRA SE-R / 02-06	SWN30140-0	89.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-852-0	89.00	TL:	54.80	PL:	57.00	CHK.
	SWN30140-1	89.25		0.047						0.122	11-852-1	89.25	CH:	32.00	PD:	19.99
	SWN30140-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-852-2	89.50	DIST1:	-4.00	Head:	AH	19.00
	SWN30140-3	89.75		0.047						0.150	11-852-3	89.75	DIST2:		Skirt:	MS
	SWN30140-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-852-4	90.00	DIST3:				
		0.098	0.112													
	REFERENCE # 12033-8H301 12033-8J000 12033-EA000 12033-EA00B		TOP		2ND		OIL			REFERENCE # A2010-8J000 A2010-8J011						
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2005-2017																
FRONTIER / 05-17	SWN30140-0	89.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-881-0	89.00	TL:	61.50	PL:	57.00	CHK.
	SWN30140-1	89.25		0.047						0.122	11-881-1	89.25	CH:	32.90	PD:	19.99
	SWN30140-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-881-2	89.50	DIST1:	5.90	Head:	ARL	9.50
	SWN30140-3	89.75		0.047						0.150	11-881-3	89.75	DIST2:		Skirt:	MS
	SWN30140-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-881-4	90.00	DIST3:				
		0.098	0.112													
	REFERENCE # 12033-8H301 12033-8J000 12033-EA000 12033-EA00B		TOP		2ND		OIL			REFERENCE # A2010-EA000 A2010-EA001						



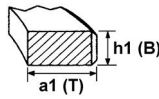
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2007-2013													
ALTIMA / 07-12	SWN30189-0	89.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-894-0	89.00	TL: 53.50	PL: 57.00	CHK.
ALTIMA HYBIRD / 07-11	SWN30189-1	89.25	0.047		0.114				11-894-1	89.25	CH: 32.40	PD: 20.00	DIA
ROGUE / 08-13	SWN30189-2	89.50	2nd: 1.200	X	3.800	T1	CAST IRON	PHOSPHATE	11-894-2	89.50	DIST1: -6.60	Head: AH	10.00
SENTRA SE-R / 07-12	SWN30189-3	89.75	0.047		0.150				11-894-3	89.75	DIST2:	Skirt: MS	
	SWN30189-4	90.00	Oil: 2.000	X	2.250	NIFF-H	STEEL	NITRIDED	11-894-4	90.00	DIST3:		
	12033-JG30A												
REFERENCE #		TOP	2ND	OIL		REFERENCE #							
12033-ET80B						A2010-JA00C							
12033-JA00B													
12033-JG30A													
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2013-2017													
ALTIMA / 13-17	SWN30189-0	89.00	Top: 1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
ROGUE / 14-17	SWN30189-1	89.25	0.047		0.114								
	SWN30189-2	89.50	2nd: 1.200	X	3.800	T1	CAST IRON	PHOSPHATE					
	SWN30189-3	89.75	0.047		0.150								
	SWN30189-4	90.00	Oil: 2.000	X	2.250	NIFF-H	STEEL	NITRIDED					
REFERENCE #		TOP	2ND	OIL									
12033-ET80B													
12033-JA00B													
12033-JG30A													
2.8L (168CID,2753CC),6CYL, 84.500MM (3.327"), LD28 / 1981-1983 DIESEL													
810 / 81-81	SDN30067-0	84.50	Top: 2.000	X	3.500	BF-IB	DUCTILE IRON	CHROME	DISC-11-086-0	84.50			
MAXIMA / 81-83	SDN30067-1	84.75	0.079		0.138				DISC-11-086-1	84.75			
	SDN30067-2	85.00	2nd: 2.000	X	3.500	T1-IC	CAST IRON	PHOSPHATE	DISC-11-086-2	85.00			
	SDN30067-3	85.25	0.079		0.138				DISC-11-086-3	85.25			
	SDN30067-4	85.50	Oil: 4.000	X	4.100	E-BC16	CAST IRON	CHROME	DISC-11-086-4	85.50			
	12033-60L00												
REFERENCE #		TOP	2ND	OIL		REFERENCE #							
12033-60L00						12010-W2502							
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1975-1979													
280Z / 75-78	SWN30047-0	86.00	Top: 2.000	X	3.900	T1	CAST IRON	CHROME	11-081-0	86.00	TL: 78.30	PL: 72.00	CHK.
280ZX / 79-79	SWN30047-1	86.25	0.079		0.154				11-081-1	86.25	CH: 38.00	PD: 21.00	DIA
	SWN30047-2	86.50	2nd: 2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-081-2	86.50	DIST1: -3.00	Head: NONE	15.00
	SWN30047-3	86.75	0.079		0.159				11-081-3	86.75	DIST2:	Skirt: NONE	
	SWN30047-4	87.00	3rd: 2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-081-4	87.00	DIST3:		
	12033-P8370		Oil: 4.000	X	3.250	NIFF-S	STEEL	CHROME					
	12033-N4200												
REFERENCE #		TOP	2ND	3RD	OIL		REFERENCE #						
12033-N4200							12010-Y4111						
12033-P8370							12010-Y4131						



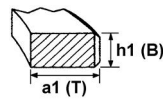
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO								
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1980-1980																		
280ZX / 80-80	SWN30047-0	86.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	11-082-0	86.00	TL:	78.20	PL:	72.00	CHK. DIA		
	SWN30047-1	86.25		0.079						0.154	11-082-1	86.25	CH:	38.00	PD:		21.00	
	SWN30047-2	86.50	2nd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-082-2	86.50	DIST1:	-2.00	Head:	NONE	22.00		
	SWN30047-3	86.75		0.079						0.159	11-082-3	86.75	DIST2:		Skirt:		NONE	
	SWN30047-4	87.00		0.079						0.159	11-082-4	87.00	DIST3:					
		Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME										
	REFERENCE # 12033-N4200 12033-P8370	TOP	2ND	3RD	OIL				REFERENCE # 12010-Y8621	 								
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1981-1983																		
280ZX / 81-83	SWN30066-0	86.00	Top:	1.500	X	3.600	BF	DUCTILE IRON	CHROME	11-084-0	86.00	TL:	78.80	PL:	72.00	CHK. DIA		
	SWN30066-1	86.25		0.059						0.142	11-084-1	86.25	CH:	38.50	PD:		21.00	
	SWN30066-2	86.50	2nd:	2.000	X	4.050	TUC	CAST IRON	PHOSPHATE	11-084-2	86.50	DIST1:		Head:	NONE	15.00		
	SWN30066-3	86.75		0.079						0.159	11-084-3	86.75	DIST2:		Skirt:		NONE	
	SWN30066-4	87.00		0.079						0.159	11-084-4	87.00	DIST3:					
		Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME										
	REFERENCE # 12033-P7910 12033-P9010	TOP	2ND	OIL					REFERENCE # 12010-P7912	 								
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28ET / 1981-1983 TURBO																		
280ZX / 81-83	SWN30066-0	86.00	Top:	1.500	X	3.600	BF	DUCTILE IRON	CHROME	DISC-11-085-0	86.00							
	SWN30066-1	86.25		0.059						0.142	DISC-11-085-1	86.25						
	SWN30066-2	86.50	2nd:	2.000	X	4.050	TUC	CAST IRON	PHOSPHATE	DISC-11-085-2	86.50							
	SWN30066-3	86.75		0.079						0.159	DISC-11-085-3	86.75						
	SWN30066-4	87.00		0.079						0.159	DISC-11-085-4	87.00						
		Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME										
	REFERENCE # 12033-P7910 12033-P9010	TOP	2ND	OIL					REFERENCE # 12010-P9012	 								
3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VE30DE / 1992-1994																		
MAXIMA / 92-94	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-675-0	87.00	TL:	64.50	PL:	67.00	CHK. DIA		
	SWN30058-1	87.25		0.059						0.122	11-675-1	87.25	CH:	32.00	PD:		22.00	
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-675-2	87.50	DIST1:		Head:	NONE	10.00		
	SWN30058-3	87.75		0.059						0.150	11-675-3	87.75	DIST2:		Skirt:		NONE	
	SWN30058-4	88.00		0.059						0.150	11-675-4	88.00	DIST3:					
		Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED										
	REFERENCE # 12033-17V01 12033-21V01 12033-96E01 12033-F6511 F6XZ 6148 AA	TOP	2ND	OIL					REFERENCE # A2010-96E00	  								



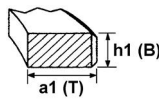
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VG30DE / 1990-1996																
300ZX / 90-96	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-727-0	87.00	TL:	61.00	PL:	69.00	CHK. DIA
	SWN30058-1	87.25		0.059		0.122				11-727-1	87.25	CH:	32.00	PD:	22.00	
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-727-2	87.50	DIST1:	1.50	Head:	NONE	10.00
	SWN30058-3	87.75		0.059		0.150				11-727-3	87.75	DIST2:	-1.20	Skirt:	NONE	
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-727-4	88.00	DIST3:				
	AM Ring Available	0.110	0.118													
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-17V01				A2010-30P00											
	12033-21V01															
	12033-96E01															
	12033-F6511															
	F6XZ 6148 AA															
3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VG30DETT / 1990-1996 TURBO																
300ZX / 90-96	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30058-1	87.25		0.059		0.122										
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME							
	SWN30058-3	87.75		0.059		0.150										
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED							
	AM Ring Available	0.110	0.118													
	REFERENCE #	TOP	2ND	OIL												
	12033-17V01															
	12033-21V01															
	12033-96E01															
	12033-F6511															
	F6XZ 6148 AA															
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1984-1994																
300ZX / 84-89 MAXIMA / 85-94	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	DISC-11-088-0	87.00					
	SWN30058-1	87.25		0.059		0.122				DISC-11-088-1	87.25					
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-088-2	87.50					
	SWN30058-3	87.75		0.059		0.150				DISC-11-088-3	87.75					
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-088-4	88.00					
	AM Ring Available	0.110	0.118													
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-17V01				12010-V7101											
	12033-21V01															
	12033-96E01															
	12033-F6511															
	F6XZ 6148 AA															



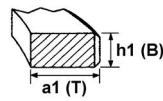
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1987-1995																
200SX / 87-88	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-603-0	87.00	TL:	67.00	PL:	64.00	CHK.
PATHFINDER / 90-95	SWN30058-1	87.25		0.059	0.122					11-603-1	87.25	CH:	32.00	PD:	21.00	DIA
PICKUP / 90-95	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-603-2	87.50	DIST1:		Head:	NONE	10.00
	SWN30058-3	87.75		0.059	0.150					11-603-3	87.75	DIST2:		Skirt:	NONE	
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-603-4	88.00	DIST3:				
	AM Ring Available			0.110		0.118										
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-17V01				12010-21P61											
	12033-21V01				12010-V7175											
	12033-96E01				A2010-10G03											
	12033-F6511				F7XZ 6108 AA											
	F6XZ 6148 AA															
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1993-1998																
QUEST / 93-98	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-681-0	87.00	TL:	67.80	PL:	64.00	CHK.
	SWN30058-1	87.25		0.059	0.122					11-681-1	87.25	CH:	31.85	PD:	21.00	DIA
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-681-2	87.50	DIST1:	0.80	Head:	NONE	10.00
	SWN30058-3	87.75		0.059	0.150					11-681-3	87.75	DIST2:	0.15	Skirt:	NONE	
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-681-4	88.00	DIST3:				
	AM Ring Available			0.110		0.118										
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-17V01				A2010-1B100											
	12033-21V01				A2010-1B110											
	12033-96E01															
	12033-F6511															
	F6XZ 6148 AA															
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30ET / 1984-1989 TURBO																
300ZX / 84-89	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	DISC-11-089-0	87.00					
	SWN30058-1	87.25		0.059	0.122					DISC-11-089-1	87.25					
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-089-2	87.50					
	SWN30058-3	87.75		0.059	0.150					DISC-11-089-3	87.75					
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-089-4	88.00					
	AM Ring Available			0.110		0.118										
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-17V01				12010-02P01											
	12033-21V01															
	12033-96E01															
	12033-F6511															
	F6XZ 6148 AA															
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30i / 1987-1989																
PATHFINDER / 87-89	SWN30093-0	87.00	Top:	2.000	X	3.100	BF-IB	STEEL	NITRIDED	DISC-11-607-0	87.00					
	SWN30093-1	87.25		0.079	0.122					DISC-11-607-1	87.25					
	SWN30093-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-607-2	87.50					
	SWN30093-3	87.75		0.059	0.150					DISC-11-607-3	87.75					
	SWN30093-4	88.00	Oil:	2.800	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-607-4	88.00					
				0.110		0.122										
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033-15G00				12010-13G63											
					A2010-13G61											



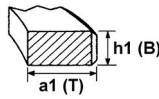
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.0L (182CID,2987CC),DOHC,6CYL, 93.000MM (3.661"), VQ30DE / 1995-2001										
MAXIMA / 95-01	SWN30115-0	93.00	Top: 1.200 0.047	X	3.250 0.128	BF	STEEL	CHROME	11-711-0	93.00 TL: 58.30 PL: 58.00 CHK. 11-711-1 93.25 CH: 30.20 PD: 22.00 DIA 11-711-2 93.50 DIST1: -0.40 Head: AH 14.00 11-711-3 93.75 DIST2: 11-711-4 94.00 DIST3: Skirt: MS
	SWN30115-1	93.25							11-711-1	
	SWN30115-2	93.50	2nd: 1.200 0.047	X	4.000 0.157	T1	CAST IRON	CHROME	11-711-2	
	SWN30115-3	93.75							11-711-3	
	SWN30115-4	94.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-711-4	
REFERENCE # 12033-2Y900 12033-2Y903 12033-38U01	TOP 2ND OIL	REFERENCE # A2010-2Y900 A2010-2Y910 A2010-38U10 A2010-39U00								
3.3L (200CID,3272CC),SOHC,6CYL, 91.500MM (3.602"), VG33E / 1996-2004										
FRONTIER / 00-04 PATHFINDER / 96-00 XTERRA / 00-04	SWN30120-0	91.50	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-728-0	91.50 TL: 63.00 PL: 60.00 CHK. 11-728-1 91.75 CH: 32.00 PD: 20.98 DIA 11-728-2 92.00 DIST1: -1.50 Head: AH 11.00 11-728-3 92.25 DIST2: 11-728-4 92.50 DIST3: Skirt: NONE
	SWN30120-1	91.75							11-728-1	
	SWN30120-2	92.00	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	CHROME	11-728-2	
	SWN30120-3	92.25							11-728-3	
	SWN30120-4	92.50	Oil: 2.800 0.110	X	3.050 0.120	NIFF-S	STEEL	CHROME	11-728-4	
REFERENCE # 12033-0W000 12033-7B000 12033-7Z800 XF5Z 6148 AA	TOP 2ND OIL	REFERENCE # A2010-1W200 A2010-1W261 A2010-5S600 A2010-5S661 A2010-5S700 A2010-5S761								
3.3L (200CID,3272CC),SOHC,6CYL, 91.500MM (3.602"), VG33E,VG33ER / 1999-2004										
FRONTIER / 99-04 QUEST / 99-02 XTERRA / 02-04	SWN30120-0	91.50	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWN30120-1	91.75								
	SWN30120-2	92.00	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	CHROME		
	SWN30120-3	92.25								
	SWN30120-4	92.50	Oil: 2.800 0.110	X	3.050 0.120	NIFF-S	STEEL	CHROME		
REFERENCE # 12033-0W000 12033-7B000 12033-7Z800 XF5Z 6148 AA	TOP 2ND OIL									
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2001-2004										
PATHFINDER / 01-04	SWN30131-0	95.50	Top: 1.200 0.047	X	3.450 0.136	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWN30131-1	95.75								
	SWN30131-2	96.00	2nd: 1.200 0.047	X	4.100 0.161	T1	CAST IRON	PHOSPHATE		
	SWN30131-3	96.25								
	SWN30131-4	96.50	Oil: 2.500 0.098	X	2.750 0.108	NIFF-S	STEEL	CHROME		
REFERENCE # 12033-4W001 12033-4W005 12033-8J100	TOP 2ND OIL									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2002-2009													
350Z ROADSTER / 03-06	SWN30131-0	95.50	Top: 1.200	X	3.450	BF	STEEL	CHROME	11-860-0	95.50	TL: 53.90	PL: 58.00	CHK.
ALTIMA / 02-06	SWN30131-1	95.75	0.047		0.136				11-860-1	95.75	CH: 29.50	PD: 22.00	DIA
ALTIMA SE-R / 05-06	SWN30131-2	96.00	2nd: 1.200	X	4.100	T1	CAST IRON	PHOSPHATE	11-860-2	96.00	DIST1: 0.80	Head: AH	6.00
MAXIMA / 02-08	SWN30131-3	96.25	0.047		0.161				11-860-3	96.25	DIST2:	Skirt: MS	
MURANO / 03-07	SWN30131-4	96.50	Oil: 2.500	X	2.750	NIFF-S	STEEL	CHROME	11-860-4	96.50	DIST3:		
QUEST / 04-09													
	REFERENCE #		TOP		2ND			OIL	REFERENCE #				
	12033-4W001								A2010-7Y001				
	12033-4W005								A2010-8J110				
	12033-8J100												
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2007-2017													
ALTIMA / 07-15	SWN30191-0	95.50	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	11-907-0	95.50	TL: 49.60	PL: 54.00	CHK.
MAXIMA / 09-17	SWN30191-1	95.75	0.047		0.122				11-907-1	95.75	CH: 29.00	PD: 22.00	DIA
MURANO / 08-15	SWN30191-2	96.00	2nd: 1.200	X	4.100	TUC	CAST IRON	PHOSPHATE	11-907-2	96.00	DIST1: -2.20	Head: AH	10.00
QUEST / 11-15	SWN30191-3	96.25	0.047		0.161				11-907-3	96.25	DIST2:	Skirt: MS	
	SWN30191-4	96.50	Oil: 2.000	X	2.600	NIFF-H	STEEL	NITRIDED	11-907-4	96.50	DIST3:		
	REFERENCE #		TOP		2ND			OIL	REFERENCE #				
	12033-JA10D								12010-9N00B				
	12033-JP00A								12010-9N00C				
	12033-JP10D								A2010-JA10A				
	12035-1EA0B								A2010-JA11B				
									A2010-JP00C				
									A2010-JP00D				
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2013-2015													
PATHFINDER / 13-15	SWN30191-0	95.50	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWN30191-1	95.75	0.047		0.122								
	SWN30191-2	96.00	2nd: 1.200	X	4.100	TUC	CAST IRON	PHOSPHATE					
	SWN30191-3	96.25	0.047		0.161								
	SWN30191-4	96.50	Oil: 2.000	X	2.600	NIFF-H	STEEL	NITRIDED					
	REFERENCE #		TOP		2ND			OIL					
	12033-JA10D												
	12033-JP00A												
	12033-JP10D												
	12035-1EA0B												
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35HR / 2007-2008													
350Z ROADSTER / 07-08	SWN30162-0	95.50	Top: 1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWN30162-1	95.75	0.047		0.122								
	SWN30162-2	96.00	2nd: 1.200	X	3.700	TUC	CAST IRON	PHOSPHATE					
	SWN30162-3	96.25	0.047		0.146								
	SWN30162-4	96.50	Oil: 2.000	X	2.600	NIFF-H	STEEL	NITRIDED					
	REFERENCE #		TOP		2ND			OIL					
	12033-JK20A												
	12033-JK20B												
	12033-JK20C												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.7L (226CID,3696CC),DOHC,6CYL, 95.500MM (3.760"), VQ37VHR / 2009-2017																
370Z / 09-17	SWN30162-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30162-1	95.75		0.047		0.122										
	SWN30162-2	96.00	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE							
	SWN30162-3	96.25		0.047		0.146										
	SWN30162-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
		0.079		0.102												
REFERENCE #		TOP	2ND	OIL												
12033-JK20A																
12033-JK20B																
12033-JK20C																
4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2005-2011																
FRONTIER / 05-11 PATHFINDER / 05-11 XTERRA / 05-11	SWN30131-0	95.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	11-878-0	95.50	TL:	55.10	PL:	58.00	CHK. DIA
	SWN30131-1	95.75		0.047		0.136						11-878-1	95.75	CH:	31.60	
	SWN30131-2	96.00	2nd:	1.200	X	4.100	T1	CAST IRON	PHOSPHATE	11-878-2	96.00	DIST1:	-3.00	Head:	AH	6.00
	SWN30131-3	96.25		0.047		0.161						11-878-3	96.25	DIST2:		
	SWN30131-4	96.50	Oil:	2.500	X	2.750	NIFF-S	STEEL	CHROME	11-878-4	96.50	DIST3:				
		0.098		0.108												
REFERENCE #		TOP	2ND	OIL												
12033-4W001																
12033-4W005																
12033-8J100																
REFERENCE #										12010-EA200						
										12010-EA20B						
4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2012-2015																
FRONTIER / 12-15 NV1500 / 12-15 NV2500HD / 12-15 PATHFINDER / 12-12 XTERRA / 12-15	SWN30191-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30191-1	95.75		0.047		0.122										
	SWN30191-2	96.00	2nd:	1.200	X	4.100	TUC	CAST IRON	PHOSPHATE							
	SWN30191-3	96.25		0.047		0.161										
	SWN30191-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
		0.079		0.102												
REFERENCE #		TOP	2ND	OIL												
12033-JA10D																
12033-JP00A																
12033-JP10D																
12035-1EA0B																
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56DE / 2004-2009																
ARMADA / 05-07 PATHFINDER / 08-09 TITAN / 04-09	SWN30149-0	98.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-879-0	98.00	TL:	52.00	PL:	59.60	CHK. DIA
	SWN30149-1	98.25		0.059		0.136						11-879-1	98.25	CH:	31.60	
	SWN30149-2	98.50	2nd:	1.500	X	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	Head:	AH	6.00
	SWN30149-3	98.75		0.059		0.169						11-879-3	98.75	DIST2:		
	SWN30149-4	99.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:				
		0.098		0.102												
REFERENCE #		TOP	2ND	OIL												
12033-7S001																
12033-7S01B																
12033-ZE00A																
REFERENCE #										A2010-7S000						

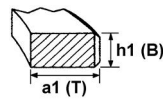


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56DE / 2008-2015										
ARMADA / 08-15	SWN30149-0	98.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
NV2500HD / 12-15	SWN30149-1	98.25		0.059		0.136				
NV3500HD / 12-15	SWN30149-2	98.50		1.500	X	4.300	TUC	CAST IRON	PHOSPHATE	
PATHFINDER / 10-12	SWN30149-3	98.75	2nd:	0.059		0.169				
TITAN / 10-15	SWN30149-4	99.00		2.500	X	2.600	NIFF-S	STEEL	CHROME	
			Oil:	0.098		0.102				
	REFERENCE #		TOP	2ND	OIL					
	12033-7S001									
	12033-7S01B									
	12033-ZE00A									

2.0L (122CID,1994CC),DOHC,4CYL, 92.000MM (3.622"), EJ20 / 2005-2005										
9-2X / 05-05	SWF20060-0	92.00	Top:	1.200	X	3.300	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF20060-1	92.25		0.047		0.130				
	SWF20060-2	92.50		2nd:	1.200	X	3.800	TUC	CAST IRON	
	SWF20060-3	92.75	0.047			0.150				
	SWF20060-4	93.00	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	
				0.098		0.110				
	REFERENCE #		TOP	2ND	OIL					
	12033AD190									

2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ253 / 2005-2006																
9-2X / 05-06	SWF20066-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-788-0	99.50	TL:	50.00	PL:	64.00	CHK.
	SWF20066-1	99.75		0.047		0.136				11-788-1	99.75	CH:	29.50	PD:	23.00	DIA
	SWF20066-2	100.00		2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-788-2	100.00	DIST1:	-1.70	Head:	NONE
	SWF20066-3	100.25	0.047			0.157				11-788-3	100.25	DIST2:		Skirt:	MS	
	SWF20066-4	100.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	11-788-4	100.50	DIST3:				
				0.098		0.110										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	12033AB010								12006AB470							
	12033AB250								12006AC070							

2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ255 / 2006-2006																
9-2X / 06-06	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-910-0	99.50	TL:	51.30	PL:	64.00	CHK.
	SWF20068-1	99.75		0.047		0.136				11-910-1	99.75	CH:	30.40	PD:	23.00	DIA
	SWF20068-2	100.00		2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-910-2	100.00	DIST1:	-3.20	Head:	AH
	SWF20068-3	100.25	0.047			0.157				11-910-3	100.25	DIST2:	-4.70	Skirt:	MS	
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-910-4	100.50	DIST3:	-5.40			
				0.079		0.106										
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	12033AB340								12006AD210							
	12033AC000								12006AD810							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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3.0L (181CID,2962CC),DOHC,6CYL, 86.000MM (3.386"), ELLESMERE L81 / 1999-2003

9-5 / 00-03	SWG10016-0	86.00	Top: 1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
9-5 Sportcombi / 99-99	SWG10016-1	86.25	0.047		0.114				
	SWG10016-2	86.50	2nd: 1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	
	SWG10016-3	86.75	0.059		0.138				
	SWG10016-4	87.00	Oil: 3.000	X	3.050	NIFF-S	STEEL	NITRIDED	
	AM Ring Available		0.118		0.120				
	REFERENCE #		TOP		2ND			OIL	
	88 22 413								
	9118853								

5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 IV / 2005-2009

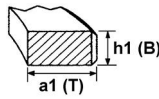
9-7X / 05-09	SWG10005-0	96.00	Top: 1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL: 59.30	PL: 65.00	CHK. 65.00
	SWG10005-1	96.25	0.059		0.130				11-899-1	96.25	CH: 33.60	PD: 23.96	DIA 16.00
	SWG10005-2	96.50	2nd: 1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:	Head: AH	
	SWG10005-3	96.75	0.059		0.157				11-899-3	96.75	DIST2:	Skirt: MS	
	SWG10005-4	97.00	Oil: 3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:		
	AM Ring Available		0.118		0.126								
	REFERENCE #		TOP		2ND			OIL	REFERENCE #				
	12456338								89017577				
	19208677												
	8-12456-338-0												

6.0L (364CID,5957CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 LS2 / 2008-2009

9-7X / 08-09	SWG10031-0	101.60	Top: 1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG10031-1	101.85	0.047		0.138				
	SWG10031-2	102.10	2nd: 1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	
	SWG10031-3	102.35	0.059		0.165				
	SWG10031-4	102.60	Oil: 2.500	X	2.550	NIFF-H	STEEL	CHROME	
			0.098		0.100				
	REFERENCE #		TOP		2ND			OIL	
	19178307								
	8-89017-484-0								
	89017484								

1.5L (91CID,1497CC),DOHC,4CYL, 75.000MM (2.953"), 1NZ-FE / 2004-2006

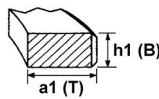
xA / 04-06	SWT10192-0	75.00	Top: 1.200	X	2.500	BF	STEEL	NITRIDED	11-776-0	75.00	TL: 49.00	PL: 53.00	CHK. 53.00
xB / 04-06	SWT10192-1	75.25	0.047		0.098				11-776-1	75.25	CH: 30.10	PD: 18.00	DIA 10.00
	SWT10192-2	75.50	2nd: 1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-776-2	75.50	DIST1: -6.20	Head: NONE	
	SWT10192-3	75.75	0.047		0.110				11-776-3	75.75	DIST2: -2.20	Skirt: NONE	
	SWT10192-4	76.00	Oil: 2.000	X	2.200	NIFF-H	STEEL	NITRIDED	11-776-4	76.00	DIST3:		
			0.079		0.087								
	REFERENCE #		TOP		2ND			OIL	REFERENCE #				
	13011-21041								13101-21030				
	13011-21120								13101-21160				



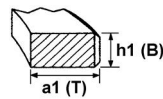
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FE / 2008-2014																	
xD / 08-14	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT10232-1	80.75		0.039		0.114											
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE								
	SWT10232-3	81.25		0.039		0.098											
	SWT10232-4	81.50		Oil:	1.500	X					1.950	NIFF-H	STEEL	CHROME			
		0.059		0.077													
REFERENCE #		TOP	2ND	OIL													
13011-0T010																	
13011-37110																	
19185554																	
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2005-2006																	
tC / 05-06	SWT10182-0	88.50	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-792-0	88.50	TL:	55.80	PL:	56.00	CHK. DIA	
	SWT10182-1	88.75		0.047		0.106						11-792-1	88.75	CH:	33.70		PD:
	SWT10182-2	89.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-792-2	89.00	DIST1:	-6.40	Head:	AH	4.00	
	SWT10182-3	89.25		0.047		0.126						11-792-3	89.25	DIST2:			Skirt:
	SWT10182-4	89.50		Oil:	2.000	X				2.450	NIFF-H	STEEL	NITRIDED	11-792-4	89.50	DIST3:	
		0.079		0.096													
REFERENCE #		TOP	2ND	OIL													
13011-23100																	
13011-28102																	
		REFERENCE #															
		13211-28030-A0															
		13211-28031-A0															
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2007-2015																	
tC / 07-10 xB / 08-15	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-896-0	88.50	TL:	55.80	PL:	56.00	CHK. DIA	
	SDT10200-1	88.75		0.039		0.106						11-896-1	88.75	CH:	35.80		PD:
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	11-896-2	89.00	DIST1:	-7.80	Head:	AH	6.00	
	SDT10200-3	89.25		0.039		0.106						11-896-3	89.25	DIST2:			Skirt:
	SDT10200-4	89.50		Oil:	2.000	X				2.750	E-BC16	STEEL	NITRIDED	11-896-4	89.50	DIST3:	
		0.079		0.108													
REFERENCE #		TOP	2ND	OIL													
13011-0H031																	
13011-28161																	
		REFERENCE #															
		13211-28112-A0															
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE / 2011-2015																	
tC / 11-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	11-897-0	90.00	TL:	53.30	PL:	56.00	CHK. DIA	
	SDT10226-1	90.25		0.039		0.114						11-897-1	90.25	CH:	34.80		PD:
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE	11-897-2	90.50	DIST1:	3.70	Head:	AH	10.00	
	SDT10226-3	90.75		0.039		0.106						11-897-3	90.75	DIST2:	-4.40		Skirt:
	SDT10226-4	91.00		Oil:	2.000	X				2.750	E-BC16	STEEL	NITRIDED	11-897-4	91.00	DIST3:	
		0.079		0.108													
REFERENCE #		TOP	2ND	OIL													
13011-36020																	
		REFERENCE #															
		13211-0V011-A0															
		13211-0V012-B0															
		13211-36032-C0															



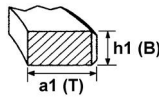
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
1.2L (73CID,1189CC),SOHC,3CYL, 78.00MM (3.071"), EF12 / 1987-1994											
JUSTY / 87-94	SWF20054-0	78.00	Top:	1.200	X	3.000	BF	STEEL	CHROME	DISC-11-620-0	78.00
	SWF20054-1	78.25		0.047						0.118	DISC-11-620-1
	SWF20054-2	78.50	2nd:	1.500	X	3.300	T1	CAST IRON	CHROME	DISC-11-620-2	78.50
	SWF20054-3	78.75		0.059						0.130	DISC-11-620-3
	SWF20054-4	79.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-620-4	79.00
	REFERENCE # 12033KA151 480035800	TOP	2ND	OIL	REFERENCE # 12006KA062						
1.4L (83CID,1361CC),OHV,4CYL, 85.00MM (3.346"), EA63 / 1973-1974											
LEONE 1400 / 73-74	SWF20014-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-135-0	85.00
	SWF20014-1	85.25		0.079						0.154	DISC-11-135-1
	SWF20014-2	85.50	2nd:	2.000	X	3.900	T1	CAST IRON	PHOSPHATE	DISC-11-135-2	85.50
	SWF20014-3	85.75		0.079						0.154	DISC-11-135-3
	SWF20014-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-135-4	86.00
	REFERENCE # 380030100	TOP	2ND	OIL	REFERENCE # 380050100						
1.4L (83CID,1361CC),OHV,4CYL, 85.00MM (3.346"), EA63 / 1976-1976											
LEONE 1600 / 76-76	SWF20014-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-136-0	85.00
	SWF20014-1	85.25		0.079						0.154	DISC-11-136-1
	SWF20014-2	85.50	2nd:	2.000	X	3.900	T1	CAST IRON	PHOSPHATE	DISC-11-136-2	85.50
	SWF20014-3	85.75		0.079						0.154	DISC-11-136-3
	SWF20014-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-136-4	86.00
	REFERENCE # 380030100	TOP	2ND	OIL	REFERENCE # 380057000						
1.6L (97CID,1595CC),OHV,4CYL, 92.00MM (3.622"), EA71 / 1976-1984											
BRAT / 78-80 DL SEDAN / 78-81 FE / 79-79 GF / 78-79 GL SEDAN / 79-80 GLF / 80-80 LEONE 1600 / 76-84	SWF20017-0	92.00	Top:	2.000	X	4.000	BF	CAST IRON	CHROME	DISC-11-137-0	92.00
	SWF20017-1	92.25		0.079						0.157	DISC-11-137-1
	SWF20017-2	92.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-137-2	92.50
	SWF20017-3	92.75		0.079						0.157	DISC-11-137-3
SWF20017-4	93.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-137-4	93.00	
	REFERENCE # 380034310 380034320	TOP	2ND	OIL	REFERENCE # 380054300 380054320						



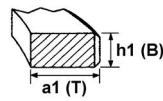
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
1.8L (109CID,1781CC),OHV,4CYL, 92.000MM (3.622"), EA81 / 1980-1986										
BRAT / 81-86	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-138-0	92.00
DL SEDAN / 82-84	SWF20057-1	92.25	0.047		0.130				DISC-11-138-1	92.25
GL SEDAN / 82-86	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-138-2	92.50
GLF / 82-82	SWF20057-3	92.75	0.059		0.146				DISC-11-138-3	92.75
LEONE 1800 / 80-86	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME	DISC-11-138-4	93.00
			0.157		0.144					
	REFERENCE #	TOP	2ND	OIL					REFERENCE #	
	12033AA000								480057110	
	12033AA060									
	480037100									
1.8L (109CID,1781CC),OHV,4CYL, 92.000MM (3.622"), EA81 / 1983-1984 TURBO										
BRAT / 83-84	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-139-0	92.00
GL SEDAN / 83-84	SWF20057-1	92.25	0.047		0.130				DISC-11-139-1	92.25
LEONE 1800 / 83-84	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-139-2	92.50
	SWF20057-3	92.75	0.059		0.146				DISC-11-139-3	92.75
	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME	DISC-11-139-4	93.00
			0.157		0.144					
	REFERENCE #	TOP	2ND	OIL					REFERENCE #	
	12033AA000								480057300	
	12033AA060									
	480037100									
1.8L (109CID,1781CC),SOHC,4CYL, 92.000MM (3.622"), EA82 / 1985-1988										
BRAT / 85-86	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
DL SEDAN / 85-86	SWF20057-1	92.25	0.047		0.130					
GL SEDAN / 85-88	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE		
GL TBI / 86-86	SWF20057-3	92.75	0.059		0.146					
GL-10 SEDAN / 85-86	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME		
			0.157		0.144					
	REFERENCE #	TOP	2ND	OIL						
	12033AA000									
	12033AA060									
	480037100									
1.8L (109CID,1781CC),SOHC,4CYL, 92.000MM (3.622"), EA82 / 1987-1989										
DL COUPE / 87-89	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-616-0	92.00
DL SEDAN / 87-89	SWF20057-1	92.25	0.047		0.130				DISC-11-616-1	92.25
DL WAGON / 87-87	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-616-2	92.50
GL COUPE / 87-89	SWF20057-3	92.75	0.059		0.146				DISC-11-616-3	92.75
GL SEDAN / 87-89	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME	DISC-11-616-4	93.00
			0.157		0.144					
	REFERENCE #	TOP	2ND	OIL					REFERENCE #	
	12033AA000								12013AA000	
	12033AA060								12018AA000	
	480037100									



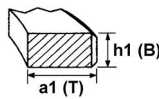
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.8L (109CID,1781CC),SOHC,4CYL, 92.000MM (3.622"), EA82 / 1987-1990													
GL MFI / 87-88	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-712-0	92.00			
GL-10 MFI / 87-89	SWF20057-1	92.25	0.047		0.130				DISC-11-712-1	92.25			
LOYALE / 90-90	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-712-2	92.50			
RX MFI / 87-89	SWF20057-3	92.75	0.059		0.146				DISC-11-712-3	92.75			
XT MFI / 87-89	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME	DISC-11-712-4	93.00			
			0.157		0.144								
	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
	12033AA000				12006AA240								
	12033AA060												
	480037100												
1.8L (109CID,1781CC),SOHC,4CYL, 92.000MM (3.622"), EA82 / 1987-1994													
DL TBI / 87-89	SWF20057-0	92.00	1.200	X	3.300	BF	STEEL	CHROME	11-610-0	92.00	TL: 65.00	PL: 70.00	CHK. 10.00
GL TBI / 87-89	SWF20057-1	92.25	0.047		0.130				11-610-1	92.25	CH: 31.50	PD: 21.00	DIA 10.00
GL-10 SEDAN / 87-89	SWF20057-2	92.50	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-610-2	92.50	DIST1:	Head: NONE	
GL-10 TBI / 87-88	SWF20057-3	92.75	0.059		0.146				11-610-3	92.75	DIST2:	Skirt: NONE	
LOYALE / 90-94	SWF20057-4	93.00	4.000	X	3.650	NIFF-S	STEEL	CHROME	11-610-4	93.00	DIST3:		
			0.157		0.144								
	REFERENCE #	TOP	2ND	OIL	REFERENCE #								
	12033AA000				12013AA030								
	12033AA060				12018AA030								
	480037100												
1.8L (111CID,1820CC),SOHC,4CYL, 87.900MM (3.461"), EJ18 / 1993-1997													
IMPENZA / 93-97	SWF20043-0	87.90	1.200	X	3.100	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWF20043-1	88.15	0.047		0.122								
	SWF20043-2	88.40	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE					
	SWF20043-3	88.65	0.059		0.142								
	SWF20043-4	88.90	3.000	X	3.100	NIFF-S	STEEL	CHROME					
			0.118		0.122								
	REFERENCE #	TOP	2ND	OIL									
	12033AA090												
2.0L (122CID,1994CC),DOHC,4CYL, 92.000MM (3.622"), EJ20 / 2002-2005													
IMPENZA WRX / 02-05	SWF20060-0	92.00	1.200	X	3.300	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SWF20060-1	92.25	0.047		0.130								
	SWF20060-2	92.50	1.200	X	3.800	TUC	CAST IRON	PHOSPHATE					
	SWF20060-3	92.75	0.047		0.150								
	SWF20060-4	93.00	2.500	X	2.800	NIFF-S	STEEL	CHROME					
			0.098		0.110								
	REFERENCE #	TOP	2ND	OIL									
	12033AD190												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1995CC),DOHC,4CYL, 84.000MM (3.307"), FB20 / 2012-2017																
IMPENZA / 12-15	SWF20073-0	84.00	Top:	1.000	X	2.670	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
IMPENZA WRX / 15-17	SWF20073-1	84.25		0.039	0.105											
XV Crosstrek / 13-15	SWF20073-2	84.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE							
	SWF20073-3	84.75		0.039	0.106											
	SWF20073-4	85.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	CHROME							
			0.079	0.098												
	REFERENCE # 12033AC360		TOP	2ND	OIL											
2.2L (135CID,2212CC),SOHC,4CYL, 96.900MM (3.815"), EJ22 / 1990-1999																
IMPENZA / 96-99	SWF20045-0	96.90	Top:	1.200	X	3.250	BF-IB	STEEL	CHROME	11-612-0	96.90	TL:	68.10	PL:	58.00	CHK.
LEGACY / 90-96	SWF20045-1	97.15		0.047	0.128					11-612-1	97.15	CH:	33.30	PD:	23.00	DIA
	SWF20045-2	97.40	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE	11-612-2	97.40	DIST1:	-2.60	Head:	NONE	10.00
	SWF20045-3	97.65		0.059	0.154					11-612-3	97.65	DIST2:		Skirt:	NONE	
	SWF20045-4	97.90	Oil:	3.000	X	3.300	NIFF-S	STEEL	CHROME	11-612-4	97.90	DIST3:				
			0.118	0.130												
	REFERENCE # 12033AA210		TOP	2ND	OIL				REFERENCE # 12013AA231 12018AA231							
2.2L (135CID,2212CC),SOHC,4CYL, 96.900MM (3.815"), EJ22 / 1991-1994 TURBO																
LEGACY / 91-94	SWF20067-0	96.90	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF20067-1	97.15		0.059	0.128											
	SWF20067-2	97.40	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF20067-3	97.65		0.059	0.154											
	SWF20067-4	97.90	Oil:	3.000	X	3.300	NIFF-S	STEEL	CHROME							
			0.118	0.130												
	REFERENCE # 12033AA390 12033AA450		TOP	2ND	OIL											
2.2L (135CID,2212CC),SOHC,4CYL, 96.900MM (3.815"), EJ22 / 1997-1999																
IMPENZA / 97-98	SWF20045-0	96.90	Top:	1.200	X	3.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
LEGACY / 97-99	SWF20045-1	97.15		0.047	0.128											
	SWF20045-2	97.40	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF20045-3	97.65		0.059	0.154											
	SWF20045-4	97.90	Oil:	3.000	X	3.300	NIFF-S	STEEL	CHROME							
			0.118	0.130												
	REFERENCE # 12033AA210		TOP	2ND	OIL											

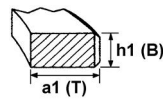


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ255 / 2004-2012													
BAJA / 04-06	SWF20068-0	99.50	1.200	X	3.450	BF-IB	STEEL	CHROME	11-910-0	99.50	TL: 51.30	PL: 64.00	CHK. 64.00
Forester / 04-12	SWF20068-1	99.75	0.047		0.136				11-910-1	99.75	CH: 30.40	PD: 23.00	DIA 23.00
IMPENZA / 06-12	SWF20068-2	100.00	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-910-2	100.00	DIST1: -3.20	Head: AH	13.00
IMPENZA WRX / 07-12	SWF20068-3	100.25	0.047		0.157				11-910-3	100.25	DIST2: -4.70	Skirt: MS	
LEGACY / 05-12	SWF20068-4	100.50	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-910-4	100.50	DIST3: -5.40		
OUTBACK H4 / 05-09			0.079		0.106								
	REFERENCE # 12033AB340 12033AC000	TOP	2ND	OIL					REFERENCE # 12006AD210 12006AD810				
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ257 / 2004-2010													
IMPENZA WRX STi / 04-10	SWF20068-0	99.50	1.200	X	3.450	BF-IB	STEEL	CHROME	11-911-0	99.50	TL: 51.40	PL: 64.00	CHK. 64.00
	SWF20068-1	99.75	0.047		0.136				11-911-1	99.75	CH: 30.70	PD: 22.99	DIA 22.99
	SWF20068-2	100.00	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-911-2	100.00	DIST1: -2.00	Head: AH	15.00
	SWF20068-3	100.25	0.047		0.157				11-911-3	100.25	DIST2: -5.10	Skirt: MS	
	SWF20068-4	100.50	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-911-4	100.50	DIST3: -5.40		
	REFERENCE # 12033AB340 12033AC000	TOP	2ND	OIL					REFERENCE # 12006AC390				
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ25D / 1996-1996													
LEGACY / 96-96	SWF20064-0	99.50	1.200	X	3.450	BF-IB	STEEL	CHROME	DISC-11-789-0	99.50			
	SWF20064-1	99.75	0.047		0.136				DISC-11-789-1	99.75			
	SWF20064-2	100.00	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	DISC-11-789-2	100.00			
	SWF20064-3	100.25	0.059		0.157				DISC-11-789-3	100.25			
	SWF20064-4	100.50	2.800	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-789-4	100.50			
	REFERENCE # 12033AA760	TOP	2ND	OIL					REFERENCE # 12013AB020 12018AB020				
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ25D / 1997-1999													
Forester / 98-98	SWF20064-0	99.50	1.200	X	3.450	BF-IB	STEEL	CHROME	DISC-11-787-0	99.50			
IMPENZA / 98-98	SWF20064-1	99.75	0.047		0.136				DISC-11-787-1	99.75			
LEGACY / 97-99	SWF20064-2	100.00	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	DISC-11-787-2	100.00			
	SWF20064-3	100.25	0.059		0.157				DISC-11-787-3	100.25			
	SWF20064-4	100.50	2.800	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-787-4	100.50			
	REFERENCE # 12033AA760	TOP	2ND	OIL					REFERENCE # 12006AA410				



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ251,EJ252,EJ259 / 2000-2006																
BAJA / 03-06	SWF20066-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-788-0	99.50	TL:	50.00	PL:	64.00	CHK.
Forester / 00-03	SWF20066-1	99.75		0.047		0.136				11-788-1	99.75	CH:	29.50	PD:	23.00	DIA
IMPENZA / 00-02	SWF20066-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-788-2	100.00	DIST1:	-1.70	Head:	NONE	10.00
LEGACY / 00-04	SWF20066-3	100.25		0.047		0.157				11-788-3	100.25	DIST2:		Skirt:	MS	
OUTBACK H4 / 00-04	SWF20066-4	100.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	11-788-4	100.50	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033AB010				12006AB470											
	12033AB250				12006AC070											
2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ253 / 2006-2011																
IMPENZA / 06-11	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-921-0	99.50	TL:	51.50	PL:	64.00	CHK.
LEGACY / 06-09	SWF20068-1	99.75		0.047		0.136				11-921-1	99.75	CH:	30.70	PD:	23.00	DIA
OUTBACK H4 / 06-09	SWF20068-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-921-2	100.00	DIST1:	3.30	Head:	NONE	10.00
	SWF20068-3	100.25		0.047		0.157				11-921-3	100.25	DIST2:	-3.50	Skirt:	MS	
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-921-4	100.50	DIST3:				
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033AB340				12013AB250											
	12033AC000				12018AB250											
3.0L (183CID,2999CC),DOHC,6CYL, 89.200MM (3.512"), EZ30,EZ30D / 2001-2009																
B9 TRIBECA / 06-07	SWF20070-0	89.20	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
LEGACY / 08-09	SWF20070-1	89.45		0.047		0.120										
OUTBACK H6 / 01-09	SWF20070-2	89.70	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWF20070-3	89.95		0.047		0.142										
	SWF20070-4	90.20	Oil:	2.500	X	2.900	NIFF-H	STEEL	CHROME							
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033AB130															
3.3L (202CID,3318CC),DOHC,6CYL, 96.900MM (3.815"), EG33 / 1992-1997																
SVX / 92-97	SWF20067-0	96.90	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF20067-1	97.15		0.059		0.128										
	SWF20067-2	97.40	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF20067-3	97.65		0.059		0.154										
	SWF20067-4	97.90	Oil:	3.000	X	3.300	NIFF-S	STEEL	CHROME							
	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12033AA390															
	12033AA450															

SUBARU



SUBARU

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO		
3.6L (221CID,3629CC),DOHC,6CYL, 92.000MM (3.622"), EZ36 / 2008-2015												
B9 TRIBECA / 08-14 LEGACY / 10-15 OUTBACK H6 / 10-15	SWF20069-0 SWF20069-1 SWF20069-2 SWF20069-3 SWF20069-4	92.00 92.25 92.50 92.75 93.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.000 0.079	X X X	3.300 0.130 3.800 0.150 2.700 0.106	BF-IB TUC NIFF-H	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
REFERENCE # 12033AC060	TOP 2ND OIL											

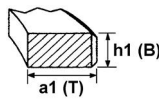
SUZUKI

SUZUKI

1.3L (79CID,1298CC),DOHC,4CYL, 74.000MM (2.913"), G13K / 1989-1994														
SWIFT / 89-94	SWS20143-0 SWS20143-1 SWS20143-2 SWS20143-3 SWS20143-4	74.00 74.25 74.50 74.75 75.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.800 0.110	X X X	2.850 0.112 3.200 0.126 2.550 0.100	BF-IB T1-IB NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-627-0 11-627-1 11-627-2 11-627-3 11-627-4	74.00 74.25 74.50 74.75 75.00	TL: 56.20 CH: 29.20 DIST1: DIST2: DIST3:	PL: 61.00 PD: 19.00 Head: NONE Skirt: NONE	61.00 19.00 NONE NONE	CHK. DIA 14.00
REFERENCE # 12140-82X50 91173873 96068389	TOP 2ND OIL				REFERENCE # 12111-86501-0A0									

1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1989-1997														
SAMURAI / 90-92 SWIFT / 89-97	SWS20143-0 SWS20143-1 SWS20143-2 SWS20143-3 SWS20143-4	74.00 74.25 74.50 74.75 75.00	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.800 0.110	X X X	2.850 0.112 3.200 0.126 2.550 0.100	BF-IB T1-IB NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-626-0 11-626-1 11-626-2 11-626-3 11-626-4	74.00 74.25 74.50 74.75 75.00	TL: 56.20 CH: 29.30 DIST1: -4.80 DIST2: DIST3:	PL: 65.00 PD: 17.00 Head: NONE Skirt: NONE	65.00 17.00 NONE NONE	CHK. DIA 12.00
REFERENCE # 12140-82X50 91173873 96068389	TOP 2ND OIL				REFERENCE # 12100-61840-0A0 12100-63850-0A0									

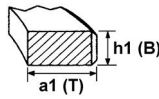
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BB / 1998-2001														
SWIFT / 98-01	SWS20186-0 SWS20186-1 SWS20186-2 SWS20186-3 SWS20186-4	74.00 74.25 74.50 74.75 75.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.500 0.098	X X X	2.700 0.106 3.200 0.126 2.850 0.112	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-769-0 11-769-1 11-769-2 11-769-3 11-769-4	74.00 74.25 74.50 74.75 75.00	TL: 56.00 CH: 29.00 DIST1: -1.80 DIST2: DIST3:	PL: 61.50 PD: 19.00 Head: NONE Skirt: NONE	61.50 19.00 NONE NONE	CHK. DIA 10.00
REFERENCE # 12140-63E50	TOP 2ND OIL				REFERENCE # 12111-63E10-0A0									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (81CID,1324CC),SOHC,4CYL, 74.00MM (2.913"), G13A / 1986-1988																
SAMURAI / 86-88	SWS20141-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	11-625-0	74.00	TL:	55.30	PL:	65.00	CHK. DIA 10.00
	SWS20141-1	74.25		0.047		0.110				11-625-1	74.25	CH:	28.40	PD:	17.00	
	SWS20141-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-625-2	74.50	DIST1:	-1.30	Head:	NONE	
	SWS20141-3	74.75		0.059		0.126				11-625-3	74.75	DIST2:		Skirt:	NONE	
	SWS20141-4	75.00	Oil:	2.800	X	2.800	MIFF-S	STEEL	CHROME	11-625-4	75.00	DIST3:				
REFERENCE # 12140-82X50	TOP	2ND	OIL	REFERENCE # 12111-83000-0A0 96066387												
1.3L (81CID,1324CC),SOHC,4CYL, 74.00MM (2.913"), G13A / 1989-1989																
SIDEKICK / 89-89	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-628-0	74.00	TL:	55.30	PL:	62.00	CHK. DIA 7.50
	SWS20143-1	74.25		0.047		0.112				11-628-1	74.25	CH:	28.30	PD:	17.00	
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-628-2	74.50	DIST1:		Head:	NONE	
	SWS20143-3	74.75		0.059		0.126				11-628-3	74.75	DIST2:		Skirt:	NONE	
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-628-4	75.00	DIST3:				
REFERENCE # 12140-82X50 91173873 96068389	TOP	2ND	OIL	REFERENCE # 12111-82010-0A0												
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), G16A / 1989-1995																
SIDEKICK / 89-95	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-629-0	75.00	TL:	58.20	PL:	63.00	CHK. DIA 10.00
	SWS20142-1	75.25		0.047		0.106				11-629-1	75.25	CH:	28.50	PD:	19.00	
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-629-2	75.50	DIST1:	-3.30	Head:	NONE	
	SWS20142-3	75.75		0.059		0.126				11-629-3	75.75	DIST2:	-4.70	Skirt:	NONE	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-629-4	76.00	DIST3:				
REFERENCE # 12140-60A50 91173290 96067669	TOP	2ND	OIL	REFERENCE # 12111-60A02-0A0 96067795												
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), G16KV / 1992-1997																
SIDEKICK / 92-97	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-630-0	75.00	TL:	55.20	PL:	61.50	CHK. DIA 21.00
	SWS20142-1	75.25		0.047		0.106				11-630-1	75.25	CH:	28.20	PD:	19.00	
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-630-2	75.50	DIST1:	-4.10	Head:	NONE	
	SWS20142-3	75.75		0.059		0.126				11-630-3	75.75	DIST2:		Skirt:	NONE	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-630-4	76.00	DIST3:				
REFERENCE # 12140-60A50 91173290 96067669	TOP	2ND	OIL	REFERENCE # 12100-71820-0A0 96068583												

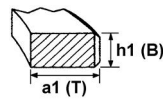


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), G16KV / 1996-1998															
X-90 / 96-98	SWS20142-0	75.00	Top: 1.200 0.047	X	2.700 0.106	BF-IB	STEEL	NITRIDED	DISC-11-805-0	75.00					
	SWS20142-1	75.25							DISC-11-805-1	75.25					
	SWS20142-2	75.50	2nd: 1.500 0.059	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE	DISC-11-805-2	75.50					
	SWS20142-3	75.75							DISC-11-805-3	75.75					
	SWS20142-4	76.00	Oil: 2.800 0.110	X	2.800 0.110	NIFF-S	STEEL	NITRIDED	DISC-11-805-4	76.00					
REFERENCE # 12140-60A50 91173290 96067669		TOP 2ND OIL 			REFERENCE # 12100-61850-0B0										
1.6L (97CID,1590CC),SOHC,4CYL, 75.00MM (2.953"), G16S / 1995-2001															
ESTEEM / 95-01 SIDEKICK / 98-98 VITARA / 99-01	SWS20190-0	75.00	Top: 1.200 0.047	X	2.700 0.106	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20190-1	75.25													
	SWS20190-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE							
	SWS20190-3	75.75													
	SWS20190-4	76.00	Oil: 2.500 0.098	X	2.450 0.096	NIFF-H	STEEL	NITRIDED							
REFERENCE # 12140-61G00 12140-61G50		TOP 2ND OIL 													
1.8L (112CID,1840CC),DOHC,4CYL, 84.00MM (3.307"), J18A / 1996-2002															
ESTEEM / 99-02 SIDEKICK / 96-98	SWS20178-0	84.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-775-0	84.00	TL:	58.90	PL:	58.00	CHK.
	SWS20178-1	84.25							11-775-1	84.25	CH:	29.40	PD:	21.00	DIA
	SWS20178-2	84.50	2nd: 1.500 0.059	X	3.550 0.140	TUC	CAST IRON	CHROME	11-775-2	84.50	DIST1:	-4.90	Head:	NONE	10.00
	SWS20178-3	84.75							11-775-3	84.75	DIST2:		Skirt:	NONE	
	SWS20178-4	85.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	11-775-4	85.00	DIST3:				
REFERENCE # 12140-86FA0 91174392		TOP 2ND OIL 			REFERENCE # 12100-65810-0A0 12100-86830-0A0										
2.0L (122CID,1995CC),DOHC,4CYL, 84.00MM (3.307"), J20A / 1999-2003															
AERIO / 02-03 VITARA / 99-03	SWS20178-0	84.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-775-0	84.00	TL:	58.90	PL:	58.00	CHK.
	SWS20178-1	84.25							11-775-1	84.25	CH:	29.40	PD:	21.00	DIA
	SWS20178-2	84.50	2nd: 1.500 0.059	X	3.550 0.140	TUC	CAST IRON	CHROME	11-775-2	84.50	DIST1:	-4.90	Head:	NONE	10.00
	SWS20178-3	84.75							11-775-3	84.75	DIST2:		Skirt:	NONE	
	SWS20178-4	85.00	Oil: 2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	11-775-4	85.00	DIST3:				
REFERENCE # 12140-86FA0 91174392		TOP 2ND OIL 			REFERENCE # 12100-65810-0A0 12100-86830-0A0										



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1995CC),DOHC,4CYL, 84.000MM (3.307"), J20B / 2007-2012																
SX-4 / 07-12 SX-4 CROSSOVER / 07-12	SWS20216-0	84.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20216-1	84.25		0.047		0.098										
	SWS20216-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	CHROME							
	SWS20216-3	84.75		0.047		0.118										
	SWS20216-4	85.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED							
		0.098	0.096													
	REFERENCE # 12140-65J00		TOP	2ND	OIL											
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), KL5J / 2004-2008																
FORENZA / 04-08 RENO / 05-08	SWG10019-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10019-1	86.25		0.047		0.114										
	SWG10019-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWG10019-3	86.75		0.059		0.138										
	SWG10019-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME							
		0.098	0.112													
	REFERENCE # 12140-85Z00 21018813 96180138		TOP	2ND	OIL											
2.4L (146CID,2393CC),DOHC,4CYL, 92.000MM (3.622"), J24B / 2009-2012																
GRAND VITARA / 09-12 KIZASHI / 10-12	SWS20215-0	92.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20215-1	92.25		0.047		0.122										
	SWS20215-2	92.50	2nd:	1.000	X	3.100	TUC	DUCTILE IRON	PHOSPHATE							
	SWS20215-3	92.75		0.039		0.122										
	SWS20215-4	93.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED							
		0.079	0.100													
	REFERENCE # 12140-78K00		TOP	2ND	OIL											
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2009-2012																
EQUATOR / 09-12	SWN30140-0	89.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-881-0	89.00	TL:	61.50	PL:	57.00	CHK. DIA 9.50
	SWN30140-1	89.25		0.047		0.122					11-881-1	89.25	CH:	32.90	PD:	
	SWN30140-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-881-2	89.50	DIST1:	5.90	Head:	ARL	
	SWN30140-3	89.75		0.047		0.150					11-881-3	89.75	DIST2:		Skirt:	
	SWN30140-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-881-4	90.00	DIST3:				
		0.098	0.112													
	REFERENCE # 12033-8H301 12033-8J000 12033-EA000 12033-EA00B		TOP	2ND	OIL				REFERENCE # A2010-EA000 A2010-EA001							

SUZUKI



SUZUKI

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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2.5L (152CID,2494CC),DOHC,6CYL, 84.000MM (3.307"), H25A / 1999-2005

GRAND VITARA / 99-05	SWS20207-0	84.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-883-0	84.00	TL:	58.90	PL:	58.00	CHK. DIA
	SWS20207-1	84.25		0.047		0.114				11-883-1	84.25	CH:	29.40	PD:	21.00	
	SWS20207-2	84.50	2nd:	1.500	X	3.550	TUC	CAST IRON	CHROME	11-883-2	84.50	DIST1:	-4.90	Head:	NONE	10.00
	SWS20207-3	84.75		0.059		0.140				11-883-3	84.75	DIST2:		Skirt:	NONE	
	SWS20207-4	85.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-883-4	85.00	DIST3:				
REFERENCE # 12140-86FA0	TOP	2ND	OIL				REFERENCE # 12100-86831-0A0									

2.7L (167CID,2736CC),DOHC,6CYL, 88.000MM (3.465"), H27A / 2006-2008

GRAND VITARA / 07-08 XL-7 / 06-06	SWS20210-0	88.00	Top:	1.200	X	3.300	BF-IB	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>						
	SWS20210-1	88.25		0.047		0.130										
	SWS20210-2	88.50	2nd:	1.500	X	3.300	TUC	CAST IRON	CHROME							
	SWS20210-3	88.75		0.059		0.130										
	SWS20210-4	89.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	NITRIDED							
REFERENCE # 12140-52D00	TOP	2ND	OIL													

4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2009-2012

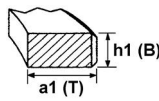
EQUATOR / 09-12	SWN30131-0	95.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>						
	SWN30131-1	95.75		0.047		0.136										
	SWN30131-2	96.00	2nd:	1.200	X	4.100	T1	CAST IRON	PHOSPHATE							
	SWN30131-3	96.25		0.047		0.161										
	SWN30131-4	96.50	Oil:	2.500	X	2.750	NIFF-S	STEEL	CHROME							
REFERENCE # 12033-4W001 12033-4W005 12033-8J100	TOP	2ND	OIL													

TOYOTA

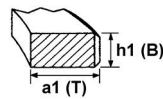
TOYOTA

1.2L (71CID,1166CC),OHV,4CYL, 75.000MM (2.953"), 3K-C / 1973-1979

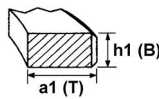
COROLLA / 73-79	SWT10052-0	75.00	Top:	2.000	X	3.600	BF	STEEL	CHROME	11-140-0	75.00	TL:	75.00	PL:	61.00	CHK. DIA
	SWT10052-1	75.25		0.079		0.142				11-140-1	75.25	CH:	36.00	PD:	18.00	
	SWT10052-2	75.50	2nd:	2.000	X	3.600	T1	CAST IRON	PHOSPHATE	11-140-2	75.50	DIST1:		Head:	NONE	12.00
	SWT10052-3	75.75		0.079		0.142				11-140-3	75.75	DIST2:		Skirt:	NONE	
	SWT10052-4	76.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-140-4	76.00	DIST3:				
REFERENCE # 13011-13030 13011-24011	TOP	2ND	OIL				REFERENCE # 13101-24010 13101-24011-02									



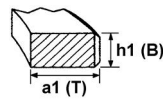
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (79CID,1290CC),OHV,4CYL, 75.000MM (2.953"), 4K-C / 1981-1982																
STARLET / 81-82	SWT10052-0	75.00	Top:	2.000	X	3.600	BF	STEEL	CHROME	11-140-0	75.00	TL:	75.00	PL:	61.00	CHK.
	SWT10052-1	75.25		0.079						0.142	11-140-1	75.25	CH:	36.00	PD:	18.00
	SWT10052-2	75.50	2nd:	2.000	X	3.600	T1	CAST IRON	PHOSPHATE	11-140-2	75.50	DIST1:		Head:	NONE	12.00
	SWT10052-3	75.75		0.079						0.142	11-140-3	75.75	DIST2:		Skirt:	NONE
	SWT10052-4	76.00		Oil:						4.000	0.157	3.050	0.120	NIFF-S	STEEL	CHROME
REFERENCE #	13011-13030	13011-24011	TOP	2ND	OIL	REFERENCE #	13101-24010	13101-24011-02								
1.3L (79CID,1290CC),SOHC,4CYL, 75.000MM (2.953"), 4K-E / 1983-1984																
STARLET / 83-84	SWT10109-0	75.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-141-0	75.00	TL:	69.00	PL:	61.00	CHK.
	SWT10109-1	75.25		0.059						0.120	11-141-1	75.25	CH:	36.00	PD:	18.00
	SWT10109-2	75.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-141-2	75.50	DIST1:	-4.00	Head:	NONE	10.00
	SWT10109-3	75.75		0.059						0.134	11-141-3	75.75	DIST2:	-6.70	Skirt:	NONE
	SWT10109-4	76.00		Oil:						4.000	0.157	3.050	0.120	NIFF-S	STEEL	NITRIDED
REFERENCE #	13011-13010	TOP	2ND	OIL	REFERENCE #	13101-13021										
1.5L (89CID,1452CC),SOHC,4CYL, 77.500MM (3.051"), 1A-C / 1980-1980																
TERCEL / 80-80	SWT10078-0	77.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-142-0	77.50	TL:	61.00	PL:	61.00	CHK.
	SWT10078-1	77.75		0.059						0.112	11-142-1	77.75	CH:	31.00	PD:	18.00
	SWT10078-2	78.00	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-142-2	78.00	DIST1:	-3.20	Head:	NONE	10.00
	SWT10078-3	78.25		0.059						0.134	11-142-3	78.25	DIST2:		Skirt:	NONE
	SWT10078-4	78.50		Oil:						2.800	0.110	2.800	0.110	NIFF-S	STEEL	CHROME
REFERENCE #	13011-15011	TOP	2ND	OIL	REFERENCE #	13101-15010										
1.5L (89CID,1452CC),SOHC,4CYL, 77.500MM (3.051"), 3A-C / 1982-1988																
TERCEL / 82-88	SWT10078-0	77.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-143-0	77.50	TL:	61.00	PL:	61.00	CHK.
	SWT10078-1	77.75		0.059						0.112	11-143-1	77.75	CH:	31.00	PD:	18.00
	SWT10078-2	78.00	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-143-2	78.00	DIST1:	-3.00	Head:	NONE	10.00
	SWT10078-3	78.25		0.059						0.134	11-143-3	78.25	DIST2:		Skirt:	NONE
	SWT10078-4	78.50		Oil:						2.800	0.110	2.800	0.110	NIFF-S	STEEL	CHROME
REFERENCE #	13011-15011	TOP	2ND	OIL	REFERENCE #	13101-15020-02										



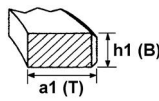
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.5L (89CID,1456CC),DOHC,4CYL, 74.000MM (2.913"), 5E-FE / 1992-1998													
PASEO / 92-95 TERCEL / 95-98	SWT10128-0	74.00	Top: 1.200 0.047	X	2.700 0.106	BF	STEEL	CHROME	11-656-0	74.00	TL: 58.60	PL: 59.00	CHK. DIA 10.00
	SWT10128-1	74.25							11-656-1	74.25	CH: 29.70	PD: 18.00	
	SWT10128-2	74.50	2nd: 1.200 0.047	X	3.100 0.122	TUC	CAST IRON	PHOSPHATE	11-656-2	74.50	DIST1: 0.70	Head: NONE	
	SWT10128-3	74.75							11-656-3	74.75	DIST2: -0.20	Skirt: NONE	
	SWT10128-4	75.00	Oil: 3.000 0.118	X	2.800 0.110	NIFF-S	STEEL	CHROME	11-656-4	75.00	DIST3:		
REFERENCE # 13011-11140 13011-11160	TOP	2ND	OIL	REFERENCE # 13101-11131-01 13101-11161-01									
1.5L (89CID,1456CC),SOHC,4CYL, 73.000MM (2.874"), 3E,3E-E / 1987-1994													
TERCEL / 87-94	SWT10143-0	73.00	Top: 1.500 0.059	X	2.650 0.104	BF	STEEL	CHROME	11-650-0	73.00	TL: 62.00	PL: 59.00	CHK. DIA 10.00
	SWT10143-1	73.25							11-650-1	73.25	CH: 30.00	PD: 18.00	
	SWT10143-2	73.50	2nd: 1.500 0.059	X	3.100 0.122	TUC	CAST IRON	PHOSPHATE	11-650-2	73.50	DIST1: -2.90	Head: NONE	
	SWT10143-3	73.75							11-650-3	73.75	DIST2:	Skirt: NONE	
	SWT10143-4	74.00	Oil: 3.000 0.118	X	3.000 0.118	NIFF-S	STEEL	CHROME	11-650-4	74.00	DIST3:		
REFERENCE # 13011-11090	TOP	2ND	OIL	REFERENCE # 13101-11081-02									
1.5L (91CID,1496CC),DOHC,4CYL, 75.000MM (2.953"), 1NZ-FE / 2000-2015													
ECHO / 00-05 YARIS / 07-15	SWT10192-0	75.00	Top: 1.200 0.047	X	2.500 0.098	BF	STEEL	NITRIDED	11-776-0	75.00	TL: 49.00	PL: 53.00	CHK. DIA 10.00
	SWT10192-1	75.25							11-776-1	75.25	CH: 30.10	PD: 18.00	
	SWT10192-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE	11-776-2	75.50	DIST1: -6.20	Head: NONE	
	SWT10192-3	75.75							11-776-3	75.75	DIST2: -2.20	Skirt: NONE	
	SWT10192-4	76.00	Oil: 2.000 0.079	X	2.200 0.087	NIFF-H	STEEL	NITRIDED	11-776-4	76.00	DIST3:		
REFERENCE # 13011-21041 13011-21120	TOP	2ND	OIL	REFERENCE # 13101-21030 13101-21160									
1.5L (91CID,1497CC),DOHC,4CYL, 75.000MM (2.953"), 1NZ-FXE / 2001-2004													
PRIUS HYBRID / 01-04	SDT10222-0	75.00	Top: 1.200 0.047	X	2.500 0.098	BF	STEEL	NITRIDED	11-895-0	75.00	TL: 49.50	PL: 53.00	CHK. DIA 7.00
	SDT10222-1	75.25							11-895-1	75.25	CH: 30.70	PD: 18.00	
	SDT10222-2	75.50	2nd: 1.200 0.047	X	2.800 0.110	TUC	CAST IRON	PHOSPHATE	11-895-2	75.50	DIST1: -3.30	Head: NONE	
	SDT10222-3	75.75							11-895-3	75.75	DIST2:	Skirt: NONE	
	SDT10222-4	76.00	Oil: 2.000 0.079	X	2.750 0.108	E-BC16	STEEL	NITRIDED	11-895-4	76.00	DIST3:		
REFERENCE # 13011-21070	TOP	2ND	OIL	REFERENCE # 13101-21070									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1497CC),DOHC,4CYL, 75.00MM (2.953"), 1NZ-FXE / 2005-2015																
PRIUS HYBRID / 05-09	SWT10229-0	75.00	Top:	0.800	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
PRIUS HYBRID C / 12-15	SWT10229-1	75.25		0.031		0.098										
	SWT10229-2	75.50	2nd:	1.000	X	2.300	T1	STEEL	PHOSPHATE							
	SWT10229-3	75.75		0.039		0.091										
	SWT10229-4	76.00	Oil:	1.500	X	2.100	NIFF-H	STEEL	CHROME							
	13011-21100															
	13011-21110															
1.6L (97CID,1587CC),DOHC,4CYL, 81.00MM (3.189"), 4A-F,4A-FE / 1988-1992																
CELICA / 90-92	SWT10142-0	81.00	Top:	1.500	X	2.700	BF	STEEL	NITRIDED	11-649-0	81.00	TL:	61.10	PL:	61.00	CHK.
COROLLA / 88-92	SWT10142-1	81.25		0.059		0.106				11-649-1	81.25	CH:	30.60	PD:	18.00	DIA
	SWT10142-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-649-2	81.50	DIST1:	-3.00	Head:	NONE	10.00
	SWT10142-3	81.75		0.059		0.134				11-649-3	81.75	DIST2:	-2.80	Skirt:	NONE	
	SWT10142-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-649-4	82.00	DIST3:				
	13011-16130															
	94847305															
1.6L (97CID,1587CC),DOHC,4CYL, 81.00MM (3.189"), 4A-FE / 1993-1997																
COROLLA / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-714-0	81.00	TL:	55.60	PL:	56.00	CHK.
	SWT10156-1	81.25		0.047		0.114				11-714-1	81.25	CH:	30.50	PD:	20.00	DIA
	SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-714-2	81.50	DIST1:	-2.50	Head:	NONE	15.00
	SWT10156-3	81.75		0.059		0.134				11-714-3	81.75	DIST2:		Skirt:	NONE	
	SWT10156-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-714-4	82.00	DIST3:				
	13011-16300															
	13011-16340															
	94854159															
	94855500															
1.6L (97CID,1587CC),DOHC,4CYL, 81.00MM (3.189"), 4A-GE,4A-GELC / 1988-1990																
COROLLA / 88-90	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-660-0	81.00	TL:	64.50	PL:	61.00	CHK.
MR2 / 88-89	SWT10108-1	81.25		0.059		0.122				11-660-1	81.25	CH:	30.50	PD:	20.00	DIA
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-660-2	81.50	DIST1:	0.30	Head:	NONE	10.00
	SWT10108-3	81.75		0.059		0.138				11-660-3	81.75	DIST2:		Skirt:	NONE	
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-660-4	82.00	DIST3:				
	13011-16011															
	13011-16170															
	94840036															
	94845462															

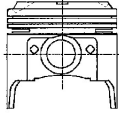
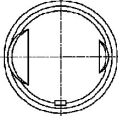
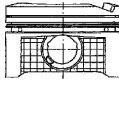
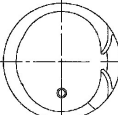

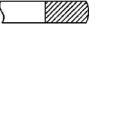
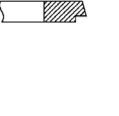
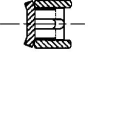


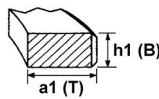
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GEC,4A-GELC / 1985-1987																
COROLLA / 85-87 MR2 / 85-87	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-659-0	81.00	TL:	64.80	PL:	61.00	CHK. DIA
	SWT10108-1	81.25		0.059		0.122				11-659-1	81.25	CH:	30.00	PD:	18.00	
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-659-2	81.50	DIST1:	-4.00	Head:	NONE	
	SWT10108-3	81.75		0.059		0.138				11-659-3	81.75	DIST2:	-5.00	Skirt:	NONE	
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-659-4	82.00	DIST3:				
			0.110	0.110												
REFERENCE # 13011-16011 13011-16170 94840036 94845462		TOP			2ND		OIL		REFERENCE # 13101-16020-02							
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GZE / 1988-1989 SUPERCHARGER																
MR2 / 88-89	SWT10145-0	81.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT10145-1	81.25		0.059		0.122										
	SWT10145-2	81.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME							
	SWT10145-3	81.75		0.059		0.134										
	SWT10145-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME							
			0.110	0.110												
REFERENCE # 13011-16090		TOP			2ND		OIL									
1.6L (97CID,1587CC),SOHC,4CYL, 81.000MM (3.189"), 4A-C,4A-LC / 1983-1988																
COROLLA / 83-88	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-144-0	81.00	TL:	60.50	PL:	61.00	CHK. DIA 13.00
	SWT10108-1	81.25		0.059		0.122				11-144-1	81.25	CH:	30.50	PD:	18.00	
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-144-2	81.50	DIST1:	-3.00	Head:	NONE	
	SWT10108-3	81.75		0.059		0.138				11-144-3	81.75	DIST2:		Skirt:	NONE	
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-144-4	82.00	DIST3:				
			0.110	0.110												
REFERENCE # 13011-16011 13011-16170 94840036 94845462		TOP			2ND		OIL		REFERENCE # 13103-16010 94850643							
1.6L (97CID,1588CC),OHV,4CYL, 85.000MM (3.346"), 2T-C / 1972-1973																
CARINA / 72-73	SWT10059-0	85.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	DISC-11-147-0	85.00					
	SWT10059-1	85.25		0.059		0.128				DISC-11-147-1	85.25					
	SWT10059-2	85.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-147-2	85.50					
	SWT10059-3	85.75		0.059		0.150				DISC-11-147-3	85.75					
	SWT10059-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-147-4	86.00					
			0.157	0.128												
REFERENCE # 13011-28030		TOP			2ND		OIL		REFERENCE # 13101-26040							



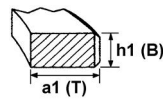
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1588CC),OHV,4CYL, 85.000MM (3.346"), 2T-C / 1972-1977																
CARINA / 72-73 COROLLA / 73-77	SWT10040-0 SWT10040-1 SWT10040-2 SWT10040-3 SWT10040-4	85.00 85.25 85.50 85.75 86.00	Top: 2nd: Oil:	2.000 0.079 2.000 0.079 4.000 0.157	X X X	4.000 0.157 4.000 0.157 3.250 0.128	BF T1 NIFF-S	CAST IRON CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-145-0 11-145-1 11-145-2 11-145-3 11-145-4	85.00 85.25 85.50 85.75 86.00	TL: CH: DIST1: DIST2: DIST3:	91.10 39.00 6.10	PL: PD: Head: Skirt:	66.00 22.00 NONE NONE	CHK. DIA 25.00
	REFERENCE # 13011-26020 13011-36020	TOP 2ND OIL							REFERENCE # 13101-26011							
1.6L (97CID,1588CC),OHV,4CYL, 85.000MM (3.346"), 2T-C / 1973-1976																
COROLLA / 73-76	SWT10040-0 SWT10040-1 SWT10040-2 SWT10040-3 SWT10040-4	85.00 85.25 85.50 85.75 86.00	Top: 2nd: Oil:	2.000 0.079 2.000 0.079 4.000 0.157	X X X	4.000 0.157 4.000 0.157 3.250 0.128	BF T1 NIFF-S	CAST IRON CAST IRON STEEL	CHROME PHOSPHATE CHROME	DISC-11-146-0 DISC-11-146-1 DISC-11-146-2 DISC-11-146-3 DISC-11-146-4	85.00 85.25 85.50 85.75 86.00					
	REFERENCE # 13011-26020 13011-36020	TOP 2ND OIL							REFERENCE # 13101-26021							
1.6L (97CID,1588CC),OHV,4CYL, 85.000MM (3.346"), 2T-C / 1978-1979																
COROLLA / 78-79	SWT10059-0 SWT10059-1 SWT10059-2 SWT10059-3 SWT10059-4	85.00 85.25 85.50 85.75 86.00	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 4.000 0.157	X X X	3.250 0.128 3.800 0.150 3.250 0.128	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	DISC-11-148-0 DISC-11-148-1 DISC-11-148-2 DISC-11-148-3 DISC-11-148-4	85.00 85.25 85.50 85.75 86.00					
	REFERENCE # 13011-28030	TOP 2ND OIL							REFERENCE # 13101-26031							
1.8L (108CID,1762CC),DOHC,4CYL, 81.000MM (3.189"), 7A-FE / 1993-1997																
CELICA / 94-97 COROLLA / 93-97	SWT10156-0 SWT10156-1 SWT10156-2 SWT10156-3 SWT10156-4	81.00 81.25 81.50 81.75 82.00	Top: 2nd: Oil:	1.200 0.047 1.500 0.059 3.000 0.118	X X X	2.900 0.114 3.400 0.134 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-713-0 11-713-1 11-713-2 11-713-3 11-713-4	81.00 81.25 81.50 81.75 82.00	TL: CH: DIST1: DIST2: DIST3:	56.00 30.50 -3.40	PL: PD: Head: Skirt:	56.00 20.00 NONE NONE	CHK. DIA 10.00
	REFERENCE # 13011-16300 13011-16340 94854159 94855500	TOP 2ND OIL							REFERENCE # 13101-16150-01 94853591							



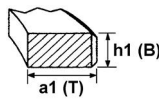
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
1.8L (108CID,1770CC),OHV,4CYL, 85.000MM (3.346"), 3T-C / 1980-1982													
COROLLA / 80-82	SWT10059-0	85.00	Top: 1.500 0.059	X	3.250 0.128	BF	STEEL	CHROME	11-149-0	85.00	TL: 82.50	PL: 66.00	CHK.
	SWT10059-1	85.25							11-149-1	85.25	CH: 35.20	PD: 22.00	DIA
	SWT10059-2	85.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	11-149-2	85.50	DIST1: -5.40	Head: NONE	30.00
	SWT10059-3	85.75							11-149-3	85.75	DIST2:	Skirt: NONE	
	SWT10059-4	86.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-149-4	86.00	DIST3:		
REFERENCE # 13011-28030	TOP	2ND	OIL	REFERENCE # 13101-28010									
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 1998-2008													
CELICA / 00-05 COROLLA / 98-99 MATRIX / 03-08	SWT10183-0	79.00	Top: 1.200 0.047	X	2.650 0.104	BF	STEEL	CHROME	11-756-0	79.00	TL: 51.60	PL: 50.00	CHK.
	SWT10183-1	79.25							11-756-1	79.25	CH: 29.90	PD: 20.00	DIA
	SWT10183-2	79.50	2nd: 1.200 0.047	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE	11-756-2	79.50	DIST1: -4.20	Head: NONE	10.00
	SWT10183-3	79.75							11-756-3	79.75	DIST2: 2.30	Skirt: NONE	
	SWT10183-4	80.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	CHROME	11-756-4	80.00	DIST3:		
REFERENCE # 13011-0D010 13011-22040 13011-22150 88972331 94856686 94859421	TOP	2ND	OIL	REFERENCE # 13101-22020 94856684									
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 2000-2006													
MR2 SPYDER / 00-06	SWT10183-0	79.00	Top: 1.200 0.047	X	2.650 0.104	BF	STEEL	CHROME	DISC-11-790-0	79.00			
	SWT10183-1	79.25							DISC-11-790-1	79.25			
	SWT10183-2	79.50	2nd: 1.200 0.047	X	3.200 0.126	TUC	CAST IRON	PHOSPHATE	DISC-11-790-2	79.50			
	SWT10183-3	79.75							DISC-11-790-3	79.75			
	SWT10183-4	80.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	CHROME	DISC-11-790-4	80.00			
REFERENCE # 13011-0D010 13011-22040 13011-22150 88972331 94856686 94859421	TOP	2ND	OIL	REFERENCE # 13101-22031									



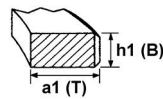
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO								
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 2000-2008																		
COROLLA / 00-08	SWT10183-0	79.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-777-0	79.00	TL:	51.70	PL:	50.00	CHK. DIA 19.50		
	SWT10183-1	79.25		0.047		0.104				11-777-1	79.25	CH:	29.80	PD:	20.01			
	SWT10183-2	79.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-777-2	79.50	DIST1:	2.40	Head:	AH			
	SWT10183-3	79.75		0.047		0.126				11-777-3	79.75	DIST2:		Skirt:	MS			
	SWT10183-4	80.00		Oil:	3.000	X				2.550	NIFF-S	STEEL	CHROME	11-777-4	80.00		DIST3:	
	0.118				0.100													
	REFERENCE #	TOP	2ND	OIL	REFERENCE #													
	13011-0D010				13101-0D040													
	13011-22040				13101-22140													
	13011-22150				88969051													
	88972331				88972330													
	94856686				94859420													
	94859421																	
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), 2ZZ-EE,2ZZ-GE / 2000-2006																		
CELICA / 00-05 MATRIX / 03-06	SWT10196-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-802-0	82.00	TL:	57.70	PL:	56.58	CHK. DIA 25.00		
	SWT10196-1	82.25		0.047		0.112				11-802-1	82.25	CH:	31.30	PD:	20.01			
	SWT10196-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE	11-802-2	82.50	DIST1:	1.40	Head:	NONE			
	SWT10196-3	82.75		0.047		0.120				11-802-3	82.75	DIST2:		Skirt:	NONE			
	SWT10196-4	83.00		Oil:	3.000	X				3.200	NIFF-S	STEEL	CHROME	11-802-4	83.00		DIST3:	
	0.118				0.126													
	REFERENCE #	TOP	2ND	OIL	REFERENCE #													
	13011-88601				13101-88601													
	88969557																	
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FE,2ZR-FXE / 2009-2015																		
COROLLA / 09-15 MATRIX / 09-13 PRIUS HYBRID / 10-15 PRIUS HYBRID V / 12-15	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>								
	SWT10232-1	80.75		0.039		0.114												
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE									
	SWT10232-3	81.25		0.039		0.098												
	SWT10232-4	81.50		Oil:	1.500	X										1.950	NIFF-H	STEEL
	0.059				0.077													
	REFERENCE #	TOP	2ND	OIL														
	13011-0T010																	
	13011-37110																	
	19185554																	
1.8L (112CID,1839CC),4CYL, 83.000MM (3.268"), 1CL-LC,1CL-LTC / 1984-1985																		
CAMRY / 84-85 COROLLA / 84-85	SDT10081-0	83.00	Top:	2.000	X	3.050	BF-K2	STEEL	CHROME	DISC-11-150-0	83.00							
	SDT10081-1	83.25		0.079		0.120				DISC-11-150-1	83.25							
	SDT10081-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	CHROME	DISC-11-150-2	83.50							
	SDT10081-3	83.75		0.079		0.150				DISC-11-150-3	83.75							
	SDT10081-4	84.00		Oil:	4.000	X				4.350	E-BC16	STEEL	NITRIDED	DISC-11-150-4	84.00			
	0.157				0.171													
	REFERENCE #	TOP	2ND	OIL	REFERENCE #													
	13011-64070				13101-64010													
					13101-64040													



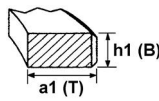
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.9L (113CID,1858CC),4CYL, 86.000MM (3.386"), 8R-C / 1970-1971																
CELICA / 71-71 CORONA / 70-71	SWT10019-0	86.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-151-0	86.00					
	SWT10019-1	86.25		0.079						0.154	DISC-11-151-1	86.25				
	SWT10019-2	86.50	2nd:	2.500	X	3.900	T1	CAST IRON	CHROME	DISC-11-151-2	86.50					
	SWT10019-3	86.75		0.098						0.154	DISC-11-151-3	86.75				
	SWT10019-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-151-4	87.00					
		0.157	0.128													
	REFERENCE # 13011-33022		TOP		2ND		OIL			REFERENCE # 13101-33010						
1.9L (116CID,1897CC),4CYL, 88.000MM (3.465"), 3R-C / 1968-1969																
CORONA / 68-69	SWT10022-0	88.00	Top:	2.500	X	4.100	T1	CAST IRON	CHROME	DISC-11-152-0	88.00					
	SWT10022-1	88.25		0.098						0.161	DISC-11-152-1	88.25				
	SWT10022-2	88.50	2nd:	2.500	X	4.100	TUC	CAST IRON	PHOSPHATE	DISC-11-152-2	88.50					
	SWT10022-3	88.75		0.098						0.161	DISC-11-152-3	88.75				
	SWT10022-4	89.00	Oil:	5.000	X	4.050	BC3	STEEL	CHROME	DISC-11-152-4	89.00					
		0.197	0.159													
	REFERENCE # 13011-40010		TOP		2ND		OIL			REFERENCE # 13101-40010						
2.0L (120CID,1968CC),4CYL, 88.500MM (3.484"), 18R-C / 1972-1974																
CELICA / 72-74 CORONA / 73-74 PICKUP / 72-74	SWT10043-0	88.50	Top:	2.000	X	4.200	BF	CAST IRON	CHROME	11-153-0	88.50	TL:	84.80	PL:	75.00	CHK.
	SWT10043-1	88.75		0.079						0.165	11-153-1	88.75	CH:	39.80	PD:	22.00
	SWT10043-2	89.00	2nd:	2.500	X	4.200	T1	CAST IRON	CHROME	11-153-2	89.00	DIST1:		Head:	NONE	20.00
	SWT10043-3	89.25		0.098						0.165	11-153-3	89.25	DIST2:		Skirt:	NONE
	SWT10043-4	89.50	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	11-153-4	89.50	DIST3:				
		0.157	0.152													
	REFERENCE # 13011-38020		TOP		2ND		OIL			REFERENCE # 13101-34030						
2.0L (120CID,1974CC),4CYL, 86.000MM (3.386"), 2CT-LC / 1986-1986																
CAMRY / 86-86	SDT10096-0	86.00	Top:	2.000	X	3.050	BF-K2	STEEL	CHROME	DISC-11-655-0	86.00					
	SDT10096-1	86.25		0.079						0.120	DISC-11-655-1	86.25				
	SDT10096-2	86.50	2nd:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-655-2	86.50					
	SDT10096-3	86.75		0.079						0.142	DISC-11-655-3	86.75				
	SDT10096-4	87.00	Oil:	4.000	X	4.000	E-BC16	STEEL	NITRIDED	DISC-11-655-4	87.00					
		0.157	0.157													
	REFERENCE # 13011-64150		TOP		2ND		OIL			REFERENCE # 13101-64070-02						

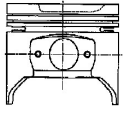
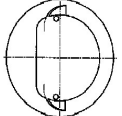
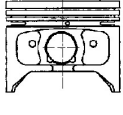
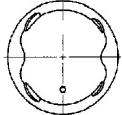
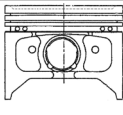

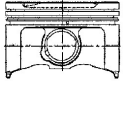
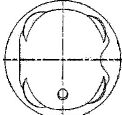


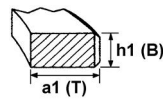
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO																							
2.0L (122CID,1995CC),SOHC,4CYL, 84.00MM (3.307"), 2SE-LC / 1983-1986																																	
CAMRY / 83-86 CELICA / 86-86	SWT10088-0	84.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-154-0	84.00																						
	SWT10088-1	84.25		0.059	0.136	DISC-11-154-1				84.25																							
	SWT10088-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-154-2	84.50																						
	SWT10088-3	84.75		0.059	0.150	DISC-11-154-3				84.75																							
	SWT10088-4	85.00		Oil:	4.000	X				3.300	NIFF-S									STEEL	CHROME	DISC-11-154-4	85.00										
		0.157	0.130																														
REFERENCE # 13011-74021	TOP	2ND	OIL	REFERENCE # 13101-74010																													
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 1AZ-FE / 2001-2003																																	
RAV4 / 01-03	SWT10186-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-850-0	86.00	TL:	60.80	PL:	56.00	CHK.																	
	SWT10186-1	86.25		0.047	0.106	11-850-1				86.25	CH:										40.80	PD:	22.00	DIA									
	SWT10186-2	86.50	2nd:	1.200	X	3.100	TUC	CAST IRON	PHOSPHATE	11-850-2															86.50	DIST1:	-5.80	Head:	NONE	10.00			
	SWT10186-3	86.75		0.047	0.122	11-850-3				86.75															DIST2:						-2.15	Skirt:	MS
	SWT10186-4	87.00		Oil:	2.000	X				2.500																							
		0.079	0.098																														
REFERENCE # 13011-28120	TOP	2ND	OIL	REFERENCE # 13211-28060-A0																													
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3S-FE / 1987-1991																																	
CAMRY / 87-91 CELICA / 87-89	SWT10119-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-644-0	86.00	TL:	68.40	PL:	66.00	CHK.																	
	SWT10119-1	86.25		0.059	0.128	11-644-1				86.25	CH:										35.00	PD:	20.01	DIA									
	SWT10119-2	86.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-644-2															86.50	DIST1:	-3.90	Head:	NONE	7.00			
	SWT10119-3	86.75		0.059	0.150	11-644-3				86.75															DIST2:						Skirt:	NONE	
	SWT10119-4	87.00		Oil:	4.000	X				3.250																							NIFF-S
		0.157	0.128																														
REFERENCE # 13011-74072	TOP	2ND	OIL	REFERENCE # 13101-74112-02																													
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3S-FE / 1996-1997																																	
RAV4 / 96-97	SWT10119-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-723-0	86.00	TL:	67.90	PL:	66.00	CHK.																	
	SWT10119-1	86.25		0.059	0.128	11-723-1				86.25	CH:										35.00	PD:	22.00	DIA									
	SWT10119-2	86.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-723-2															86.50	DIST1:	-5.00	Head:	NONE	20.00			
	SWT10119-3	86.75		0.059	0.150	11-723-3				86.75															DIST2:						Skirt:	NONE	
	SWT10119-4	87.00		Oil:	4.000	X				3.250																							NIFF-S
		0.157	0.128																														
REFERENCE # 13011-74072	TOP	2ND	OIL	REFERENCE # 13101-74100-01																													



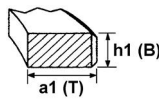
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3S-FE / 1998-2000													
RAV4 / 98-00	SWT10162-0	86.00	Top: 1.200 0.047	X	2.900 0.114	BF	STEEL	CHROME	11-795-0	86.00	TL: 59.10	PL: 56.00	CHK. DIA 15.00
	SWT10162-1	86.25							11-795-1	86.25	CH: 35.00	PD: 22.00	
	SWT10162-2	86.50	2nd: 1.200 0.047	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE	11-795-2	86.50	DIST1: -3.90	Head: NONE	
	SWT10162-3	86.75							11-795-3	86.75	DIST2:	Skirt: NONE	
	SWT10162-4	87.00	Oil: 3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	CHROME	11-795-4	87.00	DIST3:		
REFERENCE # 13011-74361	TOP	2ND	OIL	REFERENCE # 13101-74191-01									
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3SG-ELC / 1986-1989													
CELICA / 86-89	SWT10141-0	86.00	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-648-0	86.00	TL: 67.10	PL: 66.00	CHK. DIA 10.00
	SWT10141-1	86.25							11-648-1	86.25	CH: 35.10	PD: 22.00	
	SWT10141-2	86.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-648-2	86.50	DIST1: -5.00	Head: NONE	
	SWT10141-3	86.75							11-648-3	86.75	DIST2:	Skirt: NONE	
	SWT10141-4	87.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-648-4	87.00	DIST3:		
REFERENCE # 13011-88363 13011-88380 13011-88381	TOP	2ND	OIL	REFERENCE # 13101-74032-02									
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3SG-TE / 1988-1989 TURBO													
CELICA / 88-89	SWT10141-0	86.00	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-646-0	86.00	TL: 67.10	PL: 66.00	CHK. DIA 5.00
	SWT10141-1	86.25							11-646-1	86.25	CH: 35.00	PD: 22.00	
	SWT10141-2	86.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-646-2	86.50	DIST1: -1.60	Head: NONE	
	SWT10141-3	86.75							11-646-3	86.75	DIST2: -5.10	Skirt: NONE	
	SWT10141-4	87.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-646-4	87.00	DIST3:		
REFERENCE # 13011-88363 13011-88380 13011-88381	TOP	2ND	OIL	REFERENCE # 13101-88380-01									
2.0L (122CID,1998CC),DOHC,4CYL, 86.00MM (3.386"), 3SG-TE / 1990-1995 TURBO													
CELICA / 90-93 MR2 / 91-95	SWT10141-0	86.00	Top: 1.200 0.047	X	3.300 0.130	BF	STEEL	CHROME	11-647-0	86.00	TL: 62.10	PL: 66.00	CHK. DIA 11.00
	SWT10141-1	86.25							11-647-1	86.25	CH: 35.10	PD: 22.00	
	SWT10141-2	86.50	2nd: 1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE	11-647-2	86.50	DIST1: -0.80	Head: NONE	
	SWT10141-3	86.75							11-647-3	86.75	DIST2:	Skirt: NONE	
	SWT10141-4	87.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	11-647-4	87.00	DIST3:		
REFERENCE # 13011-88363 13011-88380 13011-88381	TOP	2ND	OIL	REFERENCE # 13101-88381-01									



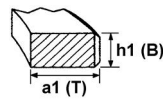
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),OHV,4CYL, 86.00MM (3.386"), 3Y-EC / 1984-1985																
VAN / 84-85	SWT10090-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-155-0	86.00	TL:	70.00	PL:	66.00	CHK.
	SWT10090-1	86.25		0.059		0.136				11-155-1	86.25	CH:	35.00	PD:	22.00	DIA
	SWT10090-2	86.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-155-2	86.50	DIST1:	-5.00	Head:	NONE	0.00
	SWT10090-3	86.75		0.059		0.157				11-155-3	86.75	DIST2:		Skirt:	NONE	
	SWT10090-4	87.00		Oil:		4.000				3.250	11-155-4	87.00	DIST3:			
			0.157	0.128	NIFF-S	STEEL	CHROME									
	REFERENCE # 13011-71012	TOP	2ND	OIL					REFERENCE # 13101-43051-02 13101-73010-02	 						
2.2L (132CID,2164CC),DOHC,4CYL, 87.00MM (3.425"), 5S-FE / 1990-1991																
CELICA / 90-91 MR2 / 91-91	SWT10149-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-657-0	87.00	TL:	63.00	PL:	66.00	CHK.
	SWT10149-1	87.25		0.059		0.138				11-657-1	87.25	CH:	32.60	PD:	22.00	DIA
	SWT10149-2	87.50	2nd:	1.500	X	3.600	T1	CAST IRON	CHROME	11-657-2	87.50	DIST1:	-5.00	Head:	NONE	10.00
	SWT10149-3	87.75		0.059		0.142				11-657-3	87.75	DIST2:		Skirt:	NONE	
	SWT10149-4	88.00		Oil:		3.000				2.850	11-657-4	88.00	DIST3:			
			0.118	0.112	NIFF-S	STEEL	CHROME									
	REFERENCE # 13011-74150	TOP	2ND	OIL					REFERENCE # 13101-74080-01	 						
2.2L (132CID,2164CC),DOHC,4CYL, 87.00MM (3.425"), 5S-FE / 1990-1999																
CAMRY / 92-97 CELICA / 90-99 MR2 / 91-95	SWT10133-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-654-0	87.00	TL:	63.00	PL:	66.00	CHK.
	SWT10133-1	87.25		0.059		0.138				11-654-1	87.25	CH:	32.50	PD:	22.00	DIA
	SWT10133-2	87.50	2nd:	1.500	X	3.600	T1	CAST IRON	CHROME	11-654-2	87.50	DIST1:	-4.70	Head:	NONE	10.00
	SWT10133-3	87.75		0.059		0.142				11-654-3	87.75	DIST2:		Skirt:	NONE	
	SWT10133-4	88.00		Oil:		4.000				3.050	11-654-4	88.00	DIST3:			
			0.157	0.120	NIFF-S	STEEL	NITRIDED									
	REFERENCE # 13011-74290	TOP	2ND	OIL					REFERENCE # 13101-74130-01	 						
2.2L (132CID,2164CC),DOHC,4CYL, 87.00MM (3.425"), 5S-FE / 1998-2001																
CAMRY / 98-01 CAMRY SOLARA / 98-01	SWT10166-0	87.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-750-0	87.00	TL:	56.50	PL:	66.00	CHK.
	SWT10166-1	87.25		0.047		0.114				11-750-1	87.25	CH:	32.50	PD:	22.00	DIA
	SWT10166-2	87.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-750-2	87.50	DIST1:	-4.50	Head:	NONE	15.00
	SWT10166-3	87.75		0.047		0.134				11-750-3	87.75	DIST2:		Skirt:	NONE	
	SWT10166-4	88.00		Oil:		3.000				2.750	11-750-4	88.00	DIST3:			
			0.118	0.108	NIFF-S	STEEL	NITRIDED									
	REFERENCE # 13011-74370	TOP	2ND	OIL					REFERENCE # 13101-03060	 						



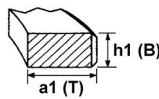
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
2.2L (134CID,2188CC),4CYL, 90.000MM (3.543"), L / 1981-1981																			
PICKUP / 81-81	SDT10066-0	90.00	Top: 2.500 0.098	X	3.800 0.150	BF	DUCTILE IRON	CHROME	DISC-11-633-0	90.00									
	SDT10066-1	90.25							DISC-11-633-1	90.25									
	SDT10066-2	90.50	2nd: 2.000 0.079	X	4.000 0.157	T1	CAST IRON	CHROME	DISC-11-633-2	90.50									
	SDT10066-3	90.75							DISC-11-633-3	90.75									
	SDT10066-4	91.00	Oil: 4.000 0.157	X	4.200 0.165	E-BC3	CAST IRON	CHROME	DISC-11-633-4	91.00									
REFERENCE # 13011-54021	TOP	2ND	OIL	REFERENCE # 13101-54010															
2.2L (134CID,2188CC),4CYL, 90.000MM (3.543"), L / 1982-1982																			
PICKUP / 82-82	SDT10082-0	90.00	Top: 2.000 0.079	X	3.350 0.132	BF-K2	STEEL	CHROME	11-634-0	90.00	TL: 99.00 CH: 52.00 DIST1: -1.40 DIST2: DIST3:	PL: 73.50 PD: 27.00 Head: NONE Skirt: NONE	75.00 27.00 NONE NONE	CHK. DIA 32.00					
	SDT10082-1	90.25							11-634-1	90.25									
	SDT10082-2	90.50	2nd: 2.000 0.079	X	4.000 0.157	T1	CAST IRON	CHROME	11-634-2	90.50									
	SDT10082-3	90.75							11-634-3	90.75									
	SDT10082-4	91.00	Oil: 4.000 0.157	X	4.350 0.171	E-BC3	STEEL	NITRIDED	11-634-4	91.00									
REFERENCE # 13011-54080	TOP	2ND	OIL	REFERENCE # 13101-54021															
2.2L (134CID,2188CC),4CYL, 90.000MM (3.543"), L / 1983-1983																			
PICKUP / 83-83	SDT10082-0	90.00	Top: 2.000 0.079	X	3.350 0.132	BF-K2	STEEL	CHROME	DISC-11-635-0	90.00									
	SDT10082-1	90.25							DISC-11-635-1	90.25									
	SDT10082-2	90.50	2nd: 2.000 0.079	X	4.000 0.157	T1	CAST IRON	CHROME	DISC-11-635-2	90.50									
	SDT10082-3	90.75							DISC-11-635-3	90.75									
	SDT10082-4	91.00	Oil: 4.000 0.157	X	4.350 0.171	E-BC3	STEEL	NITRIDED	DISC-11-635-4	91.00									
REFERENCE # 13011-54080	TOP	2ND	OIL	REFERENCE # 13101-54040															
2.2L (134CID,2189CC),SOHC,4CYL, 88.500MM (3.484"), 20R / 1975-1980																			
CELICA / 75-80 CORONA / 75-80 PICKUP / 75-80	SWT10043-0	88.50	Top: 2.000 0.079	X	4.200 0.165	BF	CAST IRON	CHROME	11-157-0	88.50	TL: 88.10 CH: 38.70 DIST1: 2.80 DIST2: DIST3:	PL: 75.00 PD: 22.00 Head: NONE Skirt: NONE	75.00 22.00 NONE NONE	CHK. DIA 20.00					
	SWT10043-1	88.75							11-157-1	88.75									
	SWT10043-2	89.00	2nd: 2.500 0.098	X	4.200 0.165	T1	CAST IRON	CHROME	11-157-2	89.00									
	SWT10043-3	89.25							11-157-3	89.25									
	SWT10043-4	89.50	Oil: 4.000 0.157	X	3.850 0.152	NIFF-S	STEEL	CHROME	11-157-4	89.50									
REFERENCE # 13011-38020	TOP	2ND	OIL	REFERENCE # 13101-38020															



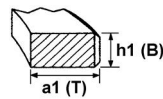
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (137CID,2237CC),OHV,4CYL, 91.000MM (3.533"), 4Y-EC / 1986-1989																
VAN / 86-89	SWT10111-0	91.00	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	11-637-0	91.00	TL:	65.00	PL:	66.00	CHK. DIA 25.00
	SWT10111-1	91.25		0.059		0.128				11-637-1	91.25	CH:	35.00	PD:	22.00	
	SWT10111-2	91.50	2nd:	1.500	X	3.950	TUC	CAST IRON	CHROME	11-637-2	91.50	DIST1:	-6.20	Head:	NONE	
	SWT10111-3	91.75		0.059		0.156				11-637-3	91.75	DIST2:		Skirt:	NONE	
	SWT10111-4	92.00		Oil:		4.000				3.100	NIFF-S	STEEL	CHROME	11-637-4	92.00	DIST3:
	REFERENCE # 13011-73032		TOP	2ND	OIL				REFERENCE # 13101-73031-01 13101-76012-71							
2.3L (137CID,2253CC),6CYL, 75.000MM (2.953"), 2M / 1972-1972																
CORONA / 72-72	SXT10004-0	75.00	Top:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-161-0	75.00					
	SXT10004-1	75.25		0.079		0.142				DISC-11-161-1	75.25					
	SXT10004-2	75.50	2nd:	2.000	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-161-2	75.50					
	SXT10004-3	75.75		0.079		0.142				DISC-11-161-3	75.75					
	SXT10004-4	76.00		Oil:		4.000				3.150	NIFF-S	STEEL	CHROME	DISC-11-161-4	76.00	
	REFERENCE # 13011-41015		TOP	2ND	OIL				REFERENCE # 13101-42020							
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2001-2007																
CAMRY / 02-06 CAMRY SOLARA / 02-06 HIGHLANDER / 01-07 RAV4 / 04-05	SWT10182-0	88.50	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-792-0	88.50	TL:	55.80	PL:	56.00	CHK. DIA 4.00
	SWT10182-1	88.75		0.047		0.106				11-792-1	88.75	CH:	33.70	PD:	22.00	
	SWT10182-2	89.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-792-2	89.00	DIST1:	-6.40	Head:	AH	
	SWT10182-3	89.25		0.047		0.126				11-792-3	89.25	DIST2:		Skirt:	MS	
	SWT10182-4	89.50		Oil:		2.000				2.450	NIFF-H	STEEL	NITRIDED	11-792-4	89.50	DIST3:
	REFERENCE # 13011-23100 13011-28102		TOP	2ND	OIL				REFERENCE # 13211-28030-A0 13211-28031-A0							
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2006-2013																
CAMRY / 07-09 CAMRY SOLARA / 07-08 COROLLA / 09-10 MATRIX / 09-13 RAV4 / 06-08	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-896-0	88.50	TL:	55.80	PL:	56.00	CHK. DIA 6.00
	SDT10200-1	88.75		0.039		0.106				11-896-1	88.75	CH:	35.80	PD:	22.00	
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	11-896-2	89.00	DIST1:	-7.80	Head:	AH	
	SDT10200-3	89.25		0.039		0.106				11-896-3	89.25	DIST2:		Skirt:	MS	
	SDT10200-4	89.50		Oil:		2.000				2.750	E-BC16	STEEL	NITRIDED	11-896-4	89.50	DIST3:
	REFERENCE # 13011-0H031 13011-28161		TOP	2ND	OIL				REFERENCE # 13211-28112-A0							



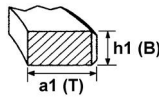
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FXE / 2007-2011																
CAMRY HYBRID / 07-11	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDT10200-1	88.75		0.039		0.106										
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE							
	SDT10200-3	89.25		0.039		0.106										
	SDT10200-4	89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED							
		0.079		0.108												
	REFERENCE #		TOP		2ND		OIL									
	13011-0H031															
	13011-28161															
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 20R,22R,22R-EC / 1981-1985																
4 RUNNER / 84-85 CELICA / 81-85 CORONA / 81-82 PICKUP / 81-85	SWT10077-0	92.00	Top:	2.000	X	3.450	BF	STEEL	CHROME	11-241-0	92.00	TL:	92.50	PL:	75.00	CHK.
	SWT10077-1	92.25		0.079		0.136							11-241-1	92.25	CH:	39.00
	SWT10077-2	92.50	2nd:	2.500	X	4.200	T1	CAST IRON	PHOSPHATE	11-241-2	92.50	DIST1:	1.50	Head:	NONE	32.00
	SWT10077-3	92.75		0.098		0.165							11-241-3	92.75	DIST2:	6.50
	SWT10077-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-241-4	93.00	DIST3:				
	AM Ring Available			0.157		0.128										
	REFERENCE #		TOP		2ND		OIL			REFERENCE #						
	13011-35020									13101-35020						
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 22R,22R-E,22R-EC / 1986-1995																
4 RUNNER / 86-95 PICKUP / 86-95	SWT10103-0	92.00	Top:	1.500	X	3.300	BF	STEEL	CHROME	11-239-0	92.00	TL:	63.40	PL:	70.00	CHK.
	SWT10103-1	92.25		0.059		0.130							11-239-1	92.25	CH:	34.40
	SWT10103-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-239-2	92.50	DIST1:	-1.60	Head:	NONE	26.00
	SWT10103-3	92.75		0.059		0.157							11-239-3	92.75	DIST2:	
	SWT10103-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-239-4	93.00	DIST3:				
	AM Ring Available			0.157		0.128										
	REFERENCE #		TOP		2ND		OIL			REFERENCE #						
	13011-35041									13101-35032-01						
	13011-35052									13101-35032-02						
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 22R-TEC / 1985-1988																
4 RUNNER / 86-87 PICKUP / 85-88	SWT10103-0	92.00	Top:	1.500	X	3.300	BF	STEEL	CHROME	11-677-0	92.00	TL:	63.80	PL:	73.00	CHK.
	SWT10103-1	92.25		0.059		0.130							11-677-1	92.25	CH:	34.80
	SWT10103-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-677-2	92.50	DIST1:	-5.30	Head:	NONE	10.00
	SWT10103-3	92.75		0.059		0.157							11-677-3	92.75	DIST2:	-5.60
	SWT10103-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-677-4	93.00	DIST3:				
	AM Ring Available			0.157		0.128										
	REFERENCE #		TOP		2ND		OIL			REFERENCE #						
	13011-35041									13101-35050-02						
	13011-35052															



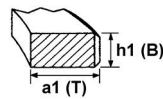
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2RZ-FE / 1995-2004																
TACOMA / 95-04	SWT10139-0	95.00	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-745-0	95.00	TL:	59.00	PL:	70.00	CHK.
	SWT10139-1	95.25		0.059		0.138				11-745-1	95.25	CH:	35.60	PD:	24.00	DIA
	SWT10139-2	95.50	2nd:	1.500	X	3.450	TUC	STEEL	CHROME	11-745-2	95.50	DIST1:	-0.90	Head:	AH	7.00
	SWT10139-3	95.75		0.059		0.136				11-745-3	95.75	DIST2:		Skirt:	MS	
	SWT10139-4	96.00		Oil:		4.000				3.050	NIFF-S	STEEL	NITRIDED	11-745-4	96.00	DIST3:
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	13011-75040								13101-75071							
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2TZ-FE / 1991-1995																
PREVIA / 91-95	SWT10127-0	95.00	Top:	1.750	X	3.650	BF	STEEL	CHROME	11-636-0	95.00	TL:	67.50	PL:	70.00	CHK.
	SWT10127-1	95.25		0.069		0.144				11-636-1	95.25	CH:	35.50	PD:	24.00	DIA
	SWT10127-2	95.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-636-2	95.50	DIST1:	-2.20	Head:	NONE	15.00
	SWT10127-3	95.75		0.059		0.150				11-636-3	95.75	DIST2:	-2.50	Skirt:	NONE	
	SWT10127-4	96.00		Oil:		4.000				3.250	NIFF-S	STEEL	NITRIDED	11-636-4	96.00	DIST3:
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	13011-76050								13101-76041							
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2TZ-FZE / 1995-1997																
PREVIA / 95-97	SWT10127-0	95.00	Top:	1.750	X	3.650	BF	STEEL	CHROME	11-725-0	95.00	TL:	67.50	PL:	70.00	CHK.
	SWT10127-1	95.25		0.069		0.144				11-725-1	95.25	CH:	35.50	PD:	24.00	DIA
	SWT10127-2	95.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-725-2	95.50	DIST1:	-2.00	Head:	AH	15.00
	SWT10127-3	95.75		0.059		0.150				11-725-3	95.75	DIST2:		Skirt:	NONE	
	SWT10127-4	96.00		Oil:		4.000				3.250	NIFF-S	STEEL	NITRIDED	11-725-4	96.00	DIST3:
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	13011-76050								13101-76050							
2.4L (149CID,2446CC),4CYL, 92.000MM (3.622"), 2L / 1984-1985 DIESEL																
PICKUP / 84-85	SDT10089-0	92.00	Top:	2.000	X	3.350	BF-K2	STEEL	NITRIDED	11-632-0	92.00	TL:	86.20	PL:	74.00	CHK.
	SDT10089-1	92.25		0.079		0.132				11-632-1	92.25	CH:	49.20	PD:	27.00	DIA
	SDT10089-2	92.50	2nd:	2.000	X	3.300	T1	STEEL	NITRIDED	11-632-2	92.50	DIST1:	-1.30	Head:	NONE	10.00
	SDT10089-3	92.75		0.079		0.130				11-632-3	92.75	DIST2:		Skirt:	NONE	
	SDT10089-4	93.00		Oil:		4.000				4.350	E-BC16	STEEL	NITRIDED	11-632-4	93.00	DIST3:
	REFERENCE #		TOP	2ND	OIL				REFERENCE #							
	13011-54062								13101-54060-02							



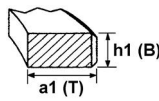
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (149CID,2446CC),4CYL, 92.000MM (3.622"), 2L-T / 1985-1985 DIESEL, TURBO																
PICKUP / 85-85	SDT10089-0	92.00	Top:	2.000	X	3.350	BF-K2	STEEL	NITRIDED	11-631-0	92.00	TL:	86.20	PL:	74.00	CHK. DIA 15.00
	SDT10089-1	92.25		0.079	0.132	11-631-1				92.25	CH:	49.20	PD:	29.00		
	SDT10089-2	92.50	2nd:	2.000	X	3.300	T1	STEEL	NITRIDED	11-631-2	92.50	DIST1:	-2.40	Head:	NONE	
	SDT10089-3	92.75		0.079	0.130	11-631-3				92.75	DIST2:		Skirt:	NONE		
	SDT10089-4	93.00		Oil:	4.000	X				4.350	E-BC16	STEEL	NITRIDED	11-631-4	93.00	
REFERENCE # 13011-54062	TOP	2ND	OIL	REFERENCE # 13101-54050-02												
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE / 2009-2017																
CAMRY / 10-17 RAV4 / 09-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	11-897-0	90.00	TL:	53.30	PL:	56.00	CHK. DIA 10.00
	SDT10226-1	90.25		0.039	0.114	11-897-1				90.25	CH:	34.80	PD:	22.00		
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE	11-897-2	90.50	DIST1:	3.70	Head:	AH	
	SDT10226-3	90.75		0.039	0.106	11-897-3				90.75	DIST2:	-4.40	Skirt:	MS		
	SDT10226-4	91.00		Oil:	2.000	X				2.750	E-BC16	STEEL	NITRIDED	11-897-4	91.00	
REFERENCE # 13011-36020	TOP	2ND	OIL	REFERENCE # 13211-0V011-A0 13211-0V012-B0 13211-36032-C0												
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE,2AR-FXE / 2010-2017																
AVALON HYBRID / 13-15 CAMRY / 10-17 CAMRY HYBRID / 12-17 RAV4 HYBRID / 16-17	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	<p>Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.</p>						
SDT10226-1	90.25	0.039		0.114												
SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE								
SDT10226-3	90.75		0.039	0.106												
SDT10226-4	91.00		Oil:	2.000	X				2.750							
REFERENCE # 13011-36020	TOP	2ND	OIL													
2.5L (153CID,2507CC),DOHC,6CYL, 87.500MM (3.445"), 2VZ-FE / 1988-1991																
CAMRY / 88-91	SWT10148-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-651-0	87.50	TL:	65.20	PL:	63.00	CHK. DIA 10.00
	SWT10148-1	87.75		0.059	0.130	11-651-1				87.75	CH:	32.30	PD:	21.00		
	SWT10148-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-651-2	88.00	DIST1:	-2.20	Head:	AH	
	SWT10148-3	88.25		0.059	0.150	11-651-3				88.25	DIST2:		Skirt:	NONE		
	SWT10148-4	88.50		Oil:	3.000	X				2.900	NIFF-S	STEEL	CHROME	11-651-4	88.50	
REFERENCE # 13011-62040	TOP	2ND	OIL	REFERENCE # 13101-62020-01												



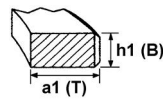
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.6L (156CID,2563CC),SOHC,6CYL, 80.000MM (3.150"), 4M / 1973-1973																
CORONA / 73-73	SXT10041-0	80.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-166-0	80.00					
	SXT10041-1	80.25		0.079						0.150	DISC-11-166-1	80.25				
	SXT10041-2	80.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-166-2	80.50					
	SXT10041-3	80.75		0.079						0.150	DISC-11-166-3	80.75				
	SXT10041-4	81.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	DISC-11-166-4	81.00					
		0.157	0.152													
	REFERENCE # 13011-45021	TOP	2ND	OIL					REFERENCE # 13101-45011							
2.6L (156CID,2563CC),SOHC,6CYL, 80.000MM (3.150"), 4M, 4M-E / 1978-1980																
CRESSIDA / 78-79 SUPRA / 79-80	SXT10041-0	80.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-167-0	80.00					
	SXT10041-1	80.25		0.079						0.150	DISC-11-167-1	80.25				
	SXT10041-2	80.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-167-2	80.50					
	SXT10041-3	80.75		0.079						0.150	DISC-11-167-3	80.75				
	SXT10041-4	81.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	DISC-11-167-4	81.00					
		0.157	0.152													
	REFERENCE # 13011-45021	TOP	2ND	OIL					REFERENCE # 13101-45021							
2.7L (163CID,2672CC),DOHC,4CYL, 90.000MM (3.543"), 1AR-FE / 2009-2015																
HIGHLANDER / 09-15 SIENNA / 11-12 VENZA / 09-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDT10226-1	90.25		0.039												0.114
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE							
	SDT10226-3	90.75		0.039												0.106
	SDT10226-4	91.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED							
		0.079	0.108													
	REFERENCE # 13011-36020	TOP	2ND	OIL												
2.7L (164CID,2693CC),DOHC,4CYL, 95.000MM (3.740"), 2TR-FE / 2005-2015																
4 RUNNER / 10-10 TACOMA / 05-15	SDT10193-0	95.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-880-0	95.00	TL:	59.30	PL:	62.00	CHK. DIA 10.00
	SDT10193-1	95.25		0.047						0.114	11-880-1	95.25	CH:	39.30	PD:	
	SDT10193-2	95.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-880-2	95.50	DIST1:	-8.60	Head:	AH	
	SDT10193-3	95.75		0.047						0.134	11-880-3	95.75	DIST2:	-4.50	Skirt:	
	SDT10193-4	96.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-880-4	96.00	DIST3:	-2.22			
		0.079	0.108													
	REFERENCE # 13011-75110	TOP	2ND	OIL					REFERENCE # 13101-75130							



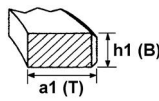
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
2.7L (164CID,2693CC),DOHC,4CYL, 95.000MM (3.740"), 3RZ-FE / 1994-2004											
4 RUNNER / 96-00 T100 / 94-98 TACOMA / 95-04	SWT10139-0	95.00	Top: 1.500 0.059	X	3.500 0.138	BF	STEEL	NITRIDED	11-724-0	95.00	TL: 61.00 CH: 37.20 DIST1: -2.60 DIST2: DIST3: PL: 70.00 PD: 24.00 Head: AH Skirt: MS 70.00 24.00 AH MS CHK. DIA 10.00
	SWT10139-1	95.25							11-724-1	95.25	
	SWT10139-2	95.50	2nd: 1.500 0.059	X	3.450 0.136	TUC	STEEL	CHROME	11-724-2	95.50	
	SWT10139-3	95.75							11-724-3	95.75	
	SWT10139-4	96.00	Oil: 4.000 0.157	X	3.050 0.120	NIFF-S	STEEL	NITRIDED	11-724-4	96.00	
REFERENCE # 13011-75040 13011-75041	TOP	2ND	OIL	REFERENCE # 13101-75040 13101-75041							
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-E / 1981-1982											
CRESSIDA / 81-82	SWT10072-0	83.00	Top: 2.000 0.079	X	3.050 0.120	BF	STEEL	CHROME	DISC-11-168-0	83.00	
	SWT10072-1	83.25							DISC-11-168-1	83.25	
	SWT10072-2	83.50	2nd: 2.000 0.079	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	DISC-11-168-2	83.50	
	SWT10072-3	83.75							DISC-11-168-3	83.75	
	SWT10072-4	84.00	Oil: 4.000 0.157	X	3.250 0.128	NIFF-S	STEEL	CHROME	DISC-11-168-4	84.00	
REFERENCE # 13011-43010 13011-43031	TOP	2ND	OIL	REFERENCE # 13101-43011-02							
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-GE / 1982-1983											
CRESSIDA / 83-83 SUPRA / 82-83	SWT10079-0	83.00	Top: 1.500 0.059	X	3.100 0.122	BF	STEEL	NITRIDED	DISC-11-169-0	83.00	
	SWT10079-1	83.25							DISC-11-169-1	83.25	
	SWT10079-2	83.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	DISC-11-169-2	83.50	
	SWT10079-3	83.75							DISC-11-169-3	83.75	
	SWT10079-4	84.00	Oil: 4.000 0.157	X	2.900 0.114	NIFF-S	STEEL	CHROME	DISC-11-169-4	84.00	
REFERENCE # 13011-42060	TOP	2ND	OIL	REFERENCE # 13101-43041-02							
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-GE / 1984-1988											
CRESSIDA / 84-88	SWT10079-0	83.00	Top: 1.500 0.059	X	3.100 0.122	BF	STEEL	NITRIDED	11-641-0	83.00	TL: 74.10 CH: 32.90 DIST1: 3.30 DIST2: DIST3: PL: 66.00 PD: 22.00 Head: NONE Skirt: NONE 66.00 22.00 NONE NONE CHK. DIA 15.00
	SWT10079-1	83.25							11-641-1	83.25	
	SWT10079-2	83.50	2nd: 1.500 0.059	X	3.800 0.150	T1	CAST IRON	PHOSPHATE	11-641-2	83.50	
	SWT10079-3	83.75							11-641-3	83.75	
	SWT10079-4	84.00	Oil: 4.000 0.157	X	2.900 0.114	NIFF-S	STEEL	CHROME	11-641-4	84.00	
REFERENCE # 13011-42060	TOP	2ND	OIL	REFERENCE # 13101-43051-02							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (180CID,2954CC),DOHC,6CYL, 83.000MM (3.268"), 7M-GE / 1986-1992																
CRESSIDA / 89-92 SUPRA / 86-92	SWT10079-0	83.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-642-0	83.00	TL:	71.00	PL:	66.00	CHK.
	SWT10079-1	83.25		0.059		0.122				11-642-1	83.25	CH:	33.00	PD:	22.00	DIA
	SWT10079-2	83.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-642-2	83.50	DIST1:	-3.30	Head:	NONE	10.00
	SWT10079-3	83.75		0.059		0.150				11-642-3	83.75	DIST2:		Skirt:	NONE	
	SWT10079-4	84.00		Oil:		4.000				2.900	11-642-4	84.00	DIST3:			
		0.157	0.114	NIFF-S	STEEL	CHROME										
REFERENCE # 13011-42060	TOP	2ND	OIL	REFERENCE # 13101-42060 13101-42070-01												
3.0L (180CID,2954CC),DOHC,6CYL, 83.000MM (3.268"), 7M-GTE / 1987-1992 TURBO																
SUPRA / 87-92	SWT10115-0	83.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-639-0	83.00	TL:	71.00	PL:	66.00	CHK.
	SWT10115-1	83.25		0.059		0.122				11-639-1	83.25	CH:	33.00	PD:	22.00	DIA
	SWT10115-2	83.50	2nd:	1.500	X	3.700	TUC	DUCTILE IRON	CHROME	11-639-2	83.50	DIST1:	-5.80	Head:	NONE	10.00
	SWT10115-3	83.75		0.059		0.146				11-639-3	83.75	DIST2:		Skirt:	NONE	
	SWT10115-4	84.00		Oil:		4.000				2.850	11-639-4	84.00	DIST3:			
		0.157	0.112	NIFF-S	STEEL	NITRIDED										
REFERENCE # 13011-42011	TOP	2ND	OIL	REFERENCE # 13101-42050-02												
3.0L (181CID,2958CC),DOHC,6CYL, 87.500MM (3.445"), 3VZ-E / 1992-1993																
CAMRY / 92-93	SWT10144-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-661-0	87.50	TL:	62.20	PL:	62.00	CHK.
	SWT10144-1	87.75		0.059		0.130				11-661-1	87.75	CH:	34.00	PD:	22.00	DIA
	SWT10144-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-661-2	88.00	DIST1:	-3.40	Head:	NONE	10.00
	SWT10144-3	88.25		0.059		0.150				11-661-3	88.25	DIST2:		Skirt:	NONE	
	SWT10144-4	88.50		Oil:		4.000				2.850	11-661-4	88.50	DIST3:			
		AM Ring Available	0.157	0.112	NIFF-S	STEEL	NITRIDED									
REFERENCE # 13011-62060	TOP	2ND	OIL	REFERENCE # 13101-62040-01												
3.0L (181CID,2958CC),SOHC,6CYL, 87.500MM (3.445"), 3VZ-E / 1988-1995																
4 RUNNER / 88-95 PICKUP / 88-95 T100 / 93-94	SWT10144-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-653-0	87.50	TL:	62.60	PL:	63.00	CHK.
	SWT10144-1	87.75		0.059		0.130				11-653-1	87.75	CH:	33.70	PD:	21.00	DIA
	SWT10144-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-653-2	88.00	DIST1:	-3.80	Head:	NONE	2.00
	SWT10144-3	88.25		0.059		0.150				11-653-3	88.25	DIST2:		Skirt:	NONE	
	SWT10144-4	88.50		Oil:		4.000				2.850	11-653-4	88.50	DIST3:			
		AM Ring Available	0.157	0.112	NIFF-S	STEEL	NITRIDED									
REFERENCE # 13011-62060	TOP	2ND	OIL	REFERENCE # 13101-65040-01 13301-65040-01												



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.0L (181CID,2959CC),DOHC,6CYL, 86.00MM (3.386"), 2JZ-GTE / 1993-1998 TURBO													
SUPRA / 93-98	SWT10134-0	86.00	Top: 1.500 0.059	X	3.300 0.130	BF	STEEL	NITRIDED	11-778-0	86.00	TL: 65.00	PL: 66.00	CHK. DIA 12.30
	SWT10134-1	86.25							11-778-1	86.25	CH: 34.00	PD: 22.00	
	SWT10134-2	86.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	11-778-2	86.50	DIST1: -3.80	Head: AH	
	SWT10134-3	86.75							11-778-3	86.75	DIST2:	Skirt: MS	
	SWT10134-4	87.00	Oil: 4.000 0.157	X	2.900 0.114	NIFF-S	STEEL	NITRIDED	11-778-4	87.00	DIST3:		
REFERENCE # 13011-46041 13011-46051	TOP	2ND	OIL	REFERENCE # 13101-46091									
3.0L (183CID,2995CC),DOHC,6CYL, 87.500MM (3.445"), 1MZ-FE / 1994-2006													
AVALON / 95-04 CAMRY / 94-06 CAMRY SOLARA / 98-03 HIGHLANDER / 01-03 SIENNA / 98-03	SWT10177-0	87.50	Top: 1.200 0.047	X	2.900 0.114	BF	STEEL	NITRIDED	11-720-0	87.50	TL: 51.00	PL: 54.00	CHK. DIA 10.00
	SWT10177-1	87.75							11-720-1	87.75	CH: 31.20	PD: 22.00	
	SWT10177-2	88.00	2nd: 1.200 0.047	X	3.300 0.130	T1	CAST IRON	PHOSPHATE	11-720-2	88.00	DIST1:	Head: AH	
	SWT10177-3	88.25							11-720-3	88.25	DIST2:	Skirt: MS	
	SWT10177-4	88.50	Oil: 3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	11-720-4	88.50	DIST3:		
REFERENCE # 13011-0A020 13011-20022	TOP	2ND	OIL	REFERENCE # 13101-0A020 13101-20030 13301-0A020 13301-20020									
3.0L (183CID,2997CC),DOHC,6CYL, 86.00MM (3.386"), 2JZ-GE / 1993-1998													
SUPRA / 93-98	SWT10134-0	86.00	Top: 1.500 0.059	X	3.300 0.130	BF	STEEL	NITRIDED	DISC-11-770-0	86.00			
	SWT10134-1	86.25							DISC-11-770-1	86.25			
	SWT10134-2	86.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	DISC-11-770-2	86.50			
	SWT10134-3	86.75							DISC-11-770-3	86.75			
	SWT10134-4	87.00	Oil: 4.000 0.157	X	2.900 0.114	NIFF-S	STEEL	NITRIDED	DISC-11-770-4	87.00			
REFERENCE # 13011-46041 13011-46051	TOP	2ND	OIL	REFERENCE # 13101-46031									
3.0L (183CID,2997CC),DOHC,6CYL, 86.00MM (3.386"), 2JZ-GE / 1998-1998													
SUPRA / 98-98	SWT10134-0	86.00	Top: 1.500 0.059	X	3.300 0.130	BF	STEEL	NITRIDED	11-851-0	86.00	TL: 59.00	PL: 66.00	CHK. DIA 10.00
	SWT10134-1	86.25							11-851-1	86.25	CH: 34.00	PD: 22.00	
	SWT10134-2	86.50	2nd: 1.500 0.059	X	3.800 0.150	TUC	CAST IRON	CHROME	11-851-2	86.50	DIST1: -2.30	Head: NONE	
	SWT10134-3	86.75							11-851-3	86.75	DIST2:	Skirt: MS	
	SWT10134-4	87.00	Oil: 4.000 0.157	X	2.900 0.114	NIFF-S	STEEL	NITRIDED	11-851-4	87.00	DIST3:		
REFERENCE # 13011-46041 13011-46051	TOP	2ND	OIL	REFERENCE # 13101-46081									



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO			
3.3L (202CID,3311CC),DOHC,6CYL, 92.000MM (3.622"), 3MZ-FE,3MZ-FXE / 2004-2010													
CAMRY / 04-06	SWT10228-0	92.00	Top: 1.200 0.047	X	2.850 0.112	BF	STEEL	CHROME	11-867-0	92.00	TL: 54.50	PL: 56.00	CHK. DIA 9.40
CAMRY SOLARA / 04-08	SWT10228-1	92.25							11-867-1	92.25	CH: 31.20	PD: 22.00	
HIGHLANDER / 04-08	SWT10228-2	92.50	2nd: 1.200 0.047	X	3.800 0.150	TUC	CAST IRON	PHOSPHATE	11-867-2	92.50	DIST1: -0.60	Head: AH	MS
HIGHLANDER H / 06-10	SWT10228-3	92.75							11-867-3	92.75	DIST2:	Skirt: MS	
SIENNA / 04-06	SWT10228-4	93.00	Oil: 3.000 0.118	X	2.550 0.100	NIFF-S	STEEL	NITRIDED	11-867-4	93.00	DIST3:		
	REFERENCE # 13011-0A030 13011-0A031 13011-0A040	TOP 2ND OIL				REFERENCE # 13101-0A040							
3.4L (206CID,3378CC),DOHC,6CYL, 93.500MM (3.681"), 5VZ-FE / 1995-2004													
4 RUNNER / 96-02	SWT10178-0	93.50	Top: 1.500 0.059	X	3.300 0.130	BF	STEEL	NITRIDED	11-722-0	93.50	TL: 63.00	PL: 62.00	CHK. DIA 10.00
T100 / 96-98	SWT10178-1	93.75							11-722-1	93.75	CH: 34.00	PD: 22.00	
TACOMA / 95-04	SWT10178-2	94.00	2nd: 1.500 0.059	X	4.000 0.157	T1	CAST IRON	PHOSPHATE	11-722-2	94.00	DIST1: -4.90	Head: AH	NONE
TUNDRA / 00-04	SWT10178-3	94.25							11-722-3	94.25	DIST2:	Skirt: NONE	
	SWT10178-4	94.50	Oil: 4.000 0.157	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	11-722-4	94.50	DIST3:		
	REFERENCE # 13011-62100	TOP 2ND OIL				REFERENCE # 13101-62060-01							
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FE / 2005-2015													
AVALON / 05-15	SDT10194-0	94.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-870-0	94.00	TL: 52.50	PL: 56.00	CHK. DIA 5.50
CAMRY / 07-15	SDT10194-1	94.25							11-870-1	94.25	CH: 31.30	PD: 22.00	
HIGHLANDER / 09-15	SDT10194-2	94.50	2nd: 1.200 0.047	X	2.900 0.114	TUC	STEEL	PHOSPHATE	11-870-2	94.50	DIST1: 2.10	Head: AH	MS
RAV4 / 07-12	SDT10194-3	94.75							11-870-3	94.75	DIST2:	Skirt: MS	
SIENNA / 07-15	SDT10194-4	95.00	Oil: 2.000 0.079	X	2.750 0.108	E-BC16	STEEL	NITRIDED	11-870-4	95.00	DIST3:		
VENZA / 09-15													
	REFERENCE # 13011-0P040 13011-31130 13011-31140 13011-31142 13011-31160	TOP 2ND OIL				REFERENCE # 13101-0P053 13101-31090 13101-31092-A0 13101-31092-B0							
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FXE / 2011-2015													
HIGHLANDER H / 11-15	SDT10194-0	94.00	Top: 1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDT10194-1	94.25											
	SDT10194-2	94.50	Oil: 2.000 0.079	X	2.750 0.108	E-BC16	STEEL	NITRIDED					
	REFERENCE # 13011-0P040 13011-31130 13011-31140 13011-31142 13011-31160	TOP 2ND OIL											



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
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3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1971-1971

LAND CRUISER / 71-71	SWT10026-0	90.00	Top:	3.000	X	3.700	T1	CAST IRON	CHROME	11-171-0	90.00	TL:	95.50	PL:	80.00	CHK.
	SWT10026-1	90.25		0.118						0.146						
	SWT10026-2	90.50	2nd:	3.000	X	3.700	T1	CAST IRON	PHOSPHATE	11-171-2	90.50	DIST1:	Head:	NONE	0.00	
	SWT10026-3	90.75		0.118						0.146						11-171-3
	SWT10026-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	11-171-4	91.00	DIST3:				
				0.157						0.154						
		Oil2:	4.000	X	3.700	C1	CAST IRON	PHOSPHATE								
		Oil2:	4.000	X	3.700	C1	CAST IRON	PHOSPHATE								
REFERENCE #	13011-60011	TOP	2ND	OIL	OIL2	REFERENCE #	13101-60011									

3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1972-1972

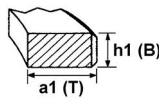
LAND CRUISER / 72-72	SWT10044-0	90.00	Top:	2.000	X	4.000	T1	CAST IRON	CHROME	DISC-11-172-0	90.00					
	SWT10044-1	90.25		0.079						0.157						
	SWT10044-2	90.50	2nd:	2.500	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-172-2	90.50					
	SWT10044-3	90.75		0.098						0.157						
	SWT10044-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-172-4	91.00					
				0.157						0.154						
		Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE								
		Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE								
REFERENCE #	13011-60040	TOP	2ND	OIL	OIL2	REFERENCE #	13101-60020									

3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1973-1974

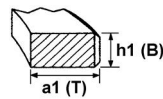
LAND CRUISER / 73-74	SWT10044-0	90.00	Top:	2.000	X	4.000	T1	CAST IRON	CHROME	DISC-11-173-0	90.00					
	SWT10044-1	90.25		0.079						0.157						
	SWT10044-2	90.50	2nd:	2.500	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-173-2	90.50					
	SWT10044-3	90.75		0.098						0.157						
	SWT10044-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-173-4	91.00					
				0.157						0.154						
		Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE								
		Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE								
REFERENCE #	13011-60040	TOP	2ND	OIL	OIL2	REFERENCE #	13101-60030									

4.0L (241CID,3955CC),DOHC,6CYL, 94.000MM (3.701"), 1GR-FE / 2003-2015

4 RUNNER / 03-15 FJ CRUISER / 07-14 TACOMA / 05-15 TACOMA X-RUNNER / 05-13 TUNDRA / 05-14	SWT10195-0	94.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	11-871-0	94.00	TL:	56.50	PL:	62.00	CHK.
	SWT10195-1	94.25		0.047						0.128						
	SWT10195-2	94.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-871-2	94.50	DIST1:	2.80	Head:	AH	8.00
	SWT10195-3	94.75		0.047						0.134						
	SWT10195-4	95.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-871-4	95.00	DIST3:				
				0.079						0.110						
		Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED								
		Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED								
REFERENCE #	13011-0P020 13011-31100 13011-31210	TOP	2ND	OIL		REFERENCE #	13101-0P020 13101-31030 13101-31120-A0									

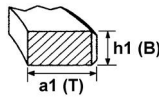


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
4.0L (241CID,3956CC),6CYL, 94.000MM (3.701"), 3F-E / 1988-1992																
LAND CRUISER / 88-92	SWT10151-0	94.00	Top:	2.000	X	3.300	BF	STEEL	NITRIDED	11-673-0	94.00	TL:	79.70	PL:	75.00	CHK. DIA
	SWT10151-1	94.25		0.079		0.130				11-673-1	94.25	CH:	37.40	PD:	22.00	
	SWT10151-2	94.50	2nd:	2.000	X	4.000	T1	CAST IRON	CHROME	11-673-2	94.50	DIST1:	0.30	Head:	NONE	27.50
	SWT10151-3	94.75		0.079		0.157				11-673-3	94.75	DIST2:		Skirt:	NONE	
	SWT10151-4	95.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-673-4	95.00	DIST3:				
			0.157	0.128												
REFERENCE # 13011-76013-71			TOP	2ND		OIL			REFERENCE # 13101-61032-01							
4.2L (258CID,4230CC),6CYL, 94.000MM (3.701"), 2F / 1981-1987																
LAND CRUISER / 81-87	SWT10049-0	94.00	Top:	2.000	X	4.200	BF	CAST IRON	CHROME	11-175-0	94.00	TL:	95.80	PL:	72.00	CHK. DIA
	SWT10049-1	94.25		0.079		0.165				11-175-1	94.25	CH:	47.58	PD:	25.15	
	SWT10049-2	94.50	2nd:	2.500	X	4.200	T1	CAST IRON	CHROME	11-175-2	94.50	DIST1:	0.30	Head:	NONE	15.00
	SWT10049-3	94.75		0.098		0.165				11-175-3	94.75	DIST2:		Skirt:	NONE	
	SWT10049-4	95.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	11-175-4	95.00	DIST3:				
			0.157	0.152												
REFERENCE # 13011-76012-71			TOP	2ND		OIL			REFERENCE # 13101-76008-71							
4.2L (258CID,4230CC),OHV,6CYL, 94.000MM (3.701"), 2F / 1975-1980																
LAND CRUISER / 75-80	SWT10049-0	94.00	Top:	2.000	X	4.200	BF	CAST IRON	CHROME	11-174-0	94.00	TL:	95.50	PL:	72.00	CHK. DIA
	SWT10049-1	94.25		0.079		0.165				11-174-1	94.25	CH:	47.22	PD:	25.15	
	SWT10049-2	94.50	2nd:	2.500	X	4.200	T1	CAST IRON	CHROME	11-174-2	94.50	DIST1:	6.50	Head:	NONE	15.00
	SWT10049-3	94.75		0.098		0.165				11-174-3	94.75	DIST2:		Skirt:	NONE	
	SWT10049-4	95.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	11-174-4	95.00	DIST3:				
			0.157	0.152												
REFERENCE # 13011-76012-71			TOP	2ND		OIL			REFERENCE # 13101-61020							
4.5L (273CID,4477CC),DOHC,6CYL, 100.000MM (3.937"), 1FZ-FE,1ZF-TE / 1993-1997																
LAND CRUISER / 93-97	SWT10184-0	100.00	Top:	1.750	X	3.700	BF-IB	STEEL	NITRIDED	DISC-11-700-0	100.00					
	SWT10184-1	100.25		0.069		0.146				DISC-11-700-1	100.25					
	SWT10184-2	100.50	2nd:	2.000	X	3.800	TUC	CAST IRON	CHROME	DISC-11-700-2	100.50					
	SWT10184-3	100.75		0.079		0.150				DISC-11-700-3	100.75					
	SWT10184-4	101.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	NITRIDED	DISC-11-700-4	101.00					
			0.157	0.130												
REFERENCE # 13011-66021			TOP	2ND		OIL			REFERENCE # 13101-66040-01							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
4.6L (281CID,4608CC),DOHC,8CYL, 94.000MM (3.701"), 1UR-FE / 2010-2015														
SEQUOIA / 10-12 TUNDRA / 10-15	SWT10236-0 SWT10236-1 SWT10236-2 SWT10236-3 SWT10236-4	94.00 94.25 94.50 94.75 95.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.000 0.079	X X X	2.900 0.114 3.400 0.134 2.800 0.110	BF-IB TUC NIFF-H	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # 13011-0S011	TOP 	2ND 	OIL 											
4.7L (285CID,4663CC),DOHC,8CYL, 94.000MM (3.701"), 2UZ-FE / 1998-2005														
4 RUNNER / 03-05 LAND CRUISER / 98-03 SEQUOIA / 01-04 TUNDRA / 00-05	SWT10203-0 SWT10203-1 SWT10203-2 SWT10203-3 SWT10203-4	94.00 94.25 94.50 94.75 95.00	Top: 1.500 0.059 2nd: 1.500 0.059 Oil: 4.000 0.157	X X X	3.300 0.130 4.000 0.157 2.550 0.100	BF T1 NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-801-0 11-801-1 11-801-2 11-801-3 11-801-4	94.00 94.25 94.50 94.75 95.00	TL: 60.30 CH: 33.90 DIST1: -6.80 DIST2: DIST3:	PL: 62.00 PD: 22.00 Head: AH Skirt: MS	62.00 22.00 AH MS	CHK. DIA 10.50
REFERENCE # 13011-50140	TOP 	2ND 	OIL 	REFERENCE # 13101-50050-01 13301-50040-01										
4.7L (285CID,4663CC),DOHC,8CYL, 94.000MM (3.701"), 2UZ-FE / 2004-2009														
4 RUNNER / 06-09 LAND CRUISER / 04-07 SEQUOIA / 05-08 TUNDRA / 06-09	SWT10240-0 SWT10240-1 SWT10240-2 SWT10240-3 SWT10240-4	94.00 94.25 94.50 94.75 95.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 3.000 0.118	X X X	2.900 0.114 3.900 0.154 2.550 0.100	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-912-0 11-912-1 11-912-2 11-912-3 11-912-4	94.00 94.25 94.50 94.75 95.00	TL: 54.70 CH: 33.40 DIST1: 2.30 DIST2: -6.10 DIST3:	PL: 62.00 PD: 22.00 Head: AH Skirt: MS	62.00 22.00 AH MS	CHK. DIA 15.00
REFERENCE # 13011-50162	TOP 	2ND 	OIL 	REFERENCE # 13101-50082-01 13103-50081-01										
5.7L (346CID,5663CC),DOHC,8CYL, 94.000MM (3.701"), 3UR-FE / 2007-2017														
LAND CRUISER / 08-11 LAND CRUISER / 13-17 SEQUOIA / 08-15 TUNDRA / 07-15	SWT10236-0 SWT10236-1 SWT10236-2 SWT10236-3 SWT10236-4	94.00 94.25 94.50 94.75 95.00	Top: 1.200 0.047 2nd: 1.200 0.047 Oil: 2.000 0.079	X X X	2.900 0.114 3.400 0.134 2.800 0.110	BF-IB TUC NIFF-H	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
REFERENCE # 13011-0S011	TOP 	2ND 	OIL 											

UD TRUCKS



UD TRUCKS

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.7L (469CID,7684CC),DOHC,6CYL, 112.000MM (4.409"), J08E-UJ / 2009-2010 DIESEL										
1800HD / 09-10	SDH20102-0	112.00	Top: 2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
2000 / 09-10	SDH20102-1	112.25	0.098		0.163					
2300DH / 09-10	SDH20102-2	112.50	2nd: 2.000	X	4.300	T1	STEEL	NITRIDED		
2300LP / 09-10	SDH20102-3	112.75	0.079		0.169					
2600 / 09-10	SDH20102-4	113.00	Oil: 4.000	X	4.350	E-BC16	STEEL	NITRIDED		
2600LP / 09-10			0.157		0.171					
3300 / 09-10	REFERENCE # 13011-4040A		TOP		2ND		OIL			

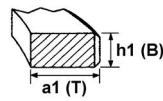
VOLKSWAGEN

VOLKSWAGEN

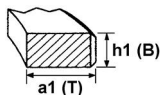
1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), AEB, AWM, ATW, AWP / 1998-2005													
JETTA / 00-04	SWL03456-0	81.00	Top: 1.500	X	3.050	BF	STEEL	CHROME	11-872-0	81.00	TL: 53.70	PL: 50.00	CHK.
NEW BEETLE / 99-05	SWL03456-1	81.25	0.059		0.120				11-872-1	81.25	CH: 32.70	PD: 19.00	DIA
PASSAT / 98-05	SWL03456-2	81.50	2nd: 1.750	X	3.450	TUC	CAST IRON	PHOSPHATE	11-872-2	81.50	DIST1: -1.90	Head: AH	8.00
	SWL03456-3	81.75	0.069		0.136				11-872-3	81.75	DIST2:	Skirt: MS	
	SWL03456-4	82.00	Oil: 2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-872-4	82.00	DIST3:		
	REFERENCE # 058 198 151 B 06B 198 151 B		TOP		2ND		OIL		REFERENCE # 058 107 065 F 06B 107 065 N				

1.8L (109CID,1786CC),DOHC,4CYL, 81.000MM (3.189"), PL / 1986-1989										
JETTA / 88-89	SWL02405-0	81.00	Top: 1.500	X	3.350	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
SCIROCCO / 86-88	SWL02405-1	81.25	0.059		0.132					
	SWL02405-2	81.50	2nd: 1.750	X	3.350	TUC	CAST IRON	PHOSPHATE		
	SWL02405-3	81.75	0.069		0.132					
	SWL02405-4	82.00	Oil: 3.000	X	3.000	NIFF-S	STEEL	CHROME		
	REFERENCE # 026 198 151 A		TOP		2ND		OIL			

1.8L (109CID,1786CC),SOHC,4CYL, 81.000MM (3.189"), 2H,PG,RD / 1985-1993										
CABRIOLET / 90-93	SWL02405-0	81.00	Top: 1.500	X	3.350	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CORRADO / 90-92	SWL02405-1	81.25	0.059		0.132					
GOLF / 88-92	SWL02405-2	81.50	2nd: 1.750	X	3.350	TUC	CAST IRON	PHOSPHATE		
JETTA / 85-88	SWL02405-3	81.75	0.069		0.132					
	SWL02405-4	82.00	Oil: 3.000	X	3.000	NIFF-S	STEEL	CHROME		
	REFERENCE # 026 198 151 A		TOP		2ND		OIL			



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO				
1.9L (116CID,1896CC),SOHC,4CYL, 79.500MM (3.130"), 1Z,AAZ, AHU,AHU, ALH,BEW / 1996-2006 DIESEL														
JETTA / 96-06 NEW BEETLE / 98-06 PASSAT / 96-97	SDL03460-0 SDL03460-1 SDL03460-2 SDL03460-3 SDL03460-4	79.50 79.75 80.00 80.25 80.50	Top: 1.750 0.069 2nd: 2.000 0.079 Oil: 3.000 0.118	X X X	2.000 0.079 3.300 0.130 3.650 0.144	BF T1-RC E-BC16	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # 038 198 151 044 198 151 044 198 151 C	TOP 	2ND 	OIL 										
2.0L (121CID,1984CC),DOHC,4CYL, 82.500MM (3.248"), BPY / 2006-2012 TURBO														
CC / 09-12 EOS / 07-12 GLI / 10-10 GTI / 06-12 JETTA / 06-09 PASSAT / 06-10 TIGUAN / 09-12	SWL03461-0 SWL03461-1 SWL03461-2 SWL03461-3 SWL03461-4	82.50 82.75 83.00 83.25 83.50	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.000 0.079	X X X	3.100 0.122 3.450 0.136 2.800 0.110	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # 053 198 151 C 06A 198 151 C 06D 198 151 B 06D 198 151 G 06F 198 151 A	TOP 	2ND 	OIL 										
2.0L (121CID,1984CC),SOHC,4CYL, 82.500MM (3.248"), 9A,ABA,AGG, ADY,AVH, AZG, BEV / 1990-2006														
CABRIO / 96-02 GOLF / 96-06 JETTA / 96-04 JETTA III / 93-95 JETTA SPORTWAGON / 98-04 PASSAT / 90-96	SWL03461-0 SWL03461-1 SWL03461-2 SWL03461-3 SWL03461-4	82.50 82.75 83.00 83.25 83.50	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.000 0.079	X X X	3.100 0.122 3.450 0.136 2.800 0.110	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	11-9000-0 11-9000-1 11-9000-2 11-9000-3 11-9000-4	82.50 82.75 83.00 83.25 83.50	TL: 50.60 CH: 30.60 DIST1: -5.50 DIST2: DIST3:	PL: 56.00 PD: 21.00 Head: NONE Skirt: MS	56.00 21.00 NONE MS	CHK. DIA 5.40
	REFERENCE # 033 198 151 C 06A 198 151 C 06D 198 151 B 06D 198 151 G 06F 198 151 A	TOP 	2ND 	OIL 	REFERENCE # 037 107 065 M 037 107 065 N 053 107 065 H									
2.0L (121CID,1984CC),SOHC,4CYL, 82.500MM (3.248"), AVH, AZG, BEV / 1998-2005														
NEW BEETLE / 98-05	SWL03461-0 SWL03461-1 SWL03461-2 SWL03461-3 SWL03461-4	82.50 82.75 83.00 83.25 83.50	Top: 1.200 0.047 2nd: 1.500 0.059 Oil: 2.000 0.079	X X X	3.100 0.122 3.450 0.136 2.800 0.110	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.					
	REFERENCE # 053 198 151 C 06A 198 151 C 06D 198 151 B 06D 198 151 G 06F 198 151 A	TOP 	2ND 	OIL 										



VOLKSWAGEN

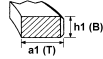
VOLKSWAGEN

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.5L (151CID,2480CC),DOHC,5CYL, 82.500MM (3.248"), BGP, BGQ, BPR, BPS,CBTA, CBUA / 2005-2012															
GOLF / 10-12	SWL03296-0 5	82.50	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
JETTA / 05-12	SWL03296-1 5	82.75	0.047		0.122										
JETTA SPORTWAGON / 09-12	SWL03296-2 5	83.00	1.500	X	3.450	TUC	CAST IRON	CHROME							
NEW BEETLE / 06-10	SWL03296-3 5	83.25	0.059		0.136										
RABBIT / 06-09	SWL03296-4 5	83.50	2.000	X	2.800	NIFF-S	STEEL	NITRIDED							
	REFERENCE #	TOP	2ND	OIL											
	06D 198 151 C														
	06F 198 151 A														
2.8L (169CID,2771CC),DOHC,6CYL, 82.500MM (3.248"), AHA, ATQ / 2000-2005															
PASSAT / 00-05	SWL03296-0 6	82.50	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL03296-1 6	82.75	0.047		0.122										
	SWL03296-2 6	83.00	1.500	X	3.450	TUC	CAST IRON	CHROME							
	SWL03296-3 6	83.25	0.059		0.136										
	SWL03296-4 6	83.50	2.000	X	2.800	NIFF-S	STEEL	NITRIDED							
	REFERENCE #	TOP	2ND	OIL											
	06A 198 151 C														
	06C 198 151 B														
3.8L (231CID,3778CC),OHV,6CYL, 96.000MM (3.780"), EGH / 2009-2010															
ROUTAN / 09-10	SWC10015-0	96.00	1.200	X	3.500	BF	STEEL	NITRIDED	11-864-0	96.00	TL:	54.10	PL:	71.50	CHK.
	SWC10015-1	96.25	0.047		0.138				11-864-1	96.25	CH:	32.30	PD:	22.89	DIA
	SWC10015-2	96.50	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-864-2	96.50	DIST1:	-2.30	Head:	NONE	6.50
	SWC10015-3	96.75	0.059		0.157				11-864-3	96.75	DIST2:		Skirt:	MS	
	SWC10015-4	97.00	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-864-4	97.00	DIST3:				
	REFERENCE #	TOP	2ND	OIL											
	4773023														
	68001386AA					REFERENCE #									
						4666129AA									
						5019338AA									
4.0L (241CID,3952CC),SOHC,6CYL, 96.000MM (3.780"), EGQ & EGS / 2009-2010															
ROUTAN / 09-10	SWC10013-0	96.00	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWC10013-1	96.25	0.047		0.138										
	SWC10013-2	96.50	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWC10013-3	96.75	0.059		0.157										
	SWC10013-4	97.00	3.000	X	3.450	NIFF-S	STEEL	CHROME							
	REFERENCE #	TOP	2ND	OIL											
	4897035AA														
	4897035AB														

ADDITIONS

COMMERCIAL VEHICLE APPLICATIONS

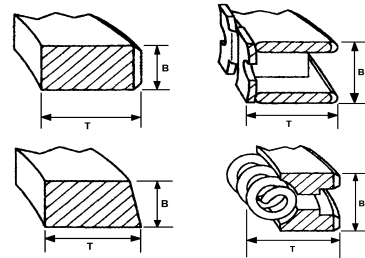
MAKER NAME



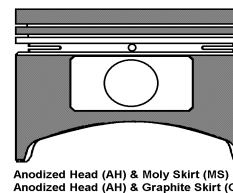
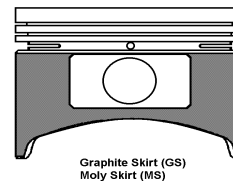
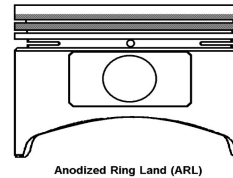
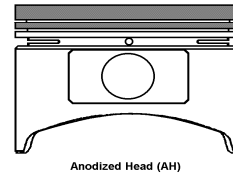
MAKER NAME

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
GENERAL ENGINE INFORMATION																
1	2	3	TOP:	5	x	7	9	10	11	27	28	TL:	30	PL:	35	CHK. DIA
			6	x	8	16	17	18	CH:			31	PD:	36		
			2ND:	12	x	14						DIST1:	32	HEAD:	37	39
			13	x	15							DIST2:	33	SKIRT:	38	
			OIL:	19	x	21	23	24	25			DIST3:	34			
	4	26						29	40			41				


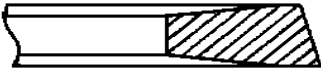

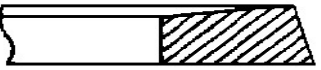




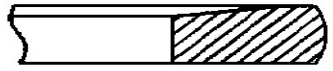

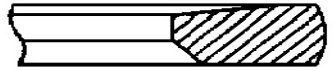







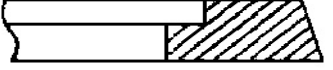


- 1 : ENGINE by FUEL TYPE
- 2 : PISTON RING PART NUMBER
- 3 : DIAMETER (mm)
- 4 : REFERENCE NUMBER for PISTON RINGS
- 5 : TOP RING WIDTH (mm)
- 6 : TOP RING WIDTH (inch)
- 7 : TOP RING RADIAL WALL THICKNESS (mm)
- 8 : TOP RING RADIAL WALL THICKNESS (inch)
- 9 : TOP RING SHAPE CODE
- 10 : TOP RING MATERIAL
- 11 : TOP RING SURFACE TREATMENT
- 12 : 2ND RING WIDTH (mm)
- 13 : 2ND RING WIDTH (inch)
- 14 : 2ND RING RADIAL WALL THICKNESS (mm)
- 15 : 2ND RING RADIAL WALL THICKNESS (inch)
- 16 : 2ND RING SHAPE CODE
- 17 : 2ND RING MATERIAL
- 18 : 2ND RING SURFACE TREATMENT
- 19 : OIL RING WIDTH (mm)
- 20 : OIL RING WIDTH (inch)
- 21 : OIL RING RADIAL WALL THICKNESS (mm)
- 22 : OIL RING RADIAL WALL THICKNESS (inch)
- 23 : OIL RING SHAPE CODE
- 24 : OIL RING MATERIAL
- 25 : OIL RING SURFACE TREATMENT
- 26 : PISTON RING SHAPE by GRAPHIC
- 27 : PISTON PART NUMBER
- 28 : DIAMETER (mm)
- 29 : REFERENCE NUMBER for PISTONS
- 30 : PISTON TOTAL LENGTH (mm)
- 31 : PISTON COMPRESSION HEIGHT (mm)
- 32 : (- or +) DISH or DOME (mm)
- 33 : (- or +) DISH or DOME (mm)
- 34 : (- or +) DISH or DOME (mm)
- 35 : PISTON PIN LENGTH (mm)
- 36 : PISTON PIN DIAMETER (mm)
- 37 : HEAD COATING
- 38 : SKIRT COATING
- 39 : MEASUREMENT POINT for CYLINDER CLEARANCE (mm)
from BOTTOM of SKIRT
- 40 : PISTON SHAPE by GRAPHIC
- 41 : CIRCLIP or NONE






B: WIDTH
T: RADIAL WALL THICKNESS



PISTON RING SHAPE

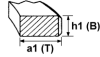
	BF Barrel Face		T1-K1 Taper Face Double Keystone
	BF-IB Barrel Face Inner Bevel		T1-K2 Taper Face Single Keystone
	BF-K1 Barrel Face Double Keystone		TUC Taper Under Cut
	BF-K1-IB Barrel Face Double Keystone Inner Bevel		TUC-RB Taper Under Cut Reverse Bevel
	BF-K2 Barrel Face Single Keystone		TUH Taper Under Hook
	BF-K3 Barrel Face Single Keystone Reverse Bevel		ES-TUC Effective Seal Taper Under Cut
	B1-TUC Bevel Comp Taper Under Cut		NIFF-S Nifflex-S
	T1 Taper Face		NIFF-H Nifflex-H
	T1-IB Taper Face Inner Bevel		BC1, C1 Single Piece Diesels
	T1-IC Taper Face Inner Cut		E-BC3, E-BC16 Two Pieces Diesels
	T1-RB Taper Face Reverse Bevel		

JOINT SHAPE

	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		

COMMERCIAL VEHICLE APPLICATIONS

CHRYSLER

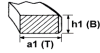


CHRYSLER

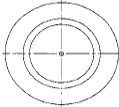
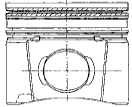

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
3.6L (220.0 CID, 3,604.0 CC), DOHC, 6CYL, 24VALVE, 96.00mm (3.780"), PENTASTAR 3.6													
GASOLINE ENGINE	SWC10025-0	96.00	1.500	x	3.500	BF	STEEL	NITRIDED	11-916-0	96.00	TL: 51.80	PL: 52.00	CHK. DIA 9.00
	SWC10025-1	96.25	1.500	x	3.500	BF	STEEL	NITRIDED	11-916-1	96.25	CH: 28.70	PD: 22.00	
	SWC10025-2	96.50	1.500	x	4.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1: -0.30	HEAD: AH	
	SWC10025-3	96.75	1.500	x	4.700	TUC	CAST IRON	PHOSPHATE	11-916-3	96.75	DIST2:	SKIRT: MS	
	SWC10025-4	97.00	2.500	x	2.850	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:		
REFERENCE #: 68078776AA		TOP	2ND	OIL				REFERENCE #: 5018018AB					
5.2L (318.0 CID, 5,211.0 CC), DOHC, 8CYL, 16VALVE, 99.31mm (3.910"), MAGNUM 5.2													
GASOLINE ENGINE	SWC10019-0	99.31	1.980	x	4.500	BF-IB	DUCTILE IRON	NITRIDED	11-821-0	99.31	TL: 86.40	PL: 76.00	CHK. DIA 14.00
	SWC10019-1	99.56	1.980	x	4.500	BF-IB	DUCTILE IRON	NITRIDED	11-821-1	99.56	CH: 43.80	PD: 22.00	
	SWC10019-2	99.81	1.980	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-821-2	99.81	DIST1:	HEAD: NONE	
	SWC10019-3	100.06	1.980	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-821-3	100.06	DIST2:	SKIRT: NONE	
	SWC10019-4	100.31	4.760	x	4.200	NIFF-S	STEEL	NITRIDED	11-821-4	100.31	DIST3:		
REFERENCE #: 2808550 2808553 3780007		TOP	2ND	OIL				REFERENCE #: 4397779					
5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.917"), HEMI 5.7													
GASOLINE ENGINE	SWC10016-0	99.50	1.500	x	3.500	BF	STEEL	NITRIDED	11-873-0	99.50	TL: 58.70	PL: 71.00	CHK. DIA 6.00
	SWC10016-1	99.75	1.500	x	3.500	BF	STEEL	NITRIDED	11-873-1	99.75	CH: 30.70	PD: 24.00	
	SWC10016-2	100.00	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-873-2	100.00	DIST1: 4.00	HEAD: AH	
	SWC10016-3	100.25	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-873-3	100.25	DIST2:	SKIRT: MS	
	SWC10016-4	100.50	3.000	x	2.850	NIFF-S	STEEL	NITRIDED	11-873-4	100.50	DIST3:		
REFERENCE #: 5086002AA		TOP	2ND	OIL				REFERENCE #: 5086010AB (LEFT) 5086011AB (RIGHT)					
5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.917"), HEMI 5.7													
GASOLINE ENGINE	SWC10016-0	99.50	1.500	x	3.500	BF	STEEL	NITRIDED	11-861-0	99.50	TL: 59.00	PL: 71.00	CHK. DIA 5.00
	SWC10016-1	99.75	1.500	x	3.500	BF	STEEL	NITRIDED	11-861-1	99.75	CH: 31.00	PD: 24.00	
	SWC10016-2	100.00	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-861-2	100.00	DIST1: 4.00	HEAD: AH	
	SWC10016-3	100.25	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-861-3	100.25	DIST2:	SKIRT: MS	
	SWC10016-4	100.50	3.000	x	2.850	NIFF-S	STEEL	NITRIDED	11-861-4	100.50	DIST3:		
REFERENCE #: 5086002AA		TOP	2ND	OIL				REFERENCE #: 53021539AD (LEFT) 53021538AD (RIGHT)					
5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.910"), HEMI 5.7													
GASOLINE ENGINE	SWC10024-0	99.50	1.200	x	3.100	BF	STEEL	NITRIDED	11-913-0	99.50	TL: 53.30	PL: 75.00	CHK. DIA 10.00
	SWC10024-1	99.75	1.200	x	3.100	BF	STEEL	NITRIDED	11-913-1	99.75	CH: 30.00	PD: 24.00	
	SWC10024-2	100.00	1.200	x	4.000	TUC	CAST IRON	PHOSPHATE	11-913-2	100.00	DIST1: 2.30	HEAD: AH	
	SWC10024-3	100.25	1.200	x	4.000	TUC	CAST IRON	PHOSPHATE	11-913-3	100.25	DIST2:	SKIRT: MS	
	SWC10024-4	100.50	2.000	x	2.700	NIFF-H	STEEL	NITRIDED	11-913-4	100.50	DIST3:		
REFERENCE #: 68046210AB		TOP	2ND	OIL				REFERENCE #: 53022257AE (LEFT) 53022257AE (RIGHT)					
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 24VALVE, 102.00mm (4.016"), ISB 5.9													
DIESEL ENGINE	SDC10022-0	102.00	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL: 105.20	PL: 83.00	CHK. DIA 20.00
	SDC10022-1	102.25	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-1	102.25	CH: 71.40	PD: 40.00	
	SDC10022-2	102.50	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE	11-856-2	102.50	DIST1: -12.50	HEAD: NONE	
	SDC10022-3	102.75	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE	11-856-3	102.75	DIST2:	SKIRT: NONE	
	SDC10022-4	103.00	4.000	x	4.300	E-BC16	CAST IRON	CHROME	11-856-4	103.00	DIST3:		
REFERENCE #: 4089258		TOP	2ND	OIL				REFERENCE #: 3970192					

COMMERCIAL VEHICLE APPLICATIONS

CHRYSLER



CHRYSLER

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 24VALVE, 102.00mm (4.016"), 6BT									TURBO							
DIESEL ENGINE	SDC10022-0	102.00	TOP:	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDC10022-1	102.25		0.112	x	0.165										
	SDC10022-2	102.50	2ND:	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE							
	SDC10022-3	102.75		0.094	x	0.169										
	SDC10022-4	103.00	OIL:	4.000	x	4.300	E-BC16	CAST IRON	CHROME							
	REFERENCE #: 4089258		TOP		2ND		OIL									
6.7L (408.0 CID, 6,690.0 CC), OHV, 6CYL, 24VALVE, 107.00mm (4.213"), ISB 5.9									TURBO							
DIESEL ENGINE	SDC10023-0	107.00	TOP:	2.750	x	4.400	BF-K1	DUCTILE IRON	CHROME	11-885-0	107.00	TL:	103.20	PL:	90.50	CHK. DIA 20.00
	SDC10023-1	107.25		0.108	x	0.173				11-885-1	107.25	CH:	69.40	PD:	40.00	
	SDC10023-2	107.50	2ND:	2.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-885-2	107.50	DIST1:	-22.00	HEAD:	NONE	
	SDC10023-3	107.75		0.098	x	0.177				11-885-3	107.75	DIST2:		SKIRT:	NONE	
	SDC10023-4	108.00	OIL:	3.500	x	4.150	E-BC16	CAST IRON	CHROME	11-885-4	108.00	DIST3:				
	REFERENCE #: 4955366		TOP		2ND		OIL		REFERENCE #: 4955365							

COMMERCIAL VEHICLE APPLICATIONS

FORD

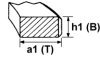


FORD

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
4.2L (256.0 CID, 4,195.0 CC), OHV, 6CYL, 12VALVE, 96.80mm (3.811"), ESSEX 42													
GASOLINE ENGINE	SWF30004-0	96.80	1.500	x	3.300	BF	STEEL	NITRIDED	11-826-0	96.80	TL: 59.10 CH: 31.80 DIST1: -3.60 DIST2: -3.60 DIST3: -3.60	PL: 63.30 PD: 23.00 HEAD: NONE SKIRT: MS	CHK. DIA 11.50
	SWF30004-1	97.05	0.059	x	0.130				11-826-1	97.05			
	SWF30004-2	97.30	1.500	x	4.200	T1-RB	CAST IRON	PHOSPHATE	11-826-2	97.30			
	SWF30004-3	97.55	0.059	x	0.165				11-826-3	97.55			
	SWF30004-4	97.80	3.000	x	3.200	NIFF-S	STEEL	NITRIDED	11-826-4	97.80			
	REFERENCE #: 2L3Z 6148 KA F6ZZ 6148 A		TOP	2ND	OIL				REFERENCE #: XL3Z 6108 AA				
4.6L (281.0 CID, 4,605.0 CC), SOHC, 8CYL, 16VALVE, 90.20mm (3.551"), TRITON 46GT													
GASOLINE ENGINE	SWF30006-0	90.20	1.500	x	3.300	BF	STEEL	NITRIDED	11-820-0	90.20	TL: 56.20 CH: 30.86 DIST1: -3.86 DIST2: -3.86 DIST3: -3.86	PL: 62.00 PD: 22.00 HEAD: NONE SKIRT: MS	CHK. DIA 11.00
	SWF30006-1	90.45	0.059	x	0.130				11-820-1	90.45			
	SWF30006-2	90.70	1.500	x	4.100	TUC	CAST IRON	PHOSPHATE	11-820-2	90.70			
	SWF30006-3	90.95	0.059	x	0.161				11-820-3	90.95			
	SWF30006-4	91.20	3.000	x	3.100	NIFF-S	STEEL	NITRIDED	11-820-4	91.20			
	REFERENCE #: 2L3Z 6148 AA F2AZ 6148 A F7AZ 6148 AA		TOP	2ND	OIL				REFERENCE #: F8AZ 6108 AA				
5.4L (330.0 CID, 5,408.0 CC), SOHC, 8CYL, 16VALVE, 90.20mm (3.551"), TRITON 54													
GASOLINE ENGINE	SWF30006-0	90.20	1.500	x	3.300	BF	STEEL	NITRIDED	11-810-0	90.20	TL: 52.00 CH: 31.00 DIST1: -1.75 DIST2: -1.75 DIST3: -1.75	PL: 61.00 PD: 22.00 HEAD: NONE SKIRT: MS	CHK. DIA 5.00
	SWF30006-1	90.45	0.059	x	0.130				11-810-1	90.45			
	SWF30006-2	90.70	1.500	x	4.100	TUC	CAST IRON	PHOSPHATE	11-810-2	90.70			
	SWF30006-3	90.95	0.059	x	0.161				11-810-3	90.95			
	SWF30006-4	91.20	3.000	x	3.100	NIFF-S	STEEL	NITRIDED	11-810-4	91.20			
	REFERENCE #: 2L3Z 6148 AA F2AZ 6148 A F7AZ 6148 AA		TOP	2ND	OIL				REFERENCE #: XC3Z 6108 CA				
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 24VALVE, 102.00mm (4.016"), ISB 5.9 TURBO													
DIESEL ENGINE	SDC10022-0	102.00	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL: 105.20 CH: 71.40 DIST1: -12.50 DIST2: -12.50 DIST3: -12.50	PL: 83.00 PD: 40.00 HEAD: NONE SKIRT: NONE	CHK. DIA 20.00
	SDC10022-1	102.25	0.112	x	0.165				11-856-1	102.25			
	SDC10022-2	102.50	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE	11-856-2	102.50			
	SDC10022-3	102.75	0.094	x	0.169				11-856-3	102.75			
	SDC10022-4	103.00	4.000	x	4.300	E-BC16	CAST IRON	CHROME	11-856-4	103.00			
	REFERENCE #: 4089258		TOP	2ND	OIL				REFERENCE #: 3970192				
6.0L (363.0 CID, 5,954.0 CC), OHV, 8CYL, 32VALVE, 95.00mm (3.740"), POWERSTROKE 6.0													
DIESEL ENGINE	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information. Piston Ring: 95.00mm X 2.25mm X 2.00mm X 3.50mm								11-857-0	95.00	TL: 85.80 CH: 52.04 DIST1: -16.40 DIST2: -16.40 DIST3: -16.40	PL: 65.00 PD: 34.00 HEAD: NONE SKIRT: MS	CHK. DIA 15.00
									11-857-1	95.25			
									11-857-2	95.50			
									11-857-3	95.75			
									11-857-4	96.00			
									REFERENCE #: 3C3Z 6108 AA				
6.4L (391.0 CID, 6,399.0 CC), OHV, 8CYL, 32VALVE, 98.20mm (3.866"), POWERSTROKE 6.4													
DIESEL ENGINE	SDF30022-0	98.20	2.350	x	3.500	BF-K1	STEEL	NITRIDED	11-886-0	98.20	TL: 78.90 CH: 52.15 DIST1: -15.95 DIST2: -15.95 DIST3: -15.95	PL: 75.00 PD: 38.50 HEAD: NONE SKIRT: MS	CHK. DIA 15.00
	SDF30022-1	98.45	0.093	x	0.138				11-886-1	98.45			
	SDF30022-2	98.70	2.000	x	4.300	T1-RB	CAST IRON	PHOSPHATE	11-886-2	98.70			
	SDF30022-3	98.95	0.079	x	0.169				11-886-3	98.95			
	SDF30022-4	99.20	3.000	x	3.250	E-BC16	STEEL	NITRIDED	11-886-4	99.20			
	REFERENCE #: 4C3Z 6148 AA		TOP	2ND	OIL				REFERENCE #: 8C3Z 6108 EB				

COMMERCIAL VEHICLE APPLICATIONS

FORD

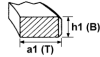


FORD

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
6.7L (406.0 CID, 6,651.0 CC), OHV, 8CYL, 32VALVE, 99.00mm (3.898"), POWERSTROKE 6.7T										TURBO						
DIESEL ENGINE	SDF30025-0	99.00	TOP:	2.850	x	3.600	BF-K1	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDF30025-1	99.25		0.112	x	0.142										
	SDF30025-2	99.50	2ND:	2.000	x	3.600	TUC	CAST IRON	PHOSPHATE							
	SDF30025-3	99.75		0.079	x	0.142										
	SDF30025-4	100.00	OIL:	2.500	x	2.850	E-BC16	STEEL	NITRIDED							
	REFERENCE #: BC3Z 6148 A		TOP		2ND		OIL									
6.7L (408.0 CID, 6,690.0 CC), OHV, 6CYL, 24VALVE, 107.00mm (4.213"), ISB 5.9										TURBO						
DIESEL ENGINE	SDC10023-0	107.00	TOP:	2.750	x	4.400	BF-K1	DUCTILE IRON	CHROME	11-885-0	107.00	TL:	103.20	PL:	90.50	20.00
	SDC10023-1	107.25		0.108	x	0.173				11-885-1	107.25	CH:	69.40	PD:	40.00	
	SDC10023-2	107.50	2ND:	2.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-885-2	107.50	DIST1:	-22.00	HEAD:	NONE	
	SDC10023-3	107.75		0.098	x	0.177				11-885-3	107.75	DIST2:		SKIRT:	NONE	
	SDC10023-4	108.00	OIL:	3.500	x	4.150	E-BC16	CAST IRON	CHROME	11-885-4	108.00	DIST3:				
	REFERENCE #: 4955366		TOP		2ND		OIL			REFERENCE #: 4955365						
7.3L (444.0 CID, 7,276.0 CC), OHV, 8CYL, 16VALVE, 104.40mm (4.110"), POWERSTROKE 7.3T										TURBO						
DIESEL ENGINE	SDF30020-0	104.40	TOP:	3.000	x	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDF30020-1	104.65		0.118	x	0.154										
	SDF30020-2	104.90	2ND:	2.000	x	4.000	T1-RB	CAST IRON	PHOSPHATE							
	SDF30020-3	105.15		0.079	x	0.157										
	SDF30020-4	105.40	OIL:	3.500	x	3.850	E-BC16	CAST IRON	CHROME							
	REFERENCE #: F7TZ 6148 AA F81Z 6148 ZZ		TOP		2ND		OIL									

COMMERCIAL VEHICLE APPLICATIONS

GMC

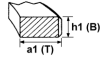


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO		
4.8L (294.0 CID, 4,818.0 CC), OHV, 8CYL, 16VALVE, 96.00mm (3.780"), Vortec 4800 LY2												
GASOLINE ENGINE	SWG10005-0	96.00	1.500	x	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL: 59.30 PL: 65.00	CHK. DIA 16.00
	SWG10005-1	96.25	0.059	x	0.130				11-899-1	96.25	CH: 33.60 PD: 23.96	
	SWG10005-2	96.50	1.500	x	4.000	TUC	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1: 65.50 HEAD: AH	
	SWG10005-3	96.75	0.059	x	0.157				11-899-3	96.75	DIST2: 65.50 SKIRT: MS	
	SWG10005-4	97.00	3.000	x	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3: 65.00	
REFERENCE #: 12456338		TOP	2ND	OIL				REFERENCE #: 89017577				
4.8L (294.0 CID, 4,818.0 CC), OHV, 8CYL, 16VALVE, 96.00mm (3.780"), Vortec 4800 LY2												
GASOLINE ENGINE	SWG10005-0	96.00	1.500	x	3.300	BF	STEEL	NITRIDED	11-900-0	96.00	TL: 64.80 PL: 63.50	CHK. DIA 25.00
	SWG10005-1	96.25	0.059	x	0.130				11-900-1	96.25	CH: 33.60 PD: 23.96	
	SWG10005-2	96.50	1.500	x	4.000	TUC	CAST IRON	PHOSPHATE	11-900-2	96.50	DIST1: -1.80 HEAD: NONE	
	SWG10005-3	96.75	0.059	x	0.157				11-900-3	96.75	DIST2: 65.50 SKIRT: MS	
	SWG10005-4	97.00	3.000	x	3.200	NIFF-S	STEEL	NITRIDED	11-900-4	97.00	DIST3: 65.00	
REFERENCE #: 12456338		TOP	2ND	OIL				REFERENCE #: 88894404				
5.7L (350.0 CID, 5,735.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), Vortec 5700 L31												
GASOLINE ENGINE	SWI10197-0	101.60	1.500	x	3.650	BF	STEEL	CHROME	11-828-0	101.60	TL: 66.00 PL: 69.70	CHK. DIA 12.00
	SWI10197-1	101.85	0.059	x	0.144				11-828-1	101.85	CH: 39.40 PD: 23.56	
	SWI10197-2	102.10	1.500	x	4.200	TUC	CAST IRON	PHOSPHATE	11-828-2	102.10	DIST1: -2.60 HEAD: NONE	
	SWI10197-3	102.35	0.059	x	0.165				11-828-3	102.35	DIST2: 65.50 SKIRT: NONE	
	SWI10197-4	102.60	3.000	x	3.350	NIFF-S	STEEL	CHROME	11-828-4	102.60	DIST3: 65.00	
REFERENCE #: 12456342 12522848 88894243		TOP	2ND	OIL				REFERENCE #: 12522850				
5.7L (350.0 CID, 5,735.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), Vortec 5700 LQ4												
GASOLINE ENGINE	SWI10197-0	101.60	1.500	x	3.650	BF	STEEL	CHROME	11-823-0	101.60	TL: 60.60 PL: 70.00	CHK. DIA 21.00
	SWI10197-1	101.85	0.059	x	0.144				11-823-1	101.85	CH: 33.80 PD: 24.00	
	SWI10197-2	102.10	1.500	x	4.200	TUC	CAST IRON	PHOSPHATE	11-823-2	102.10	DIST1: -1.10 HEAD: NONE	
	SWI10197-3	102.35	0.059	x	0.165				11-823-3	102.35	DIST2: 65.50 SKIRT: MS	
	SWI10197-4	102.60	3.000	x	3.350	NIFF-S	STEEL	CHROME	11-823-4	102.60	DIST3: 65.00	
REFERENCE #: 12456342 12522848 88894243		TOP	2ND	OIL				REFERENCE #: 88894003				
6.0L (364.0 CID, 5,967.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), Vortec 6000 L76, L96												
GASOLINE ENGINE	SWG10031-0	101.60	1.200	x	3.500	BF	STEEL	NITRIDED	11-889-0	101.60	TL: 57.90 PL: 65.00	CHK. DIA 13.00
	SWG10031-1	101.85	0.047	x	0.138				11-889-1	101.85	CH: 33.90 PD: 23.96	
	SWG10031-2	102.10	1.500	x	4.200	TUC	CAST IRON	PHOSPHATE	11-889-2	102.10	DIST1: -1.40 HEAD: NONE	
	SWG10031-3	102.35	0.059	x	0.165				11-889-3	102.35	DIST2: 65.50 SKIRT: MS	
	SWG10031-4	102.60	2.500	x	2.550	NIFF-H	STEEL	CHROME	11-889-4	102.60	DIST3: 65.00	
REFERENCE #: 19178307 89017484		TOP	2ND	OIL				REFERENCE #: 89017849				
6.5L (395.0 CID, 6,473.0 CC), OHV, 8CYL, 16 VALVE, 103.00mm (4.055"), GM 6.5 DIESEL												
DIESEL ENGINE	SDG10024-0	103.00	2.800	x	3.700	BF-K1-IB	STEEL	NITRIDED	11-830-0	103.00	TL: 91.80 PL: 70.00	CHK. DIA 17.00
	SDG10024-1	103.25	0.110	x	0.146				11-830-1	103.25	CH: 53.50 PD: 31.00	
	SDG10024-2	103.50	2.000	x	4.100	T1-IB	CAST IRON	PHOSPHATE	11-830-2	103.50	DIST1: -3.70 HEAD: AH	
	SDG10024-3	103.75	0.079	x	0.161				11-830-3	103.75	DIST2: 65.50 SKIRT: NONE	
	SDG10024-4	104.00	4.000	x	4.150	E-BC16	STEEL	NITRIDED	11-830-4	104.00	DIST3: 65.00	
REFERENCE #: 12369198		TOP	2ND	OIL				REFERENCE #: 89017849				

COMMERCIAL VEHICLE APPLICATIONS

GMC

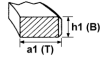


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LB7, LLY										TURBO			
DIESEL ENGINE	SDI10183-0	103.00	2.948	x	3.900	BF-K1	STEEL	NITRIDED	11-884-0	103.00	TL: 89.82	PL: 81.00	CHK. DIA 20.00
	SDI10183-1	103.25	0.116	x	0.154				11-884-1	103.25	CH: 49.82	PD: 34.50	
	SDI10183-2	103.50	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE	11-884-2	103.50	DIST1: -15.20	HEAD: NONE	
	SDI10183-3	103.75	0.079	x	0.173				11-884-3	103.75	DIST2:	SKIRT: MS	
	SDI10183-4	104.00	3.000	x	3.000	E-BC16	STEEL	NITRIDED	11-884-4	104.00	DIST3:		
	REFERENCE #: 88894243		TOP	2ND	OIL				REFERENCE #: 97303756 (LEFT) 97303755 (RIGHT)				
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LBZ, LMM, LGH										TURBO			
DIESEL ENGINE	SDI10183-0	103.00	2.948	x	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDI10183-1	103.25	0.116	x	0.154								
	SDI10183-2	103.50	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE					
	SDI10183-3	103.75	0.079	x	0.173								
	SDI10183-4	104.00	3.000	x	3.000	E-BC16	STEEL	NITRIDED					
	REFERENCE #: 88894243		TOP	2ND	OIL								
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LML										TURBO			
DIESEL ENGINE	SDI10183-0	103.00	2.948	x	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDI10183-1	103.25	0.116	x	0.154								
	SDI10183-2	103.50	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE					
	SDI10183-3	103.75	0.079	x	0.173								
	SDI10183-4	104.00	3.000	x	3.000	E-BC16	STEEL	NITRIDED					
	REFERENCE #: 88894243		TOP	2ND	OIL								
7.8L (475.0 CID, 7,785.0 CC), SOHC, 6CYL, 24VALVE, 115.0mm (4.528"), DURAMAX LG4										TURBO			
DIESEL ENGINE	SDI10178-0	115.00	2.948	x	4.100	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.				
	SDI10178-1	115.25	0.116	x	0.161								
	SDI10178-2	115.50	2.000	x	4.300	T1-IB	STEEL	NITRIDED					
	SDI10178-3	115.75	0.079	x	0.169								
	SDI10178-4	116.00	2.500	x	4.800	TUC	CAST IRON	CHROME					
	REFERENCE #: 94391502		TOP	2ND	3RD	OIL							

COMMERCIAL VEHICLE APPLICATIONS

HINO

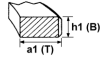


HINO

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
5.1L (313.0 CID, 5,123.0 CC), 4CYL, 112.0mm (4.409"), J05E										
DIESEL ENGINE	SDH20108-0	112.00	TOP: 2.500	x	4.150	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20108-1	112.25	0.098		0.163					
	SDH20108-2	112.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20108-3	112.75	0.079		0.169					
	SDH20108-4	113.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-E0350		TOP	2ND	OIL					
5.3L (330.0 CID, 5,307.0 CC), 4CYL, 114.0mm (4.488"), J05C										
DIESEL ENGINE	SDH20081-0	114.00	TOP: 3.000	x	4.500	BF	DUCTILE IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20081-1	114.25	0.118		0.177					
	SDH20081-2	114.50	2ND: 2.000	x	4.300	T1-IB	STEEL	NITRIDED		
	SDH20081-3	114.75	0.079		0.169					
	SDH20081-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-3391B, 13011-1380A		TOP	2ND	OIL					
5.3L (330.0 CID, 5,307.0 CC), 4CYL, 114.0mm (4.488"), J05C										
DIESEL ENGINE	SDH20086-0	114.00	TOP: 2.500	x	4.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20086-1	114.25	0.098		0.169					
	SDH20086-2	114.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20086-3	114.75	0.079		0.169					
	SDH20086-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-3880A, 13011-3940A, 13011-3221A		TOP	2ND	OIL					
6.4L (391.0 CID, 6,403.0 CC), 5CYL, 112.0mm (4.409"), J07E										
DIESEL ENGINE	SDH30104-0	112.00	TOP: 2.500	x	4.150	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30104-1	112.25	0.098		0.163					
	SDH30104-2	112.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH30104-3	112.75	0.079		0.169					
	SDH30104-4	113.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-4050A		TOP	2ND	OIL					
6.4L (391.0 CID, 6,403.0 CC), 5CYL, 112.0mm (4.409"), J07E										
DIESEL ENGINE	SDH30109-0	112.00	TOP: 2.948	x	4.100	BF-K1	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30109-1	112.25	0.116		0.161					
	SDH30109-2	112.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH30109-3	112.75	0.079		0.169					
	SDH30109-4	113.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-E0370		TOP	2ND	OIL					
6.6L (405.0 CID, 6,634.0 CC), 5CYL, 114.0mm (4.488"), J07C										
DIESEL ENGINE	SDH20087-0	114.00	TOP: 2.500	x	4.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20087-1	114.25	0.098		0.169					
	SDH20087-2	114.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20087-3	114.75	0.079		0.169					
	SDH20087-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-3660A, 13011-3900A		TOP	2ND	OIL					

COMMERCIAL VEHICLE APPLICATIONS

HINO

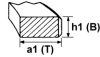


HINO

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
6.6L (405.0 CID, 6,634.0 CC), 5CYL, 114.0mm (4.488"), J07C										
DIESEL ENGINE	SDH20082-0	114.00	TOP: 3.000	x	4.500	BF	DUCTILE IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20082-1	114.25	0.118		0.177					
	SDH20082-2	114.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20082-3	114.75	0.079		0.169					
	SDH20082-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
			0.157		0.171					
	REFERENCE #: 13011-3371A 13011-3371B		TOP	2ND	OIL					
7.7L (469.0 CID, 7,684.0 CC), 6CYL, 112.0mm (4.409"), J08E										
DIESEL ENGINE	SDH30102-0	112.00	TOP: 2.500	x	4.150	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30102-1	112.25	0.098		0.163					
	SDH30102-2	112.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH30102-3	112.75	0.079		0.169					
	SDH30102-4	113.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
			0.157		0.171					
	REFERENCE #: 13011-4040A		TOP	2ND	OIL					
8.0L (486.0 CID, 7,961.0 CC), 6CYL, 114.0mm (4.488"), J08C										
DIESEL ENGINE	SDH20067-0	114.00	TOP: 3.000	x	4.500	BF	DUCTILE IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20067-1	114.25	0.118		0.177					
	SDH20067-2	114.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20067-3	114.75	0.079		0.169					
	SDH20067-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
			0.157		0.171					
	REFERENCE #: 13011-2960A 13011-2961A		TOP	2ND	OIL					
8.0L (486.0 CID, 7,961.0 CC), 6CYL, 114.0mm (4.488"), J08C										
DIESEL ENGINE	SDH20088-0	114.00	TOP: 2.500	x	4.300	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20088-1	114.25	0.098		0.169					
	SDH20088-2	114.50	2ND: 2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH20088-3	114.75	0.079		0.169					
	SDH20088-4	115.00	OIL: 4.000	x	4.350	E-BC16	STEEL	NITRIDED		
			0.157		0.171					
	REFERENCE #: 13011-3570A 13011-3820A 13011-3890B		TOP	2ND	OIL					

COMMERCIAL VEHICLE APPLICATIONS

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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
2.4L (145.0 CID, 2,369.0 CC), 4CYL, 86.00mm (3.386"), C240										
DIESEL ENGINE	SDI10051-0	86.00	TOP: 2.000	x	3.500	T1	DUCTILE IRON	PHOSPHATE		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10051-1	86.25	0.079	x	0.138					
	SDI10051-2	86.50	2ND: 2.000	x	3.500	T1	CAST IRON	PHOSPHATE		
	SDI10051-3	86.75	0.079	x	0.138					
	SDI10051-4	87.00	3RD: 2.000	x	3.500	TUC	CAST IRON	PHOSPHATE		
				OIL: 5.000	x	4.200	E-BC3	CAST IRON		
	REFERENCE #: 9-12181-603-0		TOP		2ND		3RD	OIL		
2.4L (145.0 CID, 2,369.0 CC), 4CYL, 86.00mm (3.386"), C240										
DIESEL ENGINE	SDI10093-0	86.00	TOP: 2.500	x	4.000	BF	DUCTILE IRON	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10093-1	86.25	0.098	x	0.157					
	SDI10093-2	86.50	2ND: 2.000	x	3.500	T1-IC	CAST IRON	CHROME		
	SDI10093-3	86.75	0.079	x	0.138					
	SDI10093-4	87.00	OIL: 5.000	x	4.300	E-BC3	CAST IRON	CHROME		
				0.197	x	0.169				
	REFERENCE #: 8-94104-954-0 5-12121-022-0 5-12121-022-1		TOP		2ND		OIL			
2.4L (145.0 CID, 2,369.0 CC), 4CYL, 86.00mm (3.386"), C240										
DIESEL ENGINE	SDI10095-0	86.00	TOP: 2.500	x	3.800	T1	CAST IRON	PHOSPHATE		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10095-1	86.25	0.098	x	0.150					
	SDI10095-2	86.50	2ND: 2.000	x	3.500	TUC	CAST IRON	PHOSPHATE		
	SDI10095-3	86.75	0.079	x	0.138					
	SDI10095-4	87.00	OIL: 5.000	x	4.200	E-BC3	CAST IRON	PHOSPHATE		
				0.197	x	0.165				
	REFERENCE #: 8-94104-949-0		TOP		2ND		OIL			
3.0L (183.0 CID, 2,999.0 CC), 4CYL, 95.40mm (3.756"), 4J11-TC										
DIESEL ENGINE	SDI10215-0	95.40	TOP: 2.000	x	3.450	BF-K2	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10215-1	95.65	0.079	x	0.136					
	SDI10215-2	95.90	2ND: 2.000	x	4.400	T1-IC	CAST IRON	CHROME		
	SDI10215-3	96.15	0.079	x	0.173					
	SDI10215-4	96.40	OIL: 3.000	x	3.000	E-BC16	STEEL	NITRIDED		
				0.118	x	0.118				
	REFERENCE #: 8-98053-579-0		TOP		2ND		OIL			
3.0L (183.0 CID, 2,999.0 CC), 4CYL, 95.40mm (3.756"), 4J11-TC										
DIESEL ENGINE	SDI10210-0	95.40	TOP: 2.000	x	3.450	BF-K2	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10210-1	95.65	0.079	x	0.136					
	SDI10210-2	95.90	2ND: 1.500	x	4.000	T1	CAST IRON	CHROME		
	SDI10210-3	96.15	0.059	x	0.157					
	SDI10210-4	96.40	OIL: 3.000	x	3.000	E-BC16	STEEL	NITRIDED		
				0.118	x	0.118				
	REFERENCE #: 8-97388-734-0		TOP		2ND		OIL			
5.2L (317.0 CID, 5,193.0 CC), 4CYL, 115.00mm (4.528"), 4HK1-TC										
DIESEL ENGINE	SDI10207-0	95.40	TOP: 2.948	x	4.150	BF-K1	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10207-1	95.65	0.116	x	0.163					
	SDI10207-2	95.90	2ND: 2.000	x	4.300	T1-IB	CAST IRON	CHROME		
	SDI10207-3	96.15	0.079	x	0.169					
	SDI10207-4	96.40	3RD: 2.500	x	4.800	TUC	STEEL	NITRIDED		
				0.098	x	0.189				
			OIL: 3.000	x	3.100	E-BC16	CAST IRON	PHOSPHATE		
			0.118	x	0.122					
	REFERENCE #: 8-98017-166-0		TOP		2ND		3RD	OIL		

COMMERCIAL VEHICLE APPLICATIONS

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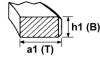


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
6.0L (364.0 CID, 5,967.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), Vortec 6000 L96																
GASOLINE ENGINE	SWG10031-0	101.60	TOP:	1.200	x	3.500	BF	STEEL	NITRIDED	11-889-0	101.60	TL:	57.90	PL:	65.00	CHK. DIA 13.00
	SWG10031-1	101.85		0.047	x	0.138				11-889-1	101.85	CH:	33.90	PD:	23.96	
	SWG10031-2	102.10	2ND:	1.500	x	4.200	TUC	CAST IRON	PHOSPHATE	11-889-2	102.10	DIST1:	-1.40	HEAD:	NONE	
	SWG10031-3	102.35		0.059	x	0.165				11-889-3	102.35	DIST2:		SKIRT:	MS	
	SWG10031-4	102.60	OIL:	2.500	x	2.550	NIFF-H	STEEL	CHROME	11-889-4	102.60	DIST3:				
REFERENCE #: 8-89017-484-0		TOP	2ND		OIL						REFERENCE #: 5018018AB					
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), 8GF1																
TURBO																
DIESEL ENGINE	SDI10183-0	103.00	TOP:	2.948	x	3.900	BF-K1	STEEL	NITRIDED	11-884-0	103.00	TL:	89.82	PL:	81.00	CHK. DIA 20.00
	SDI10183-1	103.25		0.116	x	0.154				11-884-1	103.25	CH:	49.82	PD:	34.50	
	SDI10183-2	103.50	2ND:	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE	11-884-2	103.50	DIST1:	-15.20	HEAD:	NONE	
	SDI10183-3	103.75		0.079	x	0.173				11-884-3	103.75	DIST2:		SKIRT:	NONE	
	SDI10183-4	104.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED	11-884-4	104.00	DIST3:				
REFERENCE #: 8-97250-331-2		TOP	2ND		OIL						REFERENCE #: 97303756 (LEFT) 97303755 (RIGHT)					

COMMERCIAL VEHICLE APPLICATIONS

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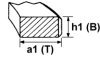


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
1.5L (91.0 CID, 1,484.0 CC), 4CYL, 75.00mm (2.953"), UA																
GASOLINE ENGINE	SCT20010-0	75.00	TOP:	2.500	x	3.300	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SCT20010-1	75.25		0.098	x	0.130										
	SCT20010-2	75.50	2ND:	2.500	x	3.300	TUC	CAST IRON	PHOSPHATE							
	SCT20010-3	75.75		0.098	x	0.130										
	SCT20010-4	76.00	OIL:	4.000	x	3.300	BC1	CAST IRON	CHROME							
				0.157	x	0.130										
	REFERENCE #: 0107-11-999		TOP	2ND	OIL											
2.0L (121.0 CID, 1,985.0 CC), 4CYL, 82.00mm (3.228"), VA																
GASOLINE ENGINE	SCT20012-0	82.00	TOP:	2.500	x	3.600	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SCT20012-1	82.25		0.098	x	0.142										
	SCT20012-2	82.50	2ND:	2.500	x	3.600	T1	CAST IRON	PHOSPHATE							
	SCT20012-3	82.75		0.098	x	0.142										
	SCT20012-4	83.00	OIL:	4.500	x	3.600	BC16	CAST IRON	CHROME							
				0.177	x	0.142										
	REFERENCE #: 0164-11-999		TOP	2ND	OIL											
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-582-0	86.00	TL:	71.50	PL:	66.00	CHK. DIA 15.00
	SWT20048-1	86.25		0.059	x	0.128				11-582-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-582-2	86.50	DIST1:	-7.00	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-582-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-582-4	87.00	DIST3:				
				0.157	x	0.126										
	REFERENCE #: F2Y1-11-5C0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F2Y2-11-SA0A					
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-583-0	86.00	TL:	71.00	PL:	67.00	CHK. DIA 10.00
	SWT20048-1	86.25		0.059	x	0.128				11-583-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-583-2	86.50	DIST1:	-5.40	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-583-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-583-4	87.00	DIST3:				
				0.157	x	0.126										
	REFERENCE #: F2Y1-11-5C0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F2Y4-11-SA0A					
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-573-0	86.00	TL:	71.40	PL:	67.00	CHK. DIA 15.00
	SWT20048-1	86.25		0.059	x	0.128				11-573-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-573-2	86.50	DIST1:	-9.50	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-573-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-573-4	87.00	DIST3:				
				0.157	x	0.126										
	REFERENCE #: F2Y1-11-5C0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F220-11-SA0					
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), FE																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-129-0	86.00	TL:	70.80	PL:	67.00	CHK. DIA 10.00
	SWT20048-1	86.25		0.059	x	0.128				11-129-1	86.25	CH:	34.00	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-129-2	86.50	DIST1:	-2.60	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-129-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-129-4	87.00	DIST3:				
				0.157	x	0.126										
	REFERENCE #: F2Y1-11-5C0 F801-23-130		TOP	2ND	OIL						REFERENCE #: FE01-23-200					

COMMERCIAL VEHICLE APPLICATIONS

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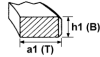


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
1.2L (76.0 CID, 1,238.0 CC), SOHC, 4CYL, 8VALVE, 73.00mm (2.784"), 4G33											
GASOLINE ENGINE	SWM31016-0	73.00	1.500	x	3.300	BF	STEEL	CHROME	11-249-0	73.00 TL: 70.00 PL: 64.00	CHK. DIA 20.00
	SWM31016-1	73.25	0.059	x	0.130				11-249-1	73.25 CH: 32.70 PD: 19.00	
	SWM31016-2	73.50	1.500	x	3.300	T1	CAST IRON	PHOSPHATE	11-249-2	73.50 DIST1: HEAD: NONE	
	SWM31016-3	73.75	0.059	x	0.130				11-249-3	73.75 DIST2: SKIRT: NONE	
	SWM31016-4	74.00	4.000	x	3.000	NIFF-S	STEEL	CHROME	11-249-4	74.00 DIST3: SKIRT: NONE	
REFERENCE #: MD009625 MD115500		TOP 2ND OIL				REFERENCE #: MD009580 MD009581					
1.6L (97.0 CID, 1,597.0 CC), SOHC, 4CYL, 8VALVE, 76.90mm (3.028"), 4G32											
GASOLINE ENGINE	SWM31043-0	76.90	1.500	x	3.100	BF	STEEL	CHROME	11-3024-0	76.90 TL: 68.00 PL: 64.00	CHK. DIA 16.00
	SWM31043-1	77.15	0.059	x	0.122				11-3024-1	77.15 CH: 34.00 PD: 19.00	
	SWM31043-2	77.40	1.500	x	3.500	T1	CAST IRON	PHOSPHATE	11-3024-2	77.40 DIST1: HEAD: NONE	
	SWM31043-3	77.65	0.059	x	0.138				11-3024-3	77.65 DIST2: SKIRT: NONE	
	SWM31043-4	77.90	4.000	x	3.800	NIFF-S	STEEL	CHROME	11-3024-4	77.90 DIST3: SKIRT: NONE	
REFERENCE #: MD012765 MD062387		TOP 2ND OIL				REFERENCE #: MD105495					
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63											
GASOLINE ENGINE	SWM31048-0	85.00	1.200	x	3.100	BF	STEEL	NITRIDED	11-540-0	85.00 TL: 67.00 PL: 66.00	CHK. DIA 10.00
	SWM31048-1	85.25	0.047	x	0.122				11-540-1	85.25 CH: 35.00 PD: 21.00	
	SWM31048-2	85.50	1.500	x	3.800	TUC	CAST IRON	CHROME	11-540-2	85.50 DIST1: HEAD: NONE	
	SWM31048-3	85.75	0.059	x	0.150				11-540-3	85.75 DIST2: SKIRT: NONE	
	SWM31048-4	86.00	3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-540-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD133485		TOP 2ND OIL				REFERENCE #: MD129242					
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63											
GASOLINE ENGINE	SWM31048-0	85.00	1.200	x	3.100	BF	STEEL	NITRIDED	11-546-0	85.00 TL: 67.00 PL: 66.00	CHK. DIA 26.00
	SWM31048-1	85.25	0.047	x	0.122				11-546-1	85.25 CH: 35.00 PD: 21.00	
	SWM31048-2	85.50	1.500	x	3.800	TUC	CAST IRON	CHROME	11-546-2	85.50 DIST1: HEAD: AH	
	SWM31048-3	85.75	0.059	x	0.150				11-546-3	85.75 DIST2: SKIRT: NONE	
	SWM31048-4	86.00	3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-D807-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD133485		TOP 2ND OIL				REFERENCE #: MD129232					
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), MAGNUM 5.9 / 1994-2003											
GASOLINE ENGINE	SWM31048-0	85.00	1.200	x	3.100	BF	STEEL	NITRIDED	11-3045-0	85.00 TL: 67.50 PL: 62.00	CHK. DIA 10.00
	SWM31048-1	85.25	0.047	x	0.122				11-3045-1	85.25 CH: 35.50 PD: 22.00	
	SWM31048-2	85.50	1.500	x	3.800	TUC	CAST IRON	CHROME	11-3045-2	85.50 DIST1: HEAD: NONE	
	SWM31048-3	85.75	0.059	x	0.150				11-3045-3	85.75 DIST2: SKIRT: NONE	
	SWM31048-4	86.00	3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-3045-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD133485		TOP 2ND OIL				REFERENCE #: MD188289					
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63											
GASOLINE ENGINE	SWM31071-0	85.00	1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-718-0	85.00 TL: 67.00 PL: 62.00	CHK. DIA 10.00
	SWM31071-1	85.25	0.047	x	0.122				11-718-1	85.25 CH: 35.00 PD: 22.00	
	SWM31071-2	85.50	1.500	x	3.800	TUC	CAST IRON	CHROME	11-718-2	85.50 DIST1: HEAD: NONE	
	SWM31071-3	85.75	0.059	x	0.150				11-718-3	85.75 DIST2: SKIRT: NONE	
	SWM31071-4	86.00	3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-718-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD195850		TOP 2ND OIL				REFERENCE #: MD190262					

COMMERCIAL VEHICLE APPLICATIONS

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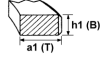


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
GASOLINE ENGINE	SWM31071-0	85.00	1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-719-0	85.00 TL: 67.00 PL: 62.00	
	SWM31071-1	85.25	0.047	x	0.122				11-719-1	85.25 CH: 35.00 PD: 22.00	
	SWM31071-2	85.50	1.500	x	3.800	TUC	CAST IRON	CHROME	11-719-2	85.50 DIST1: 5.40 HEAD: AH	
	SWM31071-3	85.75	0.059	x	0.150				11-719-3	85.75 DIST2: SKIRT: NONE	
	SWM31071-4	86.00	3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-719-4	86.00 DIST3: SKIRT: NONE	
	REFERENCE #: MD195850		TOP	2ND	OIL				REFERENCE #: MD308200		CHK. DIA 10.00
	GASOLINE ENGINE	SWM31013-0	85.00	2.000	x	3.100	BF	STEEL	NITRIDED	11-027-0	85.00 TL: 72.20 PL: 72.00
		SWM31013-1	85.25	0.079	x	0.122				11-027-1	85.25 CH: 35.20 PD: 21.00
		SWM31013-2	85.50	2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-027-2	85.50 DIST1: -5.20 HEAD: NONE
SWM31013-3		85.75	0.079	x	0.146				11-027-3	85.75 DIST2: -7.70 SKIRT: NONE	
SWM31013-4		86.00	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-027-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD040640 MD040840 MD042580			TOP	2ND	OIL				REFERENCE #: MD040591		CHK. DIA 30.00
GASOLINE ENGINE		SWM31013-0	85.00	2.000	x	3.100	BF	STEEL	NITRIDED	11-3042-0	85.00 TL: 74.00 PL: 72.00
		SWM31013-1	85.25	0.079	x	0.122				11-3042-1	85.25 CH: 35.20 PD: 21.00
		SWM31013-2	85.50	2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-3042-2	85.50 DIST1: 2.00 HEAD: NONE
	SWM31013-3	85.75	0.079	x	0.146				11-3042-3	85.75 DIST2: SKIRT: NONE	
	SWM31013-4	86.00	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3042-4	86.00 DIST3: SKIRT: NONE	
	REFERENCE #: MD040640 MD040840 MD042580		TOP	2ND	OIL				REFERENCE #: MD040821		CHK. DIA 22.00
	GASOLINE ENGINE	SWM31034-0	85.00	1.500	x	3.050	BF	STEEL	CHROME	11-539-0	85.00 TL: 72.30 PL: 72.00
		SWM31034-1	85.25	0.059	x	0.120				11-539-1	85.25 CH: 35.20 PD: 21.00
		SWM31034-2	85.50	1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-539-2	85.50 DIST1: -5.00 HEAD: NONE
SWM31034-3		85.75	0.059	x	0.150				11-539-3	85.75 DIST2: -7.30 SKIRT: NONE	
SWM31034-4		86.00	4.000	x	3.150	NIFF-S	STEEL	CHROME	11-539-4	86.00 DIST3: SKIRT: NONE	
REFERENCE #: MD100467			TOP	2ND	OIL				REFERENCE #: MD100372		CHK. DIA 17.00
GASOLINE ENGINE		SWM31037-0	86.50	1.500	x	3.050	BF	STEEL	CHROME	11-538-0	86.50 TL: 72.40 PL: 72.00
		SWM31037-1	86.75	0.059	x	0.120				11-538-1	86.75 CH: 34.90 PD: 21.00
		SWM31037-2	87.00	1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-536-2	87.00 DIST1: 0.50 HEAD: NONE
	SWM31037-3	87.25	0.059	x	0.150				11-536-3	87.25 DIST2: 0.30 SKIRT: NONE	
	SWM31037-4	87.50	4.000	x	3.150	NIFF-S	STEEL	CHROME	11-536-4	87.50 DIST3: SKIRT: NONE	
	REFERENCE #: MD085346		TOP	2ND	OIL				REFERENCE #: MD105377		CHK. DIA 15.00
	GASOLINE ENGINE	SWM31072-0	86.50	1.500	x	3.050	BF-IB	STEEL	CHROME	11-536-0	86.50 TL: 67.40 PL: 62.00
		SWM31072-1	86.75	0.059	x	0.120				11-536-1	86.75 CH: 35.00 PD: 22.00
		SWM31072-2	87.00	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-536-2	87.00 DIST1: 0.30 HEAD: NONE
SWM31072-3		87.25	0.059	x	0.150				11-536-3	87.25 DIST2: 0.40 SKIRT: NONE	
SWM31072-4		87.50	4.000	x	3.150	NIFF-S	STEEL	CHROME	11-536-4	87.50 DIST3: SKIRT: NONE	
REFERENCE #: MD195872			TOP	2ND	OIL				REFERENCE #: MD1988998		CHK. DIA 10.00

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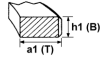


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
2.4L (143.0 CID, 2,350.0 CC), SOHC, 4CYL, 12VALVE, 86.50mm (3.406"), 4G64													
GASOLINE ENGINE	SWM31116-0	86.50	TOP: 1.200	x	3.100	BF-IB	STEEL	CHROME	11-709-0	86.50	TL: 67.10	PL: 62.00	CHK. DIA 12.00
	SWM31116-1	86.75			0.047				11-709-1	86.75	CH: 65.00	PD: 22.00	
	SWM31116-2	87.00	2ND: 1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-709-2	87.00	DIST1: -4.30	HEAD: NONE	
	SWM31116-3	87.25			0.059				11-709-3	87.25	DIST2:	SKIRT: NONE	
	SWM31116-4	87.50	OIL: 2.800	x	2.550	NIFF-S	STEEL	CHROME	11-709-4	87.50	DIST3:		
	REFERENCE #: MD195828 MD194597		TOP		2ND		OIL		REFERENCE #: MD303071				
2.6L (156.0 CID, 2,555.0 CC), SOHC, 4CYL, 12VALVE, 91.10mm (3.587"), G54B													
GASOLINE ENGINE	SWM31047-0	91.10	TOP: 1.200	x	3.100	BF	DUCTILE IRON	CHROME	11-031-0	91.10	TL: 77.20	PL: 75.00	CHK. DIA 37.50
	SWM31047-1	91.35			0.047				11-031-1	91.35	CH: 35.20	PD: 22.00	
	SWM31047-2	91.60	2ND: 1.500	x	3.800	T1	CAST IRON	CHROME	11-031-2	91.60	DIST1:	HEAD: NONE	
	SWM31047-3	91.85			0.059				11-031-3	91.85	DIST2:	SKIRT: NONE	
	SWM31047-4	92.10	OIL: 2.800	x	2.550	NIFF-S	STEEL	CHROME	11-031-4	92.10	DIST3:		
	REFERENCE #: MD025089 MD026835 MD026920		TOP		2ND		OIL		REFERENCE #: MD026921				
2.6L (156.0 CID, 2,555.0 CC), SOHC, 4CYL, 12VALVE, 91.10mm (3.587"), G54B													
GASOLINE ENGINE	SWM31039-0	91.10	TOP: 1.200	x	3.100	BF	STEEL	NITRIDED	11-035-0	91.10	TL: 78.30	PL: 79.00	CHK. DIA 25.00
	SWM31039-1	91.35			0.047				11-035-1	91.35	CH: 36.00	PD: 22.00	
	SWM31039-2	91.60	2ND: 1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-035-2	91.60	DIST1: 0.30	HEAD: NONE	
	SWM31039-3	91.85			0.059				11-035-3	91.85	DIST2:	SKIRT: NONE	
	SWM31039-4	92.10	OIL: 2.800	x	2.550	NIFF-S	STEEL	NITRIDED	11-035-4	92.10	DIST3:		
	REFERENCE #: MD061258 MD076170 MD101895		TOP		2ND		OIL		REFERENCE #: MD071172				

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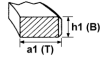


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
1.5L (91.0 CID, 1,487.0 CC), SOHC, 4CYL, 8VALVE, 76.00mm (2.992"), A15													
GASOLINE ENGINE	SWN30052-0	76.00	1.200	x	3.050	BF	STEEL	CHROME	11-049-0	76.00 TL: 65.00 PL: 63.00			
	SWN30052-1	76.25	0.047	x	0.120				11-049-1	76.25 CH: 30.00 PD: 19.00			
	SWN30052-2	76.50	2.000	x	3.400	TUC	CAST IRON	PHOSPHATE	11-049-2	76.50 DIST1: -6.50 HEAD: NONE			
	SWN30052-3	76.75	0.079	x	0.134				11-049-3	76.75 DIST2: SKIRT: NONE			
	SWN30052-4	77.00	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-049-4	77.00 DIST3: SKIRT: NONE			
REFERENCE #: 12033-H7680 12033-H9800 12033-H9810		TOP 2ND OIL				REFERENCE #: 12010-H9802				CHK. DIA 10.00			
2.0L (121.0 CID, 1,982.0 CC), OHV, 4CYL, 87.20mm (3.433"), H20													
GASOLINE ENGINE	SWN30052-0	76.00	1.200	x	3.050	BF	STEEL	CHROME	11-3208-0	76.00 TL: 65.00 PL: 63.00			
	SWN30052-1	76.25	0.047	x	0.120				11-3208-1	76.25 CH: 30.00 PD: 19.00			
	SWN30052-2	76.50	2.000	x	3.400	TUC	CAST IRON	PHOSPHATE	11-3208-2	76.50 DIST1: -2.80 HEAD: NONE			
	SWN30052-3	76.75	0.079	x	0.134				11-3208-3	76.75 DIST2: SKIRT: NONE			
	SWN30052-4	77.00	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3208-4	77.00 DIST3: SKIRT: NONE			
REFERENCE #: 12033-H7680 12033-H9800 12033-H9810		TOP 2ND OIL				REFERENCE #: 12010-H9704				CHK. DIA 10.00			
2.0L (121.0 CID, 1,982.0 CC), OHV, 4CYL, 87.20mm (3.433"), H20													
GASOLINE ENGINE	SWN30069-0	87.20	2.000	x	4.050	BF	CAST IRON	CHROME	11-247-0	87.20 TL: 84.00 PL: 73.00			
	SWN30069-1	87.45	0.079	x	0.159				11-247-1	87.45 CH: 41.00 PD: 22.00			
	SWN30069-2	87.70	2.500	x	4.050	TUC	CAST IRON	PHOSPHATE	11-247-2	87.70 DIST1: -1.60 HEAD: NONE			
	SWN30069-3	87.95	0.098	x	0.159				11-247-3	87.95 DIST2: SKIRT: NONE			
	SWN30069-4	88.20	4.000	x	3.800	NIFF-S	STEEL	CHROME	11-247-4	88.20 DIST3: SKIRT: NONE			
REFERENCE #: 12033-R9000 12033-Y4460 12033-R9023		TOP 2ND OIL				REFERENCE #: 12010-74001 12010-R9001				CHK. DIA 0.00			
2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22													
DIESEL ENGINE	<p>Piston Rings for this application are not currently available</p> <p>Refer to the NPR of America online catalog at:</p> <p>www.npramerica.com</p> <p>for the latest product availability information.</p> <p>Piston Ring: 83.00mm x 2.25mm x 2.00mm x 2.00mm x 4.00mm</p>								11-3249-0	83.00	TL: 90.00	PL: 71.00	CHK. DIA 16.00
						11-3249-1	83.25	CH: 48.00	PD: 26.00				
						11-3249-2	83.50	DIST1: -0.60	HEAD: NONE				
						11-3249-3	83.75	DIST2: -2.00	SKIRT: NONE				
						11-3249-4	84.00	DIST3:					
						REFERENCE #: 12010-R8110							
2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22													
DIESEL ENGINE	SDN31027-0	83.00	2.500	x	3.500	BF	DUCTILE IRON	MOLY	11-068-0	83.00 TL: 90.00 PL: 71.00			
	SDN31027-1	83.25	0.098	x	0.138				11-068-1	83.25 CH: 48.00 PD: 26.00			
	SDN31027-2	83.50	2.500	x	3.400	T1-IC	CAST IRON	PHOSPHATE	11-068-2	83.50 DIST1: -2.00 HEAD: NONE			
	SDN31027-3	83.75	0.098	x	0.134				11-068-3	83.75 DIST2: -0.50 SKIRT: NONE			
	SDN31027-4	84.00	4.500	x	3.900	E-BC3	CAST IRON	CHROME	11-068-4	84.00 DIST3:			
REFERENCE #: 12033-R8100 12033-R8103 12033-R8104		TOP 2ND OIL				REFERENCE #: 12010-36W10 12010-R8111				CHK. DIA 15.00			
2.4L (146.0 CID, 2,389.0 CC), SOHC, 4CYL, 8VALVE, 89.00mm (3.504"), Z24													
GASOLINE ENGINE	SWN30059-0	89.00	1.500	x	3.250	BF	STEEL	CHROME	11-070-0	89.00 TL: 72.00 PL: 72.00			
	SWN30059-1	89.25	0.059	x	0.128				11-070-1	89.25 CH: 34.00 PD: 21.00			
	SWN30059-2	89.50	1.500	x	3.900	T1	CAST IRON	CHROME	11-070-2	89.50 DIST1: -4.00 HEAD: NONE			
	SWN30059-3	89.75	0.059	x	0.154				11-070-3	89.75 DIST2: SKIRT: NONE			
	SWN30059-4	90.00	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-070-4	90.00 DIST3:			
REFERENCE #: 12033-10W00 12033-10W10		TOP 2ND OIL				REFERENCE #: 12010-30W01 12010-30W11				CHK. DIA 30.00			

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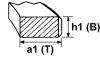


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
2.4L (146.0 CID, 2,389.0 CC), SOHC, 4CYL, 8VALVE, 89.00mm (3.504"), Z24i											
GASOLINE ENGINE	SWN30085-0	89.00	TOP: 2.000	x	3.080	BF-IB	STEEL	CHROME	11-238-0	89.00 TL: 70.40 PL: 66.50	CHK. DIA 10.00
	SWN30085-1	89.25			0.121				11-238-1	89.25 CH: 33.80 PD: 21.00	
	SWN30085-2	89.50	2ND: 1.500	x	3.900	T1	CAST IRON	PHOSPHATE	11-238-2	89.50 DIST1: -4.00 HEAD: NONE	
	SWN30085-3	89.75			0.154				11-238-3	89.75 DIST2: SKIRT: NONE	
	SWN30085-4	90.00	OIL: 4.000	x	3.200	NIFF-S	STEEL	CHROME	11-238-4	90.00 DIST3:	
	REFERENCE #: 12033-83W00 12033-13G10		TOP		2ND		OIL		REFERENCE #: 12010-83W01 12010-83W11		
2.5L (151.0 CID, 2,472.0 CC), OHV, 4CYL, 92.00mm (3.622"), H25											
GASOLINE ENGINE	Piston Rings for this application are not currently available Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information. Piston Ring: 83.00mm x 2.25mm x 2.00mm x 2.00mm x 4.00mm								11-251-0	92.00 TL: 71.00 PL: 72.00	CHK. DIA 27.00
								11-251-1	92.25 CH: 36.00 PD: 21.00		
								11-251-2	92.50 DIST1: -7.30 HEAD: NONE		
								11-251-3	92.75 DIST2: SKIRT: NONE		
								11-251-4	93.00 DIST3:		
								REFERENCE #: 12010-60K00			
2.5L (152.0 CID, 2,488.0 CC), DOHC, 4CYL, 16VALVE, 89.00mm (3.504"), QR25DE											
GASOLINE ENGINE	SWN30140-0	89.00	TOP: 1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-881-0	89.00 TL: 61.50 PL: 57.00	CHK. DIA 9.50
	SWN30140-1	89.25			0.122				11-881-1	89.25 CH: 32.90 PD: 19.99	
	SWN30140-2	89.50	2ND: 1.200	x	3.800	T1	CAST IRON	CHROME	11-881-2	89.50 DIST1: 5.90 HEAD: ARL	
	SWN30140-3	89.75			0.150				11-881-3	89.75 DIST2: SKIRT: MS	
	SWN30140-4	90.00	OIL: 2.500	x	2.850	NIFF-S	STEEL	NITRIDED	11-881-4	90.00 DIST3:	
	REFERENCE #: 12033-EA000 12033-EA00B		TOP		2ND		OIL		REFERENCE #: A2010-EA000 A2010-EA001		
3.2L (198.0 CID, 3,268.0 CC), 6CYL, 83.00mm (3.268"), SD33T											
DIESEL ENGINE	SDN31028-0	83.00	TOP: 2.500	x	3.500	BF-K2	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SDN31028-1	83.25			0.138						
	SDN31028-2	83.50	2ND: 2.000	x	3.400	T1-IC	DUCTILE IRON	CHROME			
	SDN31028-3	83.75			0.134						
	SDN31028-4	84.00	OIL: 4.000	x	4.000	E-BC3	CAST IRON	CHROME			
	REFERENCE #: 12033-C8704		TOP		2ND		OIL				
4.0L (241.0 CID, 3,954.0 CC), DOHC, 6CYL, 24VALVE, 95.50mm (3.760"), VQ40DE											
GASOLINE ENGINE	SWN30131-0	95.50	TOP: 1.200	x	3.450	BF	STEEL	CHROME	11-878-0	95.50 TL: 55.10 PL: 58.00	CHK. DIA 6.00
	SWN30131-1	95.75			0.136				11-878-1	95.75 CH: 31.60 PD: 21.99	
	SWN30131-2	96.00	2ND: 1.200	x	4.100	T1	CAST IRON	PHOSPHATE	11-878-2	96.00 DIST1: -3.00 HEAD: AH	
	SWN30131-3	96.25			0.161				11-878-3	96.25 DIST2: SKIRT: MS	
	SWN30131-4	96.50	OIL: 2.500	x	2.750	NIFF-S	STEEL	CHROME	11-878-4	96.50 DIST3:	
	REFERENCE #: 12033-8J100		TOP		2ND		OIL		REFERENCE #: 12010-EA200 12010-EA20B		
4.0L (241.0 CID, 3,954.0 CC), DOHC, 6CYL, 24VALVE, 95.50mm (3.760"), VQ40DE											
GASOLINE ENGINE	SWN30191-0	95.50	TOP: 1.200	x	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.		
	SWN30191-1	95.75			0.122						
	SWN30191-2	96.00	2ND: 1.200	x	3.800	TUC	CAST IRON	CHROME			
	SWN30191-3	96.25			0.150						
	SWN30191-4	96.50	OIL: 2.500	x	2.850	NIFF-H	STEEL	NITRIDED			
	REFERENCE #: 12033-JP00A		TOP		2ND		OIL				

COMMERCIAL VEHICLE APPLICATIONS

NISSAN

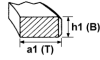


NISSAN

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
4.2L (254.0 CID, 4,169.0 CC), OHV, 6CYL, 96.00mm (3.780"), TB42																
GASOLINE ENGINE	SWN30122-0	96.00	TOP:	2.000	x	3.300	BF	STEEL	NITRIDED	11-3299-0	96.00	TL:	55.40	PL:	59.00	CHK. DIA 10.00
	SWN30122-1	96.25		0.079	x	0.130				11-3299-1	96.25	CH:	33.50	PD:	24.02	
	SWN30122-2	96.50	2ND:	2.000	x	4.200	T1	CAST IRON	PHOSPHATE	11-3299-2	96.50	DIST1:	2.00	HEAD:	NONE	
	SWN30122-3	96.75		0.079	x	0.165				11-3299-3	96.75	DIST2:		SKIRT:	MS	
	SWN30122-4	97.00	OIL:	4.000	x	3.250	NIFF-S	STEEL	NITRIDED	11-3299-4	97.00	DIST3:				
	REFERENCE #: 12033-03J00		TOP	2ND	OIL					REFERENCE #: 12010-03J61						
5.6L (339.0 CID, 5,552.0 CC), DOHC, 8CYL, 32VALVE, 98.00mm (3.858"), VK56DE																
GASOLINE ENGINE	SWN30149-0	98.00	TOP:	1.500	x	3.450	BF	STEEL	CHROME	11-879-0	98.00	TL:	52.00	PL:	59.60	CHK. DIA 6.00
	SWN30149-1	98.25		0.059	x	0.136				11-879-1	98.25	CH:	31.60	PD:	22.00	
	SWN30149-2	98.50	2ND:	1.500	x	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	HEAD:	AH	
	SWN30149-3	98.75		0.059	x	0.169				11-879-3	98.75	DIST2:		SKIRT:	MS	
	SWN30149-4	99.00	OIL:	2.500	x	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:				
	REFERENCE #: 12033-7S001 12033-EZ00A		TOP	2ND	OIL					REFERENCE #: A2010-7S000						

COMMERCIAL VEHICLE APPLICATIONS

TOYOTA

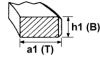


TOYOTA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
1.3L (82.0 CID, 1,345.0 CC), OHV, 4CYL, 76.60mm (3.016"), 3P											
GASOLINE ENGINE	SWT10009-0	76.60	TOP: 2.000	x	3.500	T1	CAST IRON	CHROME	11-244-0	76.60 TL: 84.00 PL: 65.00	CHK. DIA 13.50
	SWT10009-1	76.85	0.079		0.138				11-244-1	76.85 CH: 41.00 PD: 20.00	
	SWT10009-2	77.10	2ND: 2.000	x	3.500	T1	CAST IRON	PHOSPHATE	11-244-2	77.10 DIST1: HEAD: NONE	
	SWT10009-3	77.35	0.079		0.138				11-244-3	77.35 DIST2: SKIRT: NONE	
	SWT10009-4	77.60	OIL: 4.000	x	3.300	NIFF-S	STEEL	CHROME	11-244-4	77.60 DIST3:	
REFERENCE #: 13011-23030	TOP 2ND OIL						REFERENCE #: 13101-23010 13101-23011				
1.3L (82.0 CID, 1,345.0 CC), OHV, 4CYL, 76.60mm (3.016"), 4P											
GASOLINE ENGINE	SWT10009-0	76.60	TOP: 2.000	x	3.500	T1	CAST IRON	CHROME	11-245-0	76.60 TL: 84.00 PL: 65.00	CHK. DIA 13.50
	SWT10009-1	76.85	0.079		0.138				11-245-1	76.85 CH: 41.00 PD: 20.00	
	SWT10009-2	77.10	2ND: 2.000	x	3.500	T1	CAST IRON	PHOSPHATE	11-245-2	77.10 DIST1: HEAD: NONE	
	SWT10009-3	77.35	0.079		0.138				11-245-3	77.35 DIST2: SKIRT: NONE	
	SWT10009-4	77.60	OIL: 4.000	x	3.300	NIFF-S	STEEL	CHROME	11-245-4	77.60 DIST3:	
REFERENCE #: 13011-23030	TOP 2ND OIL						REFERENCE #: 13101-78001 13101-96001				
1.5L (91.0 CID, 1,486.0 CC), OHV, 4CYL, 80.50mm (3.169"), 5K											
GASOLINE ENGINE	SWT10099-0	80.50	TOP: 1.500	x	3.100	BF	STEEL	NITRIDED	11-3729-0	80.50 TL: 80.50 PL: 61.00	CHK. DIA 13.50
	SWT10099-1	80.75	0.059		0.122				11-3729-1	80.75 CH: 36.00 PD: 18.00	
	SWT10099-2	81.00	1.500	x	3.650	T1	CAST IRON	PHOSPHATE	11-3729-2	81.00 DIST1: HEAD: NONE	
	SWT10099-3	81.25	0.059		0.144				11-3729-3	81.25 DIST2: SKIRT: NONE	
	SWT10099-4	81.50	OIL: 4.000	x	3.250	NIFF-S	STEEL	NITRIDED	11-3729-4	81.50 DIST3:	
REFERENCE #: 13011-13040 13011-13050 13011-13090	TOP 2ND OIL						REFERENCE #: 13101-13040				
1.5L (91.0 CID, 1,490.0 CC), OHV, 4CYL, 78.00mm (3.071"), 2R											
GASOLINE ENGINE	SWT10014-0	78.00	TOP: 2.000	x	3.700	T1	CAST IRON	CHROME	11-243-0	78.00 TL: 78.00 PL: 75.00	CHK. DIA 0.00
	SWT10014-1	78.25	0.079		0.146				11-243-1	78.25 CH: 39.00 PD: 22.00	
	SWT10014-2	78.50	2ND: 2.500	x	3.600	TUC	CAST IRON	CHROME	11-243-2	78.50 DIST1: HEAD: NONE	
	SWT10014-3	78.75	0.098		0.142				11-243-3	78.75 DIST2: SKIRT: NONE	
	SWT10014-4	79.00	OIL: 4.000	x	3.050	NIFF-S	STEEL	CHROME	11-243-4	79.00 DIST3:	
REFERENCE #: 13011-31010 13011-31030 13011-31040	TOP 2ND OIL						REFERENCE #: 13101-31010 13101-31011				
1.9L (119.0 CID, 1,944.0 CC), OHV, 4CYL, 88.00mm (3.465"), 5R											
GASOLINE ENGINE	SWT10069-0	88.00	TOP: 2.000	x	3.700	T1	CAST IRON	CHROME	11-246-0	88.00 TL: 85.40 PL: 75.00	CHK. DIA 0.00
	SWT10069-1	88.25	0.079		0.146				11-246-1	88.25 CH: 39.00 PD: 22.00	
	SWT10069-2	88.50	2ND: 2.500	x	3.600	TUC	CAST IRON	CHROME	11-246-2	88.50 DIST1: HEAD: NONE	
	SWT10069-3	88.75	0.098		0.142				11-246-3	88.75 DIST2: SKIRT: NONE	
	SWT10069-4	89.00	OIL: 4.000	x	3.050	NIFF-S	STEEL	CHROME	11-246-4	89.00 DIST3:	
REFERENCE #: 13011-44043	TOP 2ND OIL						REFERENCE #: 13101-44015 13101-44016				
2.2L (137.0 CID, 2,237.0 CC), OHV, 4CYL, 8VALVE, 91.00mm (3.583"), 4Y											
GASOLINE ENGINE	SWT10111-0	91.00	TOP: 1.500	x	3.250	BF-IB	STEEL	CHROME	11-637-0	91.00 TL: 65.00 PL: 66.00	CHK. DIA 25.00
	SWT10111-1	91.25	0.059		0.128				11-637-1	91.25 CH: 35.00 PD: 22.00	
	SWT10111-2	91.50	2ND: 1.500	x	3.950	TUC	CAST IRON	PHOSPHATE	11-637-2	91.50 DIST1: HEAD: NONE	
	SWT10111-3	91.75	0.059		0.156				11-637-3	91.75 DIST2: SKIRT: NONE	
	SWT10111-4	92.00	OIL: 4.000	x	3.100	NIFF-S	STEEL	CHROME	11-637-4	92.00 DIST3:	
REFERENCE #: 13011-73020 13011-73030 13011-73040	TOP 2ND OIL						REFERENCE #: 13101-73030				

COMMERCIAL VEHICLE APPLICATIONS

TOYOTA

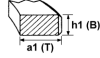


TOYOTA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
2.5L (151.0 CID, 2,481.0 CC), 4CYL, 88.00mm (3.465"), 2J										
DIESEL ENGINE	SDT10050-0	101.60	TOP:	2.540	x	3.800	BF-K3	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10050-1	101.85		0.100	x	0.150				
	SDT10050-2	102.10	2ND:	2.500	x	3.800	T1	CAST IRON	CHROME	
	SDT10050-3	102.35		0.098	x	0.150				
	SDT10050-4	102.60	OIL:	4.000	x	4.200	E-BC3	CAST IRON	CHROME	
	REFERENCE #: 13011-48022 13011-48023 13011-48030		TOP			2ND			OIL	
2.5L (152.0 CID, 2,494.0 CC), 4CYL, 92.00mm (3.622"), 2KD										
DIESEL ENGINE	SDT10180-0	92.00	TOP:	2.000	x	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10180-1	92.25		0.079	x	0.114				
	SDT10180-2	92.50	2ND:	1.500	x	2.900	T1	STEEL	NITRIDED	
	SDT10180-3	92.75		0.059	x	0.114				
	SDT10180-4	93.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-30030 13011-30031 13011-30060		TOP			2ND			OIL	
2.7L (164.0 CID, 2,693.0 CC), DOHC, 4CYL, 16VALVE, 95.00mm (3.740"), 2TR-FE										
GASOLINE ENGINE	SDT10193-0	95.00	TOP:	1.200	x	2.900	BF	STEEL	NITRIDED	11-880-0 95.00 TL: 59.30 PL: 62.00 11-880-1 95.25 CH: 39.30 PD: 22.00 11-880-2 95.50 DIST1: -8.60 HEAD: AH 11-880-3 95.75 DIST2: -4.50 SKIRT: MS 11-880-4 96.00 DIST3: -2.22 CHK. DIA 10.00
	SDT10193-1	95.25		0.047	x	0.114				
	SDT10193-2	95.50	2ND:	1.200	x	3.400	TUC	CAST IRON	PHOSPHATE	
	SDT10193-3	95.75		0.047	x	0.134				
	SDT10193-4	96.00	OIL:	2.000	x	2.750	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-75110		TOP			2ND			OIL	REFERENCE #: 13101-75130
3.0L (182.0 CID, 2,982.0 CC), 4CYL, 96.00mm (3.780"), 1KD										
DIESEL ENGINE	SDT10175-0	96.00	TOP:	2.000	x	3.350	BF-K2	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10175-1	96.25		0.079	x	0.132				
	SDT10175-2	96.50	2ND:	1.500	x	3.300	T1	STEEL	NITRIDED	
	SDT10175-3	96.75		0.059	x	0.130				
	SDT10175-4	97.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-30020 13011-30021 13011-30022		TOP			2ND			OIL	
3.0L (182.0 CID, 2,985.0 CC), 4CYL, 99.50mm (3.917"), 5L										
DIESEL ENGINE	SDT10167-0	99.50	TOP:	2.000	x	3.600	BF-K2	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10167-1	99.75		0.079	x	0.142				
	SDT10167-2	100.00	2ND:	1.500	x	3.700	TUC	STEEL	NITRIDED	
	SDT10167-3	100.25		0.059	x	0.146				
	SDT10167-4	100.50	OIL:	3.000	x	4.350	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-54130		TOP			2ND			OIL	
3.9L (237.0 CID, 3,878.0 CC), 6CYL, 90.00mm (3.543"), F										
GASOLINE ENGINE	SWT10026-0	90.00	TOP:	3.000	x	3.700	T1	CAST IRON	CHROME	11-171-0 90.00 TL: 95.50 PL: 80.00 11-171-1 90.25 CH: 47.50 PD: 25.15 11-171-2 90.50 DIST1: HEAD: NONE 11-171-3 90.75 DIST2: SKIRT: NONE 11-171-4 91.00 DIST3: NONE CHK. DIA 0.00
	SWT10026-1	90.25		0.118	x	0.146				
	SWT10026-2	90.50	2ND:	3.000	x	3.700	T1	CAST IRON	PHOSPHATE	
	SWT10026-3	90.75		0.118	x	0.146				
	SWT10026-4	91.00	OIL1:	4.000	x	3.900	NIFF-S	STEEL	CHROME	
			OIL2:	4.000	x	3.700	C1	CAST IRON	PHOSPHATE	
	REFERENCE #: 13011-69021		TOP			2ND		OIL1	OIL2	REFERENCE #: 13101-60011

COMMERCIAL VEHICLE APPLICATIONS

TOYOTA

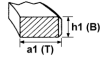


TOYOTA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
3.0L (182.0 CID, 2,982.0 CC), 4CYL, 96.00mm (3.780"), 1KD										
GASOLINE ENGINE	SWT10044-0	96.00	TOP:	2.000	x	4.000	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT10044-1	96.25		0.079	x	0.157				
	SWT10044-2	96.50	2ND:	2.500	x	4.000	T1	CAST IRON	PHOSPHATE	
	SWT10044-3	96.75		0.098	x	0.157				
	SWT10044-4	97.00	OIL1:	4.000	x	3.900	NIFF-S	STEEL	CHROME	
		OIL2:	4.000	x	4.000	C1	CAST IRON	PHOSPHATE		
	REFERENCE #: 13011-60040		TOP	2ND	OIL1	OIL2				
4.0L (243.0 CID, 3,980.0 CC), 6CYL, 91.00mm (3.583"), 2H										
DIESEL ENGINE	SDT10075-0	91.00	TOP:	2.540	x	4.000	BF-K3	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10075-1	91.25		0.100	x	0.157				
	SDT10075-2	91.50	2ND:	2.500	x	4.000	T1	CAST IRON	CHROME	
	SDT10075-3	91.75		0.098	x	0.157				
	SDT10075-4	92.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-68010 13011-68020 13011-96601		TOP	2ND	OIL					
4.2L (258.0 CID, 4,230.0 CC), 4CYL, 94.00mm (3.701"), 2F										
GASOLINE ENGINE	SWT10049-0	94.00	TOP:	2.000	x	4.200	BF	CAST IRON	CHROME	11-174-0 94.00 TL: 95.50 PL: 72.00 11-174-1 94.25 CH: 47.22 PD: 25.15 11-174-2 94.50 DIST1: 6.50 HEAD: NONE 11-174-3 94.75 DIST2: SKIRT: NONE 11-174-4 95.00 DIST3: 15.00
	SWT10049-1	94.25		0.079	x	0.165				
	SWT10049-2	94.50	2ND:	2.500	x	4.200	T1	CAST IRON	CHROME	
	SWT10049-3	94.75		0.098	x	0.165				
	SWT10049-4	95.00	OIL:	4.000	x	3.850	NIFF-S	CAST IRON	CHROME	
	REFERENCE #: 13011-61010		TOP	2ND	OIL					
	REFERENCE #: 13101-61020									
4.2L (258.0 CID, 4,230.0 CC), 4CYL, 94.00mm (3.701"), 2F										
DAKOTA / 98-03	SWT10049-0	94.00	TOP:	2.000	x	4.200	BF	CAST IRON	CHROME	11-175-0 94.00 TL: 95.80 PL: 72.00 11-175-1 94.25 CH: 47.58 PD: 25.15 11-175-2 94.50 DIST1: 0.30 HEAD: NONE 11-175-3 94.75 DIST2: SKIRT: NONE 11-175-4 95.00 DIST3: 15.00
	SWT10049-1	94.25		0.079	x	0.165				
	SWT10049-2	94.50	2ND:	2.500	x	4.200	T1	CAST IRON	CHROME	
	SWT10049-3	94.75		0.098	x	0.165				
	SWT10049-4	95.00	OIL:	4.000	x	3.850	NIFF-S	CAST IRON	CHROME	
	REFERENCE #: 13011-61010		TOP	2ND	OIL					
	REFERENCE #: 13101-61010 13101-61011									

COMMERCIAL VEHICLE APPLICATIONS

UD TRUCKS



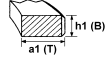
UD TRUCKS

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), MAGNUM 5.9 / 1994-2003										
DIESEL ENGINE	SDH20108-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDC20108-1	112.25		0.098	x	0.163				
	SDC20108-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDC20108-3	112.75		0.079	x	0.169				
	SDC20108-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-E0350		TOP		2ND		OIL			
7.7L (469.0 CID, 7,684.0 CC), 6CYL, 112.0mm (4.409"), J08E										
DIESEL ENGINE	SDH30102-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30102-1	112.25		0.098	x	0.163				
	SDH30102-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH30102-3	112.75		0.079	x	0.169				
	SDH30102-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
	REFERENCE #: 13011-4040A		TOP		2ND		OIL			

ADDITIONS

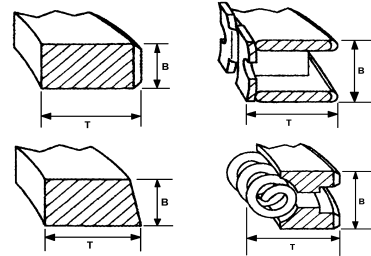
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PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA

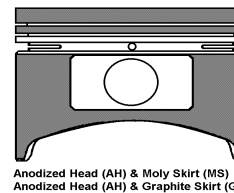
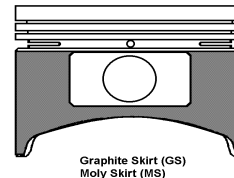
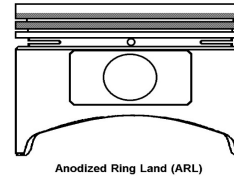
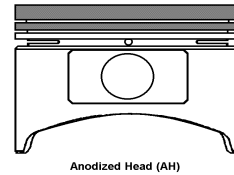


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO					
GENERAL ENGINE INFORMATION															
1	2	3	TOP:	5	7	9	10	11	27	28	TL:	30	PL:	35	CHK. DIA
			6	8	CH:						31	PD:	36		
			2ND:	12	14	16	17	18			DIST1:	32	HEAD:	37	39
			13	15	DIST2:						33	SKIRT:	38		
			OIL:	19	21	23	24	25			DIST3:	34			41
			20	22											
	REFERENCE #:		26						REFERENCE #:	29	40				


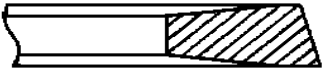

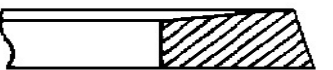









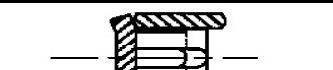

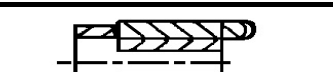
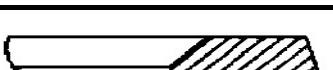

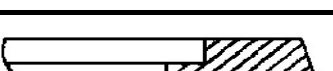


- 1 : ENGINE by FUEL TYPE
- 2 : PISTON RING PART NUMBER
- 3 : DIAMETER (mm)
- 4 : REFERENCE NUMBER for PISTON RINGS
- 5 : TOP RING WIDTH (mm)
- 6 : TOP RING WIDTH (inch)
- 7 : TOP RING RADIAL WALL THICKNESS (mm)
- 8 : TOP RING RADIAL WALL THICKNESS (inch)
- 9 : TOP RING SHAPE CODE
- 10 : TOP RING MATERIAL
- 11 : TOP RING SURFACE TREATMENT
- 12 : 2ND RING WIDTH (mm)
- 13 : 2ND RING WIDTH (inch)
- 14 : 2ND RING RADIAL WALL THICKNESS (mm)
- 15 : 2ND RING RADIAL WALL THICKNESS (inch)
- 16 : 2ND RING SHAPE CODE
- 17 : 2ND RING MATERIAL
- 18 : 2ND RING SURFACE TREATMENT
- 19 : OIL RING WIDTH (mm)
- 20 : OIL RING WIDTH (inch)
- 21 : OIL RING RADIAL WALL THICKNESS (mm)
- 22 : OIL RING RADIAL WALL THICKNESS (inch)
- 23 : OIL RING SHAPE CODE
- 24 : OIL RING MATERIAL
- 25 : OIL RING SURFACE TREATMENT
- 26 : PISTON RING SHAPE by GRAPHIC
- 27 : PISTON PART NUMBER
- 28 : DIAMETER (mm)
- 29 : REFERENCE NUMBER for PISTONS
- 30 : PISTON TOTAL LENGTH (mm)
- 31 : PISTON COMPRESSION HEIGHT (mm)
- 32 : (- or +) DISH or DOME (mm)
- 33 : (- or +) DISH or DOME (mm)
- 34 : (- or +) DISH or DOME (mm)
- 35 : PISTON PIN LENGTH (mm)
- 36 : PISTON PIN DIAMETER (mm)
- 37 : HEAD COATING
- 38 : SKIRT COATING
- 39 : MEASUREMENT POINT for CYLINDER CLEARANCE (mm)
from BOTTOM of SKIRT
- 40 : PISTON SHAPE by GRAPHIC
- 41 : CIRCLIP or NONE






B: WIDTH
T: RADIAL WALL THICKNESS



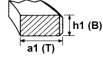
PISTON RING SHAPE

	BF Barrel Face		T1-K1 Taper Face Double Keystone
	BF-IB Barrel Face Inner Bevel		T1-K2 Taper Face Single Keystone
	BF-K1 Barrel Face Double Keystone		TUC Taper Under Cut
	BF-K1-IB Barrel Face Double Keystone Inner Bevel		TUC-RB Taper Under Cut Reverse Bevel
	BF-K2 Barrel Face Single Keystone		TUH Taper Under Hook
	BF-K3 Barrel Face Single Keystone Reverse Bevel		ES-TUC Effective Seal Taper Under Cut
	B1-TUC Bevel Comp Taper Under Cut		NIFF-S Nifflex-S
	T1 Taper Face		NIFF-H Nifflex-H
	T1-IB Taper Face Inner Bevel		BC1, C1 Single Piece Dieselx
	T1-IC Taper Face Inner Cut		E-BC3, E-BC16 Two Pieces Dieselx
	T1-RB Taper Face Reverse Bevel		

JOINT SHAPE

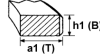
	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		

PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
DAEWOO: 1.0L (61.0 CID, 995.0 CC), SOHC, 4CYL, 8VALVE, 68.50mm (2.697"), S-TEC II													
GASOLINE ENGINE	SWD20011-0	68.50	TOP: 1.200	x	2.650	BF-IB	STEEL	CHROME	11-8002-0	68.50	TL: 52.30	PL: 53.00	CHK. DIA 5.00
	SWD20011-1	68.75							CH: 25.30	PD: 17.00			
	SWD20011-2	69.00	2ND: 1.200	x	2.800	T1	CAST IRON	PHOSPHATE	11-8002-2	69.00	DIST1: -3.20	HEAD: NONE	
	SWD20011-3	69.25							DIST2: 69.25	SKIRT: NONE			
	SWD20011-4	69.50	OIL: 2.500	x	2.800	NIFF-S	STEEL	CHROME	11-8002-3	69.25	DIST3: 69.50		
			0.098	x	0.110				11-8002-4	69.50			
	REFERENCE #: 96325192		TOP	2ND	OIL				REFERENCE #: 96325189 96325191 96567383				
HYUNDAI: 1.0L (61.0 CID, 999.0 CC), SOHC, 4CYL, 66.00mm (2.598"), G4HC													
GASOLINE ENGINE	SWG30018-0	66.00	TOP: 1.200	x	2.250	BF	STEEL	CHROME	11-8504-0	66.00	TL: 48.00	PL: 60.00	CHK. DIA 5.00
	SWG30018-1	66.25							CH: 25.00	PD: 17.00			
	SWG30018-2	66.50	2ND: 1.200	x	2.900	T1	CAST IRON	PHOSPHATE	11-8504-2	66.50	DIST1: -4.00	HEAD: NONE	
	SWG30018-3	66.75							DIST2: 66.75	SKIRT: NONE			
	SWG30018-4	67.00	OIL: 2.500	x	2.750	NIFF-S	STEEL	CHROME	11-8504-3	66.75	DIST3: 67.00		
			0.098	x	0.108				11-8504-4	67.00			
	REFERENCE #: 23040-02700		TOP	2ND	OIL				REFERENCE #: 23410-02700 23410-02710 23410-02720				
MITSUBISHI: 2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), G63B													
GASOLINE ENGINE	SWM31013-0	85.00	TOP: 2.000	x	3.100	BF	STEEL	NITRIDED	11-3042-0	85.00	TL: 74.00	PL: 72.00	CHK. DIA 22.00
	SWM31013-1	85.25							CH: 35.20	PD: 21.00			
	SWM31013-2	85.50	2ND: 2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-3042-2	85.50	DIST1: 2.00	HEAD: NONE	
	SWM31013-3	85.75							DIST2: 85.75	SKIRT: NONE			
	SWM31013-4	86.00	OIL: 4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3042-3	85.75	DIST3: 86.00		
			0.157	x	0.128				11-3042-4	86.00			
	REFERENCE #: MD040640 MD040840 MD042580		TOP	2ND	OIL				REFERENCE #: MD040821				
MITSUBISHI: 2.4L (143.0 CID, 3,537.0 CC), 4CYL, 91.10mm (3.587"), 4D55T													
DIESEL ENGINE	SDM31055-0	91.10	TOP: 2.500	x	3.500	BF	DUCTILE IRON	CHROME	11-3048-0	91.10	TL: 88.70	PL: 75.00	CHK. DIA 28.00
	SDM31055-1	91.35							CH: 48.70	PD: 29.00			
	SDM31055-2	91.60	2ND: 2.500	x	3.400	T1	DUCTILE IRON	CHROME	11-3048-2	91.60	DIST1: -2.30	HEAD: NONE	
	SDM31055-3	91.85							DIST2: 91.85	SKIRT: NONE			
	SDM31055-4	92.10	OIL: 4.500	x	3.900	E-BC16	STEEL	CHROME	11-3048-3	91.85	DIST3: 92.10		
			0.177	x	0.154				11-3048-4	92.10			
	REFERENCE #: MD050395		TOP	2ND	OIL				REFERENCE #: MD050011				
NISSAN: 1.5L (91.0 CID, 1,487.0 CC), SOHC, 4CYL, 8VALVE, 76.00mm (2.992"), A15													
GASOLINE ENGINE	SWN30052-0	76.00	TOP: 1.20	x	3.05	BF	STEEL	CHROME	11-3208-0	76.00	TL: 65.00	PL: 63.00	CHK. DIA 10.00
	SWN30052-1	76.25							CH: 30.00	PD: 19.00			
	SWN30052-2	76.50	2ND: 2.00	x	3.40	TUC	CAST IRON	PHOSPHATE	11-3208-2	76.50	DIST1: -2.80	HEAD: NONE	
	SWN30052-3	76.75							DIST2: 76.75	SKIRT: NONE			
	SWN30052-4	77.00	OIL: 4.00	x	3.25	NIFF-S	STEEL	CHROME	11-3208-3	76.75	DIST3: 77.00		
			0.157	x	0.128				11-3208-4	77.00			
	REFERENCE #: 12033-H7680 12033-H9800 12033-H9810		TOP	2ND	OIL				REFERENCE #: 12010-H9704				
NISSAN: 2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22													
DIESEL ENGINE	SJN31003-0	83.00	TOP: 2.500	x	3.500	BF	CAST IRON	CHROME	11-3249-0	83.00	TL: 90.00	PL: 71.00	CHK. DIA 16.00
	SJN31003-1	83.25							CH: 48.00	PD: 26.00			
	SJN31003-2	83.50	2ND: 2.000	x	3.400	T1	CAST IRON	CHROME	11-3249-2	83.50	DIST1: -0.60	HEAD: NONE	
	SJN31003-3	83.75							DIST2: 83.75	SKIRT: NONE			
	SJN31003-4	84.00	3RD: 2.000	x	3.400	T1	CAST IRON	CHROME	11-3249-3	83.75	DIST3: 84.00		
			0.079	x	0.134				11-3249-4	77.00			
		OIL1: 4.500	x	3.900	E-BC3	CAST IRON	CHROME	REFERENCE #: 12010-J5310 12010-Y1411 12010-Y5210					
		0.177	x	0.154				OIL2: 4.500	x	3.400			
	REFERENCE #: 12033-37500 12033-76201		TOP	2ND	3RD	OIL1	OIL2						

PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
NISSAN: 2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22											
DIESEL ENGINE	SDN31023-0	83.00	TOP: 2.500	x	3.700	BF	DUCTILE IRON	CHROME	11-3048-0	83.00 TL: 90.00 PL: 71.00	CHK. DIA 15.00
	SDN31023-1	83.25	0.098		0.146				11-3048-1	83.25 CH: 48.00 PD: 26.00	
	SDN31023-2	83.50	2ND: 2.000	x	3.700	T1-IC	DUCTILE IRON	CHROME	11-3048-2	83.50 DIST1: -0.60 HEAD: NONE	
	SDN31023-3	83.75	0.079		0.146				11-3048-3	83.75 DIST2: -1.70 SKIRT: NONE	
	SDN31023-4	84.00	OIL: 4.500	x	4.200	E-BC3	CAST IRON	CHROME	11-3048-4	84.00 DIST3:	
				0.177		0.165					
	REFERENCE #: 12033-L2004 12033-L2005 12033-L2006		TOP		2ND		OIL		REFERENCE #: 12010-09W10 12010-T6202 12010-T6272		
NISSAN: 2.7L (163.0 CID, 2,664.0 CC), 4CYL, 96.00mm (3.780"), TD27											
DIESEL ENGINE	SDN31035-0	96.00	TOP: 2.500	x	3.650	BF	STEEL	CHROME	11-3301-0	96.00 TL: 87.00 PL: 80.00	CHK. DIA 33.00
	SDN31035-1	96.25	0.098		0.144				11-3301-1	96.25 CH: 50.20 PD: 28.00	
	SDN31035-2	96.50	2ND: 2.000	x	4.000	T1-IC	DUCTILE IRON	CHROME	11-3301-2	96.50 DIST1: -1.50 HEAD: NONE	
	SDN31035-3	96.75	0.079		0.157				11-3301-3	96.75 DIST2:	
	SDN31035-4	97.00	OIL: 4.000	x	4.350	E-BC3	STEEL	NITRIDED	11-3301-4	97.00 DIST3:	
				0.157		0.171					
	REFERENCE #: 12033-43G11 12033-43G10		TOP		2ND		OIL		REFERENCE #: 12010-10T02		
TOYOTA: 1.8L (111.0 CID, 1,812.0 CC), 4CYL, 86.00mm (3.386"), 2Y											
GASOLINE ENGINE	SWT10090-0	86.00	TOP: 1.500	x	3.450	BF	STEEL	CHROME	11-3759-0	86.00 TL: 70.00 PL: 66.00	CHK. DIA 26.00
	SWT10090-1	86.25	0.059		0.136				11-3759-1	86.25 CH: 35.00 PD: 22.00	
	SWT10090-2	86.50	2ND: 1.500	x	4.000	T1	CAST IRON	CHROME	11-3759-2	86.50 DIST1: -2.20 HEAD: NONE	
	SWT10090-3	86.75	0.059		0.157				11-3759-3	86.75 DIST2:	
	SWT10090-4	87.00	OIL: 4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3759-4	87.00 DIST3:	
				0.157		0.128					
	REFERENCE #: 13011-71010 13011-71020 13011-71030		TOP		2ND		OIL		REFERENCE #: 13101-72010		
TOYOTA: 4.0L (241.0 CID, 3,955.0 CC), 6CYL, 94.00mm (3.701"), 3F											
GASOLINE ENGINE	SWT10106-0	94.00	TOP: 1.500	x	3.500	BF	STEEL	NITRIDED	11-3794-0	94.00 TL: 79.50 PL: 75.00	CHK. DIA 26.00
	SWT10106-1	94.25	0.059		0.138				11-3794-1	94.25 CH: 37.50 PD: 22.00	
	SWT10106-2	94.50	2ND: 1.500	x	4.000	T1	CAST IRON	PHOSPHATE	11-3794-2	94.50 DIST1: HEAD: NONE	
	SWT10106-3	94.75	0.059		0.157				11-3794-3	94.75 DIST2: SKIRT: NONE	
	SWT10106-4	95.00	OIL: 4.000	x	3.300	NIFF-S	STEEL	CHROME	11-3794-4	95.00 DIST3:	
				0.157		0.130					
	REFERENCE #: 13011-61060		TOP		2ND		OIL		REFERENCE #: 13101-61030		
TOYOTA: 1.5L (91.0 CID, 1,486.0 CC), OHV, 4CYL, 80.50mm (3.169"), 5K											
GASOLINE ENGINE	SWT10099-0	80.50	TOP: 1.50	x	3.10	BF	STEEL	NITRIDED	11-3729-0	80.50 TL: 80.50 PL: 61.00	CHK. DIA 13.50
	SWT10099-1	80.75	0.059		0.122				11-3729-1	80.75 CH: 36.00 PD: 18.00	
	SWT10099-2	81.00	2ND: 1.50	x	3.65	T1	CAST IRON	PHOSPHATE	11-3729-2	81.00 DIST1: -3.00 HEAD: NONE	
	SWT10099-3	81.25	0.059		0.144				11-3729-3	81.25 DIST2: SKIRT: NONE	
	SWT10099-4	81.50	OIL: 4.00	x	3.25	NIFF-S	STEEL	NITRIDED	11-3729-4	81.50 DIST3:	
				0.157		0.128					
	REFERENCE #: 13011-13040 13011-13050 13011-13090		TOP		2ND		OIL		REFERENCE #: 13101-13040		
TOYOTA: 3.2L (193.0 CID, 3,168.0 CC), 4CYL, 98.00mm (3.858"), 2B											
DIESEL ENGINE	SJT10084-0	98.00	TOP: 2.540	x	4.100	BF-K3	DUCTILE IRON	CHROME	11-3807-0	98.00 TL: 101.30 PL: 79.00	CHK. DIA 18.00
	SJT10084-1	98.25	0.100		0.161				11-3807-1	98.25 CH: 52.30 PD: 29.00	
	SJT10084-2	98.50	2ND: 2.500	x	4.300	T1	CAST IRON	CHROME	11-3807-2	98.50 DIST1: -2.80 HEAD: NONE	
	SJT10084-3	98.75	0.098		0.169				11-3807-3	98.75 DIST2: SKIRT: NONE	
	SJT10084-4	99.00	OIL: 4.500	x	4.400	E-BC3	CAST IRON	CHROME	11-3807-4	99.00 DIST3:	
				0.177		0.173					
	REFERENCE #: 13011-57010		TOP		2ND		OIL		REFERENCE #: 13101-57011		

PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO			
TOYOTA: 3.2L (182.0 CID, 2,977.0 CC), 4CYL, 95.00mm (3.740"), B													
DIESEL ENGINE	SJT10070-0	95.00	2.540	x	4.100	BF-K3	DUCTILE IRON	CHROME	11-3799-0	95.00	TL: 101.30	PL: 79.00	CHK. DIA 33.00
	SJT10070-1	95.25	0.100	x	0.161				11-3799-1	95.25	CH: 52.30	PD: 29.00	
	SJT10070-2	95.50	2.500	x	4.300	T1	CAST IRON	CHROME	11-3799-2	95.50	DIST1: -2.50	HEAD: NONE	
	SJT10070-3	95.75	0.098	x	0.169				11-3799-3	95.75	DIST2: -3.60	SKIRT: NONE	
	SJT10070-4	96.00	4.500	x	4.400	E-BC3	CAST IRON	CHROME	11-3799-4	96.00	DIST3:		
	REFERENCE #: 13011-56012 13011-56013 13011-56021		TOP	2ND	OIL				REFERENCE #: 13101-56020 13101-56030				

