NPR of AMERICA, INC

1973 ~ 2017

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

PISTON, RINGS - U.S. APPLICATIONS

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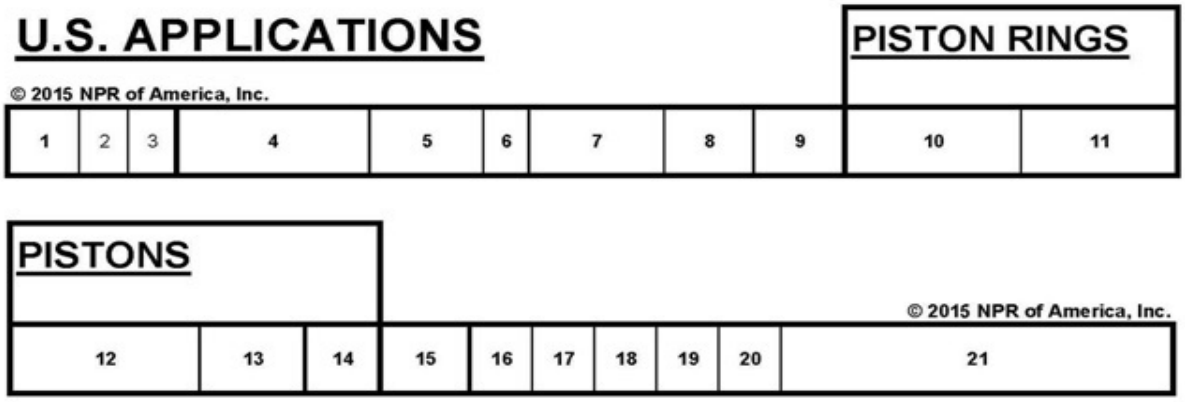
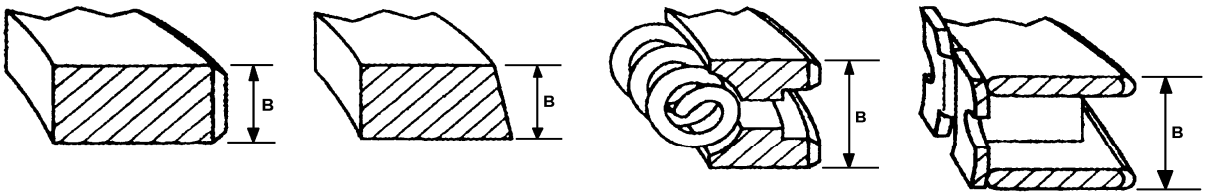


Piston Ring B: Width



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

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

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

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

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ACURA										
3664	3.7L	224	**RL**	2009 - 2012	V6	J37A2	F.I.	S.O.H.C.	13011-RKG-A01	**SDH30469**
3664	3.7L	224	**MDX**	2010 - 2013	V6	J37A1	F.I.	S.O.H.C.	13011-RKG-E02	**SDH30469**
3664	3.7L	224	**TL**	2009 - 2015	V6	J37A4	F.I.	S.O.H.C.	13011-RKG-E02	**SDH30469**
3664	3.7L	224	**ZDX**	2010 - 2013	V6	J37A5	F.I.	S.O.H.C.	13011-RKG-E02	**SDH30469**
3664	3.7L	224	**MDX**	2007 - 2009	V6	J37A1	F.I.	S.O.H.C.	13011-RYE-A01	**SWH30468**
3937	3.9L	240	**NSX**	2015 - 2016	V8	HR10EG	F.I.	D.O.H.C.	-	**NA**
3937	3.9L	240	**NSX**	2015 - 2016	V8	HR10EG	F.I.	D.O.H.C.	-	**NA**
ACURA - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									ACURA
13010-RKG-000	**NA**		90.00	1.20	1.20		2.00		w/ VTECH, 24 VALVE
13010-RKG-E00	**NA**		90.00	1.20	1.20		2.00		w/ VTECH, 24 VALVE
13010-RKG-E00	**NA**		90.00	1.20	1.20		2.00		w/ VTECH, 24 VALVE
13010-RKG-E00	**NA**		90.00	1.20	1.20		2.00		w/ VTECH, 24 VALVE
13010-RYE-A00	**NA**		90.00	1.20	1.20		2.80		w/ VTECH, 24 VALVE
-	**NA**		93.00						FRONT, w/ VTECH, 32 VALVE
-	**NA**		93.00						REAR, w/ VTECH, 32 VALVE
									ACURA - END

U.S. APPLICATIONS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									AUDI
079 107 066 AS	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 AS	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 BB	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 BB	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 BC	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 BC	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 BC	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 BC	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 BF	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 32 VALVE
079 107 065 BF	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 32 VALVE
079 107 066 P	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 40 VALVE
079 107 065 P	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 40 VALVE
079 107 066 P	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 40 VALVE
079 107 065 P	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 40 VALVE
079 107 066 P	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 40 VALVE
079 107 065 P	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 40 VALVE
079 107 066 P	X		84.50	1.20	1.50		2.00		CYL #1,2,3,4, 40 VALVE
079 107 065 P	X		84.50	1.20	1.50		2.00		CYL #5,6,7,8, 40 VALVE
									AUDI - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
1368	1.4L	83	**DART**	2013 - 2015	4	FIRE 1.4	F.I.	S.O.H.C.	68149737AB	**NA**
1410	1.4L	86	**CHAMP**	1979 - 1982	4	G12B	CARB	S.O.H.C.	MD031700	**SWM31027**
1410	1.4L	86	**COLT**	1979 - 1984	4	G12B	CARB	S.O.H.C.	MD031700	**SWM31027**
1468	1.5L	90	**COLT**	1985 - 1986	4	G15B	CARB	S.O.H.C.	MD074725	**SWM31063**
1468	1.5L	90	**COLT**	1987 - 1990	4	G15B	CARB	S.O.H.C.	MD074725	**SWM31063**
1468	1.5L	90	**SUMMIT**	1989 - 1990	4	4G15	F.I.	S.O.H.C.	MD074725	**SWM31063**
1468	1.5L	90	**COLT**	1991 - 1994	4	4G15	F.I.	S.O.H.C.	MD180804	**SWM31076**
1468	1.5L	90	**SUMMIT**	1991 - 1995	4	4G15	F.I.	S.O.H.C.	MD180804	**SWM31076**
1468	1.5L	90	**SUMMIT**	1995 ONLY	4	4G15	F.I.	S.O.H.C.	MD180804	**SWM31076**
1468	1.5L	90	**SUMMIT**	1996 ONLY	4	4G15	F.I.	D.O.H.C.	MD180804	**SWM31076**
1597	1.6L	97	**ARROW**	1976 - 1977	4	G32B	CARB	S.O.H.C.	MD110632	**SWM31005**
1597	1.6L	97	**CHALLENGER**	1978 - 1980	4	G32B	CARB	S.O.H.C.	MD110632	**SWM31005**
1597	1.6L	97	**CHAMP**	1978 - 1982	4	G32B	CARB	S.O.H.C.	MD110632	**SWM31005**
1597	1.6L	97	**COLT**	1979 - 1984	4	G32B	CARB	S.O.H.C.	MD110632	**SWM31005**
1597	1.6L	97	**COLT**	1984 - 1986	4	G32B	F.I.	S.O.H.C.	MD012765	**SWM31043**
1597	1.6L	97	**COLT**	1987 - 1990	4	G32B	F.I.	S.O.H.C.	MD012765	**SWM31043**
1597	1.6L	97	**COLT**	1989 - 1990	4	4G61	F.I.	D.O.H.C.	MD133495	**SWM31049**
1597	1.6L	97	**SUMMIT**	1989 - 1990	4	4G61	F.I.	D.O.H.C.	MD133495	**SWM31049**
1715	1.7L	105	**OMNI**	1978 - 1983	4	VW 1.7	CARB	S.O.H.C.	4186268	**SWL01402**
1715	1.7L	105	**HORIZON**	1978 - 1984	4	VW 1.7	CARB	S.O.H.C.	4186268	**SWL01402**
1715	1.7L	105	**TC3**	1982 ONLY	4	VW 1.7	CARB	S.O.H.C.	4186268	**SWL01402**
1715	1.7L	105	**TURISMO**	1983 ONLY	4	VW 1.7	CARB	S.O.H.C.	4186268	**SWL01402**
1755	1.8L	107	**COLT**	1989 - 1990	4	4G37	F.I.	S.O.H.C.	MD040465	**SWM31041**
1755	1.8L	107	**LASER**	1989 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	**SWM31041**
1755	1.8L	107	**TALON**	1993 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	**SWM31041**
1798	1.8L	110	**CALIBER**	2006 - 2009	4	GEMA 1.8	F.I.	D.O.H.C.	5191418AB	**SWG30042**
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
MD040591	**11-027**	**276**	85.00	2.00	2.00		4.00		12 VALVE
MD040591	**11-027**	**276**	3.346	0.079	0.079		0.157		12 VALVE
MD040591	**11-027**	**276**							12 VALVE
MD100372	**11-539**	**291**	85.00	1.50	1.50		4.00		12 VALVE
MD100372	**11-539**	**291**	3.346	0.059	0.059		0.157		12 VALVE
MD129922	**11-540**	**291**	85.00	1.20	1.50		3.00		16 VALVE
MD129922	**11-540**	**291**	3.346	0.047	0.059		0.118		16 VALVE
MD129923	**11-546**	**292**	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD129232	**11-546**	**292**	3.346	0.047	0.059		0.118		w/ TURBO, 16 VALVE
MD190262	**11-718**	**312**	85.00	1.20	1.50		3.00		16 VALVE
MD190262	**11-718**	**312**	3.346	0.047	0.059		0.118		16 VALVE
MD308200	**11-719**	**312**	85.00	1.20	1.50		3.00		w/ TURBO, 16 VALVE
MD308200	**11-719**	**312**	3.346	0.047	0.059		0.118		w/ TURBO, 16 VALVE
MD307820	**11-758**	**321**	85.00	1.20	1.50		2.80		w/ TURBO, 16 VALVE
			3.346	0.047	0.059		0.110		
5191337AA	**11-919**	**354**	86.00	1.20	1.20		2.00		16 VALVE
5191337AA	**11-919**	**354**	3.386	0.047	0.047		0.079		16 VALVE
5191337AA	**11-919**	**354**							16 VALVE
68165765AA	**X**		88.00						16 VALVE
			3.465	0.000	0.000		0.000		
4186275	**X**		87.50	1.50	1.50		4.00		
4186275	**X**		3.445	0.059	0.059		0.157		
4186275	**X**								
4186275	**X**								
4271928	**X**		87.50	1.50	1.50		4.00		w/ TURBO
4271928	**X**		3.445	0.059	0.059		0.157		w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
4271928	**X**								w/ TURBO
					CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED				

U.S. APPLICATIONS

PISTON RINGS

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

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
4397634	X		87.50	1.50	1.50		4.00		w/ TURBO
4397634	X		3.445	0.059	0.059		0.157		w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4397634	X								w/ TURBO
4626119	X		87.50	1.50	1.50		4.00		Normally Aspirated
4626119	X		3.445	0.059	0.059		0.157		Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
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4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								Normally Aspirated
4626119	X								
4626119	X								Normally Aspirated
4797636	X		87.50	1.50	1.50		4.00		
			3.445	0.059	0.059		0.157		
					CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED				

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
2359	2.4L	144	**200**	2011 - 2014	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**AVENGER**	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**CALIBER**	2006 - 2012	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**COMPASS**	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**JOURNEY**	2009 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**PATRIOT**	2007 - 2015	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**SEBRING**	2007 - 2010	4	GEMA 2.4	F.I.	D.O.H.C.	5191424AA	**SWG30041**
2359	2.4L	144	**200**	2015 - 2016	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	**NA**
2359	2.4L	144	**CHEROKEE**	2014 - 2015	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	**NA**
2359	2.4L	144	**DART**	2013 - 2015	4	TIGERSHARK 2.4	F.I.	D.O.H.C.	68165801AA	**NA**
2360	2.4L	144	**CALIBER**	2007 - 2009	4	GEMA 2.4T	F.I.	D.O.H.C.	68032259AB	**NA**
2429	2.4L	148	**BREEZE**	1998 - 1999	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**CARAVAN**	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**CIRRUS**	2000 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**SEBRING**	1998 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**STRATUS**	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**VOYAGER**	1998 - 2000	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**Liberty**	2002 - 2004	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**PT CRUISER**	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**SEBRING**	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**STRATUS**	2001 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4897024AA	**SWC10004**
2429	2.4L	148	**BREEZE**	1997 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**CARAVAN**	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**CIRRUS**	1995 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**Grand Caraven**	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**Grand Voyager**	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**SEBRING**	1996 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**STRATUS**	1995 - 1997	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**CARAVAN**	2001 - 2004	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**PT CRUISER**	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**SEBRING**	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**SEBRING**	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**SEBRING**	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**
2429	2.4L	148	**SEBRING**	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**
2429	2.4L	148	**STRATUS**	2002 ONLY	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**VOYAGER**	2001 - 2003	4	EDZ 2.4	F.I.	D.O.H.C.	4773005	**SWC10007**
2429	2.4L	148	**WRANGLER**	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**
2429	2.4L	148	**Liberty**	2005 ONLY	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**
2429	2.4L	148	**PT CRUISER**	2003 - 2008	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**
2429	2.4L	148	**STRATUS**	2003 - 2006	4	EDZ Power Tech 2.4	F.I.	D.O.H.C.	5073524AA	**SWC10007**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
2507	2.5L	153	**600**	1986 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**ARIES**	1986 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**CARAVAN**	1987 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**CARAVELLE**	1986 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**DAYTONA**	1986 - 1988	4	K 2.5	F.I.	D.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**DYNASTY**	1988 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**Grand Voyager**	1987 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**LANCER**	1986 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**LASER**	1986 ONLY	4	K 2.5	CARB	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**LeBARON**	1986 - 1988	4	K 2.5	C & F	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**LeBARON GTS**	1986 - 1988	4	K 2.5	C & F	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**NEW YORKER**	1986 ONLY	4	K 2.5	CARB	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**RELIANT**	1986 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**SHADOW**	1988 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**SUNDANCE**	1988 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**VOYAGER**	1987 - 1988	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**ACCLAIM**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**CARAVAN**	1989 - 1993	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**DAKOTA**	1989 - 1991	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**DAKOTA**	1992 - 1993	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**DAYTONA**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**DYNASTY**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**Grand Caraven**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**Grand Voyager**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**LANCER**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**LeBARON**	1989 - 1994	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**OMNI**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**RELIANT**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**SHADOW**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**SPIRIT**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**SUNDANCE**	1989 ONLY	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**VOYAGER**	1989 - 1993	4	K 2.5	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**VOYAGER**	1996 - 1997	4	K 2.5	F.I.	S.O.H.C.	4626636	**SWC10003**
2507	2.5L	153	**ACCLAIM**	1989 ONLY	4	K 2.5T	F.I.	S.O.H.C.	4636499	**SWC10003***
2507	2.5L	153	**LeBARON**	1990 ONLY	4	K 2.5T	F.I.	S.O.H.C.	4626575	**SWC10003***
2507	2.5L	153	**SUNDANCE**	1989 ONLY	4	K 2.5T	F.I.	S.O.H.C.	4636499	**SWC10003***
2507	2.5L	153	**ACCLAIM**	1990 ONLY	4	K 2.5T	F.I.	S.O.H.C.	4636499	**SWC10003***
2507	2.5L	153	**SUNDANCE**	1990 - 1992	4	K 2.5T	F.I.	S.O.H.C.	4636499	**SWC10003***
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
4397636	X		87.50	1.50	1.50		4.00		Normally Aspirated, 8 VALVE
4397636	X		3.445	0.059	0.059		0.157		Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
4397636	X								Normally Aspirated, 8 VALVE
5241055	X		87.50	1.50	1.50		4.00		Normally Aspirated, 8 VALVE
5241055	X		3.445	0.059	0.059		0.157		Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
5241055	X								Normally Aspirated, 8 VALVE
4637664	X		87.50	1.50	1.50		4.00		w/ TURBO
4637664	X		3.445	0.059	0.059		0.157		w/ TURBO
4637664	X								w/ TURBO
5241059	X		87.50	1.50	1.50		4.00		w/ TURBO
5241059	X		3.445	0.059	0.059		0.157		w/ TURBO
					CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED				

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
645 030 25 17	X		83.00	2.00	2.00		2.00		Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		Mercedes-Benz Engine, RIGNT, 24 VALVE
645 030 25 17	X		3.268	0.079	0.079		0.079		Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X		3.268	0.079	0.079		0.079		Mercedes-Benz Engine, RIGHT, 24 VALVE
645 030 25 17	X								Mercedes-Benz Engine, LEFT, 24 VALVE
642 030 24 17	X								Mercedes-Benz Engine, RIGHT, 24 VALVE
5010332AA*	X		92.00	1.20	1.50		3.00		
5010332AA	X		3.622	0.047	0.059		0.118		
-	X		91.00						24 VALVE
			3.583	0.000	0.000		0.000		
4778836	X		93.00	1.50	1.50		3.00		12 VALVE
4778836	X		3.661	0.059	0.059		0.118		SH. Oil, 12 VALVE
4778836*	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								SH. Oil, 12 VALVE
4778836	X								12 VALVE
4778836	X								SH. Oil, 12 VALVE
4798744	X		93.00	1.50	1.50		3.00		SH. Oil, 12 VALVE
4798744	X		3.661	0.059	0.059		0.118		SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
4798744	X								SH. Oil, 12 VALVE
5241057	**11-863**	**340**	93.00	1.50	1.50		3.00		SH. Oil
5241057	**11-863**	**340**	3.66	0.06	0.06		0.12		SH. Oil
5241057	**11-863**	**340**							SH. Oil
5241057	**11-863**	**340**							FIFTH AVENUE, SH Oil
4897772AA	**11-923**	**355**	93.000	1.500	1.500		3.000		SH. Oil, 12 VALVE
4897772AA	**11-923**	**355**	3.66	0.06	0.06		0.12		SH. Oil, 12 VALVE
4897772AA	**11-923**	**355**							12 VALVE
4897772AA	**11-923**	**355**							12 VALVE
4897772AA	**11-923**	**355**							12 VALVE
-	X		3.657	0.059	0.069		0.098		Mercedes-Benz Engine, 24 VALVE
-	X		3.657	0.059	0.069		0.098		Mercedes-Benz Engine, 24 VALVE
					CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED				

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
3604	3.6L	220	**200**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**300**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**AVENGER**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**CHALLENGER**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**CHARGER**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**DURANGO**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**Grand Caraven**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**Grand Cherokee**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**JOURNEY**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**RAM 1500**	2013 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**RAM CARGO VAN**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**RAM PROMASTER**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**RAM PROMASTER CITY**	2015 - 2016	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**TOWN & COUNTRY**	2011 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3604	3.6L	220	**WRANGLER**	2012 - 2015	V6	PENTASTAR 3.6	F.I.	D.O.H.C.	68078776AA	**SWC10025**
3687	3.7L	225	**ASPEN**	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**CORDOBA**	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**DIPLOMAT**	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**Fifth Avenue**	1983 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**GRAN FURY**	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**LeBARON**	1980 - 1981	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**MIRADA**	1980 - 1983	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**NEW YORKER**	1982 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**NEWPORT**	1980 - 1981	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**PICKUP**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**PICKUP**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3687	3.7L	225	**RAM VAN**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**RAM VAN**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3687	3.7L	225	**RAM WAGON**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**RAM WAGON**	1974 - 1987	V6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3687	3.7L	225	**RAMCHARGER**	1975 - 1980	V6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**RAMCHARGER**	1975 - 1980	V6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3687	3.7L	225	**St. Regis**	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**TRAILDUSTER**	1975 - 1980	L6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**TRAILDUSTER**	1975 - 1980	L6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3687	3.7L	225	**VOLARE**	1980 ONLY	V6	SLANT 6	CARB	O.H.V.	4131203	**SWC10017**
3687	3.7L	225	**VOYAGER**	1974 - 1983	L6	SLANT 6	CARB	O.H.V.	4131205	**SWC10017**
3687	3.7L	225	**VOYAGER**	1974 - 1983	L6	SLANT 6	CARB	O.H.V.	4131214	**SWC10017**
3701	3.7L	226	**COMMANDER**	2006 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**DAKOTA**	2004 - 2011	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**DURANGO**	2004 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**Grand Cherokee**	2005 - 2010	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**Liberty**	2002 - 2012	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**NITRO**	2007 - 2011	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**PICKUP**	2002 ONLY	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**
3701	3.7L	226	**RAM 1500**	2002 - 2012	V6	Power Tech 3.7	F.I.	S.O.H.C.	5012364AC	**SWC10002**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
5184347AG	11-916	353	96.00	1.20	1.20		2.00		24 VALVE
5184347AG	11-916	353	3.780	0.047	0.047		0.079		24 VALVE
5184347AG	11-916	353				

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
5019338AA*	**11-864***	**340**	96.00	1.20	1.50		3.00		12 VALVE
5019338AA*	**11-864***	**340**	3.780	0.047	0.059		0.118		12 VALVE
5019338AA*	**11-864***	**340**							12 VALVE
4666129AA*	**11-864***	**340**							12 VALVE
5019338AA*	**11-864***	**340**							12 VALVE
5019338AA*	**11-864***	**340**							12 VALVE
4797692	*DISC. 11-815*		96.00	1.50	1.50		3.00		12 VALVE
4797692	*DISC. 11-815*		3.780	0.059	0.059		0.118		12 VALVE
4797692	*DISC. 11-815*								12 VALVE
4797692	*DISC. 11-815*								12 VALVE
4797692	*DISC. 11-815*								FIFTH AVENUE, 12 VALVE
4797692	*DISC. 11-815*								12 VALVE
4397779	**11-855**	**338**	99.31	1.98	1.98		4.76		
4397779	**11-855**	**338**	3.910	0.078	0.078		0.188		
4397779	**11-855**	**338**							
4397779	**11-855**	**338**							
4397779	**11-855**	**338**							
4762947	**X**		99.31	2.00	2.00		4.00		
4762947	**X**		3.910	0.079	0.079		0.157		
4762947	**X**								
4762947	**X**								
4762947	**X**								
4773392	**X**		99.31	2.00	2.00		4.00		12 VALVE
4773392	**X**		3.910	0.079	0.079		0.157		12 VALVE
4773392	**X**								12 VALVE
4773392	**X**								12 VALVE
4773392	**X**								12 VALVE
4778861AB	**X**		99.31	2.00	2.00		4.00		CYL #1,3,5, 12 VALVE
4778862AB	**X**		99.31	2.00	2.00		4.00		CYL #2,4,6, 12 VALVE
4778861AB	**X**		3.910	0.079	0.079		0.157		CYL #1,3,5, 12 VALVE
4778862AB	**X**		3.910	0.079	0.079		0.157		CYL #2,4,6, 12 VALVE
4778861AB	**X**								CYL #1,3,5, 12 VALVE
4778862AB	**X**								CYL #2,4,6, 12 VALVE
4778861AB	**X**								CYL #1,3,5, 12 VALVE
4778862AB	**X**								CYL #2,4,6, 12 VALVE
4778861AB	**X**								CYL #1,3,5, 12 VALVE
4778862AB	**X**								CYL #2,4,6, 12 VALVE
4593589AA	**11-922**	**355**	96.00	1.20	1.50		3.00		24 VALVE
4593589AA	**11-922**	**355**	3.780	0.047	0.059		0.118		24 VALVE
4593589AA	**11-922**	**355**							24 VALVE
					CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED				

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

11-807D is available for High Output 0.079" Dome Top Head (Page #329).

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
5211	5.2L	318	**Grand Cherokee**	1994 - 1998	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**Grand Cherokee**	1994 - 1998	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM VAN**	1997 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM VAN**	1997 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM WAGON**	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM WAGON**	1997 - 1999	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM WAGON**	2000 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5211	5.2L	318	**RAM WAGON**	2000 - 2002	V8	MAGNUM 5.2	F.I.	O.H.V.	4720727	**SWC10020**
5654	5.7L	345	**300**	2004 - 2006	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**300**	2004 - 2006	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO**	2004 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO**	2004 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 1500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 1500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 2500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 2500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500**	2003 - 2005	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**300**	2007 - 2009	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**300**	2007 - 2009	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**ASPEN**	2007 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**ASPEN**	2007 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**ASPEN HYBRID**	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**ASPEN HYBRID**	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**CHARGER**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**CHARGER**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**COMMANDER**	2006 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**COMMANDER**	2006 - 2010	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO HYBRID**	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**DURANGO HYBRID**	2009 - 2010	V8	HEMI 5.7H	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**Grand Cherokee**	2005 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**Grand Cherokee**	2005 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**MAGNUM**	2005 - 2010	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**MAGNUM**	2005 - 2010	V8	EZB HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 1500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 1500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 2500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 2500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500**	2006 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500 Chassis Cab**	2007 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
5654	5.7L	345	**RAM 3500 Chassis Cab**	2007 - 2009	V8	HEMI 5.7	F.I.	O.H.V.	5086002AA	**SWC10016**
CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
CHRYSLER, DODGE, EAGLE,										
5654	5.7L	345	**300**	2010 - 2015	V8	EZB HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**300**	2010 - 2015	V8	EZB HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**CHALLENGER**	2009 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**CHALLENGER**	2009 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**CHARGER**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**CHARGER**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**DURANGO**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**DURANGO**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**Grand Cherokee**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**Grand Cherokee**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 1500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 1500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 2500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 2500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 3500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 3500**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 3500 Chassis Cab**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5654	5.7L	345	**RAM 3500 Chassis Cab**	2010 - 2015	V8	HEMI 5.7	F.I.	O.H.V.	68046210AB	**SWC10024**
5899	5.9L	360	**PICKUP**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM VAN**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM WAGON**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAMCHARGER**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**TRAILDUSTER**	1974 - 1981	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**VOYAGER**	1974 - 1983	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**ASPEN**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**CORDOBA**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**GRAN FURY**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**MIRADA**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**NEW YORKER**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**NEWPORT**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**PICKUP**	1974 - 1991	V8	LA 360	C & F	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM VAN**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM VAN**	1986 - 1987	V8	LA 360	C & F	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM WAGON**	1974 - 1985	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAM WAGON**	1986 - 1987	V8	LA 360	C & F	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**RAMCHARGER**	1974 - 1991	V8	LA 360	C & F	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**St. Regis**	1980 - 1981	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**TRAILDUSTER**	1974 - 1981	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**VOLARE**	1980 ONLY	V8	LA 360	CARB	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**VOYAGER**	1974 - 1983	V8	LA 360	CARB	O.H.V.	3780016	**SWF80016**
5899	5.9L	360	**PICKUP**	1992 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**RAM VAN**	1988 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**RAM WAGON**	1988 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	**SWF80016**
5899	5.9L	360	**RAMCHARGER**	1992 - 1993	V8	MAGNUM 5.9	F.I.	O.H.V.	3579044	**SWF80016**

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
53022257AE	11-913	352	99.50	1.20	1.20		2.00		RIGHT, 16 VALVE
53022257AE	11-913	352	99.50	1.20	1.20		2.00		LEFT, 16 VALVE
53022257AE	11-913	352	3.917	0.047	0.047		0.079		RIGHT, 16 VALVE
53022257AE	11-913	352	3.917	0.047	0.047		0.079		LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
53022257AE	11-913	352							RIGHT, 16 VALVE
53022257AE	11-913	352							LEFT, 16 VALVE
4026472	X		101.60	1.98	1.98		4.76		Low Compression
4026472	X		4.000	0.078	0.078		0.188		Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4026472	X								Low Compression
4494480	X		101.60	1.98	1.98		4.76		
4494480	X		4.000	0.078	0.078		0.188		
4494480	X								
4494480	X								
4494480	X								
4494480	X								
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								High Compression
4494480	X								
4494480	X								High Compression
4494480	X								
4494480	X								High Compression
4494480	X		101.60	1.98	1.98		4.76		
4494480	X		4.000	0.078	0.078		0.188		
4494480	X								
4494480	X								

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JEEP, PLYMOUTH, RAM
4429160	X		102.00	3.0K	2.35		4.00		
4429160	X		4.016	0.118K	0.093		0.157		
4638653	X		102.00	3.0K	2.35		4.00		w/ Intercooler
4638653	X		4.016	0.118K	0.093		0.157		w/ Intercooler
4746627	X		102.00	3.0K	2.35		4.00		AUTO TRANS, 12 VALVE
			4.016	0.118K	0.093		0.157		
4882115	X		102.00	3.0K	2.35		4.00		STD TRANS, 12 VALVE
			4.016	0.118K	0.093		0.157		
5015810AA	X		102.00	3.0K	2.35		4.00		12 VALVE
5015810AA	X		4.016	0.118K	0.093		0.157		12 VALVE
5018093AA	X		102.00	3.0K	2.35		4.00		24 VALVE
5018093AA	X		4.016	0.118K	0.093		0.157		24 VALVE
5018093AA	X								24 VALVE
3970192	**11-856**	**339**	102.00	3.0K	2.35		4.00		24 VALVE
3970192	**11-856**	**339**	4.016	0.118K	0.093		0.157		24 VALVE
68090673AA	X		103.89						SRT-8, RIGHT, 16 VALVE
68090672AA	X		103.89						SRT-8, LEFT, 16 VALVE
68090673AA	X		4.090	0.000	0.000		0.000		SRT-8, RIGHT, 16 VALVE
68090672AA	X		4.090	0.000	0.000		0.000		SRT-8, LEFT, 16 VALVE
68090673AA	X								SRT-8, RIGHT, 16 VALVE
68090672AA	X								SRT-8, LEFT, 16 VALVE
68090673AA	X								SRT-8, RIGHT, 16 VALVE
68090672AA	X								SRT-8, LEFT, 16 VALVE
4955365	**11-885**	**345**	107.00	3.0K	2.50		3.50		w/ TURBO, 24 VALVE
4955365	**11-885**	**345**	4.213	0.118K	0.098		0.138		w/ TURBO, 24 VALVE
4955365	**11-885**	**345**							w/ TURBO, 24 VALVE
4955365	**11-885**	**345**							w/ TURBO, 24 VALVE
4773786	X		101.60	1.50	1.50		3.00		20 VALVE
5245971	X		4.000	0.059	0.059		0.118		20 VALVE
									CHRYSLER, DODGE, EAGLE, JEEP, PLYMOUTH, RAM - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
DAEWOO										
1549	1.5L	95	**LANOS**	1999 ONLY	4	D-TEC 1.5	F.I.	S.O.H.C.	-	**SWD20003**
1598	1.6L	98	**LANOS**	2000 - 2002	4	E-TEC 1.6	F.I.	D.O.H.C.	93740225	**SWD20004**
1998	2.0L	122	**NUBIRA**	1999 - 2002	4	E-TEC II 2.0	F.I.	D.O.H.C.	92062027	**SWD20006**
2198	2.2L	134	**LEGANZA**	1999 - 2002	4	E-TEC II 2.2	F.I.	D.O.H.C.	92062027	**SWD20006**
DAEWOO - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									DAEWOO
-	**NA**		76.50	1.50	1.50		3.00		S, SE, SX MODELS
96182846	**11-779**	**324**	79.00	1.20	1.50		3.00		16 VALVE
92501058	**NA**		86.00	1.50	1.50		3.00		CDX, SE MODELS, 16 VALVE
92062910	**NA**		86.00	1.50	1.50		3.00		SE MODELS, 16 VALVE
									DAEWOO - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
DAIHATSU										
997	1.0L	61	**CHARADE**	1988 - 1992	3	CB10, G10	F.I.		13011-87727-000	**SWD10036**
1295	1.3L	79	**CHARADE**	1988 - 1992	4	G102S, HCE	F.I.	S.O.H.C.	13011-87108-000	**SWD10031**
1589	1.6L	97	**ROCKY**	1988 - 1992	4	HDE	F.I.	S.O.H.C.	13011-87108-000	**SWD10031**
DAIHATSU - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									DAIHATSU
13101-87742-000	**NA**		76.00	1.50	1.50		2.80		
13101-87105-000	*DISC. 11-688*		76.00	1.20	1.50		3.00		
13101-87113-010	**11-689**	**308**	76.00	1.20	1.50		3.00		
									DAIHATSU - END

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
1901	1.9L	116	**COUGER**	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**ESCORT**	1987 - 1996	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**ESCORT EXP**	1987 - 1988	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**LYNX**	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**TEMPO**	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**THUNDERBIRD**	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**TOPAZ**	1987 ONLY	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1901	1.9L	116	**TRACER**	1991 - 1996	4	CVH 1.9	F.I.	S.O.H.C.	FOCZ 6148 A	**SWF30010**
1970	2.0L	120	**COURIER PICKUP**	1979 - 1982	4	MA	CARB	S.O.H.C.	-	**SWT20031**
1986	2.0L	121	**ESCORT**	1997 - 2002	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	**SWF30005**
1986	2.0L	121	**TRACER**	1997 - 1999	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	**SWF30005**
1986	2.0L	121	**FOCUS**	2000 - 2005	4	CVH 2.0	F.I.	S.O.H.C.	F7CZ 6148 AA	**SWF30005**
1986	2.0L	121	**FOCUS**	2003 - 2008	4	CVH 2.0	F.I.	S.O.H.C.	2MGZ 6135 AA	**NA**
1991	2.0L	121	**PROBE**	1993 - 1997	4	FS	F.I.	D.O.H.C.	E62Z 6149 AA	**SWF30001**
1991	2.0L	121	**CONTOUR**	1995 - 1997	4	ZETEC-E 2.0	F.I.	D.O.H.C.	F5RZ 6148 A	**SWF30007**
1991	2.0L	121	**MYSTIQUE**	1995 - 1997	4	ZETEC-E 2.0	F.I.	D.O.H.C.	F5RZ 6148 A	**SWF30007**
1991	2.0L	121	**CONTOUR**	1998 - 2000	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**COUGER**	1999 ONLY	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**ESCORT**	1998 - 1999	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**MYSTIQUE**	1998 - 2000	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**COUGER**	2001 - 2002	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**ESCAPE**	2001 - 2004	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**FOCUS**	2000 - 2004	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1991	2.0L	121	**FOCUS**	2003 - 2005	4	ZETEC-R 2.0	F.I.	D.O.H.C.	YS4Z 6135 AA	**SWF30002**
1991	2.0L	121	**ZX2**	2000 - 2003	4	ZETEC-R 2.0	F.I.	D.O.H.C.	F8CZ 6148 AA	**SWF30002**
1999	2.0L	122	**FOCUS**	2005 - 2010	4	DURATEC 20 LF	F.I.	D.O.H.C.	8S7Z 6312 A	**SWT20090**
1999	2.0L	122	**TRANSIT CONNECT**	2010 - 2013	4	DURATEC 20 LF	F.I.	D.O.H.C.	3S4Z 6148 BA	**SWT20090**
1999	2.0L	122	**FOCUS**	2011 - 2015	4	DURATEC 20 HE	F.I.	D.O.H.C.	CM5Z 6148 AB	**SWF30023**
1999	2.0L	122	**C-MAX ENERGI**	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	**SWF30023**
1999	2.0L	122	**C-MAX HYBRID**	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	**SWF30023**
1999	2.0L	122	**FUSION HYBRID**	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	**SWF30023**
1999	2.0L	122	**MKZ HYBRID**	2013 - 2015	4	DURATEC 20H	F.I.	D.O.H.C.	CM5Z 6148 AB	**SWF30023**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
1999	2.0L	122	**EDGE**	2011 - 2012	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**EXPLORER**	2011 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**EDGE**	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**ESCAPE**	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**FOCUS**	2010 - 2013	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**FUSION**	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**MKC**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**MKZ**	2010 - 2013	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**TAURUS**	2013 - 2014	4	EcoBoost 20T	F.I.	D.O.H.C.	AG9Z 6148 A	**SWF30023**
1999	2.0L	122	**EDGE**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**ESCAPE**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**EXPLORER**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**FOCUS**	2014 - 2015	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**FUSION**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**MKZ**	2014 - 2015	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
1999	2.0L	122	**TAURUS**	2015 - 2016	4	EcoBoost 20T	F.I.	D.O.H.C.	EJ7E 6148 AA	**SWF30023**
2184	2.2L	133	**PROBE**	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	**SWT20048**
2184	2.2L	133	**PROBE**	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	**SWT20048**
2184	2.2L	133	**PROBE**	1988 - 1992	4	F2	F.I.	S.O.H.C.	E92Z 6149 A	**SWT20048**
2261	2.3L	138	**ESCAPE**	2005 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**FOCUS**	2004 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**FUSION**	2006 - 2009	4	DURATEC 23EW	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**MARINER**	2005 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**MILAN**	2006 - 2008	4	DURATEC 23EW	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**ESCAPE HYBRID**	2005 - 2008	4	DURATEC 23H	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**MARINER HYBRID**	2006 - 2008	4	DURATEC 23H	F.I.	D.O.H.C.	-	**SWT20090**
2261	2.3L	138	**RANGER**	2001 - 2011	4	DURATEC 23NS	F.I.	D.O.H.C.	-	**SWT20090**
2295	2.3L	140	**ESCORT EXP**	1986 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**MARQUIS**	1984 - 1986	4	OHC 2.3	CARB	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**MUSTANG**	1984 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**TEMPO**	1985 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**THUNDERBIRD**	1984 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**AEROSTAR**	1986 - 1987	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**RANGER**	1985 - 1988	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
AG9Z 6108 D	X		87.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
AG9Z 6108 D	X		3.445	0.047	0.047		0.079		w/ TURBO, 16 VALVE
AG9Z 6108 L	X		87.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
AG9Z 6108 L	X		3.445	0.047	0.047		0.079		w/ TURBO, 16 VALVE
AG9Z 6108 L	X								ST, w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
AG9Z 6108 L	X								ST, w/ TURBO, 16 VALVE
AG9Z 6108 L	X								w/ TURBO, 16 VALVE
-	X		87.50	1.20	1.00		2.00		w/ TURBO, 16 VALVE
-	X		3.445	0.047	0.039		0.079		w/ TURBO, 16 VALVE
-	X								w/ TURBO, 16 VALVE
-	X								ST, w/ TURBO, 16 VALVE
-	X								w/ TURBO, 16 VALVE
-	X								ST, w/ TURBO, 16 VALVE
-	X								
E92Z 6108 D	11-573	294	86.00	1.50	1.50		4.00		MAZDA Engine, w/ TURBO, 12 VALVE
			3.386	0.059	0.059		0.157		
E92Z 6108 G	11-582	295	86.00	1.50	1.50		4.00		MAZDA Engine, 16 VALVE
			3.386	0.059	0.059		0.157		
-	11-583	295	86.00	1.50	1.50		4.00		MAZDA Engine, 12 VALVE
			3.386	0.059	0.059		0.157		
-	11-843	336	87.50	1.20	1.20		2.50		16 VALVE
-	11-843	336	3.445	0.047	0.047		0.098		16 VALVE
-	11-843	336							16 VALVE
-	11-843	336							16 VALVE
-	11-843	336							16 VALVE
-	11-843	336	87.50	1.20	1.20		2.50		Atkinson Cycle, 16 VALVE
-	11-843	336	3.445	0.047	0.047		0.098		16 VALVE
-	X		87.50	1.20	1.20		2.50		16 VALVE
			3.445	0.047	0.047		0.098		
E3ZZ 6108 A	X		96.00	1.50	1.50		4.00		
E3ZZ 6108 A	X		3.780	0.059	0.059		0.157		RED
E3ZZ 6108 A	X								
E3ZZ 6108 A	X								
E3ZZ 6108 A	X								
E9TZ 6108 BB	X		96.00	1.50	1.50		4.00		
E9TZ 6108 BB	X		3.780	0.059	0.059		0.157		

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
2295	2.3L	140	**CAPRI**	1985 ONLY	4	OHC 2.3	CARB	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**MUSTANG**	1989 - 1993	4	OHC 2.3	C & F	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**RANGER**	1989 - 1994	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2295	2.3L	140	**TEMPO**	1986 - 1987	4	OHC 2.3	F.I.	S.O.H.C.	F1ZZ 6148 A	**SWT20071**
2298	2.3L	140	**RANGER**	1995 - 1997	4	OHC 2.3	F.I.	S.O.H.C.	F67Z 6148 AA	**SWT20076**
2300	2.3L	140	**MKC**	2015 - 2016	4	EcoBoost 23T	F.I.	D.O.H.C.	-	**NA**
2300	2.3L	140	**MUSTANG**	2015 - 2016	4	EcoBoost 23T	F.I.	D.O.H.C.	-	**NA**
2311	2.3L	141	**TEMPO**	1984 - 1988	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	**SWF30011**
2311	2.3L	141	**TEMPO**	1989 - 1994	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	**SWF30011**
2311	2.3L	141	**TOPAZ**	1984 - 1988	4	HSC 2.3	CARB	O.H.V.	E63Z 6148 A*	**SWF30011**
2311	2.3L	141	**TOPAZ**	1989 - 1994	4	HSC 2.3	F.I.	O.H.V.	E63Z 6148 A*	**SWF30011**
2346	2.3L	143	**BRONCO II**	1985 ONLY	4	4D55	DIESEL	S.O.H.C.	E5TZ 6149 A	**SDM31038**
2346	2.3L	143	**RANGER**	1985 - 1987	4	4D55	DIESEL	S.O.H.C.	E5TZ 6149 A	**SDM31038**
2488	2.5L	152	**ESCAPE**	2009 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**FUSION**	2010 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**MARINER**	2009 - 2010	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**MILAN**	2010 - 2010	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**TRANSIT CONNECT**	2014 - 2015	4	DURATEC 25	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**ESCAPE HYBRID**	2009 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**FUSION HYBRID**	2010 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**MARINER HYBRID**	2009 - 2010	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**MILAN HYBRID**	2010 ONLY	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2488	2.5L	152	**MKZ HYBRID**	2011 - 2012	4	DURATEC 25H	F.I.	D.O.H.C.	9E5Z 6148 A	**SWF30025**
2496	2.5L	152	**SABLE**	1986 ONLY	4	HSC 2.5	CARB	O.H.V.	E63Z 6148 A*	**SWF30011**
2496	2.5L	152	**TAURUS**	1986 - 1988	4	HSC 2.5	CARB	O.H.V.	E63Z 6148 A*	**SWF30011**
2496	2.5L	152	**TAURUS**	1989 - 1991	4	HSC 2.5	F.I.	O.H.V.	E63Z 6148 A*	**SWF30011**
2507	2.5L	153	**PROBE**	1993 ONLY	V6	KL	F.I.	D.O.H.C.	E32Z 6149 D	**SWT20073**
2507	2.5L	153	**PROBE**	1993 ONLY	V6	KL	F.I.	D.O.H.C.	E32Z 6149 D	**SWT20073**
2507	2.5L	153	**PROBE**	1994 - 1997	V6	KL	F.I.	D.O.H.C.	E42Z 6149 D	**SWT20073**
2507	2.5L	153	**PROBE**	1994 - 1997	V6	KL	F.I.	D.O.H.C.	E42Z 6149 D	**SWT20073**
2507	2.5L	153	**RANGER**	1998 ONLY	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	**SWT20076**
2507	2.5L	153	**RANGER**	2000 - 2001	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	**SWT20076**
2507	2.5L	153	**RANGER**	1999 ONLY	4	OHC 2.5	F.I.	S.O.H.C.	F87Z 6148 AA	**SWT20076**
2540	2.5L	155	**CONTOUR**	1995 ONLY	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	**SWF30003**
2540	2.5L	155	**MYSTIQUE**	1995 ONLY	V6	DURATEC VE	F.I.	D.O.H.C.	F5RZ 6148 E	**SWF30003**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F8CZ 6108 AA	X		82.42	1.20	1.50		3.00		VIN-L, 24 VALVE
			3.245	0.047	0.059		0.118		
F5RZ 6100 BA	X		82.42	1.20	1.50		3.00		VIN-L, 24 VALVE
F5RZ 6100 BA	X		3.245	0.047	0.059		0.118		VIN-L, 24 VALVE
F5RZ 6100 BA	X								VIN-L, 24 VALVE
1U2Z 6100 AA	X		82.42	1.20	1.50		3.00		24 VALVE
1U2Z 6100 AA	X		3.245	0.047	0.059		0.118		24 VALVE
1U2Z 6100 AA	X								24 VALVE
-	X		83.00						w/ TURBO, 24 VALVE
			3.268	0.000	0.000		0.000		
E6TZ 6100 A	X		93.00	1.60	1.75		3.50		
E6TZ 6100 A	X		3.661	0.063	0.069		0.138		
FORY 6102 A	X		93.00	1.60	1.75		3.50		
FORY 6102 A	X		3.661	0.063	0.069		0.138		
FORY 6102 A	X								
FOTZ 6100 E	X		93.00	1.60	1.75		3.50		
FOTZ 6100 E	X		3.661	0.063	0.069		0.138		
F7XZ 6108 AA	**11-603**	**297**	87.00	1.50	1.50		2.80		NISSAN Engine, 12 VALVE
			3.425	0.059	0.059		0.110		
8E5Z 6100 A	X		89.00	1.20	1.50		2.50		REF, V, 24 VALVE
			3.504	0.047	0.059		0.098		
6E5Z 6100 BA	**11-868**	**341**	89.00	1.20	1.50		2.50		REF, V, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**	3.504	0.047	0.059		0.098		REF, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							REF, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							VVT, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							DAMB, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							REF, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							VVT, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							REF, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							REF, VIN-S, 24 VALVE
6E5Z 6100 BA	**11-868**	**341**							REF, VIN-S, 24 VALVE
3W4Z 6108 A	X		89.00	1.20	1.50		2.50		VVT, 24 VALVE
			3.504	0.047	0.059		0.098		
9L8Z 6108 A	X		89.00	1.20	1.50		2.50		REF, V, 24 VALVE
			3.504	0.047	0.059		0.098		
									FORD, LINCOLN, MERCURY, MERKER - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
2982	3.0L	182	**LS**	2000 - 2001	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	**SWG10004**
2982	3.0L	182	**SABLE**	1996 - 2000	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	**SWG10004**
2982	3.0L	182	**TAURUS**	1996 - 2000	V6	DURATEC 30	F.I.	D.O.H.C.	XW4Z 6148 CA	**SWG10004**
2983	3.0L	182	**AEROSTAR**	1986 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWI10155**
2983	3.0L	182	**PROBE**	1990 - 1992	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWI10155**
2983	3.0L	182	**RANGER**	1991 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWI10155**
2983	3.0L	182	**SABLE**	1986 - 1995	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	**SWI10155**
2983	3.0L	182	**TAURUS**	1986 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWI10155**
2983	3.0L	182	**TEMPO**	1992 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWI10155**
2983	3.0L	182	**TOPAZ**	1992 - 1994	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	**SWI10155**
2983	3.0L	182	**AEROSTAR**	1995 - 1997	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWT20075**
2983	3.0L	182	**RANGER**	1995 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWT20075**
2983	3.0L	182	**SABLE**	1996 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA	**SWT20075**
2983	3.0L	182	**TAURUS**	1995 - 1998	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWT20075**
2983	3.0L	182	**WINDSTAR**	1995 - 2000	V6	VULCAN V6	F.I.	O.H.V.	F6DZ 6148 RA*	**SWT20075**
2997	3.0L	183	**RANGER**	1999 - 2008	V6	VULCAN V6	F.I.	O.H.V.	4F1Z 6148 CA	**SWF30016**
2997	3.0L	183	**SABLE**	1999 - 2001	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	**SWF30016**
2997	3.0L	183	**SABLE**	2002 - 2005	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	**SWF30016**
2997	3.0L	183	**TAURUS**	1999 - 2001	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	**SWF30016**
2997	3.0L	183	**TAURUS**	2002 - 2005	V6	VULCAN V6	F.I.	O.H.V.	2F1Z 6148 AA	**SWF30016**
3272	3.3L	200	**VILLAGER**	1998 - 2002	V6	VG33E	F.I.	S.O.H.C.	XF5Z 6148 AA	**SWN30120**
3496	3.5L	213	**EDGE**	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**FLEX**	2009 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**FUSION**	2010 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKX**	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKZ**	2007 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**SABLE**	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS**	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS X**	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**EDGE**	2011 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**EXPLORER**	2011 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS**	2013 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS X**	2013 - 2015	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKS**	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKS**	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKT**	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKT**	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS SHO**	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**TAURUS SHO**	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
3496	3.5L	213	**EXPLORER**	2011 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**F150**	2015 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**FLEX**	2010 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	**SWF30026**
3496	3.5L	213	**MKS**	2012 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	**NA**
3496	3.5L	213	**MKS**	2012 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	**NA**
3496	3.5L	213	**MKT**	2013 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	**NA**
3496	3.5L	213	**MKT**	2013 - 2015	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	**NA**
3496	3.5L	213	**F150**	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	**NA**
3496	3.5L	213	**F150**	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	**NA**
3721	3.7L	227	**MKS**	2008 - 2012	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MKT**	2010 - 2011	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MKS**	2013 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MKT**	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**EDGE SPORT**	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**F150**	2011 - 2014	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MKX**	2010 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MKZ**	2011 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 6148 C	**NA**
3721	3.7L	227	**MUSTANG**	2010 - 2015	V6	DURATEC 37	F.I.	D.O.H.C.	BA5Z 8148 C	**NA**
3802	3.8L	232	**CAPRI**	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**CONTINENTAL**	1982 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**COUGER**	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**COUGER XR7**	1981 - 1982	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**GRANADA**	1982 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**LTD**	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**MARQUIS**	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**MUSTANG**	1983 ONLY	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**PICKUP**	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**THUNDERBIRD**	1982 - 1983	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**CAPRI**	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**COUGER**	1984 - 1987	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**LTD**	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**MARQUIS**	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**MUSTANG**	1984 - 1986	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
3802	3.8L	232	**THUNDERBIRD**	1984 - 1987	V6	ESSEX V6 38	CARB	O.H.V.	E2DZ 6148 A	**SWF30015**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
4015	4.0L	245	**EXPLORER**	1999 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	**SWT20072**
4015	4.0L	245	**MOUNTAINEER**	1999 ONLY	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	**SWT20072**
4015	4.0L	245	**RANGER**	1999 - 2000	V6	COLOGNE 40	F.I.	S.O.H.C.	F7TZ 6148 BA	**SWT20072**
4015	4.0L	245	**EXPLORER**	2001 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
4015	4.0L	245	**Explorer Sports**	2001 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
4015	4.0L	245	**MUSTANG**	2005 - 2009	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
4015	4.0L	245	**MOUNTAINEER**	2002 - 2010	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
4015	4.0L	245	**RANGER**	2001 - 2011	V6	COLOGNE 40	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
4025	4.0L	246	**AEROSTAR**	1990 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**RANGER**	1990 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**EXPLORER**	1991 - 1994	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**AEROSTAR**	1995 - 1997	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**EXPLORER**	1995 - 1999	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**RANGER**	1995 - 1997	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4025	4.0L	246	**EXPLORER**	2000 - 2001	V6	COLOGNE 40	F.I.	O.H.V.	FOTZ 6148 M	**SWT20072**
4195	4.2L	256	**CLUB WAGON**	1997 - 1998	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**ECONOLINE E150**	1997 - 2002	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**ECONOLINE E250**	1997 - 2002	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**F150**	1997 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**FREESTAR**	2004 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**MONTEREY**	2004 - 2008	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4195	4.2L	256	**WINDSTAR**	2004 - 2005	V6	ESSEX V6 42	F.I.	O.H.V.	F6ZZ 6148 A	**SWF30004**
4506	4.5L	275	**LCF**	2005 - 2010	V6	PowerStroke 4.5T	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA 4CYL**
4605	4.6L	281	**CONTINENTAL**	1995 - 1997	V8	INTECH 46	F.I.	D.O.H.C.	F5LY 6148 A	**SWF30006**
4605	4.6L	281	**MARK VIII**	1993 - 1994	V8	INTECH 46	F.I.	D.O.H.C.	F3LY 6148 A	**SWF30006**
4605	4.6L	281	**MARK VIII**	1995 - 1997	V8	INTECH 46	F.I.	D.O.H.C.	F5LY 6148 A	**SWF30006**
4605	4.6L	281	**MUSTANG**	1996 - 1998	V8	TRITON 46C	F.I.	D.O.H.C.	F5LY 6148 A	**SWF30006**
4605	4.6L	281	**COUGER**	1994 - 1995	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	**SWF30006***
4605	4.6L	281	**COUGER**	1996 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**Crown Victoria**	1992 - 1994	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	**SWF30006***
4605	4.6L	281	**Crown Victoria**	1995 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E150**	2000 - 2002	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**EXPEDITON**	1997 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**F150**	1997 - 2002	V8	TRITON 46GT	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**Grand Marquis**	1992 - 1995	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	**SWF30006***
										SWF30006 CONTINUED
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
XL2Z 6100 AA	X		100.40	1.60	1.75		3.50		VIN-E, 12 VALVE
XL2Z 6100 AA	X		3.953	0.063	0.069		0.138		VIN-E, 12 VALVE
XL2Z 6100 AA	X								VIN-E, 12 VALVE
XL2Z 6108 AA	11-914	353	100.40	1.20	1.50		3.00		12 VALVE
XL2Z 6108 AA	11-914	353	3.953	0.047	0.059		0.118		Incld. TRUCK, 12 VALVE
2U3Z 6108 AA	11-914	353							12 VALVE
XL2Z 6108 AA	11-914	353							12 VALVE
XL2Z 6108 AA	11-914	353							12 VALVE
F2TZ 6108 EB	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
F2TZ 6108 EB	X		3.953	0.063	0.069		0.138		VIN-X, 12 VALVE
FOTZ 6100 B	X		100.40	1.60	1.75		3.50		12 VALVE
			3.953	0.063	0.069		0.138		
F5TZ 6100 A	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
F5TZ 6100 A	X		3.953	0.063	0.069		0.138		VIN-X, 12 VALVE
F5TZ 6100 A	X								VIN-X, 12 VALVE
F8TZ 6100 AA	X		100.40	1.60	1.75		3.50		VIN-X, 12 VALVE
			3.953	0.063	0.069		0.138		
XL3Z 6108 AA	11-826	332	96.80	1.50	1.50		3.00		12 VALVE
XL3Z 6108 AA	11-826	332	3.811	0.059	0.059		0.118		12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							VIN-2, 12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
XL3Z 6108 AA	11-826	332							12 VALVE
3C3Z 6108 AA	11-918	354	95.00	2.25	2.00		3.50		24 VALVE
F3LZ 6108 DA	X		90.20	1.50	1.50		3.00		MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X		3.551	0.059	0.059		0.118		MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X								MODULAR COBRA, 32 VALVE
F3LZ 6108 DA	X								MODULAR COBRA, VIN-V, 32 VALVE
F8AZ 6108 AA	11-820	331	90.20	1.50	1.50		3.00		MODULAR GT, RED, 16 VALVE
F8AZ 6108 AA	11-820	331	3.551	0.059	0.059		0.118		MODULAR GT, RED, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, Code W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, VIN-W, 16 VALVE
F8AZ 6108 AA	11-820	331							MODULAR GT, 16 VALVE
	11-820 CONTINUED								
									FORD, LINCOLN, MERCURY, MERKER - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
4605	4.6L	281	**Grand Marquis**	1996 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	**SWF30006**
4605	4.6L	281	**MUSTANG**	1996 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**MUSTANG**	1996 - 2000	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**THUNDERBIRD**	1994 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**TOWN CAR**	1991 - 1994	V8	TRITON 46GT	F.I.	S.O.H.C.	F2AZ 6148 A	**SWF30006***
4605	4.6L	281	**TOWN CAR**	1995 - 1997	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E150**	1997 - 1999	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**EXPEDITON**	1997 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**F150**	2001 - 2004	V8	TRITON 46GT	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**Grand Marquis**	1996 ONLY	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**PICKUP**	1997 - 1999	V8	TRITON 46GT	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**CLUB WAGON**	1997 - 1998	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**Crown Victoria**	2001 - 2002	V8	TRITON 46GT	F.I.	S.O.H.C.	F7AZ 6148 AA	**SWF30006**
4605	4.6L	281	**Crown Victoria**	2003 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	1L2Z 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E150**	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E250**	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**EXPLORER**	2002 - 2005	V8	TRITON 46GT	F.I.	S.O.H.C.	1L2Z 6148 AA	**SWF30006**
4605	4.6L	281	**F150**	2003 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**Grand Marquis**	2001 - 2011	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	**SWF30006**
4605	4.6L	281	**MOUNTAINEER**	2002 - 2005	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**MUSTANG**	2000 - 2004	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**TOWN CAR**	2002 - 2011	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 GA	**SWF30006**
4605	4.6L	281	**ECONOLINE E150**	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E250**	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**F150**	2005 - 2008	V8	TRITON 46GT	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
4605	4.6L	281	**ECONOLINE E150**	2009 - 2015	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
4605	4.6L	281	**ECONOLINE E250**	2009 - 2015	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
4605	4.6L	281	**F150**	2009 - 2010	V8	TRITON 46GT	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
4605	4.6L	281	**EXPLORER**	2006 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**Explorer Sports**	2007 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**MOUNTAINEER**	2006 - 2010	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**MUSTANG**	2005 - 2009	V8	TRITON 46V	F.I.	S.O.H.C.	2L3Z 6148 DA	**SWF30006**
4605	4.6L	281	**CONTINENTAL**	1998 - 1999	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	**SWF30008**
4605	4.6L	281	**MARK VIII**	1998 ONLY	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	**SWF30008**
4605	4.6L	281	**TOWN CAR**	1998 - 2001	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	**SWF30008**
4605	4.6L	281	**MUSTANG**	1999 - 2002	V8	TRITON 46C	F.I.	D.O.H.C.	F8LZ 6148 AA	**SWF30008**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
4605	4.6L	281	**CONTINENTAL**	2000 - 2002	V8	INTECH 46	F.I.	D.O.H.C.	F8LZ 6148 AA	**SWF30008**
4605	4.6L	281	**AVIATOR**	2003 - 2006	V8	TRITON 46C	F.I.	D.O.H.C.	-	**NA**
4605	4.6L	281	**MARAUDER**	2003 - 2005	V8	TRITON 46C	F.I.	D.O.H.C.	-	**NA**
4916	4.9L	300	**CLUB WAGON**	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E100**	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F100**	1975 - 1976	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**CLUB WAGON**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E100**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E150**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E250**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E350**	1977 - 1981	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F100**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F150**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F250**	1977 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F350**	1977 - 1981	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**CLUB WAGON**	1974 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E100**	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E150**	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E200**	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E250**	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E250**	1982 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E300**	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E350**	1975 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F150**	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F250**	1975 - 1978	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F250**	1982 - 1986	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F350**	1975 - 1985	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**PICKUP**	1974 ONLY	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**BRONCO**	1980 - 1982	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**CLUB WAGON**	1977 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E100**	1977 - 1983	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E150**	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**ECONOLINE E250**	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F100**	1977 - 1983	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F150**	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F250**	1979 - 1984	6	straight-6 300	CARB	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**BRONCO**	1983 - 1989	6	straight-6 300	C & F	O.H.V.	F6DZ 6148 RA	**SWF80017**
4916	4.9L	300	**CLUB WAGON**	1987 - 1989	6	straight-6 300	F.I.	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F150**	1985 - 1989	6	straight-6 300	C & F	O.H.V.	C3AZ 6148 F	**SWF80017**
4916	4.9L	300	**F250**	1985 - 1989	6	straight-6 300	C & F	O.H.V.	C3AZ 6148 F	**SWF80017**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
4949	4.9L	302	**BRONCO**	1974 - 1976	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CLUB WAGON**	1974 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E100**	1974 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E200**	1974 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E300**	1974 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**PICKUP**	1974 - 1976	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**BRONCO**	1977 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CAPRI**	1982 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CLUB WAGON**	1979 - 1981	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CONTINENTAL**	1980 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CONTINENTAL**	1982 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**COUGER**	1980 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**COUGER XR7**	1981 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E100**	1979 - 1983	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E150**	1979 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**ECONOLINE E250**	1979 - 1987	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**F150**	1985 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**GRANADA**	1980 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**Grand Marquis**	1980 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**LTD**	1980 - 1982	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**LTD**	1984 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**LTD Crown Victoria**	1980 - 1982	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**LTD Crown Victoria**	1984 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**MARK VI**	1980 - 1983	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**MARK VII**	1984 - 1992	V8	WINDSOR 302	F.I.	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**MARQUIS**	1980 - 1982	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**MONARCH**	1980 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**MUSTANG**	1982 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**PICKUP**	1977 - 1984	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6108 F	**SWF80016**
4949	4.9L	302	**THUNDERBIRD**	1980 - 1981	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**THUNDERBIRD**	1983 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**TOWN CAR**	1981 - 1983	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**TOWN CAR**	1984 - 1985	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**VERSAILLES**	1980 ONLY	V8	WINDSOR 302	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
4949	4.9L	302	**CAPRI**	1983 - 1986	V8	WINDSOR 302	C & F	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**COUGER**	1984 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**Grand Marquis**	1983 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**LTD**	1984 ONLY	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**LTD Crown Victoria**	1983 - 1988	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**MUSTANG**	1983 - 1985	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
4949	4.9L	302	**THUNDERBIRD**	1983 - 1984	V8	WINDSOR 302	F.I.	O.H.V.	E3ZZ 6148 A	**SWF80016**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
4949	4.9L	302	**BRONCO**	1986 ONLY	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	**SWF80016**
4949	4.9L	302	**CLUB WAGON**	1982 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	**SWF80016**
4949	4.9L	302	**ECONOLINE E150**	1986 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	**SWF80016**
4949	4.9L	302	**ECONOLINE E250**	1987 - 1989	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	**SWF80016**
4949	4.9L	302	**F150**	1986 ONLY	V8	WINDSOR 302	F.I.	O.H.V.	E6TZ 6148 A	**SWF80016**
4949	4.9L	302	**F250**	1985 - 1986	V8	WINDSOR 302	C & F	O.H.V.	E6TZ 6148 A	**SWF80016**
4951	5.0L	302	**F150**	2011 - 2015	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	**SWF30027**
4951	5.0L	302	**MUSTANG**	2010 - 2015	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	**SWF30027**
4951	5.0L	302	**SHELBY GT500**	2014 - 2017	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	**SWF30027**
5408	5.4L	330	**EXCURSION**	1999 - 2006	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**EXPEDITON**	1999 - 2004	V8	TRITON 54	F.I.	S.O.H.C	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F150**	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F250**	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F350**	1999 - 2003	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**NAVIGATOR**	1999 ONLY	V8	INTECH 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**CLUB WAGON**	1997 - 1998	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**ECONOLINE E150**	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**ECONOLINE E250**	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**ECONOLINE E350**	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**ECONOLINE E450**	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**EXCURSION**	2000 ONLY	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**EXPEDITON**	1997 - 2000	V8	TRITON 54	F.I.	S.O.H.C	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F150**	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F250**	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F350**	1997 - 2000	V8	TRITON 54	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**F450**	1997 - 2010	V8	TRITON 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**NAVIGATOR**	1998 - 1999	V8	INTECH 54	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30006**
5408	5.4L	330	**ECONOLINE E150**	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
5408	5.4L	330	**ECONOLINE E250**	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
5408	5.4L	330	**ECONOLINE E350**	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
5408	5.4L	330	**ECONOLINE E450**	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
5408	5.4L	330	**F450**	2011 - 2015	V8	TRITON 54	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30006**
5409	5.4L	330	**BLACKWOOD**	2002 ONLY	V8	TRITON 54	F.I.	D.O.H.C.	6L3Z 6148 A	**SWF30006**
5409	5.4L	330	**NAVIGATOR**	1999 - 2004	V8	INTECH 54	F.I.	D.O.H.C.	2L3Z 6148 AA	**SWF30006**
5409	5.4L	330	**GT**	2004 - 2006	V8	TRITON 54	F.I.	D.O.H.C.	6L3Z 6148 A*	**SWF30006**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
5752	5.8L	351	**ECONOLINE E350**	1982 - 1987	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
5752	5.8L	351	**F150**	1985 - 1989	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	**SWF80016**
5752	5.8L	351	**F250**	1985 - 1994	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	**SWF80016**
5752	5.8L	351	**F350**	1985 - 1994	V8	351M Cleveland	C & F	O.H.V.	C3AZ 6148 F	**SWF80016**
5752	5.8L	351	**PICKUP**	1982 - 1984	V8	351M Cleveland	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
5808	5.8L	354	**SHELBY GT500**	2013 - 2015	V8	TRITON 58	F.I.	D.O.H.C.	-	**NA**
5889	5.9L	359	**F650**	2004 - 2007	6	ISB 5.9	DIESEL	O.H.V.	4089258	**SDC10022**
5889	5.9L	359	**F750**	2004 - 2007	6	ISB 5.9	DIESEL	O.H.V.	4089258	**SDC10022**
5954	6.0L	363	**ECONOLINE E350**	2004 - 2010	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**ECONOLINE E450**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**ECONOLINE E550**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**EXCURSION**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**F250**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**F350**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**F450**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5954	6.0L	363	**F550**	2003 - 2008	V8	PowerStroke 6.0	DIESEL	O.H.V.	3C3Z 6148 AA	**TBA**
5981	6.0L	365	**F650**	2004 - 2007	6	VT365	DIESEL		-	**NA**
5981	6.0L	365	**F750**	2004 - 2007	6	VT365	DIESEL		-	**NA**
6211	6.2L	379	**F150**	2011 - 2014	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 6148 D	**NA**
6211	6.2L	379	**F250**	2011 - 2015	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 3148 D	**NA**
6211	6.2L	379	**F350**	2011 - 2015	V8	BOSS 62	F.I.	S.O.H.C	AU7Z 3148 D	**NA**
6400	6.4L	391	**ECONOLINE E450**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6400	6.4L	391	**ECONOLINE E550**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6400	6.4L	391	**F250**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6400	6.4L	391	**F350**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6400	6.4L	391	**F450**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6400	6.4L	391	**F550**	2008 - 2010	V8	PowerStroke 6.4	DIESEL	O.H.V.	4C3Z 6148 AA	**SDF30022**
6555	6.6L	400	**BRONCO**	1978 - 1979	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
6555	6.6L	400	**CLUB WAGON**	1980 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
6555	6.6L	400	**ECONOLINE E350**	1981 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
6555	6.6L	400	**PICKUP**	1977 - 1982	V8	Modified 400	CARB	O.H.V.	C3AZ 6148 F	**SWF80016**
6651	6.7L	406	**ECONOLINE E450**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
6651	6.7L	406	**ECONOLINE E550**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
6651	6.7L	406	**F250**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
6651	6.7L	406	**F350**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
6651	6.7L	406	**F450**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
6651	6.7L	406	**F550**	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	**SDF30025**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F5DZ 6108 A	X		101.60	1.98	1.98		4.76		
F5DZ 6108 A	X		4.000	0.078	0.078		0.188		
F5DZ 6108 A	X								
F5DZ 6108 A	X								
F5DZ 6108 A	X								
DR3Z 6108 A	X		93.50						MODULAR, 32 VALVE
			3.681	0.000	0.000		0.000		
3970192	11-856	339	102.00	3.0K	2.35		4.00		CUMMINS Engine, 24 VAVLE
3970192	11-856	339	4.016	0.118K	0.093		0.157		CUMMINS Engine, 24 VAVLE
3C3Z 6108 AA	11-857	339	95.00	2.25	2.00		3.50		32 VALVE
3C3Z 6108 AA	11-857	339	3.740	0.089	0.079		0.138		32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
3C3Z 6108 AA	11-857	339							32 VALVE
-	X		95.00						INTERNATIONAL Engine, w/ TURBO
-	X		3.740	0.000	0.000		0.000		INTERNATIONAL Engine, w/ TURBO
AL3Z 6108 F	X		102.00						16 VALVE
AL3Z 6108 F	X		4.016	0.000	0.000		0.000		16 VALVE
AL3Z 6108 F	X								16 VALVE
8C3Z-6108-EB	11-886	346	98.20	2.5K	2.00		3.00		32 VALVE
8C3Z-6108-EB	11-886	346	3.866	0.098K	0.079		0.118		32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
8C3Z-6108-EB	11-886	346							32 VALVE
D3AZ 6108 GB	X		101.60	1.98	1.98		4.76		
D3AZ 6108 GB	X		4.000	0.078	0.078		0.188		
D3AZ 6108 GB	X								
D3AZ 6108 GB	X								
BC3Z 6108 D	11-915	353	99.00	2.89	2.00		2.50		32 VALVE
BC3Z 6108 D	11-915	353	3.898	0.114	0.079		0.098		32 VALVE
BC3Z 6108 D	11-915	353							32 VALVE
BC3Z 6108 D	11-915	353							32 VALVE
BC3Z 6108 D	11-915	353							32 VALVE
BC3Z 6108 D	11-915	353							32 VALVE
									FORD, LINCOLN, MERCURY, MERKER - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
6690	6.7L	408	**F650**	2008 - 2015	V8	ISB 6.7	DIESEL	O.H.V.	4955366	**SDC10023**
6690	6.7L	408	**F750**	2008 - 2015	V8	ISB 6.7	DIESEL	O.H.V.	4955366	**SDC10023**
6801	6.8L	415	**CLUB WAGON**	1997 - 1998	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**ECONOLINE E350**	1997 - 1998	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**ECONOLINE E350**	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**ECONOLINE E450**	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**EXCURSION**	2000 - 2006	V10	TRITON 68	F.I.	S.O.H.C.	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**F250**	2000 - 2004	V10	TRITON 68	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**F350**	2000 - 2004	V10	TRITON 68	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**F450**	1999 - 2010	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**F250**	2005 - 2010	V10	TRITON 68V	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**F350**	2005 - 2010	V10	TRITON 68V	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**ECONOLINE E350**	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**ECONOLINE E450**	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**F450**	2011 - 2015	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**F650**	2015 - 2016	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**F750**	2015 - 2016	V10	TRITON 68	F.I.	S.O.H.C.	6L3Z 6148 A	**SWF30019**
6801	6.8L	415	**ECONOLINE E550**	2005 - 2015	V10	TRITON 68V	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
6801	6.8L	415	**F550**	2005 - 2015	V10	TRITON 68V	F.I.	S,O,H,C,	2L3Z 6148 AA	**SWF30019**
7200	7.2L	439	**F650**	2001 - 2007	6	C7	DIESEL		-	**TBA**
7200	7.2L	439	**F750**	2000 - 2007	6	C7	DIESEL		-	**TBA**
7276	7.3L	444	**ECONOLINE E350**	1999 - 2003	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**ECONOLINE E450**	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**ECONOLINE E550**	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**EXCURSION**	2000 - 2003	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**F250**	1999 - 2006	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**F350**	1999 - 2006	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**F450**	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**F550**	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7276	7.3L	444	**F650**	1999 - 2002	V8	PowerStroke 7.3T	DIESEL	O.H.V.	F81Z 6148 AA	**SDF30020**
7538	7.5L	460	**CLUB WAGON**	1975 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**ECONOLINE E250**	1975 - 1979	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**ECONOLINE E350**	1975 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**PICKUP**	1974 - 1987	V8	FORD 385	C & F	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**CLUB WAGON**	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**ECONOLINE E350**	1988 - 1994	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**F250**	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	**SWF80032**
7538	7.5L	460	**F350**	1988 - 1992	V8	FORD 385	F.I.	O.H.V.	C8SZ 6148 A	**SWF80032**
FORD, LINCOLN, MERCURY, MERKER - CONTINUED										

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

FORD, LINCOLN, MERCURY, MERKER - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
FORD, LINCOLN, MERCURY, MERKER										
7538	7.5L	460	**CLUB WAGON**	1993 - 1996	V8	FORD 385	F.I.	O.H.V.	F3TZ 6148 G	**SWF80032**
7538	7.5L	460	**ECONOLINE E350**	1995 - 1996	V8	FORD 385	F.I.	O.H.V.	F3TZ 6148 G	**SWF80032**
7538	7.5L	460	**F250**	1995 - 1997	V8	FORD 385	F.I.	O.H.V.	F3TZ 6148 G	**SWF80032**
7538	7.5L	460	**F350**	1995 - 1997	V8	FORD 385	F.I.	O.H.V.	F3TZ 6148 G	**SWF80032**
8300	8.3L	506	**F750**	1994 - 1999	6	ISC 8.3	DIESEL		-	**NA**
FORD, LINCOLN, MERCURY, MERKER - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
FORD, LINCOLN, MERCURY, MERKER									
F6TZ 6108 GA	X		110.74	1.98	1.98		4.76		E350
F6TZ 6108 GA	X		4.360	0.078	0.078		0.188		
F6TZ 6108 GA	X								16 VALVE
F6TZ 6108 GA	X								16 VALVE
-	X		114.00						CUMMINS Engine
			4.488	0.000	0.000		0.000		

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
1796	1.8L	110	**VIBE**	2003 - 2006	4	2ZZ-FE	F.I.	D.O.H.C.	88969557	**SWT10196**
1798	1.8L	110	**VIBE**	2009 - 2010	4	2ZR-FE	F.I.	D.O.H.C.	19185554	**SWT10232**
1809	1.8L	110	**STORM**	1992 - 1993	4	4XF1	F.I.	D.O.H.C.	94342124	**SWI10149**
1817	1.8L	111	**LUV**	1972 - 1975	4	G180Z	CARB	S.O.H.C.	-	**SWI10056**
1817	1.8L	111	**LUV**	1976 - 1979	4	G180Z	CARB	S.O.H.C.	-	**SWI10056**
1817	1.8L	111	**LUV**	1980 ONLY	4	G180Z	CARB	S.O.H.C.	-	**SWI10056**
1817	1.8L	111	**LUV**	1981 - 1985	4	G180Z	CARB	S.O.H.C.	-	**SWI10098**
1817	1.8L	111	**S-10 PICKUP**	1982 ONLY	4	G180Z	CARB	S.O.H.C.	94216641	**SWI10056**
1817	1.8L	111	**S-15 PICKUP**	1982 ONLY	4	G200Z	CARB	S.O.H.C.	94216641	**SWI10056**
1817	1.8L	111	**1000**	1983 - 1984	4	4FB1	DIESEL		94224221	**SDI10086**
1817	1.8L	111	**CHEVETTE**	1981 - 1986	4	4FB1	DIESEL		94224221	**SDI10086**
1817	1.8L	111	**EL CAMINO**	1983 - 1984	4	4FB1	DIESEL		94224221	**SDI10086**
1901	1.9L	116	**SC**	1991 - 1992	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	**SWG10020**
1901	1.9L	116	**SC2**	1993 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	**SWG10020**
1901	1.9L	116	**SL2**	1991 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	**SWG10020**
1901	1.9L	116	**SW2**	1993 - 1994	4	SATURN I4 LL0	F.I.	D.O.H.C.	21006721	**SWG10020**
1901	1.9L	116	**SC1**	1993 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	**SWG10020**
1901	1.9L	116	**SL**	1991 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	**SWG10020**
1901	1.9L	116	**SL1**	1991 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	**SWG10020**
1901	1.9L	116	**SW1**	1993 - 1994	4	SATURN I4 LK0	F.I.	S.O.H.C.	21006715	**SWG10020**
1901	1.9L	116	**SC1**	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SL**	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SL1**	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SW1**	1995 - 1998	4	SATURN I4 L24	F.I.	S.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SC2**	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SL2**	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	**SWG10021**
1901	1.9L	116	**SW2**	1995 - 1998	4	SATURN I4 LL0	F.I.	D.O.H.C.	21007180	**SWG10021**
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
1949	1.9L	119	**S-10 BLAZER**	1982 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	**SWI10096**
1949	1.9L	119	**S-10 PICKUP**	1983 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	**SWI10096**
1949	1.9L	119	**S-15 JIMMY**	1983 - 1984	4	G200Z	C & F	S.O.H.C.	94438086	**SWI10096**
1949	1.9L	119	**S-15 PICKUP**	1983 - 1985	4	G200Z	C & F	S.O.H.C.	94438086	**SWI10096**
1956	2.0L	119	**CRUZE LUZ**	2011 - 2015	4	JTD LUZ	DIESEL	D.O.H.C.	-	**NA**
1983	2.0L	121	**FIRENZA**	1987 - 1988	4	CID 121	F.I.	S.O.H.C.	52273305	**SWG10010**
1983	2.0L	121	**LeMans**	1989 - 1990	4	CID 121	F.I.	S.O.H.C.	52273305	**SWG10010**
1983	2.0L	121	**SKYHAWK**	1987 - 1988	4	CID 121	F.I.	S.O.H.C.	52273305	**SWG10010**
1983	2.0L	121	**SUNBIRD**	1987 - 1991	4	CID 121	F.I.	S.O.H.C.	52273305	**SWG10010**
1983	2.0L	121	**SUNBIRD**	1992 - 1994	4	CID 121	F.I.	S.O.H.C.	52273305	**SWG10010**
1983	2.0L	121	**TRACKER**	1999 - 2002	4	G20K	F.I.	D.O.H.C.	91174392	**SWS20178**
1998	2.0L	122	**COBALT**	2005 - 2007	4	ECOTEC LSJ	F.I.	D.O.H.C.	96180138	**SWG10019**
1998	2.0L	122	**ION**	2005 - 2008	4	ECOTEC LSJ	F.I.	D.O.H.C.	96180138	**SWG10019**
1998	2.0L	122	**COBALT**	2008 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**HHR**	2008 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**REGAL**	2011 - 2013	4	ECOTEC LHU	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**SKY**	2007 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**SOLSTICE**	2006 - 2010	4	ECOTEC LNF	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**VERANO**	2012 - 2015	4	ECOTEC LHU	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**ATS**	2013 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**MALIBU**	2013 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	**SWG10032**
1998	2.0L	122	**REGAL**	2014 - 2015	4	ECOTEC LTG	F.I.	D.O.H.C.	89018107	**SWG10032**
1999	2.0L	122	**CITY EXPRESS**	2014 - 2015	4	MR20DE	F.I.	D.O.H.C.	-	**NA**
1999	2.0L	122	**BERETTA**	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**CAVALIER**	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**CORSICA**	1987 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**FIRENZA**	1987 - 1988	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**SKYHAWK**	1987 ONLY	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**SKYHAWK**	1988 - 1989	4	GM122 2.0L	CARB	S.O.H.C.	12363179	**SWI10195**
1999	2.0L	122	**GRAND AM**	1987 - 1989	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	**SWG10010**
1999	2.0L	122	**SKYHAWK**	1987 ONLY	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	**SWG10010**
1999	2.0L	122	**SUNBIRD**	1987 - 1990	4	GM122 2.0L	F.I.	S.O.H.C.	52273308	**SWG10010**

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
2201	2.2L	134	**COBALT**	2009 - 2010	4	ECOTEC 2.2 LAP	F.I.	D.O.H.C.	19180831	**SWG10032**
2201	2.2L	134	**G5**	2009 ONLY	4	ECOTEC 2.2 LAP	F.I.	D.O.H.C.	19180831	**SWG10032**
2238	2.2L	137	**S-10 BLAZER**	1984 - 1985	4	C223	DIESEL		94250730	**SJI10089**
2238	2.2L	137	**S-10 PICKUP**	1984 - 1985	4	C223	DIESEL		94250730	**SJI10089**
2238	2.2L	137	**S-15 PICKUP**	1984 - 1985	4	C223	DIESEL		94250730	**SJI10089**
2254	2.3L	138	**ACHIEVA**	1992 - 1994	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**Cutlass Calais**	1988 - 1989	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**GRAND AM**	1988 ONLY	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**SKYLARK**	1988 - 1989	4	QUAD-4 LG0	F.I.	S.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**ACHIEVA**	1992 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**CAVALIER**	1995 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**Cutlass Calais**	1990 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**Cutlass Supreme**	1990 - 1991	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**GRAND AM**	1989 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**GRAND PRIX**	1990 - 1991	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**SKYLARK**	1990 - 1995	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**SUNFIRE**	1995 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**ACHIEVA**	1992 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**BERETTA**	1990 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**Cutlass Calais**	1989 - 1990	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**Cutlass Supreme**	1990 ONLY	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**GRAND AM**	1989 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2254	2.3L	138	**ACHIEVA**	1992 - 1994	4	QUAD-4 LG0	F.I.	D.O.H.C.	22548439	**SWG10014**
2376	2.4L	145	**AURA HYBRID**	2007 - 2009	4	BAS-H 2.4 LAT	F.I.	D.O.H.C.	19180836	**NA**
2376	2.4L	145	**MALIBU HYBRID**	2008 - 2009	4	ECOTEC 2.4 LAT	F.I.	D.O.H.C.	19180836	**NA**
2376	2.4L	145	**VUE HYBRID**	2007 - 2009	4	ECOTEC 2.4 LAT	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**AURA**	2007 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**COBALT**	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**G5**	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**G6**	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**HHR**	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**ION**	2006 - 2008	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**MALIBU**	2009 ONLY	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**SKY**	2007 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**SOLSTICE**	2006 - 2009	4	ECOTEC 2.4 LE5	F.I.	D.O.H.C.	19180836	**NA**
2384	2.4L	145	**EQUINOX**	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	**SWG10048**
2384	2.4L	145	**LaCrosse**	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	**SWG10048**
2384	2.4L	145	**REGAL**	2011 ONLY	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	**SWG10048**
2384	2.4L	145	**TERRAIN**	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	**SWG10048**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
2384	2.4L	145	**HHR**	2010 - 2011	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**MALIBU**	2010 - 2012	4	ECOTEC 2.4 LE9	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**EQUINOX**	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**LaCrosse**	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**REGAL**	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**TERRAIN**	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**TERRAIN DENALI**	2013 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**VERANO**	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**IMPALA HYBRID**	2013 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**MALIBU HYBRID**	2013 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048
2384	2.4L	145	**REGAL HYBRID**	2012 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048
2392	2.4L	146	**ACHIEVA**	1997 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**CAVALIER**	1996 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**GRAND AM**	1996 - 1999	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**MALIBU**	1997 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**SKYLARK**	1996 - 1997	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**SUNFIRE**	1996 - 1998	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**ALERO**	1999 - 2001	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**CAVALIER**	1999 - 2002	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**GRAND AM**	2000 - 2001	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**MALIBU**	1999 ONLY	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2392	2.4L	146	**SUNFIRE**	1999 - 2002	4	QUAD-4 LD9	F.I.	D.O.H.C.	24575965	SWG10022
2401	2.4L	147	**VIBE**	2009 - 2010	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	SWT10182
2457	2.5L	150	**ATS**	2013 - 2015	4	ECOTEC 2.5 LCV	F.I.	D.O.H.C.	12659419*	SWG10048
2457	2.5L	150	**CANYON**	2015 - 2016	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048
2457	2.5L	150	**IMPALA**	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048
2457	2.5L	150	**MALIBU LS**	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048
2494	2.5L	152	**TRACKER**	2001 ONLY	6	H25A	F.I.	D.O.H.C.	12140-86FA0	SWS20207
2736	2.7L	167	**VUE**	2008 - 2010	4	ECOTEC 2.8 LE5	F.I.	D.O.H.C.	12593744	NA
2766	2.8L	169	**COLORADO**	2015 - 2016	4	Duramax A428	DIESEL	D.O.H.C.	-	NA
2770	2.8L	169	**CANYON**	2004 - 2006	4	Vortec 2800 LK5	F.I.	D.O.H.C.	89060378	NA
2770	2.8L	169	**COLORADO**	2004 - 2006	4	ATLAS LK5	F.I.	D.O.H.C.	89060378	NA
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
2792	2.8L	170	**CTS**	2005 - 2008	V6	Alloytec LP1	F.I.	D.O.H.C.	12596025	**NA**
2792	2.8L	170	**SRX**	2010 - 2012	V6	Alloytec LAU	F.I.	D.O.H.C.	-	**NA**
2827	2.8L	173	**S-10 BLAZER**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**S-10 PICKUP**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CAMARO**	1985 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CAVALIER**	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CELEBRITY**	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CIMARRON**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CITATION II**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**FIERO**	1985 - 1988	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**FIREBIRD**	1987 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**FIRENZA**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**S-10 BLAZER**	1987 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**S-10 PICKUP**	1987 - 1993	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**S-15 JIMMY**	1986 - 1989	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**S-15 PICKUP**	1986 - 1990	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**SKYLARK**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**6000**	1984 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CELEBRITY**	1985 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CENTURY**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CIMARRON**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**CITATION II**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**Cutlass CIERA**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**Cutlass CRUISER**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**FIREBIRD**	1984 - 1986	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**FIRENZA**	1986 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**SKYLARK**	1985 ONLY	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2827	2.8L	173	**SONOMA**	1991 - 1993	V6	GM 60° L44	F.I.	O.H.V.	14089059	**SWI10154**
2835	2.8L	173	**CITATION**	1981 - 1983	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**CITATION II**	1984 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**OMEGA**	1981 - 1983	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**SKYLARK**	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**6000**	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**CELEBRITY**	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**CITATION II**	1984 ONLY	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**FIREBIRD**	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**S-15 JIMMY**	1983 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
2835	2.8L	173	**S-15 PICKUP**	1982 - 1984	V6	GM 60° LE2	CARB	O.H.V.	14034969	**SWL03235**
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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

U.S. APPLICATIONS

PISTON RINGS

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

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
14094101	X		89.00	1.50	2.00		4.76		Deep Oil
14094101	X		3.504	0.059	0.079		0.187		Deep Oil
14094101	X								Deep Oil
14094101	X								Deep Oil
14033250	X		89.00	1.50	2.00		4.76		VIN-X
14033250	X		3.504	0.059	0.079		0.187		VIN-X
14033250	X								VIN-X
14033250	X								VIN-X
14033250	X								VIN-X
14100521	X		89.00	1.50	1.50		4.00		
14100521	X		3.504	0.059	0.059		0.157		
14100521	X								
14100521	X								
14100521	X								
14100521	X								
14100521	X								
14100521	X								
14100521	X								
14100521	X								
14102688	X		89.00	1.50	1.50		4.00		
14102688	X		3.504	0.059	0.059		0.157		
14102688	X								
14102688	X								
14102688	X								
14102688	X								
14102688	X								
14102688	X								
14102688	X								
14102688	X								
14102688	X								
10070183	X		89.00	1.50	1.50		4.00		12 VALVE
10070183	X		3.504	0.059	0.059		0.157		12 VALVE
10070183	X								12 VALVE
89018218	X		95.50	1.20	1.50		2.50		16 VALVE
89018218	X		3.760	0.047	0.059		0.098		16 VALVE
90528577	X		86.00	1.50	1.50		3.00		VIN-R, 24 VALVE
			3.386	0.059	0.059		0.118		
	GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED								

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
2962	3.0L	181	**CATERA**	1999 - 2001	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2962	3.0L	181	**L300**	2000 - 2006	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2962	3.0L	181	**LS2**	2000 - 2002	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2962	3.0L	181	**LW200**	2000 - 2002	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2962	3.0L	181	**LW300**	2000 - 2002	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2962	3.0L	181	**VUE**	2002 - 2003	V6	ELLESMERE L81	F.I.	D.O.H.C.	9118853	**SWG10016**
2999	3.0L	183	**CTS**	2011 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**CTS**	2011 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**CTS SPORT WAGON**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**CTS SPORT WAGON**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**EQUINOX**	2010 - 2011	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**EQUINOX**	2010 - 2011	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**LaCrosse**	2010 ONLY	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**LaCrosse**	2010 ONLY	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**SRX**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**SRX**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**TERRAIN**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
2999	3.0L	183	**TERRAIN**	2010 - 2012	V6	Alloytec LF1	F.I.	D.O.H.C.	12631194	**NA**
3130	3.1L	191	**CAMARO**	1990 - 1992	V6	CPC	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**FIREBIRD**	1990 - 1992	V6	CPC	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**BERETTA**	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**CORSICA**	1989 - 1992	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**CORSICA**	1993 ONLY	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**Cutlass Supreme**	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**GRAND PRIX**	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**LUMINA**	1990 - 1994	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**REGAL**	1989 - 1993	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**SUNBIRD**	1991 - 1994	V6	GM 60° LH0	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**APV**	1990 - 1993	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**LUMINA APV**	1990 - 1995	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**SILHOUETTE**	1990 - 1991	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**SILHOUETTE**	1992 - 1994	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**TRANS SPORT**	1990 - 1991	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3137	3.1L	191	**TRANS SPORT**	1992 - 1995	V6	GM 60° LG6	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**ACHIEVA**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**BERETTA**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**CENTURY**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**CORSICA**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**Cutlass Supreme**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
3130	3.1L	191	**GRAND AM**	1994 - 1995	V6	GM 60° L82	F.I.	O.H.V.	10181330	**SWI10155**
										SWI10155 CONTINUED
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
3510	3.5L	214	**AURA**	2007 - 2008	V6	High Value LZ4	F.I.	O.H.V.	89060428	**SWG80056**
3510	3.5L	214	**G6**	2007 - 2009	V6	High Value LZ4	F.I.	O.H.V.	89060428	**SWG80056**
3510	3.5L	214	**IMPALA**	2007 - 2011	V6	High Value LZE	F.I.	O.H.V.	89018067	**SWG80056**
3510	3.5L	214	**MONTE CARLO**	2006 - 2008	V6	High Value LZ4	F.I.	O.H.V.	89060428	**SWG80056**
3510	3.5L	214	**VUE**	2008 - 2010	V6	High Value LZ4	F.I.	O.H.V.	89060428	**SWG80056**
3564	3.6L	217	**ACADIA**	2007 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**AURA**	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**CTS**	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C	12608615	**SWG10039**
3564	3.6L	217	**ENLCLAVE**	2007 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**EQUINOX**	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C	12608615	**SWG10039**
3564	3.6L	217	**G6**	2007 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**G8**	2008 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**LaCrosse**	2005 - 2008	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**MALIBU**	2009 - 2012	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**OUTLOOK**	2007 - 2010	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**RENDEZVOUS**	2004 - 2006	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**SRX**	2004 - 2009	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**STS**	2005 - 2011	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**TORRENT**	2008 - 2010	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**VUE**	2008 ONLY	V6	Alloytec LY7	F.I.	D.O.H.C.	12608615	**SWG10039**
3564	3.6L	217	**ACADIA**	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ACADIA**	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ACADIA DENALI**	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ACADIA DENALI**	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CAMARO**	2010 - 2011	V6	Alloytec LLE	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CAMARO**	2010 - 2011	V6	Alloytec LLE	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CTS**	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CTS**	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CTS SPORT WAGON**	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**CTS SPORT WAGON**	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ENLCLAVE**	2007 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ENLCLAVE**	2007 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**LaCrosse**	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**LaCrosse**	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**TRAVERSE**	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**TRAVERSE**	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	**SWG10052**
3564	3.6L	217	**ATS**	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**ATS**	2013 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**CAMARO**	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**CAMARO**	2012 - 2015	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**CANYON**	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**CANYON**	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**COLORADO**	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**
3564	3.6L	217	**COLORADO**	2015 - 2016	V6	Alloytec LFX	F.I.	D.O.H.C.	12644928	**NA**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
89018065	X		99.00	1.20	1.50		2.50		12 VALVE
89018065	X		3.898	0.047	0.059		0.098		12 VALVE
89018065	X								12 VALVE
89018065	X								12 VALVE
89018065	X								12 VALVE
12590866	11-917	353	94.00	1.20	1.50		2.50		24 VALVE
12590866	11-917	353	3.701	0.047	0.059		0.098		24 VALVE
12590866	11-917	353							VIN 7, 24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALUE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12590866	11-917	353							24 VALVE
12616971	X		94.00	1.20	1.50		2.50		LEFT, 24 VALVE
12616972	X		94.00	1.20	1.50		2.50		RIGHT, 24 VALVE
12616971	X		3.701	0.047	0.059		0.098		LEFT, 24 VALVE
12616972	X		3.701	0.047	0.059		0.098		RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								VIN V, LEFT, 24 VALVE
12616972	X								VIN V, RIGHT, 24 VALVE
12616971	X								VIN V, LEFT, 24 VALVE
12616972	X								VIN V, RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12616971	X								LEFT, 24 VALVE
12616972	X								RIGHT, 24 VALVE
12624949	X		94.00						LEFT, 24 VALVE
12624950	X		94.00						RIGHT, 24 VALVE
12624949	X		3.701	0.000	0.000		0.000		LEFT, 24 VALVE
12624950	X		3.701	0.000	0.000		0.000		RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE
12624949	X								LEFT, 24 VALVE
12624950	X								RIGHT, 24 VALVE

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

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PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**							12 VALVE
12522850	**11-827**	**332**	101.60	1.50	1.50		3.00		12 VALVE
12522850	**11-827**	**332**	4.000	0.059	0.059		0.118		12 VALVE
12522850	**11-827**	**332**	101.60	1.50	1.50		3.00		12 VALVE
88894280	**11-827**	**332**	4.000	0.059	0.059		0.118		12 VALVE
88894280	**11-827**	**332**							12 VALVE
88894280	**11-827**	**332**							12 VALVE
88894280	**11-827**	**332**							12 VALVE
12514101	**X**		101.60	1.98	1.98		4.76		VIN-Z, 12 VALVE
12514101	**X**		4.000	0.078	0.078		0.188		VIN-Z, 12 VALVE
12514101	**X**								VIN-Z, 12 VALVE
12514101	**X**								VIN-Z, 12 VALVE
12514101	**X**								VIN-B, Z, 12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								VIN-Z, 12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514102	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514102	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**		101.60	1.98	1.98		4.76		VIN-Z, 12 VALVE
12514101	**X**		4.000	0.078	0.078		0.188		VIN-Z, 12 VALVE
12514101	**X**								K10, 12 VALVE
12514101	**X**								12 VALVE
12514103	**X**								12 VALVE
12514101	**X**								12 VALVE
12514101	**X**								12 VALVE
12514103	**X**								12 VALVE
	GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED								

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12555216	X		93.00	1.20	1.50		3.00		32 VALVE
12555216	X		3.661	0.047	0.059		0.118		32 VALVE
12555216	X								32 VALVE
12564799	X		93.00	1.20	1.50		2.50		32 VALVE
12564799	X		3.661	0.047	0.059		0.098		32 VALVE
12564799	X								32 VALVE
89017577	11-899	349	96.00	1.50	1.50		3.00		16 VALVE
89017577	11-899	349	3.780	0.059	0.059		0.118		16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
89017577	11-899	349							16 VALVE
88894404	11-900	349	96.00	1.50	1.50		3.00		16 VALVE
88894404	11-900	349	3.780	0.059	0.059		0.118		16 VALVE
88894404	11-900	349							16 VALVE
88894404	11-900	349							16 VALVE
19208675	11-920	354	96.00	1.50	1.50		3.00		16 VALVE
19208675	11-920	354	3.780	0.059	0.059		0.118		16 VALVE
19208675	11-920	354							16 VALVE
19208675	11-920	354							16 VALVE
19208675	11-920	354							16 VALVE
19208675	11-920	354							16 VALVE
19208675	11-920	354							16 VALVE
3535204	X		92.00	1.50	1.50		3.00		16 VALVE
3535204	X		3.622	0.059	0.059		0.118		16 VALVE
3535204	X								16 VALVE
3535204	X								16 VALVE
3535204	X								16 VALVE
364702	X		94.89	1.98	1.98		4.76		VIN-H
364702	X		3.736	0.078	0.078		0.188		VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
364702	X								VIN-H
	GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED								

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5328	5.3L	325	**RAINIER**	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SAVANA G1500**	2003 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SIERRA 1500**	2004 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SILVERADO 1500**	2003 - 2007	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SSR**	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SUBURBAN (CH)**	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**TAHOE**	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**TRAILBLAZER**	2004 ONLY	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**YUKON**	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**YUKON XL**	2004 - 2006	V8	Vortec 5300 III	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**CANYON**	2009 - 2012	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**COLORADO**	2008 - 2012	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**ENVOY**	2002 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**EXPRESS G1500**	2008 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**GRAND PRIX**	2006 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**H3**	2008 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**H3T**	2008 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**IMPALA**	2007 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**LaCrosse**	2009 ONLY	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**MONTE CARLO**	2006 - 2008	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**RAINIER**	2005 - 2008	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**SAVANA G1500**	2008 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**TAHOE**	2007 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**TRAILBLAZER**	2004 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5328	5.3L	325	**AVALANCHE**	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**SIERRA 1500**	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**SILVERADO 1500**	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**SUBURBAN (CH)**	2007 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**TAHOE**	2010 - 2014	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**YUKON**	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**YUKON XL**	2007 - 2013	V8	Vortec 5300 IV	F.I.	O.H.V.	19208677	**SWG10005**
5328	5.3L	325	**SIERRA HYBRID**	2005 - 2008	V8	Vortec 5300H	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**SILVERADO HYBRID**	2005 - 2007	V8	Vortec 5300H	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**EXPRESS G1500**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**SAVANA G1500**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**SIERRA 1500**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**SILVERADO 1500**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**SUBURBAN (CH)**	2015 - 2016	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**TAHOE**	2015 - 2016	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**YUKON**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
5328	5.3L	325	**YUKON XL**	2014 - 2015	V8	ECOTEC3 L83	F.I.	O.H.V.	-	**NA**
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							LM7, 16 VALVE
89017579	11-900	349							L33, L59, LM7, 16 VALVE
89017579	11-900	349							L33, L59, LM7, 16 VALVE
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							LM4, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017579	11-900	349							L59, LM7, 16 VALVE
89017577	11-899	349	96.00	1.50	1.50		3.00		LH8, 16 VALVE
89017577	11-899	349	3.780	0.059	0.059		0.118		LH8, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
89017577	11-899	349							LY5, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LH8, 16 VALVE
89017577	11-899	349							LH8, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LS4, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
89017577	11-899	349							LY5, 16 VALVE
89017577	11-899	349							LMG, LY5, 16 VALVE
89017577	11-899	349							LH6, 16 VALVE
19208675	11-920	354	96.00	1.50	1.50		3.00		LC9, LMG, LY5, 16 VALVE
19208675	11-920	354	3.780	0.059	0.059		0.118		LC9, LH6, LMG, LY5, 16 VALVE
19208675	11-920	354							LC9, LH6, LMG, LY5, 16 VALVE
19208675	11-920	354							LC9, LMG, LY5, 16 VALVE
19208675	11-920	354							LC9, LMG, LY5, 16 VALVE
19208675	11-920	354							LC9, LH6, LMG, LY5, 16 VALVE
19208675	11-920	354							LC9, LH6, LMG, LY5, 16 VALVE
-	X		96.00	1.50	1.50		3.00		16 VALVE
-	X		3.780	0.059	0.059		0.118		16 VALVE
-	X		96.00						16 VALVE
-	X		3.780	0.000	0.000		0.000		16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
-	X								16 VALVE
	GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED								

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5735	5.7L	350	**CHEVY VAN**	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	**SWF80016**
5735	5.7L	350	**RALLY**	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	**SWF80016**
5735	5.7L	350	**SPORTVAN**	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	**SWF80016**
5735	5.7L	350	**SUBURBAN (CH)**	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	**SWF80016**
5735	5.7L	350	**VANDURA**	1995 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	88894219	**SWF80016**
5735	5.7L	350	**CHEVY Express**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**CHEVY VAN**	1996 - 1998	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**CUTAWAY G30**	1996 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**CUTAWAY G3500**	1997 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**ESCALADE**	1999 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**EXPRESS G1500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**EXPRESS G2500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**EXPRESS G3500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**PICKUP (Chev)**	1996 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**PICKUP (GMC)**	1996 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**RV CUTAWAY**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**SAVANA G1500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**SAVANA G2500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**SAVANA G3500**	1996 - 2002	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**SUBURBAN (CH)**	1996 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**SUBURBAN (GM)**	1996 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**TAHOE**	1995 - 1999	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**YUKON**	1999 - 2000	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5735	5.7L	350	**YUKON DENALI**	2000 ONLY	V8	Vortec 5700 L31	F.I.	O.H.V.	12522848	**SWI10197**
5964	6.0L	364	**CUTAWAY G3500**	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**EXPRESS G2500**	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**EXPRESS G3500**	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**H2**	2003 - 2004	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**SAVANA G2500**	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**SAVANA G3500**	2001 - 2005	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**SILVERADO 2500**	1999 - 2004	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**SUBURBAN (CH)**	2000 - 2006	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5964	6.0L	364	**YUKON DENALI**	2001 - 2006	V8	Vortec 6000 LQ4	F.I.	O.H.V.	12456342	**SWI10197**
5967	6.0L	364	**ESCALADE**	2002 - 2006	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**ESCALADE EXT**	2002 - 2006	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SIERRA 1500**	1999 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SIERRA 2500**	1999 - 2004	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SIERRA 2500 HD**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SIERRA 3500**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SILVERADO 1500**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SILVERADO 2500HD**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**SILVERADO 3500HD**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
5967	6.0L	364	**YUKON**	2001 - 2005	V8	Vortec 6000 LQ9	F.I.	O.H.V.	88894243	**SWI10197**
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
5967	6.0L	364	**ESCALADE HYBRID**	2011 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
5967	6.0L	364	**SIERRA HYBRID**	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
5967	6.0L	364	**SILVERADO HYBRID**	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
5967	6.0L	364	**TAHOE HYBRID**	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
5967	6.0L	364	**YUKON HYBRID**	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
5967	6.0L	364	**YUKON HYBRID DENALI**	2010 - 2013	V8	Vortec 6000 LZ1	F.I.	O.H.V.	19178307	**SWG10031**
6162	6.2L	376	**ESCALADE**	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**ESCALADE EXT**	2007 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**H2**	2008 - 2009	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	**SWG10050**
6162	6.2L	376	**SIERRA 1500 DENALI**	2009 - 2015	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**SILVERADO 1500**	2009 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19198090	**SWG10050**
6162	6.2L	376	**YUKON DENALI**	2007 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**YUKON XL DENALI**	2010 - 2013	V8	Vortec 6200 L92	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**CAMARO**	2010 - 2015	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**CORVETTE**	2008 - 2013	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**G8**	2008 - 2009	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**SS**	2013 - 2015	V8	Vortec 6200 LS3	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**CORVETTE**	2014 - 2015	V8	Vortec 6200 LT1	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**CTS SPORT WAGON**	2008 - 2015	V8	Vortec 6200 LSA	F.I.	O.H.V.	19180423	**NA**
6162	6.2L	376	**CTS-V**	2008 - 2015	V8	Vortec 6200 LSA	F.I.	O.H.V.	19180423	**NA**
6162	6.2L	376	**CORVETTE ZR1**	2008 - 2013	V8	Vortec 6200 LS9	F.I.	O.H.V.	19180423	**NA**
6162	6.2L	376	**CAMARO ZL1**	2010 - 2015	V8	Vortec 6200 L99	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**ESCALADE**	2010 - 2015	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**ESCALADE EXT**	2010 - 2015	V8	Vortec 6200 L94	F.I.	O.H.V.	19168090	**SWG10050**
6162	6.2L	376	**CORVETTE Z51**	2014 - 2015	V8	Vortec 6200 LT4	F.I.	O.H.V.	19180423	**NA**
6162	6.2L	376	**SILVERADO 1500**	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	**NA**
6162	6.2L	376	**YUKON DENALI**	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	**NA**
6162	6.2L	376	**YUKON XL DENALI**	2014 - 2015	V8	ECOTEC3 L86	F.I.	O.H.V.	-	**NA**
6473	6.5L	395	**BLAZER**	1994 ONLY	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**C3500 HD**	1992 - 1995	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**C3500 HD**	1999 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**CHEVY Express**	1997 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**CHEVY VAN**	1994 - 1998	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**CUTAWAY G3500**	1997 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
6473	6.5L	395	**EXPRESS G2500**	1996 - 2002	V8	GM 6.5 Diesel	DIESEL	O.H.V.	12369198	**SDG10024**
										SDG10024 CONTINUED
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel) 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel) 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550059	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**	103.00	3.0K	2.00		4.00		(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**	4.055	0.018K	0.079		0.157		(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
12550061	**11-830**	**333**							(Detroit Diesel), 16 VALVE
97226117	**11-884**	**345**	103.00	2.95	2.00		3.00		LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**	103.00	2.95	2.00		3.00		RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**	4.055	0.116	0.079		0.118		LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**	4.055	0.116	0.079		0.118		RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**							LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**							RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**							LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**							RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**							LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**							RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**							LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**							RIGHT, w/ TURBO, 32 VALVE
97226117	**11-884**	**345**							LEFT, w/ TURBO, 32 VALVE
97226116	**11-884**	**345**							RIGHT, w/ TURBO, 32 VALVE
	GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED								

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
6599	6.6L	403	**SAVANA G2500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G2500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G3500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G3500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 2500 HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 2500 HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 3500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 3500**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 2500HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 2500HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 3500HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 3500HD**	2007 - 2010	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**TOPKICK**	2007 - 2009	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**TOPKICK**	2007 - 2009	V8	Duramax LMM	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**CUTAWAY G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**CUTAWAY G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G2500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G2500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G2500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G2500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 2500 HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 2500 HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 3500**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 2500HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 2500HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 3500HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 3500HD**	2010 - 2011	V8	Duramax LGH	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**CUTAWAY G3500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**CUTAWAY G4500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G2500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**EXPRESS G3500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G2500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SAVANA G3500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 2500 HD**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SIERRA 3500**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 2500HD**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
6599	6.6L	403	**SILVERADO 3500HD**	2011 - 2015	V8	Duramax LML	DIESEL	O.H.V.	97386951	**SDI10183**
GMC, BUICK, CADILLAC, CHEVROLET, GEO, HUMMER, OLDSMOBILE, PONTIAC, SATURN - CONTINUED										

PISTONS

RED = NEW INFORMATION

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
GMC, BUICK, CADILLAC, CHEVROLET, GEO										
6997	7.0L	427	**CORVETTE**	2006 - 2013	V8	Vortec 7000 LS7	F.I.	O.H.V.	89017776	**NA**
7785	7.8L	475	**TOPKICK**	2002 - 2009	6	Duramax LG4	DIESEL	S.O.H.C.	94391502*	**SDI10178**
7785	7.8L	475	**TOPKICK**	2002 - 2009	6	Duramax LG4	DIESEL	S.O.H.C.	94391502*	**SDI10178**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
HUMMER, OLDSMOBILE, PONTIAC, SATURN									
12631872	X		104.80						16 VALVE
			4.126	0.000	0.000		0.000		
-	X		115.00	2.95	2.00	2.50	3.00		ISUZU Engine, LEFT, 24 VALVE
-	X		115.00	2.95	2.00	2.50	3.00		ISUZU Engine, RIGHT, 24 VALVE
			4.528	0.116	0.079	0.098	0.118		
			4.528	0.116	0.079	0.098	0.118		

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									HINO
-	NA		112.00						w/ TURBO, 16 VALVE
-	NA		112.00						w/ TURBO, 16 VALVE
-	NA		112.00						w/ TURBO, 16 VALVE
-	NA		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	NA		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	NA		112.00	2.50	2.00		4.00		HYBRID, w/ TURBO, 16 VALVE
-	NA		112.00	2.50	2.00		4.00		HYBRID, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		w/ TURBO, 16 VALVE
									HINO - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HONDA										
995	1.0L	61	**INSIGHT**	2000 - 2006	3	ECA-MF2	F.I.	S.O.H.C.	13011-PHM-004	**NA**
1169	1.2L	71	**CIVIC**	1973 ONLY	4	EB1	CARB	S.O.H.C.	13011-634-004	**SWH30107**
1237	1.2L	75	**CIVIC**	1974 - 1978	4	EB2	CARB	S.O.H.C.	13011-642-004	**SWH30184**
1237	1.2L	75	**CIVIC**	1978 ONLY	4	EB3	CARB	S.O.H.C.	13011-673-000	**SWH30162**
1237	1.2L	75	**CIVIC**	1979 ONLY	4	EB3	CARB	S.O.H.C.	13011-PA1-004	**SWH30162**
1335	1.3L	81	**CIVIC**	1980 ONLY	4	EJ1	CARB	S.O.H.C.	13011-PA0-004	**SWH30162**
1335	1.3L	81	**CIVIC**	1981 ONLY	4	EJ1	CARB	S.O.H.C.	13011-PA0-004	**SWH30162**
1335	1.3L	81	**CIVIC**	1982 - 1983	4	EJ1	CARB	S.O.H.C.	13011-PA5-004	**SWH30219**
1339	1.3L	82	**CIVIC HYBRID**	2003 - 2005	4	LDA-MF3	F.I.	S.O.H.C.	13011-PWA-G01	**SWH30474**
1339	1.3L	82	**CIVIC HYBRID**	2006 - 2011	4	LDA-MF3	F.I.	S.O.H.C.	13011-RMX-001	**SWH30474**
1339	1.3L	82	**INSIGHT**	2009 - 2015	4	LDA-MF3	F.I.	S.O.H.C.	13011-RBJ-004	**NA**
1342	1.3L	82	**CIVIC**	1984 - 1987	4	EV1	CARB	S.O.H.C.	13011-PE0-662	**SWH30252**
1342	1.3L	82	**CIVIC**	1984 - 1987	4	EV1	CARB	S.O.H.C.	13011-PE0-662	**SWH30252**
1342	1.3L	82	**CRX**	1984 - 1987	4	EV1	C & F	S.O.H.C.	13011-PE0-662	**SWH30252**
1342	1.3L	82	**CRX**	1984 - 1987	4	EV1	C & F	S.O.H.C.	13011-PE0-662	**SWH30252**
1342	1.3L	82	**CRX**	1984 - 1987	4	D13A2	C & F	S.O.H.C.	13011-PE0-662	**SWH30252**
1342	1.3L	82	**CRX**	1984 - 1987	4	D13A2	C & F	S.O.H.C.	13011-PE0-662	**SWH30252**
1488	1.5L	91	**CIVIC**	1979 ONLY	4	ED4	CARB	S.O.H.C.	13011-657-674	**SWH30114**
1488	1.5L	91	**CIVIC**	1975 - 1978	4	ED3	CARB	S.O.H.C.	13011-657-674	**SWH30114**
1488	1.5L	91	**CIVIC**	1980 ONLY	4	EM1	CARB	S.O.H.C.	13011-657-674	**SWH30114**
1488	1.5L	91	**CIVIC**	1981 - 1983	4	EM1	CARB	S.O.H.C.	13011-657-674	**SWH30114**
1488	1.5L	91	**CIVIC**	1982 - 1983	4	EM1	CARB	S.O.H.C.	13011-PE1-004	**SWH30253**
1488	1.5L	91	**CIVIC**	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CIVIC**	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	EW1	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	EW3	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	EW3	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	D15A2	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
1488	1.5L	91	**CRX**	1984 - 1987	4	D15A2	CARB	S.O.H.C.	13011-PA6-014	**SWH30253**
HONDA - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HONDA										
1488	1.5L	91	**CIVIC**	1985 ONLY	4	EW3	F.I.	S.O.H.C.	04151-PE7-305	**SWH30114**
1488	1.5L	91	**CIVIC**	1986 - 1987	4	EW4	F.I.	S.O.H.C.	04151-PE7-305	**SWH30114**
1488	1.5L	91	**CRX**	1985 ONLY	4	EW3	F.I.	S.O.H.C.	04151-PE7-305	**SWH30114**
1488	1.5L	91	**CRX**	1986 - 1987	4	EW4	F.I.	S.O.H.C.	04151-PE7-305	**SWH30114**
1488	1.5L	91	**CRX**	1986 - 1987	4	D15A3	F.I.	S.O.H.C.	04151-PE7-305	**SWH30114**
1493	1.5L	91	**CIVIC**	1988 - 1991	4	D15B1	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**CIVIC**	1988 - 1991	4	D15B2	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**CRX**	1988 - 1991	4	D15B1	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**CRX**	1988 - 1991	4	D15B2	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**CIVIC**	1992 - 1995	4	D15Z1	F.I.	S.O.H.C.	13011-P07-004	**SWH30423**
1493	1.5L	91	**DEL SOL**	1992 - 1993	4	D15Z1	F.I.	S.O.H.C.	13011-P07-004	**SWH30423**
1493	1.5L	91	**CIVIC**	1992 - 1995	4	D15B7	F.I.	S.O.H.C.	13011-P10-A03	**SWH30362**
1493	1.5L	91	**DEL SOL**	1992 - 1995	4	D15B7	F.I.	S.O.H.C.	13011-P10-A03	**SWH30362**
1493	1.5L	91	**CIVIC**	1992 - 1995	4	D15B8	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**DEL SOL**	1992 - 1993	4	D15B8	F.I.	S.O.H.C.	13011-P04-G02	**SWH30365**
1493	1.5L	91	**CRX**	1989 - 1991	4	D15B6	F.I.	S.O.H.C.	13011-PM8-A02	**SWH30363**
1496	1.5L	91	**FIT**	2007 - 2008	4	L15A1	F.I.	S.O.H.C.	13011-PWC-J01	**SWH30474**
1497	1.5L	91	**CR-Z HYBRID**	2010 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RB1-006	**SWH30465**
1497	1.5L	91	**FIT**	2009 - 2015	4	L15A7	F.I.	S.O.H.C.	13011-RB1-004	**SWH30465**
1497	1.5L	91	**CIVIC HYBRID**	2012 - 2015	4	LEA	F.I.	S.O.H.C.	13011-RW0-004	**SWH30479***
1497	1.5L	91	**HR-V**	2014 - 2016	4	L15B1	F.I.	D.O.H.C.	13011-RNA-A02	**SWH30484**
1590	1.6L	97	**CIVIC**	1988 - 1991	4	D16A6	F.I.	S.O.H.C.	13011-PM6-G02	**SWH30362**
1590	1.6L	97	**CRX**	1988 - 1991	4	D16A6	F.I.	S.O.H.C.	13011-PM6-G02	**SWH30362**
1590	1.6L	97	**CIVIC**	1992 - 1995	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	**SWH30362**
1590	1.6L	97	**CIVIC**	1992 - 1993	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	**SWH30362**
1590	1.6L	97	**DEL SOL**	1992 - 1993	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	**SWH30362**
1590	1.6L	97	**DEL SOL**	1992 - 1995	4	D16Z6	F.I.	S.O.H.C.	13011-P28-A02	**SWH30362**
1590	1.6L	97	**CIVIC**	1995 - 2000	4	D16Y8	F.I.	S.O.H.C.	13011-P07-004	**SWH30423**
1590	1.6L	97	**DEL SOL**	1996 - 1997	4	D16Y8	F.I.	S.O.H.C.	13011-P07-004	**SWH30423**
1590	1.6L	97	**CIVIC**	1996 - 2000	4	D16Y7	F.I.	S.O.H.C.	13011-P2F-A01	**SWH30423**
1590	1.6L	97	**DEL SOL**	1996 - 1997	4	D16Y7	F.I.	S.O.H.C.	13011-P07-004	**SWH30423**
HONDA - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									HONDA
13101-PE7-305	**11-515**	**288**	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	**11-515**	**288**	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	**11-515**	**288**	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	**11-515**	**288**	74.00	1.50	1.50		4.00		12 VALVE
13101-PE7-305	**11-515**	**288**	74.00	1.50	1.50		4.00		12 VALVE
13101-PM3-020	**11-518**	**288**	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	**11-518**	**288**	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	**11-518**	**288**	75.00	1.20	1.50		2.80		16 VALVE
13101-PM3-020	**11-518**	**288**	75.00	1.20	1.50		2.80		16 VALVE
13010-P07-000	**11-736**	**316**	75.00	1.00	1.20		2.80		w/ VTECH-E, 16 VALVE
13010-P07-000	**11-736**	**316**	75.00	1.00	1.20		2.80		w/ VTECH-E, 16 VALVE
13010-P03-010	*DISC. 11-746*		75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P03-010	*DISC. 11-746*		75.00	1.20	1.50		2.80		S MODELS w/o VTECH, 16 VALVE
13010-P03-011	**NA**		75.00	1.20	1.50		2.80		w/o VTECH, 8 VALVE
13010-P03-011	**NA**		75.00	1.20	1.50		2.80		w/o VTECH, 8 VALVE
13101-PM8-A01	**NA**		75.00	1.00	1.20		2.80		HF MODEL, 8 VALVE
13010-PWC-J01	**11-890**	**347**	73.00	1.00	1.20		2.00		including Sport, w/ VTECH, 16 VALVE
13010-RB1-000	**NA**		73.00	1.00	1.20		2.00		w/ i-VTECH, 16 VALVE
13010-RB1-000	**NA**		73.00	1.00	1.00		2.00		including Sport, w/ i-VTECH, 16 VALVE
13010-RW0-000	**NA**		73.00	1.00	1.00		2.00		w/ i-VTECH, 16 VALVE
13010-R1A-A00	**NA**		81.00	1.20	1.20		2.00		w/ i-VTECH, 16 VALVE
13101-PM6-020	**11-514**	**288**	75.00	1.20	1.50		2.80		16 VALVE
13101-PM6-020	**11-514**	**288**	75.00	1.20	1.50		2.80		Si MODELS, 16 VALVE
13010-P28-A01	**11-679**	**306**	75.00	1.20	1.50		2.80		w/ VTECH, 16 VALVE
13010-P28-A01	**11-679**	**306**	75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P28-A01	**11-679**	**306**	75.00	1.20	1.50		2.80		w/o VTECH, 16 VALVE
13010-P28-A01	**11-679**	**306**	75.00	1.20	1.50		2.80		Si MODELS, w/ VTECH, 16 VALVE
13010-P2P-000	**11-732**	**315**	75.00	1.00	1.20		2.80		EX , w/ VTECH, 16 VALVE
13010-P2P-000	**11-732**	**315**	75.00	1.00	1.20		2.80		Si MODELS, 16 VALVE
13010-P2E-000	**11-752**	**319**	75.00	1.00	1.20		2.80		CX, DX, LX, 16 VALVE
13010-P2E-000	**11-752**	**319**	75.00	1.00	1.20		2.80		S MODELS, 16 VALVE
									HONDA - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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

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

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

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

U.S. APPLICATIONS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HONDA										
2354	2.4L	144	**ACCORD**	2008 - 2010	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R44-A01	**SWH30488**
2354	2.4L	144	**ACCORD**	2011 - 2012	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R40-A12	**SWH30488**
2354	2.4L	144	**ACCORD CROSSTOUR**	2010 - 2012	4	K24Z2, 3	F.I.	D.O.H.C.	13011-R40-A12	**SWH30488**
2354	2.4L	144	**CR-V**	2007 - 2011	4	K24Z1	F.I.	D.O.H.C.	13011-R44-A01	**SWH30488**
2559	2.6L	156	**PASSPORT**	1994 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-97037-801-1	**SWI10144**
2675	2.7L	163	**ACCORD**	1995 - 1997	V6	C27A4	F.I.	S.O.H.C.	13011-P0G-A02	**SWH30370**
2997	3.0L	183	**ACCORD**	1998 - 2002	V6	J30A1	F.I.	S.O.H.C.	13011-P8A-A01	**SWH30432**
2997	3.0L	183	**ACCORD**	2003 - 2007	V6	J30A4, 5	F.I.	S.O.H.C.	13011-RCA-A01	**SWH30432**
2997	3.0L	183	**ACCORD HYBRID**	2005 - 2007	V6	JNA1	F.I.	S.O.H.C.	13011-RCA-A01	**SWH30432**
3165	3.2L	193	**PASSPORT**	1994 - 2002	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	**SWI10185**
3471	3.5L	212	**ODYSSEY**	1999 - 2002	V6	J35A1	F.I.	S.O.H.C.	13011-P8F-A01	**SWH30438**
3471	3.5L	212	**ODYSSEY**	2003 - 2004	V6	J35A4	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**ODYSSEY**	2005 - 2010	V6	J35A6	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**ODYSSEY**	2005 - 2007	V6	J35A7	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**PILOT**	2002 - 2005	V6	J35A1	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**PILOT**	2005 - 2008	V6	J35A6, 9	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**PILOT**	2006 - 2008	V6	J35Z1	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**RIDGELINE**	2006 - 2008	V6	J35A9	F.I.	S.O.H.C.	13011-PGE-A01	**SWH30438**
3471	3.5L	212	**ACCORD**	2008 - 2012	V6	J35Z2, 3	F.I.	S.O.H.C.	13011-R70-A02	**SWH30438**
3471	3.5L	212	**ACCORD CROSSTOUR**	2010 - 2012	V6	J35Z2, 3	F.I.	S.O.H.C.	13011-R70-A02	**SWH30438**
3471	3.5L	212	**PILOT**	2009 - 2011	V6	J35Z4	F.I.	S.O.H.C.	13011-R70-A02	**SWH30438**
3471	3.5L	212	**RIDGELINE**	2009 - 2011	V6	J35Z5	F.I.	S.O.H.C.	13011-R70-A02	**SWH30438**
3471	3.5L	212	**ACCORD**	2013 - 2015	V6	J35Y1	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**ACCORD CROSSTOUR**	2013 - 2015	V6	J35Y1	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**ODYSSEY**	2011 - 2015	V6	J35A7	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**PILOT**	2012 - 2015	V6	J35Z4	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**ACCORD**	2013 - 2015	V6	J35Y2	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**ACCORD CROSSTOUR**	2013 - 2015	V6	J35Y2	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
3471	3.5L	212	**RIDGELINE**	2012 - 2015	V6	J35Z5	F.I.	S.O.H.C.	13011-5G0-A01	**NA**
HONDA - END										

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

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PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HYUNDAI										
1468	1.5L	90	**EXCEL**	1986 - 1989	4	G4DJ	CARB	S.O.H.C.	23040-21210	**SWG30023**
1468	1.5L	90	**EXCEL**	1990 - 1995	4	G4DJ	F.I.	S.O.H.C.	23040-24200	**SWG30023**
1468	1.5L	90	**SCOUPE**	1990 - 1993	4	ALPHA G4DJ	F.I.	S.O.H.C.	23040-24200	**SWG30023**
1468	1.5L	90	**SCOUPE**	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	**SWG30017**
1468	1.5L	90	**ACCENT**	1995 - 1999	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	**SWG30017**
1468	1.5L	90	**SCOUPE**	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	**SWG30017**
1468	1.5L	90	**ACCENT**	1996 - 1997	4	ALPHA G4EK	F.I.	D.O.H.C.	23040-26001	**SWG30019**
1468	1.5L	90	**SCOUPE**	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	**SWG30017**
1468	1.5L	90	**SCOUPE**	1993 - 1995	4	ALPHA G4AE	F.I.	S.O.H.C.	23040-22010	**SWG30017**
1468	1.5L	90	**ACCENT**	2000 - 2003	4	ALPHA G4EB	F.I.	S.O.H.C.	23040-22601	**SWG30017**
1591	1.6L	97	**ACCENT**	2011 - 2015	4	GAMMA II 1.6L	F.I.	D.O.H.C.	23040-2B600	**SWG30046**
1591	1.6L	97	**VELOSTER**	2012 - 2015	4	GAMMA II 1.6L	F.I.	D.O.H.C.	23040-2B600	**SWG30046**
1595	1.6L	97	**ELANTRA**	1992 - 1995	4	SIRIUS G4CR	F.I.	D.O.H.C.	23040-33030	**SWM31049**
1599	1.6L	98	**ACCENT**	2001 - 2005	4	ALPHA G4ED	F.I.	D.O.H.C.	23040-26101	**SWG30030**
1599	1.6L	98	**ACCENT**	2006 - 2010	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26160	**SWG30034**
1796	1.8L	110	**TIBURON**	1996 - 1998	4	G4GB	F.I.	D.O.H.C.	23040-23000	**SWG30028**
1797	1.8L	110	**ELANTRA**	2011 - 2015	4	Nu 1.8L	F.I.	D.O.H.C.	23040-2E000	**NA**
1836	1.8L	112	**ELANTRA**	1993 - 1998	4	G4JN	F.I.	D.O.H.C.	23040-33430	**SWM31058**
1975	2.0L	121	**ELANTRA**	2001 - 2005	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	**SWG30028**
1975	2.0L	121	**TIBURON**	2002 - 2008	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	**SWG30028**
1975	2.0L	121	**ELANTRA**	1999 - 2000	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	**SWG30028**
1975	2.0L	121	**TIBURON**	1996 - 2001	4	BETA G4GF	F.I.	D.O.H.C.	23040-23200	**SWG30028**
1975	2.0L	121	**TUCSON**	2004 - 2007	4	BETA II G4GF	F.I.	D.O.H.C.	23040-23300	**SWG30054**
1975	2.0L	121	**ELANTRA**	2006 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	**SWG30054**
1975	2.0L	121	**ELANTRA TOURING**	2009 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	**SWG30054**
1975	2.0L	121	**TUCSON**	2008 - 2009	4	BETA II G4GF	F.I.	D.O.H.C.	23040-23400	**SWG30054**
1998	2.0L	122	**GENESIS COUPE**	2010 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**SANTA FE**	2013 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**SONATA**	2011 - 2015	4	THETA II G4KD	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**TUCSON**	2011 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	**SWG30042**

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

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HYUNDAI										
1999	2.0L	122	**TUCSON**	2013 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	**NA**
2350	2.4L	143	**SONATA**	1989 - 1991	4	G4JS	F.I.	S.O.H.C.	23040-32610	**SWG30024**
2350	2.4L	143	**SONATA**	1992 - 1998	4	G4CP	F.I.	D.O.H.C.	23040-33150	**SWG30027**
2350	2.4L	143	**SANTA FE**	2001 - 2004	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	**SWG30047**
2350	2.4L	143	**SONATA**	1999 - 2005	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	**SWG30047**
2350	2.4L	143	**SONATA**	2006 - 2010	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38212	**SWG30047**
2359	2.4L	144	**SONATA**	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**SONATA HYBRID**	2011 - 2015	4	THETA II G4KH	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**TUCSON**	2010 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**ELANTRA TOURING**	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**SANTA FE**	2010 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2493	2.5L	152	**SONATA**	1999 - 2002	V6	DELTA G6BV	F.I.	D.O.H.C.	23040-37200	**NA**
2656	2.7L	162	**TUCSON**	2004 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**SANTA FE**	2001 - 2005	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**SONATA**	2003 - 2005	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**TIBURON**	2003 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**SANTA FE**	2006 - 2009	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2656	2.7L	162	**TIBURON**	2007 - 2008	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2656	2.7L	162	**TUCSON**	2007 - 2010	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2792	2.8L	170	**SONATA**	1990 - 1995	V6	G6AT	F.I.	S.O.H.C.	23040-35010	**SWM31080**
2792	2.8L	170	**SONATA**	1990 - 1995	V6	G6AT	F.I.	S.O.H.C.	23040-35010	**SWM31080**
2792	2.8L	170	**SONATA**	1996 - 1998	V6	G6AT	F.I.	S.O.H.C.	23040-35500	**SWM31080**
2792	2.8L	170	**SONATA**	1996 - 1998	V6	G6AT	F.I.	S.O.H.C.	23040-35500	**SWM31080**
2972	3.0L	181	**XG300**	2001 - 2002	V6	G6CT	F.I.	D.O.H.C.	23040-35520	**NA**
3342	3.3L	204	**AZERA**	2007 - 2011	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	**SWG30055**
3342	3.3L	204	**SANTA FE**	2007 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	**SWG30055**
3342	3.3L	204	**SONATA**	2006 - 2010	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	**SWG30055**
3342	3.3L	204	**AZERA**	2012 - 2015	V6	LAMBDA II G6DG	F.I.	D.O.H.C.	23040-3C100	**NA**
3342	3.3L	204	**SANTA FE**	2013 - 2015	V6	LAMBDA II G6DH	F.I.	D.O.H.C.	23040-3C100	**NA**
3467	3.5L	212	**XG350**	2002 - 2006	V6	SIGMA G6CU	F.I.	D.O.H.C.	23040-39800	**SWG30056**
3467	3.5L	212	**SANTA FE**	2003 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	**SWG30056**
3470	3.5L	212	**SANTA FE**	2010 - 2012	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	**NA**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
HYUNDAI										
3778	3.8L	231	**AZERA**	2006 - 2011	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**ENTOURAGE**	2007 - 2009	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**GENESIS**	2009 - 2015	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**VERACRUZ**	2007 - 2012	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**GENESIS COUPE**	2010 - 2015	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
4627	4.6L	282	**EQUUS**	2011 ONLY	V8	TAU G8BA	F.I.	D.O.H.C.	23040-3F300	**NA**
4627	4.6L	282	**GENESIS**	2009 - 2012	V8	TAU G8BA	F.I.	D.O.H.C.	23040-3F300	**NA**
5038	5.0L	307	**EQUUS**	2012 - 2015	V8	TAU G8BE	F.I.	D.O.H.C.	23040-3F400	**NA**
5038	5.0L	307	**GENESIS**	2011 - 2015	V8	TAU G8BE	F.I.	D.O.H.C.	23040-3F400	**NA**
HYUNDAI - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									HYUNDAI
23041-3C602	**NA**		96.00						LIMITED, 24 VALVE
23041-3C602	**NA**		96.00						24 VALVE
23041-3C602	**NA**		96.00						24 VALVE
23041-3C602	**NA**		96.00						24 VALVE
23041-3C700	**NA**		96.00						24 VALVE
23041-3F301	**NA**		92.00						32 VALVE
23041-3F301	**NA**		92.00						32 VALVE
23041-3F400	**NA**		96.00						32 VALVE
23041-3F400	**NA**		96.00						32 VALVE
									HYUNDAI - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
INFINITI										
1998	2.0L	122	**G20**	1990 - 1996	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	**SWN30102**
1998	2.0L	122	**G20**	1999 ONLY	4	SR20DE	F.I.	D.O.H.C.	12033-53J01	**SWN30102**
1998	2.0L	122	**G20**	2000 - 2001	4	SR20DE	F.I.	D.O.H.C.	12033-4M802	**SWN30123**
1998	2.0L	122	**G20**	2002 ONLY	4	SR20DE	F.I.	D.O.H.C.	12033-2J210	**SWN30123**
2488	2.5L	152	**QX60 HYBRID**	2014 - 2015	4	QR25DE	F.I.	D.O.H.C.	12033-JG30A	**SWN30189**
2496	2.5L	152	**ETHEREA**	2015 - 2016	V6	VQ25VHR	F.I.	D.O.H.C.	12033-EG201	**NA**
2496	2.5L	152	**G25**	2011 - 2012	V6	VQ25VHR	F.I.	D.O.H.C.	12033-EG201	**NA**
2960	3.0L	181	**M30**	1990 - 1992	V6	VG30E	F.I.	S.O.H.C.	12033-21V01	**SWN30058**
2960	3.0L	181	**J30**	1993 - 1997	V6	VG30DE	F.I.	D.O.H.C.	12033-F6511	**SWN30058**
2987	3.0L	182	**I30**	1996 - 1999	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y903	**SWN30115**
2987	3.0L	182	**I30**	2000 ONLY	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y900	**SWN30115**
2987	3.0L	182	**I30**	2001 ONLY	V6	VQ30DE	F.I.	D.O.H.C.	12033-2Y900	**SWN30115**
3272	3.3L	200	**QX4**	1996 - 2000	V6	VG33E	F.I.	S.O.H.C.	12033-0W000	**SWN30120**
3498	3.5L	213	**FX35**	2003 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	**SWN30131**
3498	3.5L	213	**G35**	2002 - 2007	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	**SWN30131**
3498	3.5L	213	**QX4**	2001 - 2003	V6	VQ35DE	F.I.	D.O.H.C.	12033-4W001	**SWN30131**
3498	3.5L	213	**I35**	2002 - 2004	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	**SWN30131**
3498	3.5L	213	**M35**	2005 - 2008	V6	VQ35DE	F.I.	D.O.H.C.	12033-8J100	**SWN30131**
3498	3.5L	213	**EX35**	2009 - 2013	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	**SWN30162**
3498	3.5L	213	**FX35**	2009 - 2011	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	**SWN30162**
3498	3.5L	213	**M35**	2009 - 2010	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20B	**SWN30162**
3498	3.5L	213	**M35 HYBRID**	2012 - 2013	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20A	**SWN30162**
3498	3.5L	213	**G35**	2007 - 2008	V6	VQ35HR	F.I.	D.O.H.C.	12033-JK20B	**SWN30162**
3498	3.5L	213	**JX35**	2012 - 2013	V6	VQ35DE	F.I.	D.O.H.C.	12033-JA10D	**SWN30191**
3498	3.5L	213	**QX60**	2014 - 2015	V6	VQ35DE	F.I.	D.O.H.C.	12033-JP10D	**SWN30191**
3498	3.5L	213	**Q50 HYBRID**	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	12035-JK20A	**SWN30162**
3498	3.5L	213	**Q70 HYBRID**	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	12035-JK20A	**SWN30162**
3498	3.5L	213	**QX70 HYBRID**	2014 - 2015	V6	VQ35HR	F.I.	D.O.H.C.	12035-JK20A	**SWN30162**
3696	3.7L	226	**EX37**	2008 - 2011	V6	VQ37VHR	F.I.	D.O.H.C.	12033-JK20A	**SWN30162**
INFINITI - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									INFINITI
A2010-63J00	**11-602**	**297**	86.00	1.50	1.50		3.00		16 VALVE
A3020-63J00	**11-602**	**297**	86.00	1.50	1.50		3.00		16 VALVE
A2010-4M862	**NA**		86.00	1.20	1.20		2.50		16 VALVE
A2010-4M862	**NA**		86.00	1.20	1.20		2.50		16 VALVE
A2010-JG31B	**NA**		89.00	1.20	1.20		2.00		16 VALVE
A2010-JK00A	**NA**		85.00	1.20	1.20		2.00		24 VALVE
A2010-JK00A	**NA**		85.00	1.20	1.20		2.00		24 VALVE
12010-21P61	**11-603**	**297**	87.00	1.50	1.50		2.80		12 VALVE
A2010-30P00	**11-727**	**314**	87.00	1.50	1.50		2.80		24 VALVE
A2010-39U00	**11-734**	**316**	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y900	**11-800**	**328**	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y910	**11-800**	**328**	93.00	1.20	1.20		2.50		24 VALVE
A2010-1W200	**11-728**	**314**	91.50	1.50	1.50		2.80		12 VALVE
A2010-4W100	**11-859**	**339**	95.50	1.20	1.20		2.50		24 VALVE
A2010-4W100	**11-859**	**339**	95.50	1.20	1.20		2.50		24 VALVE
A2010-4W100	**11-859**	**339**	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	**11-860**	**339**	95.50	1.20	1.20		2.50		24 VALVE
A2010-8J110	**11-860**	**339**	95.50	1.20	1.20		2.50		24 VALVE
A2010-JK20B	**NA**		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	**NA**		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	**NA**		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK20B	**NA**		95.50	1.20	1.20		2.00		24 VALVE
A2010-JK29B	**NA**		95.50	1.20	1.20		2.00		24 VALVE
A2010-JA10A	**11-907**	**351**	95.50	1.20	1.20		2.00		24 VALVE
12010-JA10C	**11-907**	**351**	95.50	1.20	1.20		2.00		24 VALVE
-	**NA**		95.50						24 VALVE
-	**NA**		95.50						24 VALVE
-	**NA**		95.50						24 VALVE
A2010-JK20A	**NA**		95.50	1.20	1.20		2.00		24 VALVE
									INFINITI - CONTINUED

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PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
ISUZU										
1471	1.5L	90	**I-MARK**	1983 - 1986	4	4XC1	CARB	S.O.H.C.	8-94141-947-0	**SWI10151**
1471	1.5L	90	**I-MARK**	1987 - 1989	4	4XC1	CARB	S.O.H.C.	8-94141-947-0	**SWI10151**
1471	1.5L	90	**I-MARK**	1987 - 1989	4	4XC1T	F.I.	S.O.H.C.	8-94109-650-0	**SWI10153**
1588	1.6L	97	**STYLUS**	1990 - 1992	4	4XE1V	F.I.	S.O.H.C.	8-94370-434-0	**SWI10149**
1588	1.6L	97	**STYLUS**	1993 ONLY	4	4XE1V	F.I.	S.O.H.C.	8-94331-660-0	**SWI10149**
1588	1.6L	97	**I-MARK**	1989 ONLY	4	4XE1W	F.I.	D.O.H.C.	8-94342-124-0	**SWI10149**
1588	1.6L	97	**IMPULSE**	1990 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	**SWI10149**
1588	1.6L	97	**STYLUS**	1990 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	**SWI10149**
1588	1.6L	97	**IMPULSE**	1991 - 1992	4	4XE1W	F.I.	D.O.H.C.	8-94370-434-0	**SWI10149**
1809	1.8L	110	**IMPULSE**	1991 - 1992	4	4XF1	F.I.	D.O.H.C.	8-97402-171-0	**SWI10149**
1809	1.8L	110	**STYLUS**	1990 - 1992	4	4XF1	F.I.	D.O.H.C.	8-97042-171-0	**SWI10149**
1817	1.8L	111	**I-MARK**	1981 ONLY	4	G180Z	CARB	S.O.H.C.	8-94216-640-0	**SWI10056**
1817	1.8L	111	**PICKUP**	1981 ONLY	4	G180Z	CARB	S.O.H.C.	8-94216-640-0	**SWI10056**
1817	1.8L	111	**I-MARK**	1982 - 1986	4	G180Z	CARB	S.O.H.C.	8-94244-404-0	**SWI10098**
1817	1.8L	111	**PICKUP**	1982 ONLY	4	G180Z	CARB	S.O.H.C.	8-94244-404-0	**SWI10098**
1817	1.8L	111	**I-MARK**	1981 - 1985	4	4FB1	DIESEL		8-94224-221-0	**SDI10086**
1949	1.9L	119	**PICKUP**	1983 - 1987	4	G200Z	C & F	S.O.H.C.	8-94438-086-0	**SWI10096**
1949	1.9L	119	**TROOPER II**	1983 - 1987	4	G200Z	CARB	S.O.H.C.	8-94438-086-0	**SWI10096**
1949	1.9L	119	**IMPULSE**	1983 - 1988	4	G200Z	CARB	S.O.H.C.	8-94438-086-0	**SWI10096**
1994	2.0L	122	**IMPULSE**	1985 - 1990	4	4ZC1	F.I.	S.O.H.C.	8-94235-878-0	**SWI10133**
2156	2.2L	132	**OASIS**	1996 - 1997	4	RJ1,F22B6	F.I.	S.O.H.C.	5-86202-103-0	**SWH30383**
2197	2.2L	134	**HOMBRE**	1996 - 2000	4	GM122 2.2L	F.I.	S.O.H.C.	8-12363-179-0	**SWI10195**
2198	2.2L	134	**AMIGO**	1998 - 1999	4	X22SE	F.I.	D.O.H.C.	8-92062-027-0	**SWI10205**
2198	2.2L	134	**RODEO**	1998 - 2000	4	X22SE	F.I.	D.O.H.C.	8-92062-027-0	**SWI10205**
2198	2.2L	134	**RODEO**	2001 - 2003	4	X22SE	F.I.	D.O.H.C.	8-92065-115-0	**SWI10206**
2198	2.2L	134	**RODEO SPORT**	2001 - 2004	4	X22SE	F.I.	D.O.H.C.	8-92065-115-0	**SWI10206**
2238	2.2L	137	**PICKUP**	1981 - 1982	4	C223	DIESEL		8-94100-355-0	**SJI10089**
2238	2.2L	137	**PICKUP**	1983 - 1987	4	C223	DIESEL		8-94250-730-0	**SDI10101**
2238	2.2L	137	**TROOPER II**	1986 - 1987	4	C223	DIESEL		8-94250-730-0	**SDI10101**
ISUZU - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									ISUZU
8-94141-426-0	*DISC. 11-564*		77.00	1.50	-		2.80		F.W.D., 8 VALVE
8-94460-838-2	*DISC. 11-564*		77.00	1.50	-		2.80		F.W.D., 8 VALVE
8-94109-616-4	**NA**		77.00	1.20	1.20		2.80		F.W.D., w/ TURBO, 8 VALVE
8-97066-885-0	*DISC. 11-556*		80.00	1.20	1.20		3.00		12 VALVE
8-97066-885-0	*DISC. 11-556*		80.00	1.20	1.20		3.00		12 VALVE
8-97066-886-0	*DISC. 11-557*		80.00	1.20	1.20		3.00		16 VALVE
8-97066-886-0	*DISC. 11-557*		80.00	1.20	1.20		3.00		16 VALVE
8-97066-886-0	*DISC. 11-557*		80.00	1.20	1.20		3.00		16 VALVE
8-97066-888-0	**NA**		80.00	1.20	1.20		3.00		w/ TURBO, 16 VALVE
8-97067-000-0	**NA**		80.00	1.20	1.20		3.00		16 VALVE
8-97067-000-0	**NA**		80.00	1.20	1.20		3.00		16 VALVE
8-94215-088-0	**11-012**	**276**	84.00	2.00	2.00		4.00		8 VALVE
8-94215-088-0	**11-012**	**276**	84.00	2.00	2.00		4.00		8 VALVE
8-94238-475-0	*DISC. 11-013*		84.00	1.50	1.50		4.00		R.W.D., 8 VALVE
8-94238-475-0	*DISC. 11-013*		84.00	1.50	1.50		4.00		8 VALVE
8-94228-886-2	*DISC. 11-015*		84.00	2.50	2.00		4.00		
8-94237-469-2	**11-016**	**276**	87.00	1.50	1.50		4.00		8 VALVE
8-94237-469-2	**11-016**	**276**	87.00	1.50	1.50		4.00		8 VALVE
8-94258-494-2	*DISC. 11-695*		87.00	1.50	1.50		4.00		8 VALVE
8-94143-151-3	**11-558**	**293**	88.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
5-86202-102-0	**11-751**	**319**	85.00	1.20	1.20		2.80		16 VALVE
8-24577-467-0	**NA**		89.00	1.50	1.50		3.00		GMC Engine, 8 VALVE
8-92062-910-0	**11-747**	**318**	86.00	1.50	1.50		3.00		16 VALVE
8-92062-910-0	**11-747**	**318**	86.00	1.50	1.50		3.00		16 VALVE
8-92064-692-0	**11-840**	**335**	86.00	1.20	1.50		2.50		16 VALVE
8-92064-692-0	**11-840**	**335**	86.00	1.20	1.50		2.50		16 VALVE
5-12111-212-0	*DISC. 11-017*		88.00	2.50	2.00		4.50		
8-94250-729-0	**11-696**	**309**	88.00	2.00	2.00		4.00		
8-94250-729-0	**11-696**	**309**	88.00	2.00	2.00		4.00		
									ISUZU - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
ISUZU										
2238	2.2L	137	**PICKUP**	1986 - 1987	4	C223T	DIESEL		8-94158-084-0	**SJI10111**
2238	2.2L	137	**TROOPER II**	1987 ONLY	4	C223T	DIESEL		8-94158-084-0	**SJI10111**
2253	2.3L	137	**OASIS**	1998 - 1999	4	F23A7	F.I.	S.O.H.C.	5-86205-887-0	**SWH30443**
2254	2.3L	138	**AMIGO**	1989 - 1993	4	4ZD1	CARB	S.O.H.C.	8-94153-966-2	**SWI10123**
2254	2.3L	138	**PICKUP**	1983 - 1995	4	4ZD1	C & F	S.O.H.C.	8-94153-966-2	**SWI10123**
2254	2.3L	138	**TROOPER II**	1984 - 1987	4	4ZD1	CARB	S.O.H.C.	8-94153-966-2	**SWI10123**
2254	2.3L	138	**IMPULSE**	1988 - 1990	4	4ZD1	F.I.	S.O.H.C.	8-94153-966-2	**SWI10123**
2559	2.6L	156	**AMIGO**	1989 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**PICKUP**	1988 - 1992	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**RODEO**	1990 - 1992	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**TROOPER**	1989 - 1992	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**TROOPER II**	1988 ONLY	4	4ZE1	CARB	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**AMIGO**	1993 - 1997	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**PICKUP**	1993 - 1995	4	4ZE1	C & F	S.O.H.C.	8-94405-614-2	**SWI10144**
2559	2.6L	156	**RODEO**	1993 - 1997	4	4ZE1	F.I.	S.O.H.C.	8-94405-614-2	**SWI10144**
2827	2.8L	173	**TROOPER**	1989 - 1992	V6	LL2	F.I.	O.H.V.	8-14089-059-0	**SWI10154**
2921	2.9L	178	**i-290**	2006 - 2008	4	Vortec 2800 LLV	F.I.	D.O.H.C.	8-89060-378-0	**NA**
2999	3.0L	183	**NPR ECO-MAX**	2011 - 2015	4	4JJ1-TC	DIESEL	D.O.H.C.	8-98053-579-0	**SDI10215**
2999	3.0L	183	**NPR ECO-MAX**	2011 - 2015	4	4JJ1-TC	DIESEL	D.O.H.C.	8-97388-734-0	**SDI10210**
3137	3.1L	191	**PICKUP**	1991 - 1994	V6	CPC	F.I.	O.H.V.	8-10181-330-0	**SWI10155**
3137	3.1L	191	**RODEO**	1990 - 1992	V6	CPC	F.I.	O.H.V.	8-10181-330-0	**SWI10155**
3165	3.2L	193	**RODEO**	1993 - 1995	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	**SWI10185**
3165	3.2L	193	**TROOPER**	1991 - 1995	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	**SWI10185**
3165	3.2L	193	**RODEO**	1996 - 2005	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	**SWI10185**
3165	3.2L	193	**TROOPER**	1996 - 1997	V6	6VD1	F.I.	S.O.H.C.	8-97162-198-0	**SWI10185**
3165	3.2L	193	**TROOPER**	1991 - 1995	V6	6VD1	F.I.	D.O.H.C.	8-97162-198-0	**SWI10185**
3458	3.5L	211	**i-350**	2007 - 2008	5	Vortec 3500 L52	F.I.	O.H.V.	8-89060-378-0	**NA**
3494	3.5L	213	**AMIGO**	1998 - 2000	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**
3494	3.5L	213	**RODEO**	1998 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**
3494	3.5L	213	**RODEO SPORT**	2001 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**
3494	3.5L	213	**AXIOM**	2002 - 2004	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**
3494	3.5L	213	**TROOPER**	1999 - 2002	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**
3494	3.5L	213	**VehiCROSS**	1999 - 2001	V6	6VE1	F.I.	D.O.H.C.	8-97136-135-0	**SWI10191**

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

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									ISUZU
8-97167-093-2	**NA**		93.40	1.50	1.50		3.00		24 VALVE
8-89018-218-0	**X**		95.50						GMC Engine, 20 VALVE
8-88894-280-0	**NA**		101.60	1.50	1.50		3.00		GMC Engine, 16 VALVE
-	**NA**		115.00	2.95	2.00	2.50	3.00		w/ TURBO
-	**NA**		115.00	2.95	2.00	2.50	3.00		w/ TURBO
-	**NA**		115.00	2.95	2.00	2.50	3.00		w/ TURBO
8-88894-397-0	**11-829**	**333**	96.00	1.50	1.50		3.00		GMC Engine, LM4, 16 VALVE
8-89017-579-0	**NA**		96.00	1.50	1.50		3.00		GMC Engine, LM4, 16 VALVE
8-89017-577-0	**NA**		96.00	1.50	1.50		3.00		GMC Engine, LS4, 16 VALVE
8-89017-849-0	**TBA**		101.60	1.20	1.50		2.50		16 VALVE
									ISUZU - END

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									JAGUAR
XR8057639	X		81.60	1.20	1.50		3.00		MAZDA Engine, 24 VALVE
XR8057545	X		89.00	1.20	1.50		3.00		FORD Engine, DAMB, 24 VALVE
XR8057545	X		89.00	1.20	1.50		3.00		FORD Engine, DAMB, 24 VALVE
									JAGUAR - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
KIA										
1493	1.5L	91	**RIO**	2001 - 2002	4	DC	F.I.	D.O.H.C.	K3Y2-11-SCO	**SWK30019**
1493	1.5L	91	**RIO CINCO**	2001 - 2002	4	DC	F.I.	D.O.H.C.	K3Y2-11-SCO	**SWK30019**
1591	1.6L	97	**FORTE 5**	2014 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1591	1.6L	97	**FORTE KOUP**	2014 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1591	1.6L	97	**RAY**	2015 NEW	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1591	1.6L	97	**RIO**	2012 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1591	1.6L	97	**RIO 5**	2012 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1591	1.6L	97	**SOUL**	2009 - 2015	4	GAMMA 1.6L	F.I.	D.O.H.C.	23040-2B000	**SWG30046**
1597	1.6L	97	**SEPHIA**	1994 - 1995	4	B6	F.I.	S.O.H.C.	K2YA-11-SCO	**SWK30020**
1597	1.6L	97	**SEPHIA**	1995 - 1997	4	B6	F.I.	D.O.H.C.	K2YA-11-SCO	**SWK30020**
1597	1.6L	97	**SEPHIA**	1998 - 2000	4	B6	F.I.	D.O.H.C.	K2Y3-11-SCO	**NA**
1599	1.6L	98	**RIO**	2003 - 2005	4	ALPHA G4ED	F.I.	D.O.H.C.	23040-26101	**SWG30030**
1599	1.6L	98	**RIO CINCO**	2003 - 2005	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26101	**SWG30030**
1599	1.6L	98	**RIO**	2006 - 2011	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26120	**SWG30034**
1599	1.6L	98	**RIO 5**	2006 - 2011	4	ALPHA II G4ED	F.I.	D.O.H.C.	23040-26120	**SWG30034**
1793	1.8L	109	**SPECTRA**	2000 - 2004	4	FB	F.I.	D.O.H.C.	23040-2Y000	**SWG30040**
1793	1.8L	109	**SPECTRA5**	2004 ONLY	4	FB	F.I.	D.O.H.C.	23040-2Y000	**SWG30040**
1797	1.8L	110	**FORTE**	2014 - 2015	4	Nu 1.8L	F.I.	D.O.H.C.	23040-2E000	**NA**
1839	1.8L	112	**SEPHIA**	1995 - 2000	4	BP	F.I.	D.O.H.C.	BPY0-11-SCO	**SWT20066***
1975	2.0L	121	**SPECTRA5**	2005 - 2008	4	BETA G4GF	F.I.	D.O.H.C.	23040-23000	**SWG30028**
1975	2.0L	121	**SPORTAGE**	2005 - 2006	4	BETA G4GF	F.I.	D.O.H.C.	23040-23000	**SWG30028**
1975	2.0L	121	**SOUL**	2009 - 2011	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23400	**SWG30054**
1975	2.0L	121	**SPECTRA**	2007 - 2009	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	**SWG30054**
1975	2.0L	121	**SPECTRA5**	2009 ONLY	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	**SWG30054**
1975	2.0L	121	**SPORTAGE**	2007 - 2010	4	BETA II G4JP	F.I.	D.O.H.C.	23040-23300	**SWG30054**
1998	2.0L	122	**SPORTAGE**	1995 ONLY	4	FE	F.I.	S.O.H.C.	KFY3-11-SCO	**SWK30022**
1998	2.0L	122	**SPORTAGE**	1995 - 2002	4	FED	F.I.	D.O.H.C.	KFY3-11-SCO	**SWK30022**
1998	2.0L	122	**FORTE**	2009 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**FORTE KOUP**	2011 - 2013	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**OPTIMA**	2011 - 2015	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
1998	2.0L	122	**SPORTAGE**	2012 - 2015	4	THETA II 2.0L	F.I.	D.O.H.C.	23040-2C400	**SWG30042**
KIA - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
KIA										
1999	2.0L	122	**FORTE**	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	**NA**
1999	2.0L	122	**FORTE 5**	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	**NA**
1999	2.0L	122	**FORTE KOUP**	2014 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	**NA**
1999	2.0L	122	**SOUL**	2012 - 2015	4	Nu 2.0L	F.I.	D.O.H.C.	23040-2E000*	**NA**
2350	2.4L	143	**OPTIMA**	2001 - 2005	4	SIRIUS II G4JS	F.I.	D.O.H.C.	23040-38200	**TBA**
2359	2.4L	144	**FORTE**	2009 - 2013	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**FORTE KOUP**	2011 - 2013	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**OPTIMA**	2006 - 2008	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**RONDO**	2007 - 2010	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**SORENTO**	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**SPORTAGE**	2011 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**OPTIMA**	2009 - 2015	4	THETA II G4KC	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2359	2.4L	144	**OPTIMA HYBRID**	2011 - 2015	4	THETA II G4KH	F.I.	D.O.H.C.	23040-25200	**SWG30041**
2493	2.5L	152	**OPTIMA**	2001 ONLY	V6	DELTA G6BW	F.I.	D.O.H.C.	23040-37200	**NA**
2656	2.7L	162	**OPTIMA**	2002 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**SPORTAGE**	2005 - 2006	V6	DELTA G6BA	F.I.	D.O.H.C.	23040-37300	**SWG30037**
2656	2.7L	162	**KEE**	2015 NEW	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2656	2.7L	162	**OPTIMA**	2006 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2656	2.7L	162	**RONDO**	2007 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
2656	2.7L	162	**SPORTAGE**	2007 - 2010	V6	Mu G6A5	F.I.	D.O.H.C.	23040-3E001	**SWG30045**
3342	3.3L	204	**SORENTO**	2008 - 2009	V6	LAMBDA G6DB	F.I.	D.O.H.C.	23040-3C150	**SWG30055**
3342	3.3L	204	**SORENTO**	2014 - 2015	V6	LAMBDA G6DH	F.I.	D.O.H.C.	-	**NA**
3342	3.3L	204	**CADENZA**	2014 - 2015	V6	LAMBDA II G6DG	F.I.	D.O.H.C.	23040-3C100	**NA**
3470	3.5L	212	**KND-5**	2015 NEW	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	**NA**
3470	3.5L	212	**SEDONA**	2011 - 2015	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	**NA**
3470	3.5L	212	**SORENTO**	2011 - 2013	V6	LAMBDA G6DC	F.I.	D.O.H.C.	23040-3CAA0	**NA**
3497	3.5L	213	**AMANTI**	2004 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	**SWG30056**
3497	3.5L	213	**SORENTO**	2002 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	**SWG30056**
3497	3.5L	213	**SEDONA**	2002 - 2006	V6	SIGMA G6AU	F.I.	D.O.H.C.	23040-39800	**SWG30056**
3778	3.8L	231	**AMANTI**	2007 - 2009	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**BORREGO**	2009 ONLY	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**SEDONA**	2007 - 2010	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
3778	3.8L	231	**SORENTO**	2007 - 2009	V6	LAMBDA RS 3800	F.I.	D.O.H.C.	23040-3C200	**NA**
KIA - CONTINUED										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									KIA
-	**NA**		81.00						16 VALVE
-	**NA**		81.00						16 VALVE
-	**NA**		81.00						16 VALVE
-	**NA**		81.00						16 VALVE
23410-38200	**11-772**	**323**	86.50	1.20	1.50		2.80		VIN 6, 16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		16 VALVE
23410-25211	**11-908**	**351**	88.00	1.20	1.20		2.00		16 VALVE
23410-2G200	**NA**		88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-2G200	**NA**		88.00	1.20	1.20		2.00		VIN 3, 16 VALVE
23410-37210	**11-771**	**322**	84.00	1.20	1.20		2.50		24 VALVE
23410-37310	**11-862**	**340**	86.70	1.20	1.20		2.50		24 VALVE
23410-37310	**11-862**	**340**	86.70	1.20	1.20		2.50		24 VALVE
23410-3E001	**11-892**	**347**	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	**11-892**	**347**	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	**11-892**	**347**	86.70	1.20	1.20		2.00		24 VALVE
23410-3E001	**11-892**	**347**	86.70	1.20	1.20		2.00		24 VALVE
23041-3C151	**NA**		92.00	1.20	1.20		2.00		24 VALVE
-	**NA**		92.00						24 VALVE
23041-3C611	**NA**		92.00						24 VALVE
23041-3CAA1	**NA**		92.00						24 VALVE
23041-3CAA1	**NA**		92.00						24 VALVE
23041-3CAA1	**NA**		92.00						24 VALVE
23040-39800	**NA**		93.00	1.50	1.50		3.00		24 VALVE
23040-39800	**NA**		93.00	1.50	1.50		3.00		24 VALVE
23400-39800	**NA**		93.00	1.50	1.50		3.00		24 VALVE
23041-3C600	**NA**		96.00						24 VALVE
23041-3C600	**NA**		96.00						24 VALVE
23041-3C600	**NA**		96.00						24 VALVE
23041-3C600	**NA**		96.00						24 VALVE
									KIA - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
KIA										
4627	4.6L	282	**BORREGO**	2009 ONLY	V8	TAU G8BA	F.I.	D.O.H.C.	23040-3F300	**NA**
4627	4.6L	282	**KUE**	2015 NEW	V8	TAU G8BA	F.I.	D.O.H.C.	23040-3F300	**NA**
5038	5.0L	307	**K900**	2014 - 2015	V8	TAU G8BE	F.I.	D.O.H.C.	23040-3F400	**NA**
KIA - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									KIA
23041-3F301	**NA**		92.00						32 VALVE
23041-3F301	**NA**		92.00						32 VALVE
23041-3F400	**NA**		96.00						32 VALVE
									KIA - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
LAND ROVER										
4009	4.0L	245	**LR3**	2005 - 2009	V6	COLOGNE V6	F.I.	S.O.H.C.	2U3Z 6148 AA	**SWF30012**
LAND ROVER - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									LAND ROVER
2U3Z 6108 AA	X		100.40	1.20	1.50		3.00		FORD Engine, 12 VALVE
									LAND ROVER - END

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
LEXUS										
4664	4.7L	285	**GX 470**	2003 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	**SWT10203**
4664	4.7L	285	**GX 470**	2003 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	**SWT10203**
4664	4.7L	285	**LX 470**	1998 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4664	4.7L	285	**LX 470**	1998 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4664	4.7L	285	**GX 470**	2005 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	**SWT10240**
4664	4.7L	285	**GX 470**	2003 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50161	**SWT10240**
4664	4.7L	285	**LX 470**	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-01F10	**SWT10240**
4664	4.7L	285	**LX 470**	2005 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-01F10	**SWT10240**
4805	4.8L	293	**LFA**	2012 - 2015	V10	1LR-GUE	F.I.	D.O.H.C.	-	**NA**
4805	4.8L	293	**LFA**	2012 - 2015	V10	1LR-GUE	F.I.	D.O.H.C.	-	**NA**
4969	5.0L	303	**IS-F**	2008 - 2015	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
4969	5.0L	303	**IS-F**	2008 - 2015	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
4969	5.0L	303	**LS 600 HYBRID**	2008 - 2015	V8	2UR-FSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
4969	5.0L	303	**LS 600 HYBRID**	2008 - 2015	V8	2UR-FSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
4969	5.0L	303	**RC F**	2015 - 2016	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
4969	5.0L	303	**RC F**	2015 - 2016	V8	2UR-GSE	F.I.	D.O.H.C.	13011-38090	**SDT10204**
5000	5.0L	305	**LF-LC HYBRID**	2016 - 2017	V8		F.I.	D.O.H.C.	-	**NA**
5000	5.0L	305	**LF-LC HYBRID**	2016 - 2017	V8		F.I.	D.O.H.C.	-	**NA**
5663	5.7L	346	**LX 570**	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
LEXUS - END										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									LEXUS
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50081-01	**11-912**	**352**	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50071-01	**11-912**	**352**	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50081-01	**11-912**	**352**	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50071-01	**11-912**	**352**	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
-	**NA**		88.00						RIGHT, 40 VALVE
-	**NA**		88.00						LEFT, 40 VALVE
13101-38120	**NA**		94.00	1.20	1.20		2.00		RIGHT, 32 VALVE
13301-38020	**NA**		94.00	1.20	1.20		2.00		LEFT, 32 VALVE
13101-38120	**NA**		94.00	1.20	1.20		2.00		RIGHT, 32 VALVE
13301-38020	**NA**		94.00	1.20	1.20		2.00		LEFT, 32 VALVE
13101-38120	**NA**		94.00	1.20	1.20		2.00		RIGHT, 32 VALVE
13301-38020	**NA**		94.00	1.20	1.20		2.00		LEFT, 32 VALVE
-	**NA**								RIGHT, 32 VALVE
-	**NA**								LEFT, 32 VALVE
13101-0S011	**NA**		94.00						32 VALVE
									LEXUS - END

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
MAZDA										
2488	2.5L	152	**TRIBUTE HYBRID**	2008 - 2009	4	L5-VEH	F.I.	D.O.H.C.	-	**NA**
2489	2.5L	152	**CX-7**	2010 - 2012	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SCO	**NA**
2489	2.5L	152	**MAZDA 3**	2010 - 2015	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SC0	**NA**
2489	2.5L	152	**MAZDA 5**	2012 - 2015	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SC0	**NA**
2489	2.5L	152	**MAZDA 6**	2009 - 2012	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SC0	**NA**
2489	2.5L	152	**TRIBUTE**	2008 - 2011	4	L5-VE	F.I.	D.O.H.C.	L5Y3-11-SC0	**NA**
2494	2.5L	152	**MPV**	2000 - 2001	V6	GY-DE	F.I.	D.O.H.C.	GYTT-11-SC0	**NA**
2507	2.5L	153	**626**	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**626**	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MILLENIA**	1995 - 1996	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MILLENIA**	1995 - 1996	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MILLENIA**	1997 - 2002	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MILLENIA**	1997 - 2002	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MX6**	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**MX6**	1993 - 1997	V6	KL-DE	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**626**	1998 - 1999	V6	KL-G4	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**626**	2000 - 2002	V6	KL-G4	F.I.	D.O.H.C.	KLY2-11-SC0A	**SWT20073**
2507	2.5L	153	**B2500**	1998 - 2001	4	C	F.I.	S.O.H.C.	ZZP0-23-130	**SWT20076**
2555	2.6L	156	**B2600**	1986 - 1987	4	AM1	CARB	S.O.H.C.	AM15-11-SC0	**SWM31039**
2555	2.6L	156	**B2600**	1988 ONLY	4	AM1	CARB	S.O.H.C.	AM15-11-SC0	**SWM31039**
2606	2.6L	159	**B2600i**	1989 - 1993	4	G6	F.I.	S.O.H.C.	G601-11-SC0A	**SWT20064**
2606	2.6L	159	**MPV**	1989 - 1994	4	G6	F.I.	S.O.H.C.	G601-11-SC0A	**SWT20064**
2954	3.0L	180	**929**	1988 - 1991	V6	JE	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2954	3.0L	180	**MPV**	1989 - 1993	V6	JE	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2954	3.0L	180	**MPV**	1994 - 1999	V6	JE	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2954	3.0L	180	**MPV**	1994 - 1999	V6	JE	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2954	3.0L	180	**929**	1992 - 1995	V6	JE48	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2954	3.0L	180	**929**	1992 - 1995	V6	JE48	F.I.	S.O.H.C.	JEY1-11-SC0	**SWT20062**
2967	3.0L	181	**MAZDA 6**	2003 - 2008	V6	AJ-DE	F.I.	D.O.H.C.	-	**SWF30021***
2967	3.0L	181	**MPV**	2002 - 2006	V6	AJ-DE	F.I.	D.O.H.C.	-	**SWF30021***
2967	3.0L	181	**B3000**	1998 - 2004	V6	VULCAN V6	F.I.	O.H.V.	ZZP1-23-130	**SWT20086**
2967	3.0L	181	**B3000**	2005 - 2008	V6	VULCAN V6	F.I.	O.H.V.	1F61-23-130	**SWT20086**
2967	3.0L	181	**TRIBUTE**	2001 - 2011	V6	AJ, V	F.I.	D.O.H.C.	ZZCA-11-100	**SWI10155**

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

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
MAZDA										
2983	3.0L	182	**B3000**	1994 - 1997	V6	VULCAN V6	F.I.	O.H.V.	ZZMD-23-130	**SWT20075**
3496	3.5L	213	**CX-9**	2007 ONLY	V6	MZI 3.5	F.I.	D.O.H.C.	-	**TBA**
3726	3.7L	227	**CX-9**	2008 - 2015	V6	MZI 3.7	F.I.	D.O.H.C.	-	**NA**
3726	3.7L	227	**MAZDA 6**	2009 - 2012	V6	MZI 3.7	F.I.	D.O.H.C.	-	**NA**
4016	4.0L	245	**B4000**	2004 - 2009	V6	COLONGE V6	F.I.	S.O.H.C.	1F62-23-130	**SWF30012**
4016	4.0L	245	**NAVAJO**	1989 - 1994	V6	COLONGE V6 XS	F.I.	S.O.H.C.	ZZM2-23-130	**SWT20072**
4016	4.0L	245	**B4000**	1994 - 1997	V6	COLONGE V6 XS	F.I.	S.O.H.C.	ZZM2-23-130	**SWT20072**
4016	4.0L	245	**B4000**	1998 - 2003	V6	COLONGE V6 XS	F.I.	S.O.H.C.	ZZM2-23-130	**SWT20072**
MAZDA - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									MAZDA
ZZN2-23-200	**NA**		89.00	1.50	1.50		4.00		FORD Engine, 12 VALVE
-	**NA**		92.50	1.20	1.50		2.50		FORD Duratec 35, 24 VALVE
-	**NA**		95.50						FORD Duratec 37, 24 VALVE
-	**NA**		95.50						FORD Duratec 37, 24 VALVE
1F22-23-200	**NA**		100.40	1.20	1.50		3.00		FORD Engine, 12 VALVE
ZZL0-11-100A	**NA**		100.40	1.60	1.75		3.50		FORD Engine, 12 VALVE
ZZMB-23-200	**NA**		100.40	1.60	1.75		3.50		FORD Engine, 12 VALVE
ZZP2-23-200	**NA**		100.40	1.60	1.75		3.50		FORD Engine, 12 VALVE
									MAZDA - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
MERCEDES-BENZ										
2987	3.0L	182	**E320 BlueTEC**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**E320 BlueTEC**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**E350 BlueTEC**	2011 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**E350 BlueTEC**	2011 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**GL320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**GL320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**GL350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**GL350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**ML320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**ML320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**ML350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**ML350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**R320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**R320**	2007 - 2010	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**R350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**R350 BlueTEC**	2010 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**SPRINTER**	2011 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
2987	3.0L	182	**SPRINTER**	2011 - 2012	V6	OM642	DIESEL	D.O.H.C.	642 030 00 24	TBA
3498	3.5L	213	**C350**	2006 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**CLK350**	2006 - 2010	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**E350**	2006 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**GLK350**	2010 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**ML350**	2008 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**R350**	2007 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
3498	3.5L	213	**SLK350**	2005 - 2012	V6	M272.960	F.I.	D.O.H.C.	276 030 02 24	TBA
MERCEDES-BENZ - DONE										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									MERCEDES-BENZ
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, w/ TURBO, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, w/ TURBO, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, w/ TURBO, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, w/ TURBO, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, w/ TURBO, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, w/ TURBO, 24 VALVE
645 030 25 17	X		83.00	2.00	2.00		2.00		LEFT, w/ TURBO, 24 VALVE
642 030 24 17	X		83.00	2.00	2.00		2.00		RIGHT, w/ TURBO, 24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
272 030 34 17	X		92.90	1.50	1.75		2.50		24 VALVE
									MERCEDES-BENZ - DONE

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
MITSUBISHI										
1193	1.2L	73	**MIRAGE**	2014 - 2015	3	3A92	F.I.	D.O.H.C.	-	**NA**
1468	1.5L	90	**MIRAGE**	1984 - 1986	4	G15B	CARB	S.O.H.C.	MD156165	**SWM31063**
1468	1.5L	90	**PRECIS**	1987 - 1989	4	G15B	CARB	S.O.H.C.	23040-21210	**SWM31063**
1468	1.5L	90	**MIRAGE**	1987 - 1989	4	G15B	CARB	S.O.H.C.	MD156165	**SWM31063**
1468	1.5L	90	**MIRAGE**	1990 ONLY	4	4G15	F.I.	S.O.H.C.	MD156169	**SWM31063**
1468	1.5L	90	**PRECIS**	1990 - 1994	4	G4DJ	CARB	S.O.H.C.	23040-24200	**SWM31063**
1468	1.5L	90	**MIRAGE**	1991 - 1996	4	4G15	F.I.	S.O.H.C.	MD180804	**SWM31076**
1468	1.5L	90	**MIRAGE**	1995 - 1996	4	4G15	F.I.	S.O.H.C.	MD180804	**SWM31076**
1468	1.5L	90	**MIRAGE**	1997 - 1999	4	4G15	F.I.	S.O.H.C.	MD332715	**SWM31145**
1468	1.5L	90	**MIRAGE**	1997 - 2002	4	4G15	F.I.	S.O.H.C.	MD332715	**SWM31145**
1595	1.6L	97	**MIRAGE**	1989 ONLY	4	4G61	F.I.	D.O.H.C.	MD133495	**SWM31049**
1595	1.6L	97	**MIRAGE**	1991 - 1992	4	4G61	F.I.	D.O.H.C.	MD133495	**SWM31049**
1597	1.6L	97	**MIRAGE**	1984 - 1986	4	G32B	F.I.	S.O.H.C.	MD012765	**SWM31043**
1597	1.6L	97	**MIRAGE**	1987 - 1988	4	G32B	F.I.	S.O.H.C.	MD012765	**SWM31043**
1755	1.8L	107	**ECLIPSE**	1990 - 1994	4	4G37	F.I.	S.O.H.C.	MD040465	**SWM31041**
1795	1.8L	110	**CORDIA**	1983 ONLY	4	G62B	CARB	S.O.H.C.	MD040610	**SWM31040**
1795	1.8L	110	**TREDIA**	1983 ONLY	4	G62B	CARB	S.O.H.C.	MD040610	**SWM31040**
1795	1.8L	110	**CORDIA**	1984 - 1988	4	G62B	CARB	S.O.H.C.	MD040465	**SWM31041**
1795	1.8L	110	**TREDIA**	1984 - 1988	4	G62B	CARB	S.O.H.C.	MD040465	**SWM31041**
1834	1.8L	112	**EXPO, EXPO LRV**	1992 - 1994	4	4G93	F.I.	S.O.H.C.	MD173206	**SWM31079**
1834	1.8L	112	**MIRAGE**	1997 - 1999	4	4G93	F.I.	S.O.H.C.	MD173206	**SWM31079**
1834	1.8L	112	**MIRAGE**	1997 - 2002	4	4G93	F.I.	S.O.H.C.	MD173206	**SWM31079**
1834	1.8L	112	**MIRAGE**	1993 - 1996	4	4G93	F.I.	S.O.H.C.	MD173206	**SWM31079**
1997	2.0L	122	**CORDIA**	1984 - 1988	4	G63B	CARB	S.O.H.C.	MD040640	**SWM31013**
1997	2.0L	122	**PICKUP**	1983 - 1986	4	G63B	CARB	S.O.H.C.	MD040640	**SWM31013**
1997	2.0L	122	**TREDIA**	1984 - 1988	4	G63B	CARB	S.O.H.C.	MD040640	**SWM31013**
1997	2.0L	122	**GALANT**	1989 - 1992	4	G63B	F.I.	S.O.H.C.	MD100467	**SWM31044**
1997	2.0L	122	**MIGHTY MAX**	1988 - 1989	4	G63B	F.I.	S.O.H.C.	MD100467	**SWM31044**
1997	2.0L	122	**PICKUP**	1987 - 1989	4	G63B	F.I.	S.O.H.C.	MD100467	**SWM31044**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
MITSUBISHI										
1997	2.0L	122	**ECLIPSE**	1989 - 1992	4	4G63	F.I.	D.O.H.C.	MD144245	**SWM31048**
1997	2.0L	122	**GALANT**	1989 - 1991	4	4G63	F.I.	D.O.H.C.	MD144245	**SWM31048**
1997	2.0L	122	**ECLIPSE**	1989 - 1991	4	4G63	F.I.	D.O.H.C.	MD140923	**SWM31048**
1997	2.0L	122	**GALANT**	1992 ONLY	4	4G63	F.I.	D.O.H.C.	MD140923	**SWM31048**
1997	2.0L	122	**ECLIPSE**	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD195867	**SWM31071**
1997	2.0L	122	**ECLIPSE**	1993 - 1994	4	4G63	F.I.	D.O.H.C.	MD176437	**SWM31071**
1997	2.0L	122	**ECLIPSE**	1995 ONLY	4	420A	F.I.	D.O.H.C.	M04741401	**SWM31120**
1997	2.0L	122	**ECLIPSE**	1996 - 1999	4	420A	F.I.	D.O.H.C.	M04741401	**SWM31120**
1997	2.0L	122	**ECLIPSE**	1995 - 1998	4	4G63	F.I.	D.O.H.C.	MD313405	**SWM31103**
1997	2.0L	122	**GALANT**	1993 ONLY	4	4G63	F.I.	S.O.H.C.	MD195805	**SWM31103**
1997	2.0L	122	**GALANT**	1992 ONLY	4	4G63	F.I.	D.O.H.C.	MD144245	**SWM31048**
1997	2.0L	122	**LANCER EVO.**	2003 - 2007	4	4G63	F.I.	D.O.H.C.	MN155259	**SWM31143**
1998	2.0L	122	**LANCER**	2009 - 2015	4	4B11	F.I.	D.O.H.C.	1110A436	**SWG30042**
1998	2.0L	122	**OUTLANDER SPORT**	2010 - 2015	4	4B11	F.I.	D.O.H.C.	1110A436	**SWG30042**
1998	2.0L	122	**LANCER EVO.**	2008 - 2014	4	4B11T	F.I.	D.O.H.C.	1110A436*	**SWG30042**
1998	2.0L	122	**LANCER RALLIART**	2009 - 2015	4	4B11T	F.I.	D.O.H.C.	1110A436*	**SWG30042**
1999	2.0L	122	**LANCER**	2002 ONLY	4	4G94	F.I.	S.O.H.C.	MD371189	**SWM31164**
1999	2.0L	122	**LANCER**	2003 - 2006	4	4G94	F.I.	S.O.H.C.	MD371157	**SWM31164**
1999	2.0L	122	**LANCER**	2003 - 2006	4	4G94	F.I.	S.O.H.C.	MN155259	**NA**
2346	2.3L	143	**PICKUP**	1983 - 1985	4	4D55	DIESEL	S.O.H.C.	MD103391	**SDM31038**
2350	2.4L	143	**MIGHTY MAX**	1993 - 1996	4	4G64	F.I.	S.O.H.C.	MD195872	**SWM31072**
2350	2.4L	143	**PICKUP**	1993 - 1996	4	4G64	F.I.	S.O.H.C.	MD195872	**SWM31072**
2350	2.4L	143	**EXPO, EXPO LRV**	1992 ONLY	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
2350	2.4L	143	**GALANT**	1987 - 1988	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
2350	2.4L	143	**MIGHTY MAX**	1990 - 1992	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
2350	2.4L	143	**PICKUP**	1990 - 1992	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
2350	2.4L	143	**VAN**	1987 - 1991	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
2350	2.4L	143	**GALANT**	1984 - 1986	4	G64B	F.I.	S.O.H.C.	MD085346	**SWM31037**
MITSUBISHI - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									MITSUBISHI
5019316AA	**11-806**	**329**	93.00	1.50	1.50		3.00		CHRYSLER Engine, 12 VALVE
MN183040	**11-848**	**337**	95.00	1.20	1.20		2.00		24 VALVE
MN183040*	**11-848**	**337**	95.00	1.20	1.20		2.00		24 VALVE
MN183040*	**11-848**	**337**	95.00	1.20	1.20		2.00		24 VALVE
MN183040*	**11-848**	**337**	95.00	1.20	1.20		2.00		24 VALVE
MN128276	**11-848***	**337**	95.00	1.20	1.20		2.00		24 VALVE
5012362AB	**11-807**	**329**	93.00	1.50	1.50		3.00		CHRYSLER Engine, 16 VALVE
68031605AD	**11-902**	**350**	93.00	1.20	1.50		2.50		CHRYSLER Engine, 16 VALVE
									MITSUBISHI - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
NISSAN										
1237	1.2L	75	**1200**	1972 - 1973	4	A12	CARB		12033-H6200	**SWN30026**
1237	1.2L	75	**210**	1980 - 1981	4	A12A	CARB		12033-H8500	**SWN30073**
1237	1.2L	75	**210**	1982 ONLY	4	A12A	CARB		12033-H8500	**SWN30073**
1288	1.3L	79	**B210**	1974 ONLY	4	A13	CARB		12033-H6200	**SWN30026**
1397	1.4L	85	**210**	1979 ONLY	4	A14	CARB		12033-H8920	**SWN30045**
1397	1.4L	85	**210**	1979 - 1982	4	A14	CARB		12033-H8920	**SWN30045**
1397	1.4L	85	**310**	1979 - 1980	4	A14	CARB		12033-H8920	**SWN30045**
1397	1.4L	85	**210**	1979 ONLY	4	A14	CARB		12033-H8920	**SWN30045**
1397	1.4L	85	**310**	1979 ONLY	4	A14	CARB		12033-H8920	**SWN30045**
1397	1.4L	85	**B210**	1975 - 1978	4	A14	CARB		12033-H7200	**SWN30045**
1397	1.4L	85	**B210**	1977 - 1978	4	A14	CARB		12033-H7680	**SWN30052**
1488	1.5L	91	**210**	1979 - 1980	4	A15	CARB		12033-H9820	**SWN30052**
1488	1.5L	91	**210**	1981 - 1982	4	A15	CARB		12033-H9820	**SWN30052**
1488	1.5L	91	**310**	1981 ONLY	4	A15	CARB		12033-H9820	**SWN30052**
1488	1.5L	91	**310**	1982 ONLY	4	E15	CARB	S.O.H.C.	12033-50A00	**SWN30057**
1488	1.5L	91	**SENTRA**	1982 - 1983	4	E15S	CARB	S.O.H.C.	12033-50A00	**SWN30057**
1487	1.5L	91	**PULSAR**	1983 ONLY	4	E15T	F.I.	S.O.H.C.	12033-50A00	**SWN30057**
1595	1.6L	97	**521**	1972 - 1973	4	L16	CARB		12033-A3501	**SWN30014**
1595	1.6L	97.3	**620**	1972 ONLY	4	L16	CARB		12033-A3501	**SWN30014**
1595	1.6L	97.3	**620**	1973 ONLY	4	L16	CARB		12033-A3501	**SWN30014**
1595	1.6L	97	**SRL 311**	1966 - 1970	4	R16	CARB	O.H.V.	12033-14601	**SWN30069**
1595	1.6L	97	**411**	1965 - 1968	4	R16	CARB		12033-14601	**SWN30069**
1597	1.6L	97	**PULSAR**	1983 - 1984	4	E16	CARB	S.O.H.C.	12033-50A00	**SWN30057**
1597	1.6L	97	**PULSAR**	1985 - 1986	4	E16, E16i	CARB	S.O.H.C.	12033-61A01	**SWN30057**
1597	1.6L	97	**SENTRA**	1983 - 1986	4	E16	CARB	S.O.H.C.	12033-50A00	**SWN30057**
1597	1.6L	97	**SENTRA**	1987 - 1988	4	E16i, E16S	F.I.	S.O.H.C.	12033-50A00	**SWN30057**
1597	1.6L	97	**PULSAR**	1989 - 1990	4	GA16i	F.I.	S.O.H.C.	12033-84A11	**SWN30097**
1597	1.6L	97	**SENTRA**	1989 - 1990	4	GA16i	F.I.	S.O.H.C.	12033-84A11	**SWN30097**
1597	1.6L	97	**NX**	1991 - 1994	4	GA16DE	F.I.	S.O.H.C.	12033-57Y01	**SWN30104**
1597	1.6L	97	**SENTRA**	1991 - 1994	4	GA16DE	F.I.	S.O.H.C.	12033-57Y01	**SWN30104**
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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									NISSAN
12010-H1061	*DISC. 11-036*		73.00	2.00	2.00		4.00		
12010-H9022	*DISC. 11-037*		75.00	2.00	2.00		4.00		
12010-H9512	*DISC. 11-040*		75.00	2.00	2.00		4.00		
12010-H6211	*DISC. 11-041*		73.00	2.00	2.00		4.00		
12010-H7684	*DISC. 11-044*		76.00	2.00	2.00		4.00		w/o CALIF E.C.S. w/ FUEL Pkg
12010-H7685	*DISC. 11-044*		76.00	2.00	2.00		4.00		w/ CALIF E.C.S.
12010-H7685	*DISC. 11-044*		76.00	2.00	2.00		4.00		w/ CALIF E.C.S.
12010-H7711	*DISC. 11-044*		76.00	2.00	2.00		4.00		w/ CALIF E.C.S., w/o FUEL Pkg
12010-H7711	*DISC. 11-044*		76.00	2.00	2.00		4.00		w/o CALIF E.C.S.
12010-H7711	*DISC. 11-044*		76.00	2.00	2.00		4.00		
12010-H8702	*DISC. 11-047*		76.00	1.20	2.00		4.00		w/o FUEL Pkg
12010-H9704	*DISC. 11-048*		76.00	1.20	2.00		4.00		w/ CALIF E.C.S.
12010-H9802	**11-049**	**277**	76.00	1.20	2.00		4.00		
12010-H9802	**11-049**	**277**	76.00	1.20	2.00		4.00		
12010-11M22	**11-050**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-11M22	**11-050**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-17M12	*DISC. 11-051*		76.00	1.50	1.50		4.00		w/ TURBO, 8 VALVE
12010-23002	*DISC. 11-053*		83.00	2.00	2.00		4.00		
12010-23002	*DISC. 11-053*		83.00	2.00	2.00		4.00		
12010-H2501	*DISC. 11-054*		83.00	2.00	2.00		4.00		8 VALVE
-	*DISC. 11-055*		87.20	2.00	2.50		4.00		1600 ROADSTER
-	**NA**		87.20	2.00	2.50		4.00		
12010-33M22	**11-052**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	**11-052**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	**11-052**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-33M22	**11-052**	**278**	76.00	1.50	1.50		4.00		8 VALVE
12010-84A61	**11-590**	**296**	76.00	1.50	1.50		2.80		12 VALVE
12010-84A61	**11-590**	**296**	76.00	1.50	1.50		2.80		12 VALVE
A2010-57Y00	**11-601**	**296**	76.00	1.50	1.50		2.80		16 VALVE
A2010-57Y00	**11-601**	**296**	76.00	1.50	1.50		2.80		16 VALVE
									NISSAN - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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

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

PISTON RINGS

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									NISSAN
12010-Y4111	**11-081**	**280**	86.00	2.00	2.00		4.00		12 VALVE
12010-Y4131	**11-081**	**280**	86.00	2.00	2.00		4.00		12 VALVE
12010-Y8621	**11-082**	**281**	86.00	2.00	2.00		4.00		12 VALVE
12010-P7912	**11-084**	**281**	86.00	1.50	2.00		4.00		12 VALVE
12010-P9012	*DISC. 11-085*		86.00	1.50	2.00		4.00		w/ TURBO, 12 VALVE
12010-W2502	*DISC. 11-086*		84.50	2.00	2.00		4.00		
12010-W2502	*DISC. 11-086*		84.50	2.00	2.00		4.00		
12010-V7101	*DISC. 11-088*		87.00	1.50	1.50		2.80		12 VALVE
12010-V7101	*DISC. 11-088*		87.00	1.50	1.50		2.80		12 VALVE
12010-02P01	*DISC. 11-089*		87.00	1.50	1.50		2.80		w/ TURBO, 12 VALVE
12010-13G63	*DISC. 11-607*		87.00	2.00	1.50		2.80		12 VALVE
A2010-13G61	*DISC. 11-607*		87.00	2.00	1.50		2.80		12 VALVE
12010-V7175	**11-603**	**297**	87.00	1.50	1.50		2.80		12 VALVE
A2010-10G03	**11-603**	**297**	87.00	1.50	1.50		2.80		12 VALVE
A2010-10G03	**11-603**	**297**	87.00	1.50	1.50		2.80		12 VALVE
A2010-96E00	**11-675**	**305**	87.00	1.50	1.50		2.80		24 VALVE
A2010-1B100	**11-681**	**307**	87.00	1.50	1.50		2.80		CYL #1,3,5, 12 VALVE
A2010-1B110	**11-681**	**307**	87.00	1.50	1.50		2.80		CYL #2,4,6, 12 VALVE
A2010-30P00	**11-727**	**314**	87.00	1.50	1.50		2.80		24 VALVE
A2010-30P10	**NA**		87.00	1.50	1.50		2.80		w/ TURBO, 24 VALVE
A2010-38U10	**11-711**	**311**	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Y900	**11-800**	**328**	93.00	1.20	1.20		2.50		24 VALVE
A2010-2Z000	**NA**		91.50	1.50	1.50		2.80		12 VALVE
A2010-2Z062	**NA**		91.50	1.50	1.50		2.80		12 VALVE
A2010-2Z062	**NA**		91.50	1.50	1.50		2.80		12 VALVE
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U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SAAB										
1994	2.0L	122	**9-2X**	2005 - 2006	H4	EJ20	F.I.	D.O.H.C.	12033AD190	**SWF20060**
1998	2.0L	122	**9-5**	2011 - 2012	4	ECOTEC LK9	F.I.	D.O.H.C.	-	**NA**
2457	2.5L	150	**9-2X**	2005 - 2006	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20066**
2457	2.5L	150	**9-2X**	2006 ONLY	H4	EJ255	F.I.	S.O.H.C.	12033AB340	**SWF20068**
2962	3.0L	181	**9-5**	2000 - 2003	V6	ELLESMERE L81	F.I.	D.O.H.C.	88 22 413	**SWG10016**
2962	3.0L	181	**9-5 SportCombi**	1999 ONLY	V6	ELLESMERE L81	F.I.	D.O.H.C.	88 22 413	**SWG10016**
5328	5.3L	325	**9-7X**	2005 - 2009	V8	Vortec 5300 IV	F.I.	O.H.V.	12456338	**SWG10005**
5957	6.0L	364	**9-7X**	2008 - 2009	V8	Vortec 6000 LS2	F.I.	O.H.V.	89017484	**SWG10031**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									SAAB
12006AA340	**NA**		92.00	1.20	1.50		3.00		SUBARU Engine, 16 VALVE
-	**NA**		86.00						GMC Engine, w/ TURBO, 16 VALVE
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		SUBARU Engine, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		SUBARU Engine, w/ TURBO, 16 VALVE
47 71 051	**X**		86.00	1.20	1.50		3.00		GMC Engine, w/ VTECH, 24 VALVE
47 71 051	**X**		86.00	1.20	1.50		3.00		GMC Engine, w/ VTECH, 24 VALVE
89017577	**11-899**	**349**	96.00	1.50	1.50		3.00		GMC Engine, LH6, 16 VALVE
19178305	**X**		101.60	1.20	1.50		2.50		GMC Engine, 16 VALVE
									SAAB - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SCION										
1329	1.3L	81	**iQ**	2011 - 2015	4	1NR-FE	F.I.	D.O.H.C.	13011-47031	**NA**
1497	1.5L	91	**xA**	2003 - 2006	4	1NZ-FE	F.I.	D.O.H.C.	13011-21041	**SWT10192**
1497	1.5L	91	**xB**	2003 - 2006	4	1NZ-FE	F.I.	D.O.H.C.	13011-21041	**SWT10192**
1798	1.8L	110	**xD**	2007 - 2015	4	2ZR-FE	F.I.	D.O.H.C.	13011-0T010	**SWT10232**
1998	2.0L	122	**FR-S**	2012 - 2015	H4	4UG-SE	F.I.	D.O.H.C.	SU003-00145	**NA**
1998	2.0L	122	**FR-S**	2012 - 2015	H4	4UG-SE	F.I.	D.O.H.C.	SU003-00145	**NA**
2362	2.4L	144	**tC**	2004 - 2006	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	**SWT10182**
2362	2.4L	144	**tC**	2007 - 2010	4	2AZ-FE	F.I.	D.O.H.C.	13011-28161	**SDT10200**
2362	2.4L	144	**xB**	2007 - 2015	4	2AZ-FE	F.I.	D.O.H.C.	13011-28161	**SDT10200**
2494	2.5L	152	**tC**	2011 - 2015	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	**SDT10226**

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									SCION
13101-47021	**NA**		72.50						16 VALVE
13101-21030	**11-776**	**324**	75.00	1.20	1.20		2.00		VVT-i. 16 VALVE
13101-21030	**11-776**	**324**	75.00	1.20	1.20		2.00		VVT-i. 16 VALVE
13101-0T010	**NA**		80.50	1.00	1.00		1.50		16 VALVE
SU003-00137	**NA**		86.00	1.20	1.00		2.00		SUBARU Engine, RIGHT, 16 VALVE
SU003-00141	**NA**		86.00	1.20	1.00		2.00		SUBARU Engine, LEFT, 16 VALVE
13211-28030-A0	**11-792**	**326**	88.50	1.20	1.20		2.00		16 VALVE
13211-28112-A0	**11-896**	**348**	88.50	1.00	1.00		2.00		16 VALVE
13211-28112-A0	**11-896**	**348**	88.50	1.00	1.00		2.00		16 VALVE
13211-0V011-A0	**11-897**	**348**	90.00	1.00	1.00		2.00		VVT-i, 16 VALVE
									SCION - END

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SUBARU										
1781	1.8L	109	**BRAT**	1985 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**GL SEDAN**	1985 - 1988	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**GL-10 SEDAN**	1986 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**LEONE 1800**	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**LOYALE**	1990 ONLY	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**RX SEDAN**	1985 - 1986	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1781	1.8L	109	**XT SEDAN**	1985 - 1987	H4	EA82	F.I.	S.O.H.C.	12033AA000	**SWF20057**
1820	1.8L	111	**IMPREZA**	1993 - 1996	H4	EJ18	F.I.	S.O.H.C.	12033AA090	**SWF20043**
1820	1.8L	111	**IMPREZA**	1993 - 1996	H4	EJ18	F.I.	S.O.H.C.	12033AA090	**SWF20043**
1820	1.8L	111	**IMPREZA**	1997 ONLY	H4	EJ18	F.I.	S.O.H.C.	12033AA090	**SWF20043**
1994	2.0L	122	**IMPREZA WRX**	2002 - 2006	H4	EJ20	F.I.	D.O.H.C.	12033AD190	**SWF20062**
1995	2.0L	122	**IMPREZA**	2011 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	**SWF20073**
1995	2.0L	122	**IMPREZA**	2011 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	**SWF20073**
1995	2.0L	122	**XV CROSSTREK**	2013 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	**SWF20073**
1995	2.0L	122	**XV CROSSTREK**	2013 - 2015	H4	FB20	F.I.	D.O.H.C.	12033AC360	**SWF20073**
1998	2.0L	122	**BRZ**	2012 - 2015	H4	FA20	F.I.	D.O.H.C.	12033AC300	**NA**
1998	2.0L	122	**BRZ**	2012 - 2015	H4	FA20	F.I.	D.O.H.C.	12033AC300	**NA**
2212	2.2L	135	**LEGACY**	1991 - 1994	H4	EJ22	F.I.	S.O.H.C.	12033AA390	**SWF20067**
2212	2.2L	135	**LEGACY**	1991 - 1994	H4	EJ22	F.I.	S.O.H.C.	12033AA390	**SWF20067**
2212	2.2L	135	**IMPREZA**	1996 - 1999	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**IMPREZA**	1996 - 1999	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**LEGACY**	1990 - 1996	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**LEGACY**	1990 - 1996	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**IMPREZA**	1997 - 1998	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**LEGACY**	1997 - 1998	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**LEGACY**	1999 ONLY	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2212	2.2L	135	**OUTBACK H4**	2001 ONLY	H4	EJ22	F.I.	S.O.H.C.	12033AA210	**SWF20045**
2457	2.5L	150	**LEGACY**	1996 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
2457	2.5L	150	**LEGACY**	1996 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
2457	2.5L	150	**FORESTER**	1998 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
2457	2.5L	150	**IMPREZA**	1998 ONLY	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
2457	2.5L	150	**LEGACY**	1997 - 1999	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
2457	2.5L	150	**OUTBACK H4**	1996 - 1999	H4	EJ25D	F.I.	D.O.H.C.	12033AA760	**SWF20064**
SUBARU - CONTINUED										

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SUBARU										
2457	2.5L	150	**BAJA**	2003 - 2005	H4	EJ251	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**FORESTER**	1999 - 2003	H4	EJ251	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**IMPREZA**	2000 - 2005	H4	EJ251	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**LEGACY**	2000 - 2005	H4	EJ251	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**OUTBACK H4**	2000 - 2004	H4	EJ251	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**LEGACY**	2000 ONLY	H4	EJ252	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**OUTBACK H4**	2000 ONLY	H4	EJ252	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**LEGACY**	2004 ONLY	H4	EJ259	F.I.	S.O.H.C.	12033AB010	**SWF20066**
2457	2.5L	150	**FORESTER**	2006 - 2010	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**FORESTER**	2006 - 2010	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**IMPREZA**	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**IMPREZA**	2006 - 2011	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**LEGACY**	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**LEGACY**	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**OUTBACK H4**	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**OUTBACK H4**	2006 - 2009	H4	EJ253	F.I.	S.O.H.C.	12033AB250	**SWF20068**
2457	2.5L	150	**BAJA**	2004 - 2006	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**FORESTER**	2004 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**IMPREZA**	2006 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**IMPREZA WRX**	2007 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**LEGACY**	2005 - 2009	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**LEGACY**	2010 - 2012	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**OUTBACK H4**	2005 - 2009	H4	EJ255	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**IMPREZA WRX STi**	2004 - 2007	H4	EJ257	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**IMPREZA WRX STi**	2008 - 2010	H4	EJ257	F.I.	D.O.H.C.	12033AC000	**SWF20068**
2457	2.5L	150	**LEGACY**	2005 - 2006	H4	EJ257	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2457	2.5L	150	**OUTBACK H4**	2005 - 2006	H4	EJ257	F.I.	D.O.H.C.	12033AB340	**SWF20068**
2468	2.5L	151	**FORESTER**	2012 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**FORESTER**	2012 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**IMPREZA WRX STi**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**IMPREZA WRX STi**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**LEGACY**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**LEGACY**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**OUTBACK H4**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2468	2.5L	151	**OUTBACK H4**	2013 - 2015	H6	FB25	F.I.	D.O.H.C.	12033AC240	**NA**
2999	3.0L	183	**LEGACY**	2008 - 2010	H6	EZ30	F.I.	D.O.H.C.	12033AB130	**SWF20070**
2999	3.0L	183	**OUTBACK H6**	2001 - 2010	H6	EZ30	F.I.	D.O.H.C.	12033AB130	**SWF20070**
SUBARU - CONTINUED										

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									SUBARU
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AC070	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12006AB470	**11-788**	**325**	99.50	1.20	1.20		2.50		16 VALVE
12013AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		RIGHT, 16 VALVE
12018AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		LEFT, 16 VALVE
12013AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		RIGHT, 16 VALVE
12018AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		LEFT, 16 VALVE
12013AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		RIGHT, 16 VALVE
12018AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		LEFT, 16 VALVE
12013AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		RIGHT, 16 VALVE
12018AB250	**11-921**	**354**	99.50	1.20	1.20		2.50		LEFT, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD810	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AD210	**11-910**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	**11-911**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	**11-911**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	**11-911**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12006AC390	**11-911**	**352**	99.50	1.20	1.20		2.00		w/ TURBO, 16 VALVE
12013AB530	**NA**		94.00						RIGHT, 16 VALVE
12018AB530	**NA**		94.00						LEFT, 16 VALVE
12013AB530	**NA**		94.00						RIGHT, 16 VALVE
12018AB530	**NA**		94.00						LEFT, 16 VALVE
12013AB530	**NA**		94.00						RIGHT, 16 VALVE
12018AB530	**NA**		94.00						LEFT, 16 VALVE
12013AB530	**NA**		94.00						RIGHT, 16 VALVE
12018AB530	**NA**		94.00						LEFT, 16 VALVE
12206AB830	**NA**		89.20	1.20	1.20		2.50		24 VALVE
12006AB830	**NA**		89.20	1.20	1.20		2.50		R Models, 24 VALVE
									SUBARU - CONTINUED

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SUBARU										
2999	3.0L	183	**B9 TRIBECA**	2005 - 2007	H6	EZ30	F.I.	D.O.H.C.	12033AB130	SWF20070
3318	3.3L	202	**SVX**	1991 - 1997	H6	EG33	F.I.	D.O.H.C.	12033AA450	SWF20058
3318	3.3L	202	**SVX**	1991 - 1997	H6	EG33	F.I.	D.O.H.C.	12033AA450	SWF20058
3629	3.6L	221	**B9 TRIBECA**	2008 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
3629	3.6L	221	**LEGACY**	2010 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
3629	3.6L	221	**OUTBACK H6**	2010 - 2015	H6	EZ36	F.I.	D.O.H.C.	12033AC060	SWF20069
SUBARU - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									SUBARU
12006AC970	**NA**		89.20	1.20	1.20		2.50		24 VALVE
12013AA490	**NA**		96.90	1.50	1.50		3.00		RIGHT, 24 VALVE
12018AA490	**NA**		96.90	1.50	1.50		3.00		LEFT, 24 VALVE
12006AD650	**NA**		92.00	1.20	1.20		2.00		24 VALVE
12006AD650	**NA**		92.00	1.20	1.20		2.00		24 VALVE
12006AD650	**NA**		92.00	1.20	1.20		2.00		24 VALVE
									SUBARU - END

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

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
SUZUKI										
2736	2.7L	167	**GRAND VITARA**	2007 - 2008	V6	H27A	F.I.	D.O.H.C.	12140-52D00	**SWS20210**
2737	2.7L	167	**XL-7**	2001 - 2006	V6	H27A	F.I.	D.O.H.C.	12140-52D00	**SWS20210**
3195	3.2L	195	**GRAND VITARA**	2009 - 2011	V6	N32A	F.I.	D.O.H.C.	12140-79K00-050	**NA**
3564	3.6L	217	**XL-7**	2007 - 2009	V6	N36A	F.I.	D.O.H.C.	12151-78J00	**NA**
3954	4.0L	241	**EQUATOR**	2009 - 2012	V6	VQ40DE	F.I.	D.O.H.C.	12033-8J100	**SWN30131**

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									SUZUKI
12100-66810-0A0	**NA**		88.00	1.20	1.50		2.80		24 VALVE
12100-52810-0A0	**NA**		88.00	1.20	1.50		2.80		(GRAND VITARA), 24 VALVE
12100-79810	**NA**		89.00						24 VALVE
12100-78J00	**NA**		94.00						24 VALVE
12010-EA20B	**NA**		95.50	1.20	1.20		2.50		NISSAN Engine, 24 VALVE

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

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

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

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
TOYOTA										
2362	2.4L	144	**CAMRY**	2002 - 2006	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	**SWT10182**
2362	2.4L	144	**HIGHLANDER**	2001 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	**SWT10182**
2362	2.4L	144	**RAV4**	2004 - 2005	4	2AZ-FE	F.I.	D.O.H.C.	13011-23100	**SWT10182**
2362	2.4L	144	**CAMRY SOLARA**	2002 - 2006	4	2AZ-FE	F.I.	D.O.H.C.	13011-28102	**SWT10182**
2362	2.4L	144	**CAMRY**	2007 - 2009	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2362	2.4L	144	**CAMRY SOLARA**	2007 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2362	2.4L	144	**COROLLA**	2009 - 2010	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2362	2.4L	144	**MATRIX**	2009 - 2013	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2362	2.4L	144	**RAV4**	2006 - 2008	4	2AZ-FE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2362	2.4L	144	**CAMRY HYBRID**	2007 - 2011	4	2AZ-FXE	F.I.	D.O.H.C.	13011-0H031	**SDT10200**
2366	2.4L	144	**4 RUNNER**	1984 ONLY	4	20R	CARB	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**4 RUNNER**	1985 ONLY	4	22R-EC	F.I.	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**CELICA**	1981 - 1982	4	20R	CARB	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**CELICA**	1983 - 1985	4	22R-EC	F.I.	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**CORONA**	1981 - 1982	4	20R	CARB	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**PICKUP**	1981 - 1985	4	20R	CARB	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**PICKUP**	1984 - 1985	4	22R-EC	F.I.	S.O.H.C.	13011-35020	**SWT10077**
2366	2.4L	144	**PICKUP**	1990 - 1995	4	22R-E	F.I.	S.O.H.C.	13011-35052	**SWT10103**
2366	2.4L	144	**4 RUNNER**	1986 - 1995	4	22R-EC	F.I.	S.O.H.C.	13011-35052	**SWT10103**
2366	2.4L	144	**PICKUP**	1986 - 1991	4	20R	C & F	S.O.H.C.	13011-35052	**SWT10103**
2366	2.4L	144	**PICKUP**	1986 - 1989	4	22R-EC	F.I.	S.O.H.C.	13011-35052	**SWT10103**
2366	2.4L	144	**4 RUNNER**	1986 - 1987	4	22R-TEC	F.I.	S.O.H.C.	13011-35041	**SWT10103**
2366	2.4L	144	**PICKUP**	1985 - 1989	4	22R-TEC	F.I.	S.O.H.C.	13011-35041	**SWT10103**
2438	2.4L	149	**PREVIA**	1990 - 1995	4	2TZ-FE	F.I.	D.O.H.C.	13011-76050	**SWT10127**
2438	2.4L	149	**PREVIA**	1995 - 1998	4	2TZ-FZE	F.I.	D.O.H.C.	13011-76050	**SWT10127**
2438	2.4L	149	**TACOMA**	1995 - 2004	4	2RZ-FE	F.I.	D.O.H.C.	13011-75040	**SWT10139**
2446	2.4L	149	**PICKUP**	1985 ONLY	4	2L-T	DIESEL		13011-54062	**SDT10089**
2446	2.4L	149	**PICKUP**	1984 - 1985	4	2L	DIESEL		13011-54062	**SDT10089**
2494	2.5L	152	**CAMRY**	2009 - 2015	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	**SDT10226**
2494	2.5L	152	**RAV4**	2009 - 2015	4	2AR-FE	F.I.	D.O.H.C.	13011-0V010	**SDT10226**
2494	2.5L	152	**AVALON HYBRID**	2013 - 2015	4	2AR-FXE	F.I.	D.O.H.C.	13011-36070	**SDT10226**
2494	2.5L	152	**CAMRY HYBRID**	2011 - 2015	4	2AR-FXE	F.I.	D.O.H.C.	13011-0V010	**SDT10226**
2507	2.5L	153	**CAMRY**	1988 - 1991	V6	2VZ-FE	F.I.	D.O.H.C.	13011-62040	**SWT10148**
2563	2.6L	156	**CORONA**	1973 - 1976	6	4M	CARB		13011-45021	**SXT10041**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
TOYOTA										
2563	2.6L	156	**CRESSIDA**	1978 - 1980	6	4M, 4M-E	CARB		13011-45021	**SXT10041**
2563	2.6L	156	**SUPRA**	1979 - 1980	6	4M-E	F.I.		13011-45021	**SXT10041**
2672	2.7L	163	**SIENNA**	2011 - 2012	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	**SDT10226**
2672	2.7L	163	**HIGHLANDER**	2009 - 2015	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	**SDT10226**
2672	2.7L	163	**VENZA**	2009 - 2015	4	1AR-FE	F.I.	D.O.H.C.	13011-0V040	**SDT10226**
2693	2.7L	164	**T100**	1993 - 1998	4	3RZ-FE	F.I.	D.O.H.C.	13011-75040	**SWT10139**
2693	2.7L	164	**4 RUNNER**	1996 - 2000	4	3RZ-FE	F.I.	D.O.H.C.	13011-75040	**SWT10139**
2693	2.7L	164	**TACOMA**	1995 - 2004	4	3RZ-FE	F.I.	D.O.H.C.	13011-75041	**SWT10139**
2693	2.7L	164	**4 RUNNER**	2010 ONLY	4	2TR-FE	F.I.	D.O.H.C.	13011-75110	**SDT10193**
2693	2.7L	164	**TACOMA**	2005 - 2015	4	2TR-FE	F.I.	D.O.H.C.	13011-75110	**SDT10193**
2759	2.8L	168	**CRESSIDA**	1984 - 1988	6	5M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2759	2.8L	168	**SUPRA**	1984 - 1987	6	5M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2759	2.8L	168	**CRESSIDA**	1981 - 1982	6	5M-E	F.I.	D.O.H.C.	13011-43031	**SXT10072**
2759	2.8L	168	**SUPRA**	1981 ONLY	6	5M-E	F.I.	D.O.H.C.	13011-43031	**SXT10072**
2759	2.8L	168	**CRESSIDA**	1983 ONLY	6	5M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2759	2.8L	168	**SUPRA**	1982 - 1983	6	5M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2954	3.0L	180	**SUPRA**	1986 - 1993	6	7M-GTE	F.I.	D.O.H.C.	13011-42011	**SWT10115**
2954	3.0L	180	**SUPRA**	1986 - 1992	6	7M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2954	3.0L	180	**CRESSIDA**	1989 - 1992	6	7M-GE	F.I.	D.O.H.C.	13011-42060	**SWT10079**
2958	3.0L	181	**4 RUNNER**	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**4 RUNNER**	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**PICKUP**	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**PICKUP**	1988 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**T100**	1992 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**T100**	1992 - 1995	V6	3VZ-E	F.I.	S.O.H.C.	13011-62060	**SWT10144**
2958	3.0L	181	**CAMRY**	1992 - 1993	V6	3VZ-E	F.I.	D.O.H.C.	13011-62060	**SWT10144**
2959	3.0L	181	**SUPRA**	1993 - 1998	6	2JZ-GTE	F.I.	D.O.H.C.	13011-46051	**SWT10134**
2995	3.0L	183	**AVALON**	1995 ONLY	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	**SWT10177**
2995	3.0L	183	**AVALON**	1995 ONLY	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	**SWT10177**
2995	3.0L	183	**CAMRY**	1994 - 1997	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	**SWT10177**
2995	3.0L	183	**CAMRY**	1994 - 1997	V6	1MZ-FE	F.I.	D.O.H.C.	13011-20022	**SWT10177**
2995	3.0L	183	**HIGHLANDER**	2001 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	**SWT10177**
2995	3.0L	183	**HIGHLANDER**	2001 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	**SWT10177**
2995	3.0L	183	**SIENNA**	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	**SWT10177**
2995	3.0L	183	**SIENNA**	1998 - 2003	V6	1MZ-FE	F.I.	D.O.H.C.	13011-0A020	**SWT10177**

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
TOYOTA										
3956	4.0L	241	**LAND CRUISER**	1988 - 1992	6	3F-E	F.I.		13011-76013-71	**SWT10151**
4230	4.2L	258	**LAND CRUISER**	1974 - 1980	6	2F	CARB		13011-76012-71	**SWT10049**
4230	4.2L	258	**LAND CRUISER**	1981 - 1987	6	2F	CARB		13011-76012-71	**SWT10049**
4477	4.5L	273	**LAND CRUISER**	1993 - 1995	V6	1FZ-FE	F.I.	D.O.H.C.	13011-66021	**SWT10184**
4477	4.5L	273	**LAND CRUISER**	1996 - 1997	V6	1ZF-TE	F.I.	D.O.H.C.	13011-66021	**SWT10184**
4608	4.6L	281	**SEQUOIA**	2009 - 2012	V8	1UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
4608	4.6L	281	**TUNDRA**	2010 - 2015	V8	1UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
4663	4.7L	285	**4 RUNNER**	2003 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**4 RUNNER**	2003 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**LAND CRUISER**	1998 - 2003	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**LAND CRUISER**	1998 - 2003	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**SEQUOIA**	2001 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**SEQUOIA**	2001 - 2004	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**TUNDRA**	1999 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**TUNDRA**	1999 - 2005	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50140	**SWT10203**
4663	4.7L	285	**4 RUNNER**	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
4663	4.7L	285	**4 RUNNER**	2006 - 2010	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
4663	4.7L	285	**LAND CRUISER**	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
4663	4.7L	285	**LAND CRUISER**	2004 - 2007	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
4663	4.7L	285	**SEQUOIA**	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F010	**SWT10240**
4663	4.7L	285	**SEQUOIA**	2005 - 2008	V8	2UZ-FE	F.I.	D.O.H.C.	13011-0F010	**SWT10240**
4663	4.7L	285	**TUNDRA**	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
4663	4.7L	285	**TUNDRA**	2006 - 2009	V8	2UZ-FE	F.I.	D.O.H.C.	13011-50162	**SWT10240**
5663	5.7L	346	**LAND CRUISER**	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
5663	5.7L	346	**SEQUOIA**	2008 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
5663	5.7L	346	**TUNDRA**	2007 - 2015	V8	3UR-FE	F.I.	D.O.H.C.	13011-0S011	**NA**
TOYOTA - END										

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									TOYOTA
13101-61032-01	**11-673**	**305**	94.00	2.00	2.00		4.00		
13101-61020	**11-174**	**286**	94.00	2.00	2.50		4.00		
13101-76008-71	**11-175**	**286**	94.00	2.00	2.50		4.00		
13101-66040-01	*DISC. 11-700*		100.00	1.75	2.00		4.00		24 VALVE
13101-66040-01	*DISC. 11-700*		100.00	1.75	2.00		4.00		24 VALVE
13101-0S020	**NA**		94.00						32 VALVE
13101-0S020	**NA**		94.00						32 VALVE
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, 32 VALVE
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50050-01	**11-801**	**328**	94.00	1.50	1.50		4.00		RIGHT, i-Force, 32 VALVE
13301-50040-01	**11-801**	**328**	94.00	1.50	1.50		4.00		LEFT, I-Force, 32 VALVE
13101-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		RIGHT, 32 VALVE
13301-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		LEFT, 32 VALVE
13101-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		LEFT, I-Force, 32 VALVE
13101-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		LEFT, I-Force, 32 VALVE
13101-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		RIGHT, i-Force, 32 VALVE
13301-50061-01	**11-912**	**352**	94.00	1.20	1.20		3.00		LEFT, I-Force, 32 VALVE
13101-0S011	**NA**		94.00						i-Force, 32 VALVE
13101-0S011	**NA**		94.00						i-Force, 32 VALVE
13101-0S011	**NA**		94.00						i-Force, 32 VALVE
									TOYOTA - END

U.S. APPLICATIONS

PISTON RINGS

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

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									UD TRUCKS
-	**NA**		112.00						HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00						HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		110.00						w/ TURBO, 24 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
-	**NA**		112.00	2.50	2.00		4.00		HINO Engine, w/ TURBO, 16 VALVE
									UD TRUCKS - END

U.S. APPLICATIONS

PISTON RINGS

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ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
VOLKSWAGEN										
1781	1.8L	109	**NEW BEETLE**	1999 - 2005	4	AEB	F.I.	D.O.H.C.	058 198 151 B	SWL03456
1781	1.8L	109	**PASSAT**	1998 - 2005	4	AEB, AWM, ATW	F.I.	D.O.H.C.	058 198 151 B	SWL03456
1781	1.8L	109	**GTI**	2000 - 2005	4	AEB	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1781	1.8L	109	**JETTA**	2000 - 2004	4	AEB, AWP	F.I.	D.O.H.C.	06B 198 151 B	SWL03456
1786	1.8L	109	**CORRADO**	1990 - 1992	4	PG	F.I.	D.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**GTI**	1987 - 1989	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**JETTA**	1988 - 1989	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**SCIROCCO**	1986 - 1988	4	PL	F.I.	D.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**CABRIOLET**	1990 - 1993	4	2H	F.I.	S.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**GTI**	1985 - 1992	4	HT	F.I.	S.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**GOLF**	1988 - 1992	4	RD	F.I.	S.O.H.C.	026 198 151 A	SWL02405 4CYL
1786	1.8L	109	**JETTA**	1985 - 1992	4	RD	F.I.	S.O.H.C.	026 198 151 A	SWL02405 4CYL
1896	1.9L	116	**JETTA**	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151	SDL03280 4CYL
1896	1.9L	116	**JETTA**	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151	SDL03280 4CYL
1896	1.9L	116	**JETTA**	1998 - 2006	4	BRM	DIESEL	S.O.H.C.	038 198 151	SDL03280 4CYL
1896	1.9L	116	**JETTA**	1998 - 2006	4	BRM	DIESEL	S.O.H.C.	038 198 151	SDL03280 4CYL
1896	1.9L	116	**NEW BEETLE**	1998 - 2006	4	BEW	DIESEL	S.O.H.C.	038 198 151	SDL03280 4CYL
1896	1.9L	116	**NEW BEETLE**	1998 - 2006	4	BEW	DIESEL	S.O.H.C.	038 198 151	SDL03280 4CYL
1896	1.9L	116	**PASSAT**	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151 C	SDL03280 4CYL
1896	1.9L	116	**PASSAT**	1996 - 1997	4	1Z	DIESEL	S.O.H.C.	044 198 151 C	SDL03280 4CYL
1968	2.0L	120	**GOLF**	2009 - 2012	5	CBAA, CBAB	DIESEL	D.O.H.C.	-	NA
1968	2.0L	120	**PASSAT**	2004 - 2005	4	BHW	DIESEL	S.O.H.C.	03G 198 151 A	NA
1968	2.0L	120	**PASSAT**	2004 - 2005	4	BHW	DIESEL	S.O.H.C.	03G 198 151 A	NA
1981	2.0L	121	**JETTA**	2011 - 2012	4		F.I.	S.O.H.C.	-	NA
1984	2.0L	121	**CABRIO**	1996 - 2002	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**GTI**	1996 - 1997	4	ABA	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**GOLF**	1996 - 1997	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**GOLF**	1998 - 2006	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**JETTA**	1996 - 1997	4	AGG, ADY	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**JETTA**	1998 - 2004	4	AVH, AZG, BEV	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**JETTA III**	1993 - 1995	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**JETTA SPORTWAGON**	1998 - 2004	4	AVH, AZG, BEV	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**PASSAT**	1990 - 1992	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**PASSAT**	1993 ONLY	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**PASSAT**	1996 ONLY	4	9A	F.I.	S.O.H.C.	053 198 151 C	SWL03296 4CYL
1984	2.0L	121	**GTI**	1998 - 2000	4	9A	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 4CYL
1984	2.0L	121	**NEW BEETLE**	1998 - 2005	4	AVH, AZG, BEV	F.I.	S.O.H.C.	06A 198 151 C	SWL03296 4CYL
1984	2.0L	121	**EOS**	2007 - 2012	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 4CYL
1984	2.0L	121	**JETTA**	2006 - 2009	4	BPY	F.I.	D.O.H.C.	06F 198 151 A	SWL03296 4CYL

PISTONS

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									VOLKSWAGEN
058 107 065 F	**11-872**	**342**	81.00	1.50	1.75		2.00		20 VALVE
058 107 065 F	**11-872**	**342**	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	**11-872**	**342**	81.00	1.50	1.75		2.00		20 VALVE
06B 107 065 N	**11-872**	**342**	81.00	1.50	1.75		2.00		20 VALVE
027 107 065	**X**		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	**X**		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	**X**		81.00	1.50	1.75		3.00		16 VALVE
027 107 065	**X**		81.00	1.50	1.75		3.00		16 VALVE
026 107 065 R	**X**		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	**X**		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	**X**		81.00	1.50	1.75		3.00		8 VALVE
026 107 065 R	**X**		81.00	1.50	1.75		3.00		GLI MODELS, 8 VALVE
038 107 065 D 001	**X**		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	**X**		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
038 107 065 D 001	**X**		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	**X**		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
071 107 065 C	**X**		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
071 107 065 C	**X**		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
038 107 065 D 001	**X**		79.50	1.75	2.00		3.00		CYL #1,2, 8 VALVE
038 107 065 E 001	**X**		79.50	1.75	2.00		3.00		CYL #3,4, 8 VALVE
-	**X**		81.00						w/ TURBO, 16VALVE
038 107 065 HE 001	**X**		81.00						CYL #1,2, 8 VALVE
038 107 065 HF 001	**X**		81.00						CYL #3,4, 8 VALVE
-	**X**		82.50						8 VALVE
037 107 065 M	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M**	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 M	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
053 107 065 H	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
037 107 065 N	**11-9000**	**355**	82.50	1.20	1.50		2.00		8 VALVE
06A 107 065 F	**X**		82.50	1.20	1.50		2.00		8 VALVE
06A 107 065 F	**X**		82.50	1.20	1.50		2.00		8 VALVE
06D 107 066 C	**X**		82.50	1.20	1.50		2.00		16 VALVE
07K 107 065 B	**X**		82.50	1.20	1.50		2.00		16 VALVE

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

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

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 S T	2 N D	3 R D	O 1	O 2	REMARK
									VOLKSWAGEN
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
26D 107 066 C	X		82.50	1.20	1.50		2.00		w/ TURBO, 16 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.50	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.55	1.20	1.50		2.00		20 VALVE
07K 107 065 B	X		82.55	1.20	1.50		2.00		20 VALVE
078 107 065 AF	X		82.50	1.20	1.50		2.00		w/ VTECH, 24 VALVE
-	X		83.00						24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 065 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
03H 107 066 N	X		89.00						CYL #1,3,5, 24 VALVE
03H 107 066 N	X		89.00						CYL #2,4,6, 24 VALVE
4666129AA	**11-864***	**340**	96.00	1.20	1.50		3.00		CHRYSLER Engine, 12 VALVE
-	**11-916**	**353**	96.00	1.20	1.20		2.00		CHRYSLER Engine, 24 VALVE
4593589AA	X		96.00	1.20	1.50		3.00		CHRYSLER Engine, 24 VALVE
-	X		84.00						32 VALVE
-	X		84.00						32 VALVE
-	X		81.00						w/ TURBO, 20 VALVE
-	X		81.00						w/ TURBO, 20 VALVE
									VOLKSWAGEN - END

U.S. APPLICATIONS

PISTON RINGS

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RED = NEW INFORMATION

ENGINE SIZE cc	L	ci	MODEL NAME	YEAR	CYL	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #
VOLVO										
2953	3.0L	180	**S60**	2010 - 2012	6	B6304T2	F.I.	D.O.H.C.	30750896-0	**NA**
2953	3.0L	180	**S80**	2009 - 2012	6	B6304T2	F.I.	D.O.H.C.	30750896-0	**NA**
2953	3.0L	180	**XC60**	2009 - 2012	6	B6304T2	F.I.	D.O.H.C.	30750896-0	**NA**
2953	3.0L	180	**XC70**	2009 - 2012	6	B6304T2	F.I.	D.O.H.C.	30750896-0	**NA**
3192	3.2L	195	**S80**	2007 - 2012	6	B6324S	F.I.	D.O.H.C.	30750278-1	**NA**
3192	3.2L	195	**V70**	2008 - 2010	6	B6324S	F.I.	D.O.H.C.	30750278-1	**NA**
3192	3.2L	195	**XC60**	2010 - 2012	6	B6324S	F.I.	D.O.H.C.	30750278-1	**NA**
3192	3.2L	195	**XC70**	2008 - 2012	6	B6324S	F.I.	D.O.H.C.	30750278-1	**NA**
3192	3.2L	195	**XC90**	2007 - 2012	6	B6324S	F.I.	D.O.H.C.	30750278-1	**NA**
3192	3.2L	195	**S80**	2007 - 2010	6	B6324ST	F.I.	D.O.H.C.	30750869-0	**NA**
4414	4.4L	269	**S80**	2007 - 2010	V8	B8444S	F.I.	D.O.H.C.	30720077-4	**NA**
4414	4.4L	269	**XC90**	2005 - 2012	V8	B8444S	F.I.	D.O.H.C.	30720077-4	**NA**
VOLVO - END										

PISTONS

RED = NEW INFORMATION

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PISTON REFERENCE NUMBER	NOA PISTON #	HEAD PAGE #	DIA. mm	1 ST	2 ND	3 RD	O 1	O 2	REMARK
									VOLVO
30750892-9	X		82.00						FORD SI6 Engine, w/ TURBO, 24 VALVE
30750892-9	X		82.00						FORD SI6 Engine, w/ TURBO, 24 VALVE
30750892-9	X		82.00						FORD SI6 Engine, w/ TURBO, 24 VALVE
30750892-9	X		82.00						FORD SI6 Engine, w/ TURBO, 24 VALVE
30750274-0	X		84.00						FORD SI6 Engine, 24 VALVE
30750274-0	X		84.00						FORD SI6 Engine, 24 VALVE
30750274-0	X		84.00						FORD SI6 Engine, 24 VALVE
30750274-0	X		84.00						FORD SI6 Engine, 24 VALVE
30750274-0	X		84.00						FORD SI6 Engine, 24 VALVE
-	X		84.00						FORD SI6 Engine, w/ TURBO, 24 VALVE
30720072-5	X		93.98						YAMAHA Engine, 32 VALVE
30720072-5	X		93.98						YAMAHA Engine, 32 VALVE
									VOLVO - END

ADDITIONS

PISTON BUYER'S GUIDE

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

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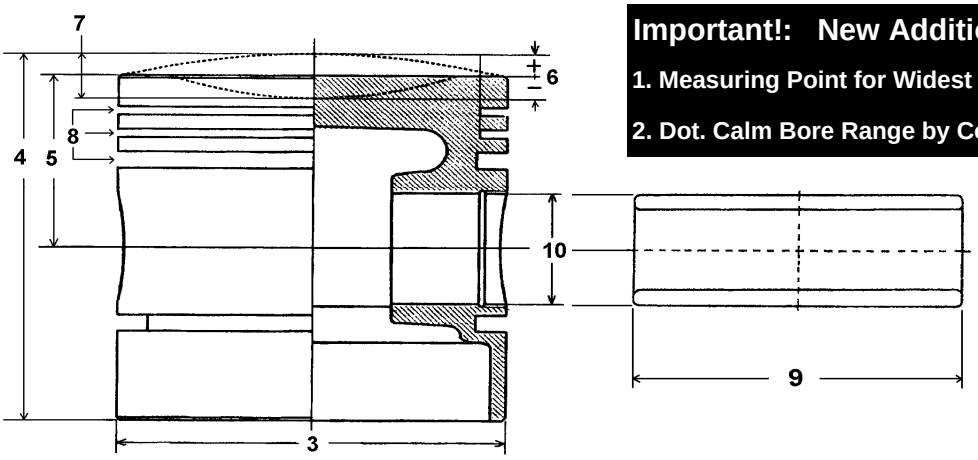
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT									PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm inch	LENGTH mm inch	COMP. mm inch	+ -	DIST. mm inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD) mm inch MID	-1 (0.25) mm inch MID	-2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

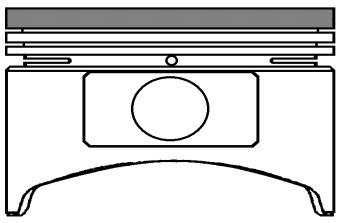


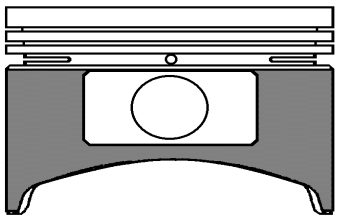
Important!: New Additions to Buyser's Guide.

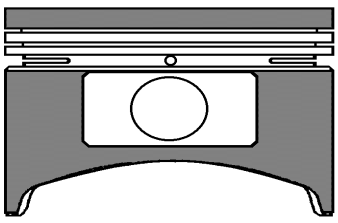
1. Measuring Point for Widest Point on Piston Skirt.

2. Dot. Calm Bore Range by Color Code.

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


Anodized Head


Moly Skirt


Anodized Head & Moly Skirt

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	95	177				
11-012	4	84.000 / 3.307	80.00 / 3.150	37.00 / 1.457	-	0.80 / 0.031	2.00 / 0.079	66.00 / 2.598
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079	
SWI10056		-0.04	-0.00157				4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	97	177				
11-016	4	87.000 / 3.425	80.00 / 3.150	37.00 / 1.457			1.50 / 0.059	77.00 / 3.031
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWI10096		-0.04	-0.00157				4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	13					
11-020	4	74.000 / 2.913	58.00 / 2.283	29.00 / 1.142	-	1.50 / 0.059	1.50 / 0.059	60.00 / 2.362
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWM31027		-0.04	-0.00157				4.00 / 0.157	18.00 / 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	
		PAGE #	17	211				
11-027	4	85.000 / 3.346	72.20 / 2.843	35.20 / 1.386	-	5.20 / 0.205	2.00 / 0.079	72.00 / 2.835
PISTON RING #		Total Clearance mm	inch		-	7.70 / 0.30	2.00 / 0.079	
SWM31013		-0.04	-0.00157				4.00 / 0.157	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	83.9775 / 3.30620	84.2275 / 3.31604	84.4775 / 3.32589	84.7275 / 3.33573	84.9775 / 3.34557
RED:	83.9675 / 3.30581	84.2175 / 3.31565	84.4675 / 3.32549	84.7175 / 3.33533	84.9675 / 3.34518
BLUE:	83.9625 / 3.30561	84.2125 / 3.31545	84.4625 / 3.32530	84.7125 / 3.33514	84.9625 / 3.34498
GREEN:	83.9725 / 3.30600	84.2225 / 3.31585	84.4725 / 3.32569	84.7225 / 3.33553	84.9725 / 3.34537

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368
RED:	86.9675 / 3.42392	87.2175 / 3.43376	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329
BLUE:	86.9625 / 3.42372	87.2125 / 3.43356	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309
GREEN:	86.9725 / 3.42411	87.2225 / 3.43396	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
73.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	73.9730 / 2.91232	74.2230 / 2.92217	74.4730 / 2.93201	74.7230 / 2.94185	74.9730 / 2.95169
RED:	73.9865 / 2.91285	74.2365 / 2.92270	74.4865 / 2.93254	74.7365 / 2.94238	74.9865 / 2.95222
BLUE:	73.9795 / 2.91258	74.2295 / 2.92242	74.4795 / 2.93226	74.7295 / 2.94211	74.9795 / 2.95195

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	84.9905 / 3.34608	85.2405 / 3.35593	85.4905 / 3.36577	85.7405 / 3.37561	85.9905 / 3.38545
WHITE:	84.9825 / 3.34577	85.2325 / 3.35561	85.4825 / 3.36545	85.7325 / 3.37530	85.9825 / 3.38514
BLUE:	84.9695 / 3.34526	85.2195 / 3.35510	85.4695 / 3.36494	85.7195 / 3.37478	85.9695 / 3.38463
GREEN:	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526	85.7275 / 3.37510	85.9775 / 3.38494

REMARKS:
Measure for CYL Clearance: **30.00** mm / **1.181** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 21	213						91.100	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-028	4	91.100 3.587	88.70 3.492	48.70 1.917	-	2.30 0.091	2.50 0.098	75.00 2.953	YELLOW:	91.0775 3.58573	91.3275 3.59557	91.5775 3.60541	91.8275 3.61526	92.0775 3.62510
PISTON RING #		Total Clearance mm	inch		-	2.60 0.10	2.00 0.079		RED:	91.0675 3.58533	91.3175 3.59518	91.5675 3.60502	91.8175 3.61486	92.0675 3.62470
SDM31038		-0.1016	-0.00400				4.00 0.157	29.00 1.142	BLUE:	91.0625 3.58514	91.3125 3.59498	91.5625 3.60482	91.8125 3.61467	92.0625 3.62451
						Cir Clip			GREEN:	91.0725 3.58553	91.3225 3.59537	91.5725 3.60522	91.8225 3.61506	92.0725 3.62490
							SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	10.00 mm / 0.394 inch			from Bottom of Skirt.	
						C17	NONE							
		PAGE # 29	215						91.070	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-031	4	91.100 3.587	77.20 3.039	35.20 1.386			2.00 0.079	75.00 2.953	YELLOW:	91.0805 3.58585	91.3305 3.59569	91.5805 3.60553	91.8305 3.61537	92.0805 3.62522
PISTON RING #		Total Clearance mm	inch				2.00 0.079		WHITE:	91.0725 3.58553	91.3225 3.59537	91.5725 3.60522	91.8225 3.61506	92.0725 3.62490
SWM31047		-0.04	-0.00157				4.00 0.157	22.00 0.866	BLUE:	91.0595 3.58502	91.3095 3.59486	91.5595 3.60470	91.8095 3.61455	92.0595 3.62439
						Cir Clip			GREEN:	91.0675 3.58533	91.3175 3.59518	91.5675 3.60502	91.8175 3.61486	92.0675 3.62470
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	37.50 mm / 1.476 inch			from Bottom of Skirt.	
						J05	NONE							
		PAGE # 29	31	205	215				91.100	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-035	4	91.100 3.587	78.30 3.083	36.00 1.417	+	0.30 0.012	1.50 0.059	79.00 3.110	YELLOW:	91.0775 3.58573	91.3275 3.59557	91.5775 3.60541	91.8275 3.61526	92.0775 3.62510
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	91.0675 3.58533	91.3175 3.59518	91.5675 3.60502	91.8175 3.61486	92.0675 3.62470
SWM31039		-0.04	-0.00157				4.00 0.157	22.00 0.866	BLUE:	91.0625 3.58514	91.3125 3.59498	91.5625 3.60482	91.8125 3.61467	92.0625 3.62451
						Cir Clip			GREEN:	91.0725 3.58553	91.3225 3.59537	91.5725 3.60522	91.8225 3.61506	92.0725 3.62490
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	25.00 mm / 0.984 inch			from Bottom of Skirt.	
						C17	NONE							
		PAGE # 221							75.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-049	4	76.000 2.992	65.00 2.559	30.00 1.181	-	6.50 0.256	1.20 0.047	63.00 2.480	YELLOW:	75.9730 2.99106	76.2230 3.00091	76.4730 3.01075	76.7230 3.02059	76.9730 3.03043
PISTON RING #		Total Clearance mm	inch				2.00 0.079		RED:	75.9865 2.99159	76.2365 3.00144	76.4865 3.01128	76.7365 3.02112	76.9865 3.03096
SWN30052		-0.04	-0.00157				4.00 0.157	19.00 0.748	BLUE:	75.9795 2.99132	76.2295 3.00116	76.4795 3.01100	76.7295 3.02085	76.9795 3.03069
						Cir Clip								
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	10.00 mm / 0.394 inch			from Bottom of Skirt.	
						T01	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 221							76.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-050	4	76.000 2.992	62.70 2.469	32.50 1.280	-	9.40 0.370	1.50 0.059	62.00 2.441	YELLOW:	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093	76.7275 3.02077	76.9775 3.03061
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053	76.7175 3.02037	76.9675 3.03022
SWN30057		-0.04	-0.00157				4.00 0.157	19.00 0.748	BLUE:	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033	76.7125 3.02018	76.9625 3.03002
						Cir Clip			GREEN:	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073	76.7225 3.02057	76.9725 3.03041
						NONE	SURFACE TREATMENT NONE		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
						C17	NONE							
		PAGE # 221							76.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-052	4	76.000 2.992	62.50 2.461	32.50 1.280	-	9.50 0.374	1.50 0.059	62.00 2.441	YELLOW:	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093	76.7275 3.02077	76.9775 3.03061
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053	76.7175 3.02037	76.9675 3.03022
SWN30057		-0.04	-0.00157				4.00 0.157	19.00 0.748	BLUE:	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033	76.7125 3.02018	76.9625 3.03002
						Cir Clip			GREEN:	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073	76.7225 3.02057	76.9725 3.03041
						NONE	SURFACE TREATMENT NONE		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
						C17	NONE							
		PAGE # 223							84.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-059	4	85.000 3.346	78.10 3.075	38.10 1.500	-	2.20 0.087	2.00 0.079	72.00 2.835	YELLOW:	84.9905 3.34608	85.2405 3.35593	85.4905 3.36577	85.7405 3.37561	85.9905 3.38545
PISTON RING #		Total Clearance mm	inch				2.00 0.079		WHITE:	84.9825 3.34577	85.2325 3.35561	85.4825 3.36545	85.7325 3.37530	85.9825 3.38514
SWN30048		-0.04	-0.00157				4.00 0.157	21.00 0.827	BLUE:	84.9695 3.34526	85.2195 3.35510	85.4695 3.36494	85.7195 3.37478	85.9695 3.38463
						Cir Clip			GREEN:	84.9775 3.34557	85.2275 3.35541	85.4775 3.36526	85.7275 3.37510	85.9775 3.38494
						NONE	SURFACE TREATMENT NONE		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
						J05	NONE							
		PAGE # 223							84.950	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-060	4	85.000 3.346	78.00 3.071	38.00 1.496	-	3.00 0.118	2.00 0.079	72.00 2.835	YELLOW:	84.9430 3.34421	85.1930 3.35406	85.4430 3.36390	85.6930 3.37374	85.9430 3.38358
PISTON RING #		Total Clearance mm	inch				2.00 0.079		RED:	84.9565 3.34474	85.2065 3.35459	85.4565 3.36443	85.7065 3.37427	85.9565 3.38411
SWN30048		-0.04	-0.00157				4.00 0.157	21.00 0.827	BLUE:	84.9495 3.34447	85.1995 3.35431	85.4495 3.36415	85.6995 3.37400	85.9495 3.38384
						Cir Clip								
						NONE	SURFACE TREATMENT NONE		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
						T01	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 225						
11-062	4	84.500 / 3.327	65.00 / 2.559	30.00 / 1.181	-	2.20 / 0.087	1.50 / 0.059	61.00 / 2.402
PISTON RING # SWN30053		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							4.00 / 0.157	20.00 / 0.787
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 223						
11-064	4	85.000 / 3.346	67.00 / 2.638	32.00 / 1.260	-	1.50 / 0.059	1.50 / 0.059	72.00 / 2.835
PISTON RING # SWN30086		Total Clearance mm: -0.04	inch: -0.00157		-	2.50 / 0.10	1.50 / 0.059	
							4.00 / 0.157	21.00 / 0.827
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						T01	NONE	
		PAGE # 225						
11-068	4	83.000 / 3.268	90.00 / 3.543	48.00 / 1.890	-	2.00 / 0.079	2.50 / 0.098	71.00 / 2.795
PISTON RING # SDN31027		Total Clearance mm: -0.1016	inch: -0.00400		-	0.50 / 0.02	2.00 / 0.079	
							4.50 / 0.177	26.00 / 1.024
						Cir Clip:	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 225						
11-069	4	87.000 / 3.425	72.00 / 2.835	32.00 / 1.260	-	2.50 / 0.098	1.50 / 0.059	64.00 / 2.520
PISTON RING # SWN30054		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							4.00 / 0.157	21.00 / 0.827
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-062	84.500	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	84.4775 / 3.32589	84.7275 / 3.33573	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526
RED:	84.4675 / 3.32549	84.7175 / 3.33533	84.9675 / 3.34518	85.2175 / 3.35502	85.4675 / 3.36486
BLUE:	84.4625 / 3.32530	84.7125 / 3.33514	84.9625 / 3.34498	85.2125 / 3.35482	85.4625 / 3.36467
GREEN:	84.4725 / 3.32569	84.7225 / 3.33553	84.9725 / 3.34537	85.2225 / 3.35522	85.4725 / 3.36506
REMARKS: Measure for CYL Clearance:	30.00 mm / 1.181 inch	from Bottom of Skirt.			
11-064	84.990	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	84.9830 / 3.34579	85.2330 / 3.35563	85.4830 / 3.36547	85.7330 / 3.37531	85.9830 / 3.38516
RED:	84.9965 / 3.34632	85.2465 / 3.35616	85.4965 / 3.36600	85.7465 / 3.37585	85.9965 / 3.38569
BLUE:	84.9895 / 3.34604	85.2395 / 3.35589	85.4895 / 3.36573	85.7395 / 3.37557	85.9895 / 3.38541
REMARKS: Measure for CYL Clearance:	20.00 mm / 0.787 inch	from Bottom of Skirt.			
11-068	83.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	82.9775 / 3.26683	83.2275 / 3.27667	83.4775 / 3.28652	83.7275 / 3.29636	83.9775 / 3.30620
RED:	82.9675 / 3.26644	83.2175 / 3.27628	83.4675 / 3.28612	83.7175 / 3.29596	83.9675 / 3.30581
BLUE:	82.9625 / 3.26624	83.2125 / 3.27608	83.4625 / 3.28593	83.7125 / 3.29577	83.9625 / 3.30561
GREEN:	82.9725 / 3.26663	83.2225 / 3.27648	83.4725 / 3.28632	83.7225 / 3.29616	83.9725 / 3.30600
REMARKS: Measure for CYL Clearance:	15.00 mm / 0.591 inch	from Bottom of Skirt.			
11-069	86.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	86.9905 / 3.42482	87.2405 / 3.43467	87.4905 / 3.44451	87.7405 / 3.45435	87.9905 / 3.46419
WHITE:	86.9825 / 3.42451	87.2325 / 3.43435	87.4825 / 3.44419	87.7325 / 3.45404	87.9825 / 3.46388
BLUE:	86.9695 / 3.42400	87.2195 / 3.43384	87.4695 / 3.44368	87.7195 / 3.45352	87.9695 / 3.46337
GREEN:	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368
REMARKS: Measure for CYL Clearance:	0.00 mm / 0.000 inch	from Bottom of Skirt.			

PISTON BUYER'S GUIDE

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

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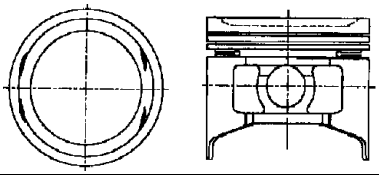
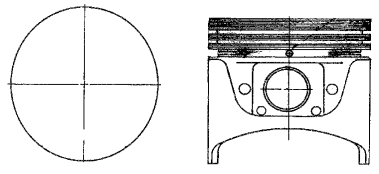
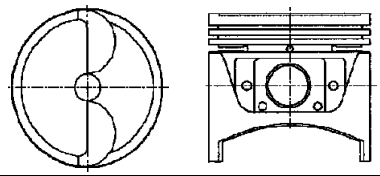
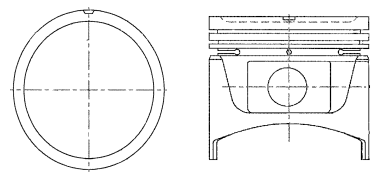
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
PAGE #		225							84.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-070	4	89.000	72.00	34.00	-	4.00	1.50	72.00	YELLOW:	84.9850	85.2350	85.4850	85.7350	85.9850
		3.504	2.835	1.339		0.157	0.059	2.835		3.34587	3.35571	3.36555	3.37539	3.38524
PISTON RING #		Total Clearance mm	inch				1.50		WHITE:	84.9825	85.2325	85.4825	85.7325	85.9825
							0.059			3.34577	3.35561	3.36545	3.37530	3.38514
SWN30059		-0.04	-0.00157				4.00	21.00	BLUE:	84.9750	85.2250	85.4750	85.7250	85.9750
							0.157	0.827		3.34547	3.35531	3.36516	3.37500	3.38484
									GREEN:	84.9775	85.2275	85.4775	85.7275	85.9775
										3.34557	3.35541	3.36526	3.37510	3.38494
						Cir Clip			REMARKS:					
						NONE	SURFACE TREATMENT		Measure for CYL Clearance:	30.00 mm / 1.181 inch			from Bottom of Skirt.	
							NONE							
						J05	NONE							
PAGE #		225							83.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-071	6	83.000	78.00	38.00			2.00	72.00	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	3.071	1.496			0.079	2.835		3.26683	3.27667	3.28652	3.29636	3.30620
PISTON RING #		Total Clearance mm	inch				2.00		RED:	82.9675	83.2175	83.4675	83.7175	83.9675
							0.079			3.26644	3.27628	3.28612	3.29596	3.30581
SWN30034		-0.04	-0.00157				4.00	21.00	BLUE:	82.9625	83.2125	83.4625	83.7125	83.9625
							0.157	0.827		3.26624	3.27608	3.28593	3.29577	3.30561
									GREEN:	82.9725	83.2225	83.4725	83.7225	83.9725
										3.26663	3.27648	3.28632	3.29616	3.30600
						Cir Clip			REMARKS:					
						NONE	SURFACE TREATMENT		Measure for CYL Clearance:	25.00 mm / 0.984 inch			from Bottom of Skirt.	
							NONE							
						C17	NONE							
PAGE #		227							82.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-076	6	83.000	78.00	38.00	-	0.80	2.00	72.00	YELLOW:	82.9905	83.2405	83.4905	83.7405	83.9905
		3.268	3.071	1.496		0.031	0.079	2.835		3.26734	3.27719	3.28703	3.29687	3.30671
PISTON RING #		Total Clearance mm	inch				2.00		WHITE:	82.9825	83.2325	83.4825	83.7325	83.9825
							0.079			3.26703	3.27687	3.28671	3.29656	3.30640
SWN30034		-0.04	-0.00157				4.00	21.00	BLUE:	82.9695	83.2195	83.4695	83.7195	83.9695
							0.157	0.827		3.26652	3.27636	3.28620	3.29604	3.30589
									GREEN:	82.9775	83.2275	83.4775	83.7275	83.9775
										3.26683	3.27667	3.28652	3.29636	3.30620
						Cir Clip			REMARKS:					
						NONE	SURFACE TREATMENT		Measure for CYL Clearance:	12.00 mm / 0.472 inch			from Bottom of Skirt.	
							NONE							
						J05	NONE							
PAGE #		229							85.950	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-081	6	86.000	78.30	38.00	-	3.00	2.00	72.00	YELLOW:	85.9430	86.1930	86.4430	86.6930	86.9430
		3.386	3.083	1.496		0.118	0.079	2.835		3.38358	3.39343	3.40327	3.41311	3.42295
PISTON RING #		Total Clearance mm	inch				2.00		RED:	85.9565	86.2065	86.4565	86.7065	86.9565
							0.079			3.38411	3.39396	3.40380	3.41364	3.42348
SWN30047		-0.04	-0.00157				4.00	21.00	BLUE:	85.9495	86.1995	86.4495	86.6995	86.9495
							0.157	0.827		3.38384	3.39368	3.40352	3.41337	3.42321
						Cir Clip			REMARKS:					
						NONE	SURFACE TREATMENT		Measure for CYL Clearance:	15.00 mm / 0.591 inch			from Bottom of Skirt.	
							NONE							
						T01	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 229							85.950	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-082	6	86.000 / 3.386	78.20 / 3.079	38.00 / 1.496	-	2.00 / 0.079	2.00 / 0.079	72.00 / 2.835	YELLOW:	85.9430 / 3.38358	86.1930 / 3.39343	86.4430 / 3.40327	86.6930 / 3.41311	86.9430 / 3.42295
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079		RED:	85.9565 / 3.38411	86.2065 / 3.39396	86.4565 / 3.40380	86.7065 / 3.41364	86.9565 / 3.42348
SWN30047		-0.04	-0.00157				4.00 / 0.157	21.00 / 0.827	BLUE:	85.9495 / 3.38384	86.1995 / 3.39368	86.4495 / 3.40352	86.6995 / 3.41337	86.9495 / 3.42321
						Cir Clip								
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 22.00 mm / 0.866 inch from Bottom of Skirt.					
							NONE							
						T01	NONE							
		PAGE # 229							85.950	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-084	6	86.000 / 3.386	78.80 / 3.102	38.50 / 1.516			1.50 / 0.059	72.00 / 2.835	YELLOW:	85.9430 / 3.38358	86.1930 / 3.39343	86.4430 / 3.40327	86.6930 / 3.41311	86.9430 / 3.42295
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079		RED:	85.9565 / 3.38411	86.2065 / 3.39396	86.4565 / 3.40380	86.7065 / 3.41364	86.9565 / 3.42348
SWN30066		-0.04	-0.00157				4.00 / 0.157	21.00 / 0.827	BLUE:	85.9495 / 3.38384	86.1995 / 3.39368	86.4495 / 3.40352	86.6995 / 3.41337	86.9495 / 3.42321
						Cir Clip								
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
							NONE							
						T01	NONE							
		PAGE # 157							74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-105	4	74.000 / 2.913	57.70 / 2.272	27.70 / 1.091	-	1.50 / 0.059	1.50 / 0.059	62.00 / 2.441	YELLOW:	73.9775 / 2.91250	74.2275 / 2.92234	74.4775 / 2.93219	74.7275 / 2.94203	74.9775 / 2.95187
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059		RED:	73.9675 / 2.91211	74.2175 / 2.92195	74.4675 / 2.93179	74.7175 / 2.94163	74.9675 / 2.95148
SWH30114		-0.04	-0.00157				4.00 / 0.157	17.00 / 0.669	BLUE:	73.9625 / 2.91191	74.2125 / 2.92175	74.4625 / 2.93159	74.7125 / 2.94144	74.9625 / 2.95128
						Cir Clip			GREEN:	73.9725 / 2.91230	74.2225 / 2.92215	74.4725 / 2.93199	74.7225 / 2.94183	74.9725 / 2.95167
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							
		PAGE # 157							74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-106	4	74.000 / 2.913	62.70 / 2.469	27.70 / 1.091			1.50 / 0.059	62.00 / 2.441	YELLOW:	73.9775 / 2.91250	74.2275 / 2.92234	74.4775 / 2.93219	74.7275 / 2.94203	74.9775 / 2.95187
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059		RED:	73.9675 / 2.91211	74.2175 / 2.92195	74.4675 / 2.93179	74.7175 / 2.94163	74.9675 / 2.95148
SWH30114		-0.04	-0.00157				4.00 / 0.157	17.00 / 0.669	BLUE:	73.9625 / 2.91191	74.2125 / 2.92175	74.4625 / 2.93159	74.7125 / 2.94144	74.9625 / 2.95128
						Cir Clip			GREEN:	73.9725 / 2.91230	74.2225 / 2.92215	74.4725 / 2.93199	74.7225 / 2.94183	74.9725 / 2.95167
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 20.00 mm / 0.787 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-111	4	74.000 2.913	59.80 2.354	29.80 1.173	-	4.70 0.185	1.20 0.047	56.00 2.205
PISTON RING #	Total Clearance mm	inch					1.20 0.047	
SWH30253	-0.04	-0.00157					2.80 0.110	19.00 0.748
				Cir Clip				
				NONE	SURFACE TREATMENT			
					NONE			
				C17	NONE			

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COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	73.9775 2.91250	74.2275 2.92234	74.4775 2.93219	74.7275 2.94203	74.9775 2.95187
RED:	73.9675 2.91211	74.2175 2.92195	74.4675 2.93179	74.7175 2.94163	74.9675 2.95148
BLUE:	73.9625 2.91191	74.2125 2.92175	74.4625 2.93159	74.7125 2.94144	74.9625 2.95128
GREEN:	73.9725 2.91230	74.2225 2.92215	74.4725 2.93199	74.7225 2.94183	74.9725 2.95167

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-113	4	74.000 2.913	57.50 2.264	27.50 1.083	-	2.50 0.098	1.50 0.059	62.00 2.441
PISTON RING #	Total Clearance mm	inch					1.50 0.059	
SWH30114	-0.04	-0.00157					4.00 0.157	17.00 0.669
				Cir Clip				
				NONE	SURFACE TREATMENT			
					NONE			
				C17	NONE			

PAGE # 161

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	73.9775 2.91250	74.2275 2.92234	74.4775 2.93219	74.7275 2.94203	74.9775 2.95187
RED:	73.9675 2.91211	74.2175 2.92195	74.4675 2.93179	74.7175 2.94163	74.9675 2.95148
BLUE:	73.9625 2.91191	74.2125 2.92175	74.4625 2.93159	74.7125 2.94144	74.9625 2.95128
GREEN:	73.9725 2.91230	74.2225 2.92215	74.4725 2.93199	74.7225 2.94183	74.9725 2.95167

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-122	4	80.000 3.150	65.30 2.571	29.80 1.173	-	0.50 0.020	1.50 0.059	61.00 2.402
PISTON RING #	Total Clearance mm	inch			-	3.30 0.13	1.50 0.059	
SWH30251	-0.04	-0.00157			-	2.20 **0.09**	4.00 0.157	20.00 0.787
				Cir Clip				
				NONE	SURFACE TREATMENT			
					NONE			
				T01	NONE			

PAGE # 161

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
79.950	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	79.9430 3.14736	80.1930 3.15720	80.4430 3.16705	80.6930 3.17689	80.9430 3.18673
RED:	79.9565 3.14789	80.2065 3.15774	80.4565 3.16758	80.7065 3.17742	80.9565 3.18726
BLUE:	79.9495 3.14762	80.1995 3.15746	80.4495 3.16730	80.6995 3.17715	80.9495 3.18699

REMARKS:
Measure for CYL Clearance: **30.00** mm / **1.181** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-124	4	77.000 3.031	61.80 2.433	29.00 1.142	+	0.80 0.031	1.50 0.059	65.00 2.559
PISTON RING #	Total Clearance mm	inch					2.00 0.079	
SWT20045	-0.04	-0.00157					4.00 0.157	20.00 0.787
				Cir Clip				
				NONE	SURFACE TREATMENT			
					NONE			
				T01	NONE			

PAGE # 199

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
76.970	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	76.9630 3.03004	77.2130 3.03988	77.4630 3.04972	77.7130 3.05957	77.9630 3.06941
RED:	76.9765 3.03057	77.2265 3.04041	77.4765 3.05026	77.7265 3.06010	77.9765 3.06994
BLUE:	76.9695 3.03030	77.2195 3.04014	77.4695 3.04998	77.7195 3.05982	77.9695 3.06967

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 199						
11-127	4	77.000 3.031	60.60 2.386	28.60 1.126	-	2.00 0.079	1.50 0.059	65.00 2.559
PISTON RING # SWT20045		Total Clearance mm / inch: -0.04 / -0.00157					2.00 0.079	
							4.00 0.157	20.00 0.787
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
		PAGE # 185 201						
11-129	4	86.000 3.386	70.80 2.787	34.00 1.339	-	2.60 0.102	1.50 0.059	67.00 2.638
PISTON RING # SWT20048		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							4.00 0.157	22.00 0.866
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
		PAGE # 253						
11-140	4	75.000 2.953	75.00 2.953	36.00 1.417			2.00 0.079	61.00 2.402
PISTON RING # SWT10052		Total Clearance mm / inch: -0.04 / -0.00157					2.00 0.079	
							4.00 0.157	18.00 0.709
						Cir Clip: C17	SURFACE TREATMENT: NONE	
		PAGE # 253						
11-141	4	75.000 2.953	69.00 2.717	36.00 1.417	-	4.00 0.157	1.50 0.059	61.00 2.402
PISTON RING # SWT10109		Total Clearance mm / inch: -0.04 / -0.00157			-	6.70 0.26	1.50 0.059	
							4.00 0.157	18.00 0.709
						Cir Clip: C17	SURFACE TREATMENT: NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
77.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	76.9775 3.03061	77.2275 3.04045	77.4775 3.05030	77.7275 3.06014	77.9775 3.06998
RED:	76.9675 3.03022	77.2175 3.04006	77.4675 3.04990	77.7175 3.05974	77.9675 3.06959
BLUE:	76.9625 3.03002	77.2125 3.03986	77.4625 3.04970	77.7125 3.05955	77.9625 3.06939
GREEN:	76.9725 3.03041	77.2225 3.04026	77.4725 3.05010	77.7225 3.05994	77.9725 3.06978

REMARKS: Measure for CYL Clearance: **1.00** mm / **0.039** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS: Measure for CYL Clearance: **12.00** mm / **0.472** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch **from Bottom of Skirt.**

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 253						
11-142	4	77.500 3.051	61.00 2.402	31.00 1.220	-	3.20 0.126	1.50 0.059	61.00 2.402
PISTON RING # SWT10078		Total Clearance mm: -0.04 / inch: -0.00157					1.50 0.059	
							2.80 0.110	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE # 253						
11-143	4	77.500 3.051	61.00 2.402	31.00 1.220	-	3.00 0.118	1.50 0.059	61.00 2.402
PISTON RING # SWT10078		Total Clearance mm: -0.04 / inch: -0.00157					1.50 0.059	
							2.80 0.110	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE # 93 253						
11-144	4	81.000 3.189	60.50 2.382	30.50 1.201	-	3.00 0.118	1.50 0.059	61.00 2.402
PISTON RING # SWT10108		Total Clearance mm: -0.04 / inch: -0.00157					1.50 0.059	
							2.80 0.110	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	
		PAGE # 253						
11-145	4	85.000 3.346	91.10 3.587	39.00 1.535	+	6.10 0.240	2.00 0.079	66.00 2.598
PISTON RING # SWT10040		Total Clearance mm: -0.04 / inch: -0.00157					2.00 0.079	
							4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-142	77.500	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	77.4775 3.05030	77.7275 3.06014	77.9775 3.06998	78.2275 3.07982	78.4775 3.08967
RED:	77.4675 3.04990	77.7175 3.05974	77.9675 3.06959	78.2175 3.07943	78.4675 3.08927
BLUE:	77.4625 3.04970	77.7125 3.05955	77.9625 3.06939	78.2125 3.07923	78.4625 3.08907
GREEN:	77.4725 3.05010	77.7225 3.05994	77.9725 3.06978	78.2225 3.07963	78.4725 3.08947

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-143	77.500	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	77.4775 3.05030	77.7275 3.06014	77.9775 3.06998	78.2275 3.07982	78.4775 3.08967
RED:	77.4675 3.04990	77.7175 3.05974	77.9675 3.06959	78.2175 3.07943	78.4675 3.08927
BLUE:	77.4625 3.04970	77.7125 3.05955	77.9625 3.06939	78.2125 3.07923	78.4625 3.08907
GREEN:	77.4725 3.05010	77.7225 3.05994	77.9725 3.06978	78.2225 3.07963	78.4725 3.08947

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-144	80.980	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	80.9730 3.18791	81.2230 3.19776	81.4730 3.20760	81.7230 3.21744	81.9730 3.22728
RED:	80.9865 3.18844	81.2365 3.19829	81.4865 3.20813	81.7365 3.21797	81.9865 3.22781
BLUE:	80.9795 3.18817	81.2295 3.19801	81.4795 3.20785	81.7295 3.21770	81.9795 3.22754

REMARKS:
Measure for CYL Clearance: **13.00** mm / **0.512** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-145	84.970	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	84.9630 3.34500	85.2130 3.35484	85.4630 3.36469	85.7130 3.37453	85.9630 3.38437
RED:	84.9765 3.34553	85.2265 3.35537	85.4765 3.36522	85.7265 3.37506	85.9765 3.38490
BLUE:	84.9695 3.34526	85.2195 3.35510	85.4695 3.36494	85.7195 3.37478	85.9695 3.38463

REMARKS:
Measure for CYL Clearance: **25.00** mm / **0.984** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-149	4	85.000 / 3.346	82.50 / 3.248	35.20 / 1.386	-	5.40 / 0.213	1.50 / 0.059	66.00 / 2.598
PISTON RING # SWT10059		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						T01	NONE	
11-153	4	88.500 / 3.484	84.80 / 3.339	39.80 / 1.567			2.00 / 0.079	75.00 / 2.953
PISTON RING # SWT10043		Total Clearance mm: -0.04	inch: -0.00157				2.50 / 0.098	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: NONE	
						T01	NONE	
11-155	4	86.000 / 3.386	70.00 / 2.756	35.00 / 1.378	-	5.00 / 0.197	1.50 / 0.059	66.00 / 2.598
PISTON RING # SWT10090		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
11-157	4	88.500 / 3.484	88.10 / 3.469	38.70 / 1.524	+	2.80 / 0.110	2.00 / 0.079	75.00 / 2.953
PISTON RING # SWT10043		Total Clearance mm: -0.04	inch: -0.00157				2.50 / 0.098	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-149 PAGE # 255	84.980	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	84.9730 / 3.34539	85.2230 / 3.35524	85.4730 / 3.36508	85.7230 / 3.37492	85.9730 / 3.38476
RED:	84.9865 / 3.34593	85.2365 / 3.35577	85.4865 / 3.36561	85.7365 / 3.37545	85.9865 / 3.38530
BLUE:	84.9795 / 3.34565	85.2295 / 3.35549	85.4795 / 3.36533	85.7295 / 3.37518	85.9795 / 3.38502
REMARKS: Measure for CYL Clearance: 30.00 mm / 1.181 inch from Bottom of Skirt.					
11-153 PAGE # 255	88.490	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	88.4830 / 3.48358	88.7330 / 3.49343	88.9830 / 3.50327	89.2330 / 3.51311	89.4830 / 3.52295
RED:	88.4965 / 3.48411	88.7465 / 3.49396	88.9965 / 3.50380	89.2465 / 3.51364	89.4965 / 3.52348
BLUE:	88.4895 / 3.48384	88.7395 / 3.49368	88.9895 / 3.50352	89.2395 / 3.51337	89.4895 / 3.52321
REMARKS: Measure for CYL Clearance: 20.00 mm / 0.787 inch from Bottom of Skirt.					
11-155 PAGE # 257	85.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	85.9905 / 3.38545	86.2405 / 3.39530	86.4905 / 3.40514	86.7405 / 3.41498	86.9905 / 3.42482
WHITE:	85.9825 / 3.38514	86.2325 / 3.39498	86.4825 / 3.40482	86.7325 / 3.41467	86.9825 / 3.42451
BLUE:	85.9695 / 3.38463	86.2195 / 3.39447	86.4695 / 3.40431	86.7195 / 3.41415	86.9695 / 3.42400
GREEN:	85.9775 / 3.38494	86.2275 / 3.39478	86.4775 / 3.40463	86.7275 / 3.41447	86.9775 / 3.42431
REMARKS: Measure for CYL Clearance: mm / inch from Bottom of Skirt.					
11-157 PAGE # 257	88.467	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	88.4775 / 3.48337	88.7275 / 3.49321	88.9775 / 3.50305	89.2275 / 3.51289	89.4775 / 3.52274
WHITE:	88.4695 / 3.48305	88.7195 / 3.49289	88.9695 / 3.50274	89.2195 / 3.51258	89.4695 / 3.52242
BLUE:	88.4565 / 3.48254	88.7065 / 3.49238	88.9565 / 3.50222	89.2065 / 3.51207	89.4565 / 3.52191
GREEN:	88.4645 / 3.48285	88.7145 / 3.49270	88.9645 / 3.50254	89.2145 / 3.51238	89.4645 / 3.52222
REMARKS: Measure for CYL Clearance: 20.00 mm / 0.787 inch from Bottom of Skirt.					

PISTON BUYER'S GUIDE

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

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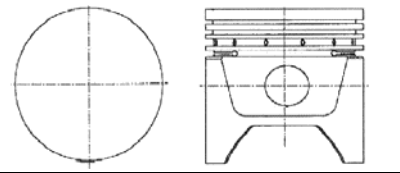
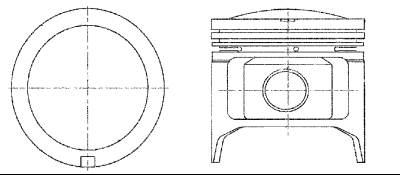
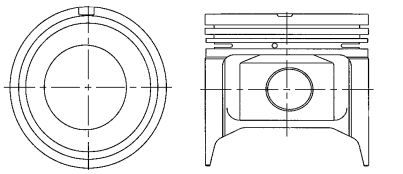
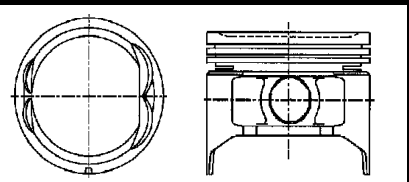
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-171	6	90.000 3.543	95.50 3.760	47.50 1.870			3.00 0.118	80.00 3.150
PISTON RING #		Total Clearance mm	inch				3.00 0.118	
SWT10026		-0.04	-0.00157				4.00 0.157	25.15 0.990
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						J05	NONE	
11-174	6	94.000 3.701	95.50 3.760	47.22 1.859	+	6.50 0.256	2.00 0.079	72.00 2.835
PISTON RING #		Total Clearance mm	inch				2.50 0.098	
SWT10049		-0.04	-0.00157				4.00 0.157	25.15 0.990
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						T01	NONE	
11-175	6	94.000 3.701	95.80 3.772	47.58 1.873	+	0.30 0.012	2.00 0.079	72.00 2.835
PISTON RING #		Total Clearance mm	inch				2.50 0.098	
SWT10049		-0.04	-0.00157				4.00 0.157	25.15 0.990
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						C17	NONE	
11-236	4	87.000 3.425	67.00 2.638	32.00 1.260	-	2.20 0.087	1.50 0.059	72.00 2.835
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWN30054		-0.04	-0.00157				4.00 0.157	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						T01	NONE	









PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-171 PAGE # 263	89.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	89.9905 3.54293	90.2405 3.55278	90.4905 3.56262	90.7405 3.57246	90.9905 3.58230
WHITE:	89.9825 3.54262	90.2325 3.55246	90.4825 3.56230	90.7325 3.57215	90.9825 3.58199
BLUE:	89.9695 3.54211	90.2195 3.55195	90.4695 3.56179	90.7195 3.57163	90.9695 3.58148
GREEN:	89.9775 3.54242	90.2275 3.55226	90.4775 3.56211	90.7275 3.57195	90.9775 3.58179

REMARKS:
Measure for CYL Clearance: mm / inch — from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-174 PAGE # 265	93.970	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	93.9630 3.69933	94.2130 3.70917	94.4630 3.71902	94.7130 3.72886	94.9630 3.73870
RED:	93.9765 3.69986	94.2265 3.70970	94.4765 3.71955	94.7265 3.72939	94.9765 3.73923
BLUE:	93.9695 3.69959	94.2195 3.70943	94.4695 3.71927	94.7195 3.72911	94.9695 3.73896

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch — from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-175 PAGE # 265	94.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	93.9775 3.69990	94.2275 3.70974	94.4775 3.71959	94.7275 3.72943	94.9775 3.73927
RED:	93.9675 3.69951	94.2175 3.70935	94.4675 3.71919	94.7175 3.72904	94.9675 3.73888
BLUE:	93.9625 3.69931	94.2125 3.70915	94.4625 3.71900	94.7125 3.72884	94.9625 3.73868
GREEN:	93.9725 3.69970	94.2225 3.70955	94.4725 3.71939	94.7225 3.72923	94.9725 3.73907

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch — from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-236 PAGE # 225	86.970	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	86.9630 3.42374	87.2130 3.43358	87.4630 3.44343	87.7130 3.45327	87.9630 3.46311
RED:	86.9765 3.42427	87.2265 3.43411	87.4765 3.44396	87.7265 3.45380	87.9765 3.46364
BLUE:	86.9695 3.42400	87.2195 3.43384	87.4695 3.44368	87.7195 3.45352	87.9695 3.46337

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch — from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 225							89.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-238	4	89.000 / 3.504	70.40 / 2.772	33.80 / 1.331	-	4.00 / 0.157	2.00 / 0.079	66.50 / 2.618	YELLOW:	88.9775 / 3.50305	89.2275 / 3.51289	89.4775 / 3.52274	89.7275 / 3.53258	89.9775 / 3.54242
PISTON RING # SWN30085		Total Clearance mm / inch					1.50 / 0.059		RED:	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234	89.7175 / 3.53219	89.9675 / 3.54203
		-0.04 / -0.00157					4.00 / 0.157	21.00 / 0.827	BLUE:	88.9625 / 3.50246	89.2125 / 3.51230	89.4625 / 3.52215	89.7125 / 3.53199	89.9625 / 3.54183
						Cir Clip			GREEN:	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254	89.7225 / 3.53238	89.9725 / 3.54222
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							
		PAGE # 259							91.970	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-239	4	92.000 / 3.622	63.40 / 2.496	34.40 / 1.354	-	1.60 / 0.063	1.50 / 0.059	70.00 / 2.756	YELLOW:	91.9805 / 3.62128	92.2305 / 3.63112	92.4805 / 3.64096	92.7305 / 3.65081	92.9805 / 3.66065
PISTON RING # SWT10103		Total Clearance mm / inch					1.50 / 0.059		WHITE:	91.9725 / 3.62096	92.2225 / 3.63081	92.4725 / 3.64065	92.7225 / 3.65049	92.9725 / 3.66033
		-0.04 / -0.00157					4.00 / 0.157	22.00 / 0.866	BLUE:	91.9595 / 3.62045	92.2095 / 3.63030	92.4595 / 3.64014	92.7095 / 3.64998	92.9595 / 3.65982
						Cir Clip			GREEN:	91.9675 / 3.62077	92.2175 / 3.63061	92.4675 / 3.64045	92.7175 / 3.65030	92.9675 / 3.66014
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 26.00 mm / 1.024 inch from Bottom of Skirt.					
							NONE							
						J05	NONE							
		PAGE # 259							91.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-241	4	92.000 / 3.622	92.50 / 3.642	39.00 / 1.535	+	1.50 / 0.059	2.00 / 0.079	75.00 / 2.953	YELLOW:	91.9705 / 3.62089	92.2205 / 3.63073	92.4705 / 3.64057	92.7205 / 3.65041	92.9705 / 3.66026
PISTON RING # SXT10077		Total Clearance mm / inch			+	6.50 / 0.26	2.50 / 0.098		WHITE:	91.9625 / 3.62057	92.2125 / 3.63041	92.4625 / 3.64026	92.7125 / 3.65010	92.9625 / 3.65994
		-0.04 / -0.00157					4.00 / 0.157	22.00 / 0.866	BLUE:	91.9495 / 3.62006	92.1995 / 3.62990	92.4495 / 3.63974	92.6995 / 3.64959	92.9495 / 3.65943
						Cir Clip			GREEN:	91.9575 / 3.62037	92.2075 / 3.63022	92.4575 / 3.64006	92.7075 / 3.64990	92.9575 / 3.65974
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 32.00 mm / 1.260 inch from Bottom of Skirt.					
							NONE							
						J05	NONE							
		PAGE # 3							75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-502	4	75.000 / 2.953	63.00 / 2.480	30.00 / 1.181	+	3.00 / 0.118	1.20 / 0.047	56.00 / 2.205	YELLOW:	74.9775 / 2.95187	75.2275 / 2.96171	75.4775 / 2.97156	75.7275 / 2.98140	75.9775 / 2.99124
PISTON RING # SWH30362		Total Clearance mm / inch					1.50 / 0.059		RED:	74.9675 / 2.95148	75.2175 / 2.96132	75.4675 / 2.97116	75.7175 / 2.98100	75.9675 / 2.99085
		-0.04 / -0.00157					2.80 / 0.110	19.00 / 0.748	BLUE:	74.9625 / 2.95128	75.2125 / 2.96112	75.4625 / 2.97096	75.7125 / 2.98081	75.9625 / 2.99065
						Cir Clip			GREEN:	74.9725 / 2.95167	75.2225 / 2.96152	75.4725 / 2.97136	75.7225 / 2.98120	75.9725 / 2.99104
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

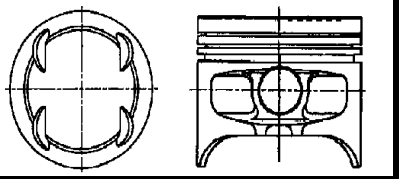
PISTON DIAMETER MEASURING POINT EXPLANATION

11-514

PAGE # 159

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-514	4	75.000 / 2.953	59.60 / 2.346	29.50 / 1.161	-	1.00 / 0.039	1.20 / 0.047	56.00 / 2.205
							1.50 / 0.059	
							2.80 / 0.110	19.00 / 0.748

PISTON RING #	Total Clearance mm	Total Clearance inch
SWH30362	-0.04	-0.00157



Cir Clip	
NONE	SURFACE TREATMENT
	NONE
C17	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 / 2.95187	75.2275 / 2.96171	75.4775 / 2.97156	75.7275 / 2.98140	75.9775 / 2.99124
RED:	74.9675 / 2.95148	75.2175 / 2.96132	75.4675 / 2.97116	75.7175 / 2.98100	75.9675 / 2.99085
BLUE:	74.9625 / 2.95128	75.2125 / 2.96112	75.4625 / 2.97096	75.7125 / 2.98081	75.9625 / 2.99065
GREEN:	74.9725 / 2.95167	75.2225 / 2.96152	75.4725 / 2.97136	75.7225 / 2.98120	75.9725 / 2.99104

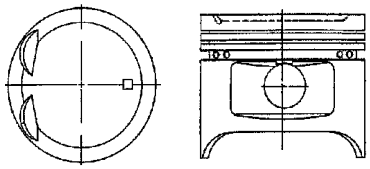
REMARKS:
Measure for CYL Clearance: **30.00** mm / **1.181** inch from Bottom of Skirt.

11-515

PAGE # 159

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-515	4	74.000 / 2.913	59.80 / 2.354	29.80 / 1.173	-	2.70 / 0.106	1.50 / 0.059	56.00 / 2.205
							1.50 / 0.059	
							4.00 / 0.157	19.00 / 0.748

PISTON RING #	Total Clearance mm	Total Clearance inch
SWH30186	-0.04	-0.00157



Cir Clip	
NONE	SURFACE TREATMENT
	NONE
C17	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	73.9775 / 2.91250	74.2275 / 2.92234	74.4775 / 2.93219	74.7275 / 2.94203	74.9775 / 2.95187
RED:	73.9675 / 2.91211	74.2175 / 2.92195	74.4675 / 2.93179	74.7175 / 2.94163	74.9675 / 2.95148
BLUE:	73.9625 / 2.91191	74.2125 / 2.92175	74.4625 / 2.93159	74.7125 / 2.94144	74.9625 / 2.95128
GREEN:	73.9725 / 2.91230	74.2225 / 2.92215	74.4725 / 2.93199	74.7225 / 2.94183	74.9725 / 2.95167

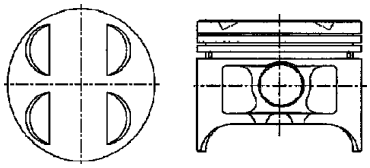
REMARKS:
Measure for CYL Clearance: **17.50** mm / **0.689** inch from Bottom of Skirt.

11-518

PAGE # 159

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-518	4	75.000 / 2.953	60.80 / 2.394	30.80 / 1.213			1.20 / 0.047	56.00 / 2.205
							1.50 / 0.059	
							2.80 / 0.110	19.00 / 0.748

PISTON RING #	Total Clearance mm	Total Clearance inch
SWH30365	-0.04	-0.00157



Cir Clip	
NONE	SURFACE TREATMENT
	NONE
C17	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 / 2.95187	75.2275 / 2.96171	75.4775 / 2.97156	75.7275 / 2.98140	75.9775 / 2.99124
RED:	74.9675 / 2.95148	75.2175 / 2.96132	75.4675 / 2.97116	75.7175 / 2.98100	75.9675 / 2.99085
BLUE:	74.9625 / 2.95128	75.2125 / 2.96112	75.4625 / 2.97096	75.7125 / 2.98081	75.9625 / 2.99065
GREEN:	74.9725 / 2.95167	75.2225 / 2.96152	75.4725 / 2.97136	75.7225 / 2.98120	75.9725 / 2.99104

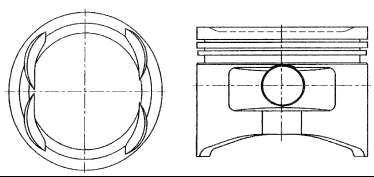
REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

11-519

PAGE # 161

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-519	4	82.700 / 3.256	65.30 / 2.571	29.80 / 1.173	-	2.40 / 0.094	1.50 / 0.059	62.00 / 2.441
							1.50 / 0.059	
							4.00 / 0.157	20.00 / 0.787

PISTON RING #	Total Clearance mm	Total Clearance inch
SWH30366	-0.04	-0.00157



Cir Clip	
NONE	SURFACE TREATMENT
	NONE
J05	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
82.680	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	82.6905 / 3.25553	82.9405 / 3.26537	83.1905 / 3.27522	83.4405 / 3.28506	83.6905 / 3.29490
WHITE:	82.6825 / 3.25522	82.9325 / 3.26506	83.1825 / 3.27490	83.4325 / 3.28474	83.6825 / 3.29459
BLUE:	82.6695 / 3.25470	82.9195 / 3.26455	83.1695 / 3.27439	83.4195 / 3.28423	83.6695 / 3.29407
GREEN:	82.6775 / 3.25502	82.9275 / 3.26486	83.1775 / 3.27470	83.4275 / 3.28455	83.6775 / 3.29439

REMARKS:
Measure for CYL Clearance: **30.00** mm / **1.181** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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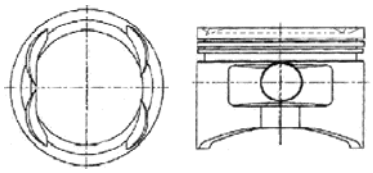
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-520	4	82.700 3.256	65.20 2.567	29.80 1.173	-	1.70 0.067	1.50 0.059	61.00 2.402
PISTON RING #		Total Clearance mm	inch		-	2.90 0.11	1.50 0.059	
SWH30366		-0.04	-0.00157		-	1.90 **0.07**	4.00 0.157	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						J05	NONE	

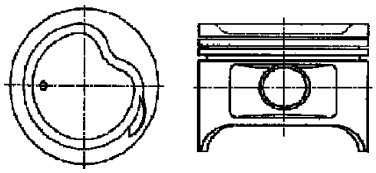


PAGE # 161

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
82.680	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	82.6905 3.25553	82.9405 3.26537	83.1905 3.27522	83.4405 3.28506	83.6905 3.29490
WHITE:	82.6825 3.25522	82.9325 3.26506	83.1825 3.27490	83.4325 3.28474	83.6825 3.29459
BLUE:	82.6695 3.25470	82.9195 3.26455	83.1695 3.27439	83.4195 3.28423	83.6695 3.29407
GREEN:	82.6775 3.25502	82.9275 3.26486	83.1775 3.27470	83.4275 3.28455	83.6775 3.29439

REMARKS:
Measure for CYL Clearance: **0.00** mm / **0.000** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-521	4	74.000 2.913	59.70 2.350	29.70 1.169	-	3.30 0.130	1.00 0.039	56.00 2.205
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWH30374		-0.04	-0.00157				2.80 0.110	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						T05	NONE	

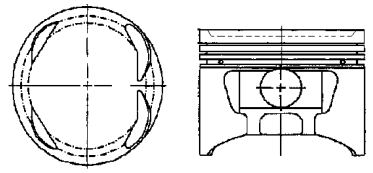


PAGE # 159

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:					
RED:					
BLUE:					
GREEN:					

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-524	4	81.000 3.189	65.20 2.567	29.80 1.173	-	2.00 0.079	1.20 0.047	62.00 2.441
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWH30375		-0.04	-0.00157				2.80 0.110	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						C17	NONE	

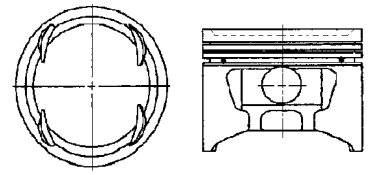


PAGE # 161

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

REMARKS:
Measure for CYL Clearance: **9.00** mm / **0.354** inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-525	4	81.000 3.189	65.40 2.575	30.80 1.213	-	2.10 0.083	1.20 0.047	57.00 2.244
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWH30375		-0.04	-0.00157				2.80 0.110	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						C17	NONE	



PAGE # 161

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

REMARKS:
Measure for CYL Clearance: **9.00** mm / **0.354** inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	13	167		211		
11-529	4	75.500 2.972	58.00 2.283	29.00 1.142	-	0.70 0.028	1.50 0.059	60.00 2.362
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31063		-0.04	-0.00157				4.00 0.157	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	13	167		211		
11-530	4	75.500 2.972	58.60 2.307	29.40 1.157	-	3.60 0.142	1.50 0.059	60.00 2.362
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31063		-0.04	-0.00157				4.00 0.157	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	13	211				
11-531	4	75.500 2.972	58.00 2.283	29.00 1.142	-	0.50 0.020	1.20 0.047	56.00 2.205
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31076		-0.02	-0.00079				3.00 0.118	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	
		PAGE #	213					
11-536	4	86.500 3.406	67.40 2.654	35.00 1.378	+	0.30 0.012	1.20 0.047	62.00 2.441
PISTON RING #		Total Clearance mm	inch		+	0.40 0.02	1.50 0.059	
SWM31072		-0.04	-0.00157				3.00 0.118	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093
RED:	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053
BLUE:	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033
GREEN:	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073

REMARKS:
Measure for CYL Clearance: **7.00** mm / **0.276** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093
RED:	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053
BLUE:	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033
GREEN:	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	75.4850 2.97185	75.7350 2.98169	75.9850 2.99154	76.2350 3.00138	76.4850 3.01122
WHITE:	75.4825 2.97175	75.7325 2.98159	75.9825 2.99144	76.2325 3.00128	76.4825 3.01112
BLUE:	75.4750 2.97146	75.7250 2.98130	75.9750 2.99114	76.2250 3.00098	76.4750 3.01083
GREEN:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093

REMARKS:
Measure for CYL Clearance: **19.00** mm / **0.748** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400
RED:	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360
BLUE:	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341
GREEN:	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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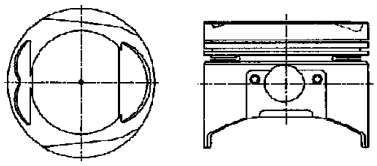
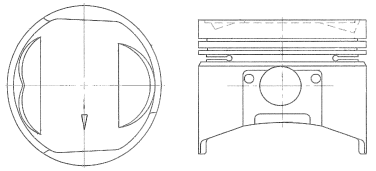
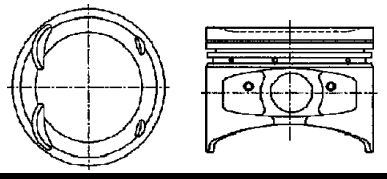
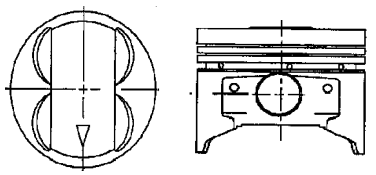
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 21	169			213			86.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-538	4	86.500 3.406	72.40 2.850	34.90 1.374	+	0.50 0.020	1.50 0.059	72.00 2.835	YELLOW:	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400
PISTON RING #		Total Clearance mm	inch		+	0.30 0.01	1.50 0.059		RED:	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360
SWM31037		-0.04	-0.00157				4.00 0.157	21.00 0.827	BLUE:	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341
						Cir Clip			GREEN:	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	15.00 mm 0.591 inch		from Bottom of Skirt.		
						C17	NONE							
		PAGE # 17	211						84.954	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-539	4	85.000 3.346	72.30 2.846	35.20 1.386	-	5.00 0.197	1.50 0.059	72.00 2.835	YELLOW:	84.9645 3.34506	85.2145 3.35490	85.4645 3.36474	85.7145 3.37459	85.9645 3.38443
PISTON RING #		Total Clearance mm	inch		-	7.30 0.29	1.50 0.059		WHITE:	84.9565 3.34474	85.2065 3.35459	85.4565 3.36443	85.7065 3.37427	85.9565 3.38411
SWM31044		-0.04	-0.00157				4.00 0.157	21.00 0.827	BLUE:	84.9435 3.34423	85.1935 3.35407	85.4435 3.36392	85.6935 3.37376	85.9435 3.38360
						Cir Clip			GREEN:	84.9515 3.34455	85.2015 3.35439	85.4515 3.36423	85.7015 3.37407	85.9515 3.38392
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	17.00 mm 0.669 inch		from Bottom of Skirt.		
						J05	NONE							
		PAGE # 17	213						85.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-540	4	85.000 3.346	67.00 2.638	35.00 1.378	-	2.10 0.083	1.20 0.047	66.00 2.598	YELLOW:	84.9775 3.34557	85.2275 3.35541	85.4775 3.36526	85.7275 3.37510	85.9775 3.38494
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	84.9675 3.34518	85.2175 3.35502	85.4675 3.36486	85.7175 3.37470	85.9675 3.38455
SWM31048		-0.04	-0.00157				3.00 0.118	21.00 0.827	BLUE:	84.9625 3.34498	85.2125 3.35482	85.4625 3.36467	85.7125 3.37451	85.9625 3.38435
						Cir Clip			GREEN:	84.9725 3.34537	85.2225 3.35522	85.4725 3.36506	85.7225 3.37490	85.9725 3.38474
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	10.00 mm 0.394 inch		from Bottom of Skirt.		
						C17	NONE							
		PAGE # 33	215						91.100	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-543	6	91.100 3.587	66.50 2.618	32.00 1.260	+	0.50 0.020	1.20 0.047	64.00 2.520	YELLOW:	91.0775 3.58573	91.3275 3.59557	91.5775 3.60541	91.8275 3.61526	92.0775 3.62510
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	91.0675 3.58533	91.3175 3.59518	91.5675 3.60502	91.8175 3.61486	92.0675 3.62470
SWM31078		-0.04	-0.00157				3.00 0.118	22.00 0.866	BLUE:	91.0625 3.58514	91.3125 3.59498	91.5625 3.60482	91.8125 3.61467	92.0625 3.62451
						Cir Clip			GREEN:	91.0725 3.58553	91.3225 3.59537	91.5725 3.60522	91.8225 3.61506	92.0725 3.62490
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	15.00 mm 0.591 inch		from Bottom of Skirt.		
						C17	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
PAGE #		13	211					
11-545	4	80.600 3.173	72.00 2.835	34.00 1.339	+	4.00 0.157	1.50 0.059	64.00 2.520
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31041		-0.04	-0.00157				4.00 0.157	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
PAGE #		17	213					
11-546	4	85.000 3.346	67.00 2.638	35.00 1.378	-	5.40 0.213	1.20 0.047	66.00 2.598
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31048		-0.04	-0.00157				3.00 0.118	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							Anodized Head	
						J05	NONE	
PAGE #		33	215					
11-547	6	91.100 3.587	65.90 2.594	31.90 1.256	-	3.40 0.134	1.20 0.047	64.00 2.520
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31078		-0.04	-0.00157				3.00 0.118	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T03	NONE	
PAGE #		31	33	169	217			
11-549	6	91.100 3.587	68.20 2.685	32.20 1.268	-	3.00 0.118	1.50 0.059	64.00 2.520
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31080		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
80.600	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.5775 3.17234	80.8275 3.18219	81.0775 3.19203	81.3275 3.20187	81.5775 3.21171
RED:	80.5675 3.17195	80.8175 3.18179	81.0675 3.19163	81.3175 3.20148	81.5675 3.21132
BLUE:	80.5625 3.17175	80.8125 3.18159	81.0625 3.19144	81.3125 3.20128	81.5625 3.21112
GREEN:	80.5725 3.17215	80.8225 3.18199	81.0725 3.19183	81.3225 3.20167	81.5725 3.21152

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	84.9905 3.34608	85.2405 3.35593	85.4905 3.36577	85.7405 3.37561	85.9905 3.38545
WHITE:	84.9825 3.34577	85.2325 3.35561	85.4825 3.36545	85.7325 3.37530	85.9825 3.38514
BLUE:	84.9695 3.34526	85.2195 3.35510	85.4695 3.36494	85.7195 3.37478	85.9695 3.38463
GREEN:	84.9775 3.34557	85.2275 3.35541	85.4775 3.36526	85.7275 3.37510	85.9775 3.38494

REMARKS:
Measure for CYL Clearance: **26.00** mm / **1.024** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
91.080	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	91.0700 3.58543	91.3200 3.59528	91.5700 3.60512	91.8200 3.61496	92.0700 3.62480
GREEN:	91.0900 3.58622	91.3400 3.59606	91.5900 3.60591	91.8400 3.61575	92.0900 3.62559

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
91.100	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	91.0775 3.58573	91.3275 3.59557	91.5775 3.60541	91.8275 3.61526	92.0775 3.62510
RED:	91.0675 3.58533	91.3175 3.59518	91.5675 3.60502	91.8175 3.61486	92.0675 3.62470
BLUE:	91.0625 3.58514	91.3125 3.59498	91.5625 3.60482	91.8125 3.61467	92.0625 3.62451
GREEN:	91.0725 3.58553	91.3225 3.59537	91.5725 3.60522	91.8225 3.61506	92.0725 3.62490

REMARKS:
Measure for CYL Clearance: **8.00** mm / **0.315** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 179						
11-554	4	89.300 3.516	81.00 3.189	39.00 1.535	-	5.20 0.205	1.50 0.059	77.00 3.031
PISTON RING # SWI10123		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							4.00 0.157	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 179						
11-555	4	92.600 3.646	79.00 3.110	36.50 1.437	-	1.40 0.055	1.50 0.059	72.00 2.835
PISTON RING # SWI10144		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							4.00 0.157	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 177						
11-558	4	88.000 3.465	80.10 3.154	37.00 1.457	-	2.00 0.079	1.50 0.059	77.00 3.031
PISTON RING # SWI10133		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 165 179						
11-559	4	92.600 3.646	79.00 3.110	36.50 1.437	-	4.50 0.177	1.50 0.059	72.00 2.835
PISTON RING # SWI10144		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							4.00 0.157	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-554 — 89.300	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	89.2775 3.51486	89.5275 3.52470	89.7775 3.53455	90.0275 3.54439	90.2775 3.55423
RED:	89.2675 3.51447	89.5175 3.52431	89.7675 3.53415	90.0175 3.54400	90.2675 3.55384
BLUE:	89.2625 3.51427	89.5125 3.52411	89.7625 3.53396	90.0125 3.54380	90.2625 3.55364
GREEN:	89.2725 3.51467	89.5225 3.52451	89.7725 3.53435	90.0225 3.54419	90.2725 3.55404
REMARKS: Measure for CYL Clearance:	30.00 mm / 1.181 inch	from Bottom of Skirt.			
11-555 — 92.600	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	92.5775 3.64478	92.8275 3.65463	93.0775 3.66447	93.3275 3.67431	93.5775 3.68415
RED:	92.5675 3.64439	92.8175 3.65423	93.0675 3.66407	93.3175 3.67392	93.5675 3.68376
BLUE:	92.5625 3.64419	92.8125 3.65404	93.0625 3.66388	93.3125 3.67372	93.5625 3.68356
GREEN:	92.5725 3.64459	92.8225 3.65443	93.0725 3.66427	93.3225 3.67411	93.5725 3.68396
REMARKS: Measure for CYL Clearance:	25.00 mm / 0.984 inch	from Bottom of Skirt.			
11-558 — 88.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	87.9775 3.46368	88.2275 3.47352	88.4775 3.48337	88.7275 3.49321	88.9775 3.50305
RED:	87.9675 3.46329	88.2175 3.47313	88.4675 3.48297	88.7175 3.49281	88.9675 3.50266
BLUE:	87.9625 3.46309	88.2125 3.47293	88.4625 3.48278	88.7125 3.49262	88.9625 3.50246
GREEN:	87.9725 3.46348	88.2225 3.47333	88.4725 3.48317	88.7225 3.49301	88.9725 3.50285
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			
11-559 — 92.600	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	92.5775 3.64478	92.8275 3.65463	93.0775 3.66447	93.3275 3.67431	93.5775 3.68415
RED:	92.5675 3.64439	92.8175 3.65423	93.0675 3.66407	93.3175 3.67392	93.5675 3.68376
BLUE:	92.5625 3.64419	92.8125 3.65404	93.0625 3.66388	93.3125 3.67372	93.5625 3.68356
GREEN:	92.5725 3.64459	92.8225 3.65443	93.0725 3.66427	93.3225 3.67411	93.5725 3.68396
REMARKS: Measure for CYL Clearance:	25.00 mm / 0.984 inch	from Bottom of Skirt.			

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	61	203				
11-573	4	86.000 3.386	71.40 2.811	36.50 1.437	-	9.50 0.374	1.50 0.059	67.00 2.638
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20048		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	205					
11-575	6	90.000 3.543	74.00 2.913	35.50 1.398	-	3.60 0.142	1.50 0.059	77.00 3.031
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20062		-0.04	-0.00157				4.00 0.157	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	Moly Skirt	
		PAGE #	199					
11-579	4	78.000 3.071	63.50 2.500	32.30 1.272	-	1.30 0.051	1.50 0.059	62.00 2.441
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20060		-0.04	-0.00157				4.00 0.157	20.00 0.787
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	205					
11-580	4	92.000 3.622	73.70 2.902	35.40 1.394	-	8.70 0.343	1.50 0.059	63.00 2.480
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20064		-0.04	-0.00157				4.00 0.157	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
90.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	89.9775 3.54242	90.2275 3.55226	90.4775 3.56211	90.7275 3.57195	90.9775 3.58179
RED:	89.9675 3.54203	90.2175 3.55187	90.4675 3.56171	90.7175 3.57156	90.9675 3.58140
BLUE:	89.9625 3.54183	90.2125 3.55167	90.4625 3.56152	90.7125 3.57136	90.9625 3.58120
GREEN:	89.9725 3.54222	90.2225 3.55207	90.4725 3.56191	90.7225 3.57175	90.9725 3.58159

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
78.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	77.9775 3.06998	78.2275 3.07982	78.4775 3.08967	78.7275 3.09951	78.9775 3.10935
RED:	77.9675 3.06959	78.2175 3.07943	78.4675 3.08927	78.7175 3.09911	78.9675 3.10896
BLUE:	77.9625 3.06939	78.2125 3.07923	78.4625 3.08907	78.7125 3.09892	78.9625 3.10876
GREEN:	77.9725 3.06978	78.2225 3.07963	78.4725 3.08947	78.7225 3.09931	78.9725 3.10915

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	91.9775 3.62116	92.2275 3.63100	92.4775 3.64085	92.7275 3.65069	92.9775 3.66053
RED:	91.9675 3.62077	92.2175 3.63061	92.4675 3.64045	92.7175 3.65030	92.9675 3.66014
BLUE:	91.9625 3.62057	92.2125 3.63041	92.4625 3.64026	92.7125 3.65010	92.9625 3.65994
GREEN:	91.9725 3.62096	92.2225 3.63081	92.4725 3.64065	92.7225 3.65049	92.9725 3.66033

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE #	61	203				
11-582	4	86.000 3.386	71.50 2.815	36.50 1.437	-	7.00 0.276	1.50 0.059	66.00 2.598
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20048		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	
		PAGE #	61	203				
11-583	4	86.000 3.386	71.00 2.795	36.00 1.417	-	5.40 0.213	1.50 0.059	67.00 2.638
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20048		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	201					
11-584	4	83.000 3.268	61.00 2.402	30.70 1.209	-	2.50 0.098	1.50 0.059	61.00 2.402
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT20066		-0.04	-0.00157				3.00 0.118	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	57					
11-589	4	71.000 2.795	60.00 2.362	28.70 1.130	-	1.00 0.039	1.20 0.047	55.00 2.165
PISTON RING #		Total Clearance mm	inch		-	4.00 0.16	1.50 0.059	
SWT20052		-0.04	-0.00157				3.00 0.118	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-582	85.980	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	85.9730 3.38476	86.2230 3.39461	86.4730 3.40445	86.7230 3.41429	86.9730 3.42413
RED:	85.9865 3.38530	86.2365 3.39514	86.4865 3.40498	86.7365 3.41482	86.9865 3.42467
BLUE:	85.9795 3.38502	86.2295 3.39486	86.4795 3.40470	86.7295 3.41455	86.9795 3.42439

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-583	86.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-584	83.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596	83.9675 3.30581
BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561
GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-589	70.980	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	70.9730 2.79421	71.2230 2.80406	71.4730 2.81390	71.7230 2.82374	71.9730 2.83358
RED:	70.9865 2.79474	71.2365 2.80459	71.4865 2.81443	71.7365 2.82427	71.9865 2.83411
BLUE:	70.9795 2.79447	71.2295 2.80431	71.4795 2.81415	71.7295 2.82400	71.9795 2.83384

REMARKS:
Measure for CYL Clearance: **12.00** mm / **0.472** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 221						
11-590	4	76.000 / 2.992	54.00 / 2.126	29.50 / 1.161	-	5.20 / 0.205	1.50 / 0.059	52.00 / 2.047
PISTON RING # SWN30097		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							2.80 / 0.110	19.00 / 0.748
						Cir Clip		
						C17	NONE	
		PAGE # 225						
11-598	4	89.000 / 3.504	68.30 / 2.689	34.00 / 1.339	-	6.60 / 0.260	1.50 / 0.059	61.50 / 2.421
PISTON RING # SWN30096		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							2.80 / 0.110	21.00 / 0.827
						Cir Clip		
						T03	NONE	
		PAGE # 225						
11-600	4	89.000 / 3.504	68.30 / 2.689	34.00 / 1.339	-	0.50 / 0.020	1.50 / 0.059	59.00 / 2.323
PISTON RING # SWN30096		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							2.80 / 0.110	21.00 / 0.827
						Cir Clip		
						C17	NONE	
		PAGE # 221						
11-601	4	76.000 / 2.992	54.00 / 2.126	29.50 / 1.161	-	4.80 / 0.189	1.50 / 0.059	52.00 / 2.047
PISTON RING # SWN30104		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							2.80 / 0.110	19.00 / 0.748
						Cir Clip		
						C17	NONE	

SURFACE TREATMENT: NONE

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-590 — 76.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.9775 / 2.99124	76.2275 / 3.00108	76.4775 / 3.01093	76.7275 / 3.02077	76.9775 / 3.03061
RED:	75.9675 / 2.99085	76.2175 / 3.00069	76.4675 / 3.01053	76.7175 / 3.02037	76.9675 / 3.03022
BLUE:	75.9625 / 2.99065	76.2125 / 3.00049	76.4625 / 3.01033	76.7125 / 3.02018	76.9625 / 3.03002
GREEN:	75.9725 / 2.99104	76.2225 / 3.00089	76.4725 / 3.01073	76.7225 / 3.02057	76.9725 / 3.03041

REMARKS:
Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-598 — 88.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9700 / 3.50276	89.2200 / 3.51260	89.4700 / 3.52244	89.7200 / 3.53228	89.9700 / 3.54213
GREEN:	88.9900 / 3.50354	89.2400 / 3.51339	89.4900 / 3.52323	89.7400 / 3.53307	89.9900 / 3.54291

REMARKS:
Measure for CYL Clearance: 17.00 mm / 0.669 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

SURFACE TREATMENT: Anodized Head

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-600 — 88.990	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	88.9830 / 3.50327	89.2330 / 3.51311	89.4830 / 3.52295	89.7330 / 3.53280	89.9830 / 3.54264
RED:	88.9965 / 3.50380	89.2465 / 3.51364	89.4965 / 3.52348	89.7465 / 3.53333	89.9965 / 3.54317
BLUE:	88.9895 / 3.50352	89.2395 / 3.51337	89.4895 / 3.52321	89.7395 / 3.53305	89.9895 / 3.54289

REMARKS:
Measure for CYL Clearance: 5.00 mm / 0.197 inch from Bottom of Skirt.

SURFACE TREATMENT: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-601 — 76.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.9775 / 2.99124	76.2275 / 3.00108	76.4775 / 3.01093	76.7275 / 3.02077	76.9775 / 3.03061
RED:	75.9675 / 2.99085	76.2175 / 3.00069	76.4675 / 3.01053	76.7175 / 3.02037	76.9675 / 3.03022
BLUE:	75.9625 / 2.99065	76.2125 / 3.00049	76.4625 / 3.01033	76.7125 / 3.02018	76.9625 / 3.03002
GREEN:	75.9725 / 2.99104	76.2225 / 3.00089	76.4725 / 3.01073	76.7225 / 3.02057	76.9725 / 3.03041

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

SURFACE TREATMENT: NONE

PISTON BUYER'S GUIDE

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

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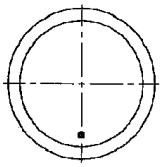
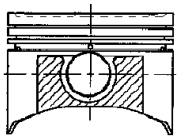
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	173	225				
11-602	4	86.000 3.386	63.00 2.480	32.00 1.260	-	0.90 0.035	1.50 0.059	60.00 2.362
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWN30102		-0.04	-0.00157				3.00 0.118	22.00 0.866
						Cir Clip		
						C17	NONE	
		PAGE #	65	173	229			
11-603	6	87.000 3.425	67.00 2.638	32.00 1.260			1.50 0.059	64.00 2.520
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWN30058		-0.04	-0.00157				2.80 0.110	21.00 0.827
						Cir Clip		
						C17	NONE	
		PAGE #	225					
11-609	4	89.000 3.504	68.30 2.689	34.00 1.339	-	6.60 0.260	1.50 0.059	61.50 2.421
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWN30118		-0.04	-0.00157				2.80 0.110	21.00 0.827
						Cir Clip		
						C17	NONE	
		PAGE #	239					
11-610	4	92.000 3.622	65.00 2.559	31.50 1.240			1.20 0.047	70.00 2.756
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWF20057		-0.04	-0.00157				4.00 0.157	21.00 0.827
						Cir Clip		
						C17	NONE	

SURFACE TREATMENT: NONE

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

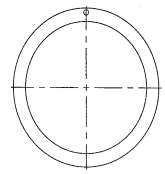
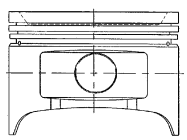
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368
RED:	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329
BLUE:	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341	87.7125 3.45325	87.9625 3.46309
GREEN:	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9700 3.50276	89.2200 3.51260	89.4700 3.52244	89.7200 3.53228	89.9700 3.54213
GREEN:	88.9900 3.50354	89.2400 3.51339	89.4900 3.52323	89.7400 3.53307	89.9900 3.54291

REMARKS:
Measure for CYL Clearance: **17.00** mm / **0.669** inch from Bottom of Skirt.

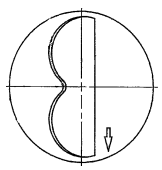
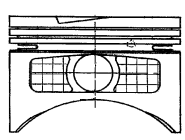
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

SURFACE TREATMENT: Anodized Head

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	91.9775 3.62116	92.2275 3.63100	92.4775 3.64085	92.7275 3.65069	92.9775 3.66053
RED:	91.9675 3.62077	92.2175 3.63061	92.4675 3.64045	92.7175 3.65030	92.9675 3.66014
BLUE:	91.9625 3.62057	92.2125 3.63041	92.4625 3.64026	92.7125 3.65010	92.9625 3.65994
GREEN:	91.9725 3.62096	92.2225 3.63081	92.4725 3.64065	92.7225 3.65049	92.9725 3.66033

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

SURFACE TREATMENT: NONE

PISTON BUYER'S GUIDE

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

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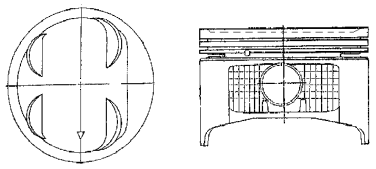
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 243							97.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-612	4	96.900 / 3.815	68.10 / 2.681	33.30 / 1.311	-	2.60 / 0.102	1.20 / 0.047	58.00 / 2.283	YELLOW:	96.9775 / 3.81801	97.2275 / 3.82785	97.4775 / 3.83770	97.7275 / 3.84754	97.9775 / 3.85738
							1.50 / 0.059		RED:	96.9675 / 3.81762	97.2175 / 3.82746	97.4675 / 3.83730	97.7175 / 3.84715	97.9675 / 3.85699
							3.00 / 0.118	23.00 / 0.906	BLUE:	96.9625 / 3.81742	97.2125 / 3.82726	97.4625 / 3.83711	97.7125 / 3.84695	97.9625 / 3.85679
									GREEN:	96.9725 / 3.81781	97.2225 / 3.82766	97.4725 / 3.83750	97.7225 / 3.84734	97.9725 / 3.85719

PISTON RING # SWF20045 — Total Clearance mm: -0.04, inch: -0.00157



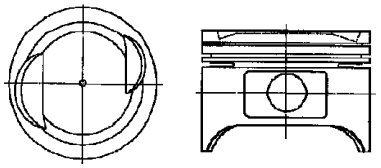
Cir Clip: —

SURFACE TREATMENT: NONE

REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

		PAGE # 91 249							74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-625	3	74.000 / 2.913	55.30 / 2.177	28.40 / 1.118	-	1.30 / 0.051	1.20 / 0.047	65.00 / 2.559	YELLOW:	73.9775 / 2.91250	74.2275 / 2.92234	74.4775 / 2.93219	74.7275 / 2.94203	74.9775 / 2.95187
							1.50 / 0.059		RED:	73.9675 / 2.91211	74.2175 / 2.92195	74.4675 / 2.93179	74.7175 / 2.94163	74.9675 / 2.95148
							2.80 / 0.110	17.00 / 0.669	BLUE:	73.9625 / 2.91191	74.2125 / 2.92175	74.4625 / 2.93159	74.7125 / 2.94144	74.9625 / 2.95128
									GREEN:	73.9725 / 2.91230	74.2225 / 2.92215	74.4725 / 2.93199	74.7225 / 2.94183	74.9725 / 2.95167

PISTON RING # SWS20141 — Total Clearance mm: -0.04, inch: -0.00157



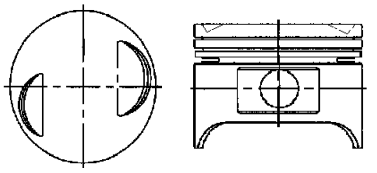
Cir Clip: NONE

SURFACE TREATMENT: NONE

REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

		PAGE # 249							73.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-626	4	74.000 / 2.913	56.20 / 2.213	29.30 / 1.154	-	4.80 / 0.189	1.20 / 0.047	65.00 / 2.559	YELLOW:	73.9730 / 2.91232	74.2230 / 2.92217	74.4730 / 2.93201	74.7230 / 2.94185	74.9730 / 2.95169
							1.50 / 0.059		RED:	73.9865 / 2.91285	74.2365 / 2.92270	74.4865 / 2.93254	74.7365 / 2.94238	74.9865 / 2.95222
							2.80 / 0.110	17.00 / 0.669	BLUE:	73.9795 / 2.91258	74.2295 / 2.92242	74.4795 / 2.93226	74.7295 / 2.94211	74.9795 / 2.95195

PISTON RING # SWS20143 — Total Clearance mm: -0.03, inch: -0.00118



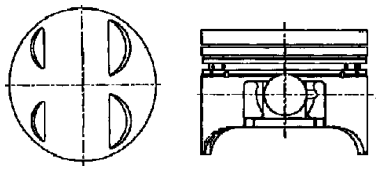
Cir Clip: —

SURFACE TREATMENT: NONE

REMARKS: Measure for CYL Clearance: 12.00 mm / 0.472 inch from Bottom of Skirt.

		PAGE # 249							73.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
11-627	4	74.000 / 2.913	56.20 / 2.213	29.20 / 1.150			1.20 / 0.047	61.00 / 2.402						
							1.50 / 0.059		RED:	73.9600 / 2.91181	74.2100 / 2.92165	74.4600 / 2.93150	74.7100 / 2.94134	74.9600 / 2.95118
							2.80 / 0.110	19.00 / 0.748						
									GREEN:	73.9800 / 2.91260	74.2300 / 2.92244	74.4800 / 2.93228	74.7300 / 2.94213	74.9800 / 2.95197

PISTON RING # SWS20143 — Total Clearance mm: -0.03, inch: -0.00118



Cir Clip: —

SURFACE TREATMENT: NONE

REMARKS: Measure for CYL Clearance: 14.00 mm / 0.551 inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-628	4	74.000 / 2.913	55.30 / 2.177	28.30 / 1.114			1.20 / 0.047	62.00 / 2.441
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWS20143		-0.04	-0.00157				2.80 / 0.110	17.00 / 0.669
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
11-629	4	75.000 / 2.953	58.20 / 2.291	28.50 / 1.122	-	3.30 / 0.130	1.20 / 0.047	63.00 / 2.480
PISTON RING #		Total Clearance mm	inch		-	4.70 / 0.19	1.50 / 0.059	
SWS20142		-0.04	-0.00157				2.80 / 0.110	19.00 / 0.748
						Cir Clip		
						C-clip	SURFACE TREATMENT: NONE	
						C17	NONE	
11-630	4	75.000 / 2.953	55.20 / 2.173	28.20 / 1.110	-	4.10 / 0.161	1.20 / 0.047	61.50 / 2.421
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWS20142		-0.04	-0.00157				2.80 / 0.110	19.00 / 0.748
						Cir Clip		
						C-clip	SURFACE TREATMENT: NONE	
						J05	NONE	
11-631	4	92.000 / 3.622	86.20 / 3.394	49.20 / 1.937	-	2.40 / 0.094	2.00 / 0.079	74.00 / 2.913
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079	
SDT10089		-0.1016	-0.00400				4.00 / 0.157	29.00 / 1.142
						Cir Clip		
						C-clip	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
PAGE # 249	73.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	73.9905 / 2.91301	74.2405 / 2.92285	74.4905 / 2.93270	74.7405 / 2.94254	74.9905 / 2.95238
WHITE:	73.9825 / 2.91270	74.2325 / 2.92254	74.4825 / 2.93238	74.7325 / 2.94222	74.9825 / 2.95207
BLUE:	73.9695 / 2.91219	74.2195 / 2.92203	74.4695 / 2.93187	74.7195 / 2.94171	74.9695 / 2.95156
GREEN:	73.9775 / 2.91250	74.2275 / 2.92234	74.4775 / 2.93219	74.7275 / 2.94203	74.9775 / 2.95187
REMARKS: Measure for CYL Clearance:		7.50 mm / 0.295 inch		from Bottom of Skirt.	
PAGE # 93 249	75.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	74.9775 / 2.95187	75.2275 / 2.96171	75.4775 / 2.97156	75.7275 / 2.98140	75.9775 / 2.99124
RED:	74.9675 / 2.95148	75.2175 / 2.96132	75.4675 / 2.97116	75.7175 / 2.98100	75.9675 / 2.99085
BLUE:	74.9625 / 2.95128	75.2125 / 2.96112	75.4625 / 2.97096	75.7125 / 2.98081	75.9625 / 2.99065
GREEN:	74.9725 / 2.95167	75.2225 / 2.96152	75.4725 / 2.97136	75.7225 / 2.98120	75.9725 / 2.99104
REMARKS: Measure for CYL Clearance:		10.00 mm / 0.394 inch		from Bottom of Skirt.	
PAGE # 93 249	74.970	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	74.9805 / 2.95199	75.2305 / 2.96183	75.4805 / 2.97167	75.7305 / 2.98152	75.9805 / 2.99136
WHITE:	74.9725 / 2.95167	75.2225 / 2.96152	75.4725 / 2.97136	75.7225 / 2.98120	75.9725 / 2.99104
BLUE:	74.9595 / 2.95116	75.2095 / 2.96100	75.4595 / 2.97085	75.7095 / 2.98069	75.9595 / 2.99053
GREEN:	74.9675 / 2.95148	75.2175 / 2.96132	75.4675 / 2.97116	75.7175 / 2.98100	75.9675 / 2.99085
REMARKS: Measure for CYL Clearance:		21.00 mm / 0.827 inch		from Bottom of Skirt.	
PAGE # 259	92.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	91.9775 / 3.62116	92.2275 / 3.63100	92.4775 / 3.64085	92.7275 / 3.65069	92.9775 / 3.66053
RED:	91.9675 / 3.62077	92.2175 / 3.63061	92.4675 / 3.64045	92.7175 / 3.65030	92.9675 / 3.66014
BLUE:	91.9625 / 3.62057	92.2125 / 3.63041	92.4625 / 3.64026	92.7125 / 3.65010	92.9625 / 3.65994
GREEN:	91.9725 / 3.62096	92.2225 / 3.63081	92.4725 / 3.64065	92.7225 / 3.65049	92.9725 / 3.66033
REMARKS: Measure for CYL Clearance:		15.00 mm / 0.591 inch		from Bottom of Skirt.	

PISTON BUYER'S GUIDE

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

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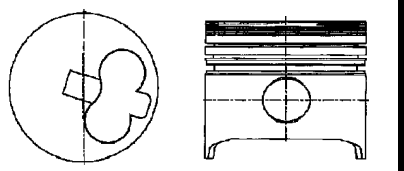
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-632	4	92.000 3.622	86.20 3.394	49.20 1.937	-	1.30 0.051	2.00 0.079	74.00 2.913

PAGE # 259

PISTON RING #	Total Clearance mm	Total Clearance inch
SDT10089	-0.1016	-0.00400



Cir Clip: —

SURFACE TREATMENT: NONE

C17: NONE

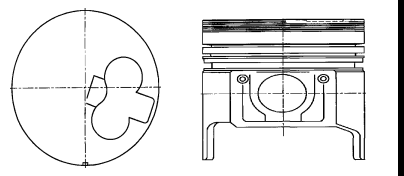
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	91.9775 3.62116	92.2275 3.63100	92.4775 3.64085	92.7275 3.65069	92.9775 3.66053
RED:	91.9675 3.62077	92.2175 3.63061	92.4675 3.64045	92.7175 3.65030	92.9675 3.66014
BLUE:	91.9625 3.62057	92.2125 3.63041	92.4625 3.64026	92.7125 3.65010	92.9625 3.65994
GREEN:	91.9725 3.62096	92.2225 3.63081	92.4725 3.64065	92.7225 3.65049	92.9725 3.66033

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PAGE # 257

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-634	4	90.000 3.543	99.00 3.898	52.00 2.047	-	1.40 0.055	2.00 0.079	73.50 2.894

PISTON RING #	Total Clearance mm	Total Clearance inch
SDT10082	-0.1016	-0.00400



Cir Clip: —

SURFACE TREATMENT: NONE

J05: NONE

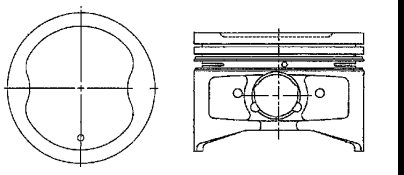
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
89.950	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	89.9605 3.54175	90.2105 3.55159	90.4605 3.56144	90.7105 3.57128	90.9605 3.58112
WHITE:	89.9525 3.54144	90.2025 3.55128	90.4525 3.56112	90.7025 3.57096	90.9525 3.58081
BLUE:	89.9395 3.54093	90.1895 3.55077	90.4395 3.56061	90.6895 3.57045	90.9395 3.58030
GREEN:	89.9475 3.54124	90.1975 3.55108	90.4475 3.56093	90.6975 3.57077	90.9475 3.58061

REMARKS:
Measure for CYL Clearance: **32.00** mm / **1.260** inch from Bottom of Skirt.

PAGE # 259

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-636	4	95.000 3.740	67.50 2.657	35.50 1.398	-	2.20 0.087	1.75 0.069	70.00 2.756

PISTON RING #	Total Clearance mm	Total Clearance inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
SWT10127	-0.04	-0.00157	-	2.50 0.10	1.50 0.059	
					4.00 0.157	24.00 0.945



Cir Clip: —

SURFACE TREATMENT: NONE

C17: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	94.9775 3.73927	95.2275 3.74911	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864
RED:	94.9675 3.73888	95.2175 3.74872	95.4675 3.75856	95.7175 3.76841	95.9675 3.77825
BLUE:	94.9625 3.73868	95.2125 3.74852	95.4625 3.75837	95.7125 3.76821	95.9625 3.77805
GREEN:	94.9725 3.73907	95.2225 3.74892	95.4725 3.75876	95.7225 3.76860	95.9725 3.77844

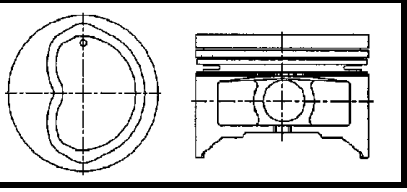
REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PAGE # 257

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-637	4	91.000 3.583	65.00 2.559	35.00 1.378	-	6.20 0.244	1.50 0.059	66.00 2.598

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10111	-0.03	-0.00118

	1.50 0.059	
	4.00 0.157	22.00 0.866



Cir Clip: NONE

SURFACE TREATMENT: NONE

J05: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
90.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	90.9850 3.58209	91.2350 3.59193	91.4850 3.60177	91.7350 3.61161	91.9850 3.62146
WHITE:	90.9825 3.58199	91.2325 3.59183	91.4825 3.60167	91.7325 3.61152	91.9825 3.62136
BLUE:	90.9750 3.58169	91.2250 3.59154	91.4750 3.60138	91.7250 3.61122	91.9750 3.62106
GREEN:	90.9775 3.58179	91.2275 3.59163	91.4775 3.60148	91.7275 3.61132	91.9775 3.62116

REMARKS:
Measure for CYL Clearance: **25.00** mm / **0.984** inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 261							83.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-639	6	83.000 / 3.268	71.00 / 2.795	33.00 / 1.299	-	5.80 / 0.228	1.50 / 0.059	66.00 / 2.598	YELLOW:	82.9775 / 3.26683	83.2275 / 3.27667	83.4775 / 3.28652	83.7275 / 3.29636	83.9775 / 3.30620
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059		RED:	82.9675 / 3.26644	83.2175 / 3.27628	83.4675 / 3.28612	83.7175 / 3.29596	83.9675 / 3.30581
SWT10115		-0.04 / -0.00157					4.00 / 0.157	22.00 / 0.866	BLUE:	82.9625 / 3.26624	83.2125 / 3.27608	83.4625 / 3.28593	83.7125 / 3.29577	83.9625 / 3.30561
						Cir Clip			GREEN:	82.9725 / 3.26663	83.2225 / 3.27648	83.4725 / 3.28632	83.7225 / 3.29616	83.9725 / 3.30600
						NONE	SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
		PAGE # 261							83.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-641	6	83.000 / 3.268	74.10 / 2.917	32.90 / 1.295	+	3.30 / 0.130	1.50 / 0.059	66.00 / 2.598	YELLOW:	82.9775 / 3.26683	83.2275 / 3.27667	83.4775 / 3.28652	83.7275 / 3.29636	83.9775 / 3.30620
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059		RED:	82.9675 / 3.26644	83.2175 / 3.27628	83.4675 / 3.28612	83.7175 / 3.29596	83.9675 / 3.30581
SWT10079		-0.04 / -0.00157					4.00 / 0.157	22.00 / 0.866	BLUE:	82.9625 / 3.26624	83.2125 / 3.27608	83.4625 / 3.28593	83.7125 / 3.29577	83.9625 / 3.30561
						Cir Clip			GREEN:	82.9725 / 3.26663	83.2225 / 3.27648	83.4725 / 3.28632	83.7225 / 3.29616	83.9725 / 3.30600
						C17	SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
		PAGE # 261							83.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-642	6	83.000 / 3.268	71.00 / 2.795	33.00 / 1.299	-	3.30 / 0.130	1.50 / 0.059	66.00 / 2.598	YELLOW:	82.9775 / 3.26683	83.2275 / 3.27667	83.4775 / 3.28652	83.7275 / 3.29636	83.9775 / 3.30620
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059		RED:	82.9675 / 3.26644	83.2175 / 3.27628	83.4675 / 3.28612	83.7175 / 3.29596	83.9675 / 3.30581
SWT10079		-0.04 / -0.00157					4.00 / 0.157	22.00 / 0.866	BLUE:	82.9625 / 3.26624	83.2125 / 3.27608	83.4625 / 3.28593	83.7125 / 3.29577	83.9625 / 3.30561
						Cir Clip			GREEN:	82.9725 / 3.26663	83.2225 / 3.27648	83.4725 / 3.28632	83.7225 / 3.29616	83.9725 / 3.30600
						C17	SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
		PAGE # 257							86.000	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-644	4	86.000 / 3.386	68.40 / 2.693	35.00 / 1.378	-	3.90 / 0.154	1.50 / 0.059	66.00 / 2.598	YELLOW:	86.0105 / 3.38624	86.2605 / 3.39608	86.5105 / 3.40593	86.7605 / 3.41577	87.0105 / 3.42561
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059		WHITE:	86.0025 / 3.38593	86.2525 / 3.39577	86.5025 / 3.40561	86.7525 / 3.41545	87.0025 / 3.42530
SWT10090		-0.04 / -0.00157					4.00 / 0.157	20.01 / 0.788	BLUE:	85.9895 / 3.38541	86.2395 / 3.39526	86.4895 / 3.40510	86.7395 / 3.41494	86.9895 / 3.42478
						Cir Clip			GREEN:	85.9975 / 3.38573	86.2475 / 3.39557	86.4975 / 3.40541	86.7475 / 3.41526	86.9975 / 3.42510
						NONE	SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.					
						J05								

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-646	4	86.000 / 3.386	67.10 / 2.642	35.00 / 1.378	-	1.60 / 0.063	1.20 / 0.047	66.00 / 2.598
PISTON RING # SWT10141		Total Clearance mm: -0.04	inch: -0.00157		-	5.10 / 0.20	1.50 / 0.059	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						T01	SURFACE TREATMENT: NONE / NONE	
11-647	4	86.000 / 3.386	62.10 / 2.445	35.10 / 1.382	-	0.80 / 0.031	1.20 / 0.047	66.00 / 2.598
PISTON RING # SWT10141		Total Clearance mm: -0.03	inch: -0.00118				1.50 / 0.059	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						T03	SURFACE TREATMENT: NONE / NONE	
11-648	4	86.000 / 3.386	67.10 / 2.642	35.10 / 1.382	-	5.00 / 0.197	1.20 / 0.047	66.00 / 2.598
PISTON RING # SWT10141		Total Clearance mm: -0.03	inch: -0.00118				1.50 / 0.059	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: NONE / NONE	
11-649	4	81.000 / 3.189	61.10 / 2.406	30.60 / 1.205	-	3.00 / 0.118	1.50 / 0.059	61.00 / 2.402
PISTON RING # SWT10142		Total Clearance mm: -0.04	inch: -0.00157		-	2.80 / 0.11	1.50 / 0.059	
							3.00 / 0.118	18.00 / 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE / NONE	
						C17		

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-646 85.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	85.9730 / 3.38476	86.2230 / 3.39461	86.4730 / 3.40445	86.7230 / 3.41429	86.9730 / 3.42413
RED:	85.9865 / 3.38530	86.2365 / 3.39514	86.4865 / 3.40498	86.7365 / 3.41482	86.9865 / 3.42467
BLUE:	85.9795 / 3.38502	86.2295 / 3.39486	86.4795 / 3.40470	86.7295 / 3.41455	86.9795 / 3.42439
REMARKS: Measure for CYL Clearance:	5.00 mm / 0.197 inch	from Bottom of Skirt.			
11-647 85.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	85.9700 / 3.38465	86.2200 / 3.39449	86.4700 / 3.40433	86.7200 / 3.41417	86.9700 / 3.42402
GREEN:	85.9900 / 3.38543	86.2400 / 3.39528	86.4900 / 3.40512	86.7400 / 3.41496	86.9900 / 3.42480
REMARKS: Measure for CYL Clearance:	11.00 mm / 0.433 inch	from Bottom of Skirt.			
11-648 86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 / 3.38494	86.2275 / 3.39478	86.4775 / 3.40463	86.7275 / 3.41447	86.9775 / 3.42431
RED:	85.9675 / 3.38455	86.2175 / 3.39439	86.4675 / 3.40423	86.7175 / 3.41407	86.9675 / 3.42392
BLUE:	85.9625 / 3.38435	86.2125 / 3.39419	86.4625 / 3.40404	86.7125 / 3.41388	86.9625 / 3.42372
GREEN:	85.9725 / 3.38474	86.2225 / 3.39459	86.4725 / 3.40443	86.7225 / 3.41427	86.9725 / 3.42411
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			
11-649 81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 / 3.18809	81.2275 / 3.19793	81.4775 / 3.20778	81.7275 / 3.21762	81.9775 / 3.22746
RED:	80.9675 / 3.18770	81.2175 / 3.19754	81.4675 / 3.20738	81.7175 / 3.21722	81.9675 / 3.22707
BLUE:	80.9625 / 3.18750	81.2125 / 3.19734	81.4625 / 3.20719	81.7125 / 3.21703	81.9625 / 3.22687
GREEN:	80.9725 / 3.18789	81.2225 / 3.19774	81.4725 / 3.20758	81.7225 / 3.21742	81.9725 / 3.22726
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-650	4	73.000 / 2.874	62.00 / 2.441	30.00 / 1.181	-	2.90 / 0.114	1.50 / 0.059	59.00 / 2.323
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWT10143		-0.04	-0.00157				3.00 / 0.118	18.00 / 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
11-651	6	87.500 / 3.445	65.20 / 2.567	32.30 / 1.272	-	2.20 / 0.087	1.50 / 0.059	63.00 / 2.480
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWT10148		-0.04	-0.00157				3.00 / 0.118	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: Anodized Head	
						C17	NONE	
11-653	6	87.500 / 3.445	62.60 / 2.465	33.70 / 1.327	-	3.80 / 0.150	1.50 / 0.059	63.00 / 2.480
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWT10144		-0.04	-0.00157				4.00 / 0.157	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
11-654	4	87.000 / 3.425	63.00 / 2.480	32.50 / 1.280	-	4.70 / 0.185	1.50 / 0.059	66.00 / 2.598
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWT10133		-0.04	-0.00157				4.00 / 0.157	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-650 PAGE # 253	73.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	72.9775 / 2.87313	73.2275 / 2.88297	73.4775 / 2.89281	73.7275 / 2.90266	73.9775 / 2.91250
RED:	72.9675 / 2.87274	73.2175 / 2.88258	73.4675 / 2.89242	73.7175 / 2.90226	73.9675 / 2.91211
BLUE:	72.9625 / 2.87254	73.2125 / 2.88238	73.4625 / 2.89222	73.7125 / 2.90207	73.9625 / 2.91191
GREEN:	72.9725 / 2.87293	73.2225 / 2.88278	73.4725 / 2.89262	73.7225 / 2.90246	73.9725 / 2.91230
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			
11-651 PAGE # 193 259	87.500	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368	88.2275 / 3.47352	88.4775 / 3.48337
RED:	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329	88.2175 / 3.47313	88.4675 / 3.48297
BLUE:	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309	88.2125 / 3.47293	88.4625 / 3.48278
GREEN:	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348	88.2225 / 3.47333	88.4725 / 3.48317
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
11-653 PAGE # 261	87.480	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	87.4905 / 3.44451	87.7405 / 3.45435	87.9905 / 3.46419	88.2405 / 3.47404	88.4905 / 3.48388
WHITE:	87.4825 / 3.44419	87.7325 / 3.45404	87.9825 / 3.46388	88.2325 / 3.47372	88.4825 / 3.48356
BLUE:	87.4695 / 3.44368	87.7195 / 3.45352	87.9695 / 3.46337	88.2195 / 3.47321	88.4695 / 3.48305
GREEN:	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368	88.2275 / 3.47352	88.4775 / 3.48337
REMARKS: Measure for CYL Clearance:	2.00 mm / 0.079 inch	from Bottom of Skirt.			
11-654 PAGE # 257	87.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368
RED:	86.9675 / 3.42392	87.2175 / 3.43376	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329
BLUE:	86.9625 / 3.42372	87.2125 / 3.43356	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309
GREEN:	86.9725 / 3.42411	87.2225 / 3.43396	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 253						
11-656	4	74.000 2.913	58.60 2.307	29.70 1.169	+	0.70 0.028	1.20 0.047	59.00 2.323
PISTON RING # SWT10128		Total Clearance mm / inch: -0.04 / -0.00157			-	0.20 0.01	1.20 0.047	
							3.00 0.118	18.00 0.709
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 257						
11-657	4	87.000 3.425	63.00 2.480	32.60 1.283	-	5.00 0.197	1.50 0.059	66.00 2.598
PISTON RING # SWT10149		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							3.00 0.118	22.00 0.866
						Cir Clip	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 253						
11-659	4	81.000 3.189	64.80 2.551	30.00 1.181	-	4.00 0.157	1.50 0.059	61.00 2.402
PISTON RING # SWT10108		Total Clearance mm / inch: -0.04 / -0.00157			-	5.00 0.20	1.50 0.059	
							2.80 0.110	18.00 0.709
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 93 253						
11-660	4	81.000 3.189	64.50 2.539	30.50 1.201	+	0.30 0.012	1.50 0.059	61.00 2.402
PISTON RING # SWT10108		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							2.80 0.110	20.00 0.787
						Cir Clip	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	73.9775 2.91250	74.2275 2.92234	74.4775 2.93219	74.7275 2.94203	74.9775 2.95187
RED:	73.9675 2.91211	74.2175 2.92195	74.4675 2.93179	74.7175 2.94163	74.9675 2.95148
BLUE:	73.9625 2.91191	74.2125 2.92175	74.4625 2.93159	74.7125 2.94144	74.9625 2.95128
GREEN:	73.9725 2.91230	74.2225 2.92215	74.4725 2.93199	74.7225 2.94183	74.9725 2.95167
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch		from Bottom of Skirt.		
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368
RED:	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329
BLUE:	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341	87.7125 3.45325	87.9625 3.46309
GREEN:	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch		from Bottom of Skirt.		
80.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	80.9905 3.18860	81.2405 3.19844	81.4905 3.20829	81.7405 3.21813	81.9905 3.22797
WHITE:	80.9825 3.18829	81.2325 3.19813	81.4825 3.20797	81.7325 3.21781	81.9825 3.22766
BLUE:	80.9695 3.18778	81.2195 3.19762	81.4695 3.20746	81.7195 3.21730	81.9695 3.22715
GREEN:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
REMARKS: Measure for CYL Clearance:	0.00 mm / 0.000 inch		from Bottom of Skirt.		
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch		from Bottom of Skirt.		

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 193	261					
11-661	6	87.500 / 3.445	62.20 / 2.449	34.00 / 1.339	-	3.40 / 0.134	1.50 / 0.059	62.00 / 2.441
PISTON RING # SWT10144		Total Clearance mm: -0.04 inch: -0.00157					4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	NONE
		PAGE # 91						
11-665	3	74.000 / 2.913	55.70 / 2.193	28.70 / 1.130	-	2.10 / 0.083	1.20 / 0.047	65.00 / 2.559
PISTON RING # SWS20144		Total Clearance mm: -0.03 inch: -0.00118					1.50 / 0.059	
							2.80 / 0.110	17.00 / 0.669
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T03	NONE	
		PAGE # 265						
11-673	6	94.000 / 3.701	79.70 / 3.138	37.40 / 1.472	+	0.30 / 0.012	2.00 / 0.079	75.00 / 2.953
PISTON RING # SWT10151		Total Clearance mm: -0.03 inch: -0.00118					2.00 / 0.079	
							4.00 / 0.157	22.00 / 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	NONE
		PAGE # 229						
11-675	6	87.000 / 3.425	64.50 / 2.539	32.00 / 1.260			1.50 / 0.059	67.00 / 2.638
PISTON RING # SWN30058		Total Clearance mm: -0.04 inch: -0.00157					1.50 / 0.059	
							2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	NONE

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-661 — 87.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368	88.2275 / 3.47352	88.4775 / 3.48337
RED:	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329	88.2175 / 3.47313	88.4675 / 3.48297
BLUE:	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309	88.2125 / 3.47293	88.4625 / 3.48278
GREEN:	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348	88.2225 / 3.47333	88.4725 / 3.48317
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			
11-665 — 73.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	73.9600 / 2.91181	74.2100 / 2.92165	74.4600 / 2.93150	74.7100 / 2.94134	74.9600 / 2.95118
GREEN:	73.9800 / 2.91260	74.2300 / 2.92244	74.4800 / 2.93228	74.7300 / 2.94213	74.9800 / 2.95197
REMARKS: Measure for CYL Clearance:	13.80 mm / 0.543 inch	from Bottom of Skirt.			
11-673 — 93.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	93.9600 / 3.69921	94.2100 / 3.70906	94.4600 / 3.71890	94.7100 / 3.72874	94.9600 / 3.73858
GREEN:	93.9800 / 3.70000	94.2300 / 3.70984	94.4800 / 3.71969	94.7300 / 3.72953	94.9800 / 3.73937
REMARKS: Measure for CYL Clearance:	27.50 mm / 1.083 inch	from Bottom of Skirt.			
11-675 — 87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368
RED:	86.9675 / 3.42392	87.2175 / 3.43376	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329
BLUE:	86.9625 / 3.42372	87.2125 / 3.43356	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309
GREEN:	86.9725 / 3.42411	87.2225 / 3.43396	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348
REMARKS: Measure for CYL Clearance:	10.00 mm / 0.394 inch	from Bottom of Skirt.			

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 227						
11-676	4	89.000 3.504	68.30 2.689	34.00 1.339	-	0.60 0.024	1.50 0.059	66.50 2.618
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWN30118		-0.04	-0.00157				2.80 0.110	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE # 259						
11-677	4	92.000 3.622	63.80 2.512	34.80 1.370	-	5.30 0.209	1.50 0.059	73.00 2.874
PISTON RING #		Total Clearance mm	inch		-	5.60 0.22	1.50 0.059	
SWT10103		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE # 163						
11-678	4	85.000 3.346	65.30 2.571	30.80 1.213	-	3.70 0.146	1.20 0.047	57.00 2.244
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWH30383		-0.04	-0.00157				2.80 0.110	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE # 159						
11-679	4	75.000 2.953	60.00 2.362	30.00 1.181	-	3.50 0.138	1.20 0.047	56.00 2.205
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWH30362		-0.04	-0.00157				2.80 0.110	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
89.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	88.9775 3.50305	89.2275 3.51289	89.4775 3.52274	89.7275 3.53258	89.9775 3.54242
RED:	88.9675 3.50266	89.2175 3.51250	89.4675 3.52234	89.7175 3.53219	89.9675 3.54203
BLUE:	88.9625 3.50246	89.2125 3.51230	89.4625 3.52215	89.7125 3.53199	89.9625 3.54183
GREEN:	88.9725 3.50285	89.2225 3.51270	89.4725 3.52254	89.7225 3.53238	89.9725 3.54222

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	91.9775 3.62116	92.2275 3.63100	92.4775 3.64085	92.7275 3.65069	92.9775 3.66053
RED:	91.9675 3.62077	92.2175 3.63061	92.4675 3.64045	92.7175 3.65030	92.9675 3.66014
BLUE:	91.9625 3.62057	92.2125 3.63041	92.4625 3.64026	92.7125 3.65010	92.9625 3.65994
GREEN:	91.9725 3.62096	92.2225 3.63081	92.4725 3.64065	92.7225 3.65049	92.9725 3.66033

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
85.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	84.9775 3.34557	85.2275 3.35541	85.4775 3.36526	85.7275 3.37510	85.9775 3.38494
RED:	84.9675 3.34518	85.2175 3.35502	85.4675 3.36486	85.7175 3.37470	85.9675 3.38455
BLUE:	84.9625 3.34498	85.2125 3.35482	85.4625 3.36467	85.7125 3.37451	85.9625 3.38435
GREEN:	84.9725 3.34537	85.2225 3.35522	85.4725 3.36506	85.7225 3.37490	85.9725 3.38474

REMARKS:
Measure for CYL Clearance: **20.00** mm / **0.787** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	74.9905 2.95238	75.2405 2.96222	75.4905 2.97207	75.7405 2.98191	75.9905 2.99175
WHITE:	74.9825 2.95207	75.2325 2.96191	75.4825 2.97175	75.7325 2.98159	75.9825 2.99144
BLUE:	74.9695 2.95156	75.2195 2.96140	75.4695 2.97124	75.7195 2.98108	75.9695 2.99093
GREEN:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124

REMARKS:
Measure for CYL Clearance: **27.00** mm / **1.063** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 223						
11-680	4	76.000 2.992	54.30 2.138	29.70 1.169	-	4.70 0.185	1.50 0.059	52.00 2.047
PISTON RING #		Total Clearance mm	inch				-	
SWN30116		-0.03	-0.00118				- 2.80 0.110	 19.00 0.748
						Cir Clip		
						T01	SURFACE TREATMENT Anodized Head NONE	
		PAGE # 229						
11-681	6	87.000 3.425	67.80 2.669	31.85 1.254	+	0.80 0.031	1.50 0.059	64.00 2.520
PISTON RING #		Total Clearance mm	inch		+	0.15 0.01	1.50 0.059	
SWN30058		-0.04	-0.00157				2.80 0.110	21.00 0.827
						Cir Clip		
						C17	SURFACE TREATMENT NONE NONE	
		PAGE # 5 179						
11-685	6	93.400 3.677	65.20 2.567	31.70 1.248			1.50 0.059	66.00 2.598
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWI10185		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						C17	NONE	
		PAGE # 165 179						
11-686	6	93.400 3.677	65.20 2.567	31.70 1.248			1.50 0.059	66.00 2.598
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWI10185		-0.04	-0.00157				4.00 0.157	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	75.9700 2.99094	76.2200 3.00079	76.4700 3.01063	76.7200 3.02047	76.9700 3.03031
GREEN:	75.9900 2.99173	76.2400 3.00157	76.4900 3.01142	76.7400 3.02126	76.9900 3.03110

REMARKS:
Measure for CYL Clearance: **12.00** mm / **0.472** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368
RED:	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329
BLUE:	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341	87.7125 3.45325	87.9625 3.46309
GREEN:	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990	94.2275 3.70974	94.4775 3.71959
RED:	93.4675 3.67982	93.7175 3.68967	93.9675 3.69951	94.2175 3.70935	94.4675 3.71919
BLUE:	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931	94.2125 3.70915	94.4625 3.71900
GREEN:	93.4725 3.68002	93.7225 3.68986	93.9725 3.69970	94.2225 3.70955	94.4725 3.71939

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990	94.2275 3.70974	94.4775 3.71959
RED:	93.4675 3.67982	93.7175 3.68967	93.9675 3.69951	94.2175 3.70935	94.4675 3.71919
BLUE:	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931	94.2125 3.70915	94.4625 3.71900
GREEN:	93.4725 3.68002	93.7225 3.68986	93.9725 3.69970	94.2225 3.70955	94.4725 3.71939

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 55						
11-689	4	76.000 2.992	60.70 2.390	30.70 1.209	-	0.50 0.020	1.20 0.047	58.00 2.283
PISTON RING # SWD10031		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							3.00 0.118	19.00 0.748
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 167						
11-690	4	81.500 3.209	67.00 2.638	35.00 1.378	-	1.00 0.039	1.20 0.047	66.00 2.598
PISTON RING # SWM31058		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							3.00 0.118	21.00 0.827
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 167						
11-691	4	75.500 2.972	54.30 2.138	31.40 1.236	-	0.70 0.028	1.50 0.059	47.50 1.870
PISTON RING # SWG30017		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							3.00 0.118	18.00 0.709
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 169						
11-692	4	85.000 3.346	67.00 2.638	35.00 1.378	-	2.10 0.083	1.20 0.047	66.00 2.598
PISTON RING # SWM31071		Total Clearance mm / inch: -0.04 / -0.00157					1.50 0.059	
							3.00 0.118	21.00 0.827
						Cir Clip: NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
76.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093	76.7275 3.02077	76.9775 3.03061
RED:	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053	76.7175 3.02037	76.9675 3.03022
BLUE:	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033	76.7125 3.02018	76.9625 3.03002
GREEN:	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073	76.7225 3.02057	76.9725 3.03041

REMARKS: Measure for CYL Clearance: **15.00** mm / **0.591** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746	82.2275 3.23730	82.4775 3.24715
RED:	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707	82.2175 3.23691	82.4675 3.24675
BLUE:	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687	82.2125 3.23671	82.4625 3.24656
GREEN:	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726	82.2225 3.23711	82.4725 3.24695

REMARKS: Measure for CYL Clearance: **20.00** mm / **0.787** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093
RED:	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053
BLUE:	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033
GREEN:	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch **from Bottom of Skirt.**

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
85.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	84.9775 3.34557	85.2275 3.35541	85.4775 3.36526	85.7275 3.37510	85.9775 3.38494
RED:	84.9675 3.34518	85.2175 3.35502	85.4675 3.36486	85.7175 3.37470	85.9675 3.38455
BLUE:	84.9625 3.34498	85.2125 3.35482	85.4625 3.36467	85.7125 3.37451	85.9625 3.38435
GREEN:	84.9725 3.34537	85.2225 3.35522	85.4725 3.36506	85.7225 3.37490	85.9725 3.38474

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch **from Bottom of Skirt.**

PISTON BUYER'S GUIDE

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

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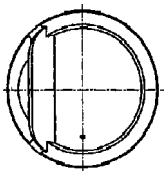
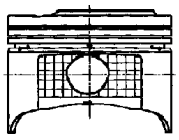
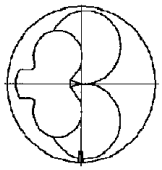
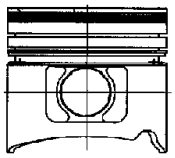
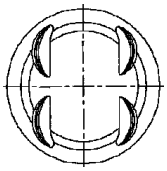
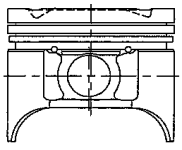
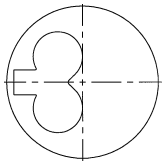
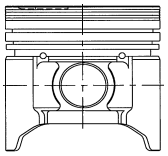
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-693	4	82.000 / 3.228	63.20 / 2.488	31.10 / 1.224	+	2.10 / 0.083	1.20 / 0.047	59.00 / 2.323
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWG30028		-0.04	-0.00157				2.50 / 0.098	20.00 / 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
11-696	4	88.000 / 3.465	82.40 / 3.244	47.60 / 1.874	-	2.60 / 0.102	2.00 / 0.079	68.00 / 2.677
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079	
SDI10101		-0.1016	-0.00400				4.00 / 0.157	27.00 / 1.063
						Cir Clip		
							SURFACE TREATMENT: NONE	
						J05	NONE	
11-699	4	86.000 / 3.386	71.00 / 2.795	36.00 / 1.417	-	0.70 / 0.028	1.50 / 0.059	71.50 / 2.815
PISTON RING #		Total Clearance mm	inch		-	5.50 / 0.22	1.50 / 0.059	
SWT20048*		-0.04	-0.00157				4.00 / 0.157	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: NONE	
						T01	NONE	
11-701	4	86.000 / 3.386	86.40 / 3.402	47.30 / 1.862	-	1.50 / 0.059	2.00 / 0.079	68.00 / 2.677
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079	
SDT20055		-0.1016	-0.00400				4.00 / 0.157	25.00 / 0.984
						Cir Clip		
							SURFACE TREATMENT: NONE	
						T03	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-693 PAGE # 167	82.000	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	82.0105 / 3.22876	82.2605 / 3.23860	82.5105 / 3.24844	82.7605 / 3.25829	83.0105 / 3.26813
WHITE:	82.0025 / 3.22844	82.2525 / 3.23829	82.5025 / 3.24813	82.7525 / 3.25797	83.0025 / 3.26781
BLUE:	81.9895 / 3.22793	82.2395 / 3.23778	82.4895 / 3.24762	82.7395 / 3.25746	82.9895 / 3.26730
GREEN:	81.9975 / 3.22825	82.2475 / 3.23809	82.4975 / 3.24793	82.7475 / 3.25778	82.9975 / 3.26762

REMARKS:
Measure for CYL Clearance: **24.00** mm / **0.945** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-696 PAGE # 177	87.970	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	87.9805 / 3.46380	88.2305 / 3.47364	88.4805 / 3.48348	88.7305 / 3.49333	88.9805 / 3.50317
WHITE:	87.9725 / 3.46348	88.2225 / 3.47333	88.4725 / 3.48317	88.7225 / 3.49301	88.9725 / 3.50285
BLUE:	87.9595 / 3.46297	88.2095 / 3.47281	88.4595 / 3.48266	88.7095 / 3.49250	88.9595 / 3.50234
GREEN:	87.9675 / 3.46329	88.2175 / 3.47313	88.4675 / 3.48297	88.7175 / 3.49281	88.9675 / 3.50266

REMARKS:
Measure for CYL Clearance: mm / inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-699 PAGE # 185	85.960	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	85.9530 / 3.38398	86.2030 / 3.39382	86.4530 / 3.40366	86.7030 / 3.41350	86.9530 / 3.42335
RED:	85.9665 / 3.38451	86.2165 / 3.39435	86.4665 / 3.40419	86.7165 / 3.41404	86.9665 / 3.42388
BLUE:	85.9595 / 3.38423	86.2095 / 3.39407	86.4595 / 3.40392	86.7095 / 3.41376	86.9595 / 3.42360

REMARKS:
Measure for CYL Clearance: **18.00** mm / **0.709** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-701 PAGE # 201	85.970	Tolorance is + / - (mm | inch) :		0.01	0.00039
RED:	85.9600 / 3.38425	86.2100 / 3.39409	86.4600 / 3.40394	86.7100 / 3.41378	86.9600 / 3.42362
GREEN:	85.9800 / 3.38504	86.2300 / 3.39488	86.4800 / 3.40472	86.7300 / 3.41457	86.9800 / 3.42441

REMARKS:
Measure for CYL Clearance: **20.00** mm / **0.787** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

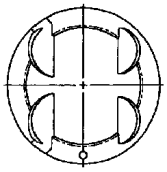
PISTON DIAMETER MEASURING POINT EXPLANATION

11-703

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	185	201				
11-703	4	83.000 3.268	61.50 2.421	30.60 1.205	+	0.50 0.020	1.50 0.059	70.00 2.756

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT20066	-0.04	-0.00157

	1ST	2ND	PIN LENGTH
		1.50 0.059	
		3.00 0.118	32.00 1.260



Cir Clip	SURFACE TREATMENT
	NONE
C17	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	83.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596	83.9675 3.30581
BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561
GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600

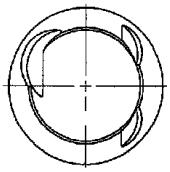
REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-704

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	205					
11-704	6	90.000 3.543	71.30 2.807	35.70 1.406	-	3.60 0.142	1.50 0.059	63.00 2.480

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT20062	-0.04	-0.00157

	1ST	2ND	PIN LENGTH
		1.50 0.059	
		4.00 0.157	26.63 1.048



Cir Clip	SURFACE TREATMENT
NONE	NONE
T01	Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	89.990	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	89.9830 3.54264	90.2330 3.55248	90.4830 3.56232	90.7330 3.57217	90.9830 3.58201
RED:	89.9965 3.54317	90.2465 3.55301	90.4965 3.56285	90.7465 3.57270	90.9965 3.58254
BLUE:	89.9895 3.54289	90.2395 3.55274	90.4895 3.56258	90.7395 3.57242	90.9895 3.58226

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

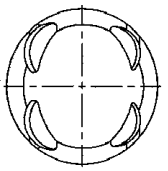
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-706

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	59	201				
11-706	4	83.000 3.268	53.80 2.118	30.00 1.181	-	8.40 0.331	1.20 0.047	58.00 2.283

PISTON RING #	Total Clearance mm	Total Clearance inch
SWF30001 SWT20078	-0.04	-0.00157

	1ST	2ND	PIN LENGTH
		1.50 0.059	
		3.00 0.118	19.00 0.748



Cir Clip	SURFACE TREATMENT
NONE	NONE
C17	NONE

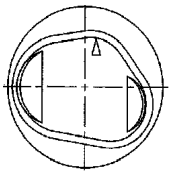
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	83.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596	83.9675 3.30581
BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561
GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

11-707

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE #	33	217				
11-707	6	91.100 3.587	66.00 2.598	32.00 1.260	-	2.30 0.091	1.20 0.047	64.00 2.520

PISTON RING #	Total Clearance mm	Total Clearance inch	-	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
SWM31078	-0.04	-0.00157	-	7.10 0.28	1.50 0.059	
					3.00 0.118	22.00 0.866



Cir Clip	SURFACE TREATMENT
NONE	NONE
T01	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	91.080	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	91.0730 3.58555	91.3230 3.59539	91.5730 3.60524	91.8230 3.61508	92.0730 3.62492
RED:	91.0865 3.58608	91.3365 3.59593	91.5865 3.60577	91.8365 3.61561	92.0865 3.62545
BLUE:	91.0795 3.58581	91.3295 3.59565	91.5795 3.60549	91.8295 3.61533	92.0795 3.62518

REMARKS:
Measure for CYL Clearance: **16.00** mm / **0.630** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 21	215					
11-709	4	86.500 3.406	67.10 2.642	35.00 1.378	-	4.30 0.169	1.20 0.047	62.00 2.441
PISTON RING # SWM31116		Total Clearance mm: -0.03	inch: -0.00118				1.50 0.059	
							2.80 0.110	22.00 0.866
						Cir Clip: NONE		
						T01	SURFACE TREATMENT: NONE	
11-711	4	93.000 3.661	58.30 2.295	30.20 1.189	-	0.40 0.016	1.20 0.047	58.00 2.283
PISTON RING # SWN30115		Total Clearance mm: -0.04	inch: -0.00157				1.20 0.047	
							2.50 0.098	22.00 0.866
						Cir Clip		
						J05	SURFACE TREATMENT: Anodized Head Moly Skirt	
11-713	4	81.000 3.189	56.00 2.205	30.50 1.201	-	3.40 0.134	1.20 0.047	56.00 2.205
PISTON RING # SWT10156		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							3.00 0.118	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
11-714	4	81.000 3.189	55.60 2.189	30.50 1.201	-	2.50 0.098	1.20 0.047	56.00 2.205
PISTON RING # SWT10156		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							3.00 0.118	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-709 — 86.495 — Tolorance is + / - (mm | inch) :				0.003	0.00012
YELLOW:	86.4880 3.40504	86.7380 3.41488	86.9880 3.42472	87.2380 3.43457	87.4880 3.44441
RED:	86.5015 3.40557	86.7515 3.41541	87.0015 3.42526	87.2515 3.43510	87.5015 3.44494
BLUE:	86.4945 3.40530	86.7445 3.41514	86.9945 3.42498	87.2445 3.43482	87.4945 3.44467
11-711 — 92.980 — Tolorance is + / - (mm | inch) :				0.0045	0.00018
YELLOW:	92.9905 3.66104	93.2405 3.67089	93.4905 3.68073	93.7405 3.69057	93.9905 3.70041
WHITE:	92.9825 3.66073	93.2325 3.67057	93.4825 3.68041	93.7325 3.69026	93.9825 3.70010
BLUE:	92.9695 3.66022	93.2195 3.67006	93.4695 3.67990	93.7195 3.68974	93.9695 3.69959
GREEN:	92.9775 3.66053	93.2275 3.67037	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990
11-713 — 81.000 — Tolorance is + / - (mm | inch) :				0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726
11-714 — 81.000 — Tolorance is + / - (mm | inch) :				0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

11-709 REMARKS: Measure for CYL Clearance: **12.00** mm / **0.472** inch from Bottom of Skirt.

11-711 REMARKS: Measure for CYL Clearance: **14.00** mm / **0.551** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-713 REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

11-714 REMARKS: Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

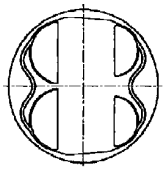
PISTON DIAMETER MEASURING POINT EXPLANATION

11-716

PAGE # 63 205

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-716	6	84.500 / 3.327	55.90 / 2.201	29.20 / 1.150	-	1.70 / 0.067	1.50 / 0.059	61.00 / 2.402
							1.50 / 0.059	
							3.00 / 0.118	19.98 / 0.787

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT20073	-0.04	-0.00157



Cir Clip: NONE

SURFACE TREATMENT: NONE

J05: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	84.4905 / 3.32640	84.7405 / 3.33624	84.9905 / 3.34608	85.2405 / 3.35593	85.4905 / 3.36577
WHITE:	84.4825 / 3.32608	84.7325 / 3.33593	84.9825 / 3.34577	85.2325 / 3.35561	85.4825 / 3.36545
BLUE:	84.4695 / 3.32557	84.7195 / 3.33541	84.9695 / 3.34526	85.2195 / 3.35510	85.4695 / 3.36494
GREEN:	84.4775 / 3.32589	84.7275 / 3.33573	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526

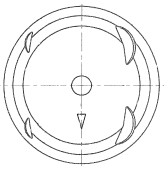
REMARKS:
Measure for CYL Clearance: 11.00 mm / 0.433 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-718

PAGE # 17 213

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-718	4	85.000 / 3.346	67.00 / 2.638	35.00 / 1.378	-	2.20 / 0.087	1.20 / 0.047	62.00 / 2.441
					-	3.60 / 0.142	1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWM31071	-0.04	-0.00157



Cir Clip: NONE

SURFACE TREATMENT: NONE

T01: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	84.9730 / 3.34539	85.2230 / 3.35524	85.4730 / 3.36508	85.7230 / 3.37492	85.9730 / 3.38476
RED:	84.9865 / 3.34593	85.2365 / 3.35577	85.4865 / 3.36561	85.7365 / 3.37545	85.9865 / 3.38530
BLUE:	84.9795 / 3.34565	85.2295 / 3.35549	85.4795 / 3.36533	85.7295 / 3.37518	85.9795 / 3.38502

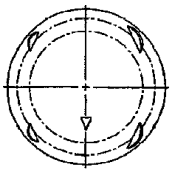
REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

11-719

PAGE # 17 213

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-719	4	85.000 / 3.346	67.00 / 2.638	35.00 / 1.378	-	5.40 / 0.213	1.20 / 0.047	62.00 / 2.441
							1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWM31071	-0.04	-0.00157



Cir Clip: NONE

SURFACE TREATMENT: Anodized Head

C17: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
85.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526	85.7275 / 3.37510	85.9775 / 3.38494
RED:	84.9675 / 3.34518	85.2175 / 3.35502	85.4675 / 3.36486	85.7175 / 3.37470	85.9675 / 3.38455
BLUE:	84.9625 / 3.34498	85.2125 / 3.35482	85.4625 / 3.36467	85.7125 / 3.37451	85.9625 / 3.38435
GREEN:	84.9725 / 3.34537	85.2225 / 3.35522	85.4725 / 3.36506	85.7225 / 3.37490	85.9725 / 3.38474

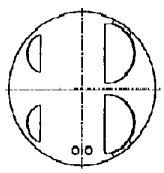
REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-720

PAGE # 193 261 263

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-720	6	87.500 / 3.445	51.00 / 2.008	31.20 / 1.228			1.20 / 0.047	54.00 / 2.126
							1.20 / 0.047	
							3.00 / 0.118	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10177	-0.04	-0.00157



Cir Clip: 16

SURFACE TREATMENT: Anodized Head

C17: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368	88.2275 / 3.47352	88.4775 / 3.48337
RED:	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329	88.2175 / 3.47313	88.4675 / 3.48297
BLUE:	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309	88.2125 / 3.47293	88.4625 / 3.48278
GREEN:	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348	88.2225 / 3.47333	88.4725 / 3.48317

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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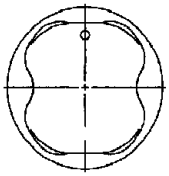
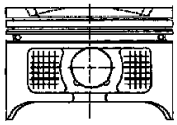
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 263						
11-722	6	93.500 3.681	63.00 2.480	34.00 1.339	-	4.90 0.193	1.50 0.059	62.00 2.441
PISTON RING # SWT10178		Total Clearance mm: -0.04	inch: -0.00157				4.00 0.157	22.00 0.866
		PAGE # 257						
11-723	4	86.000 3.386	67.90 2.673	35.00 1.378	-	5.00 0.197	1.50 0.059	66.00 2.598
PISTON RING # SWT10090		Total Clearance mm: -0.04	inch: -0.00157				4.00 0.157	22.00 0.866
		PAGE # 261						
11-724	4	95.000 3.740	61.00 2.402	37.20 1.465	-	2.60 0.102	1.50 0.059	70.00 2.756
PISTON RING # SWT10139		Total Clearance mm: -0.04	inch: -0.00157				4.00 0.157	24.00 0.945
		PAGE # 259						
11-725	4	95.000 3.740	67.50 2.657	35.50 1.398	-	2.00 0.079	1.75 0.069	70.00 2.756
PISTON RING # SWT10127		Total Clearance mm: -0.03	inch: -0.00118				4.00 0.157	24.00 0.945

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-722 — 93.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990	94.2275 3.70974	94.4775 3.71959
RED:	93.4675 3.67982	93.7175 3.68967	93.9675 3.69951	94.2175 3.70935	94.4675 3.71919
BLUE:	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931	94.2125 3.70915	94.4625 3.71900
GREEN:	93.4725 3.68002	93.7225 3.68986	93.9725 3.69970	94.2225 3.70955	94.4725 3.71939
11-723 — 86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411
11-724 — 95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	94.9775 3.73927	95.2275 3.74911	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864
RED:	94.9675 3.73888	95.2175 3.74872	95.4675 3.75856	95.7175 3.76841	95.9675 3.77825
BLUE:	94.9625 3.73868	95.2125 3.74852	95.4625 3.75837	95.7125 3.76821	95.9625 3.77805
GREEN:	94.9725 3.73907	95.2225 3.74892	95.4725 3.75876	95.7225 3.76860	95.9725 3.77844
11-725 — 95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	94.9775 3.73927	95.2275 3.74911	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864
RED:	94.9675 3.73888	95.2175 3.74872	95.4675 3.75856	95.7175 3.76841	95.9675 3.77825
BLUE:	94.9625 3.73868	95.2125 3.74852	95.4625 3.75837	95.7125 3.76821	95.9625 3.77805
GREEN:	94.9725 3.73907	95.2225 3.74892	95.4725 3.75876	95.7225 3.76860	95.9725 3.77844

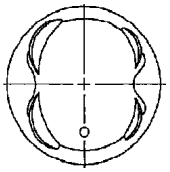
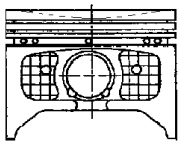



Cir Clip

SURFACE TREATMENT: Anodized Head

C17: NONE

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

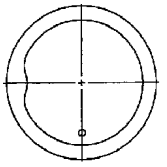
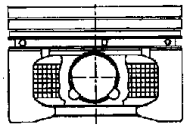



Cir Clip

SURFACE TREATMENT: NONE

C17: NONE

REMARKS:
Measure for CYL Clearance: 20.00 mm / 0.787 inch from Bottom of Skirt.

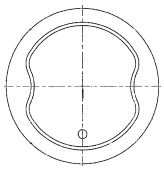
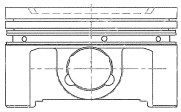



Cir Clip

SURFACE TREATMENT: Anodized Head

C17: Moly Skirt

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

Cir Clip

SURFACE TREATMENT: Anodized Head

C17: NONE

REMARKS:
Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

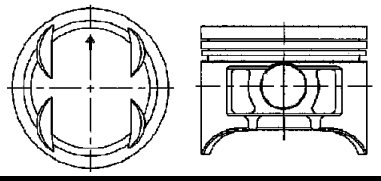
11-726

PAGE # 163

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
4	83.000 / 3.268	65.40 / 2.575	30.90 / 1.217	-	0.80 / 0.031	1.20 / 0.047	56.00 / 2.205
						1.20 / 0.047	
						2.80 / 0.110	22.00 / 0.866

PISTON RING #: SWH30448

Total Clearance: -0.03 mm / -0.00118 inch



Cir Clip: NONE

SURFACE TREATMENT: NONE

C17: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
82.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	82.9700 / 3.26654	83.2200 / 3.27638	83.4700 / 3.28622	83.7200 / 3.29606	83.9700 / 3.30591
GREEN:	82.9900 / 3.26732	83.2400 / 3.27717	83.4900 / 3.28701	83.7400 / 3.29685	83.9900 / 3.30669

REMARKS:
Measure for CYL Clearance: 16.00 mm / 0.630 inch from Bottom of Skirt.

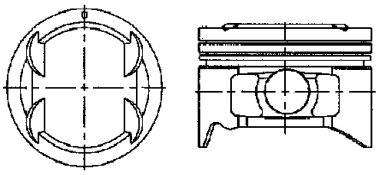
11-727

PAGE # 173 229

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
6	87.000 / 3.425	61.00 / 2.402	32.00 / 1.260	+	1.50 / 0.059	1.50 / 0.059	69.00 / 2.717
				-	1.20 / 0.05	1.50 / 0.059	
						2.80 / 0.110	22.00 / 0.866

PISTON RING #: SWN30058

Total Clearance: -0.04 mm / -0.00157 inch



Cir Clip:

SURFACE TREATMENT: NONE

T01: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.990	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	86.9830 / 3.42453	87.2330 / 3.43437	87.4830 / 3.44421	87.7330 / 3.45406	87.9830 / 3.46390
RED:	86.9965 / 3.42506	87.2465 / 3.43490	87.4965 / 3.44474	87.7465 / 3.45459	87.9965 / 3.46443
BLUE:	86.9895 / 3.42478	87.2395 / 3.43463	87.4895 / 3.44447	87.7395 / 3.45431	87.9895 / 3.46415

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

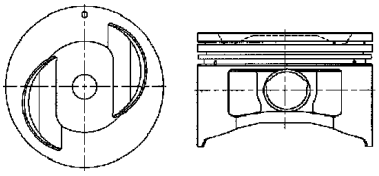
11-728

PAGE # 173 231

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
6	91.500 / 3.602	63.00 / 2.480	32.00 / 1.260	-	1.50 / 0.059	1.50 / 0.059	60.00 / 2.362
						1.50 / 0.059	
						2.80 / 0.110	20.98 / 0.826

PISTON RING #: SWN30120

Total Clearance: -0.03 mm / -0.00118 inch



Cir Clip:

SURFACE TREATMENT: Anodized Head

T01: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
91.470	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	91.4630 / 3.60091	91.7130 / 3.61075	91.9630 / 3.62059	92.2130 / 3.63043	92.4630 / 3.64028
RED:	91.4765 / 3.60144	91.7265 / 3.61128	91.9765 / 3.62112	92.2265 / 3.63096	92.4765 / 3.64081
BLUE:	91.4695 / 3.60116	91.7195 / 3.61100	91.9695 / 3.62085	92.2195 / 3.63069	92.4695 / 3.64053

REMARKS:
Measure for CYL Clearance: 11.00 mm / 0.433 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

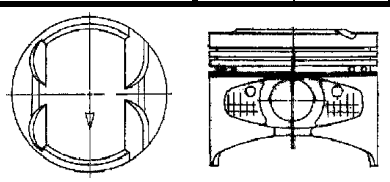
11-729

PAGE # 167

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
4	82.300 / 3.240	66.00 / 2.598	32.50 / 1.280	+	1.50 / 0.059	1.20 / 0.047	66.00 / 2.598
						1.50 / 0.059	
						3.00 / 0.118	21.00 / 0.827

PISTON RING #: SWM31049

Total Clearance: -0.04 mm / -0.00157 inch



Cir Clip: NONE

SURFACE TREATMENT: NONE

J05: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
82.240	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	82.2505 / 3.23821	82.5005 / 3.24805	82.7505 / 3.25789	83.0005 / 3.26774	83.2505 / 3.27758
WHITE:	82.2425 / 3.23789	82.4925 / 3.24774	82.7425 / 3.25758	82.9925 / 3.26742	83.2425 / 3.27726
BLUE:	82.2295 / 3.23738	82.4795 / 3.24722	82.7295 / 3.25707	82.9795 / 3.26691	83.2295 / 3.27675
GREEN:	82.2375 / 3.23770	82.4875 / 3.24754	82.7375 / 3.25738	82.9875 / 3.26722	83.2375 / 3.27707

REMARKS:
Measure for CYL Clearance: 28.00 mm / 1.102 inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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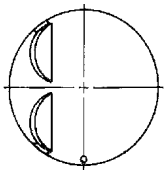
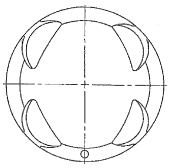
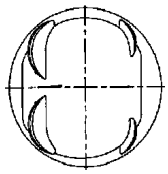
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

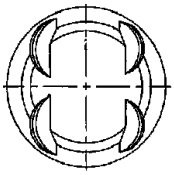
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-730	4	75.500 2.972	53.50 2.106	30.50 1.201	-	4.10 0.161	1.20 0.047 1.50 0.059 3.00 0.118	47.50 1.870 18.00 0.709
11-731	4	75.300 2.965	51.80 2.039	28.00 1.102	-	6.30 0.248	1.00 0.039 1.20 0.047 2.50 0.098	61.00 2.402 20.00 0.787
11-732	4	75.000 2.953	49.90 1.965	29.90 1.177	-	2.80 0.110	1.00 0.039 1.20 0.047 2.80 0.110	56.00 2.205 19.00 0.748
11-733	4	81.000 3.189	60.00 2.362	30.00 1.181	-	1.30 0.051	1.00 0.039 1.20 0.047 2.80 0.110	56.00 2.205 21.00 0.827

PISTON RING #	Total Clearance mm	Total Clearance inch
SWG30019	-0.04	-0.00157
SWT20074	-0.04	-0.00157
SWH30423	-0.04	-0.00157
SWH30373	-0.04	-0.00157









	Cir Clip	SURFACE TREATMENT
PAGE # 167	NONE	NONE
PAGE # 199	NONE	NONE
PAGE # 159	NONE	NONE
PAGE # 3	NONE	NONE
	C17	NONE

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093
RED:	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053
BLUE:	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033
GREEN:	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.300	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.2775 2.96368	75.5275 2.97352	75.7775 2.98337	76.0275 2.99321	76.2775 3.00305
RED:	75.2675 2.96329	75.5175 2.97313	75.7675 2.98297	76.0175 2.99281	76.2675 3.00266
BLUE:	75.2625 2.96309	75.5125 2.97293	75.7625 2.98278	76.0125 2.99262	76.2625 3.00246
GREEN:	75.2725 2.96348	75.5225 2.97333	75.7725 2.98317	76.0225 2.99301	76.2725 3.00285

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

REMARKS:
Measure for CYL Clearance: **14.00** mm / **0.551** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT										PISTON DIAMETER MEASURING POINT EXPLANATION					
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm		COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 173									93.000	Tolorance is + / - (mm | inch) :		0.0025	0.00010
11-734	6	93.000 / 3.661	58.30 / 2.295	30.30 / 1.193	-	0.40 / 0.016	1.20 / 0.047	58.00 / 2.283		YELLOW:	92.9775 / 3.66053	93.2275 / 3.67037	93.4775 / 3.68022	93.7275 / 3.69006	93.9775 / 3.69990
PISTON RING #		Total Clearance mm / inch													
SWN30115		-0.03	-0.00118												
		PAGE # 15 213									87.470	Tolorance is + / - (mm | inch) :		0.0045	0.00018
11-735	4	87.500 / 3.445	64.80 / 2.551	31.40 / 1.236	+	0.90 / 0.035	1.20 / 0.047	75.00 / 2.953		YELLOW:	87.4805 / 3.44411	87.7305 / 3.45396	87.9805 / 3.46380	88.2305 / 3.47364	88.4805 / 3.48348
PISTON RING #		Total Clearance mm / inch								WHITE:	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348	88.2225 / 3.47333	88.4725 / 3.48317
SWM31120		-0.04	-0.00157				3.00 / 0.118	21.00 / 0.827		BLUE:	87.4595 / 3.44329	87.7095 / 3.45313	87.9595 / 3.46297	88.2095 / 3.47281	88.4595 / 3.48266
						Cir Clip				GREEN:	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329	88.2175 / 3.47313	88.4675 / 3.48297
						NONE	SURFACE TREATMENT			REMARKS: Measure for CYL Clearance: 13.00 mm / 0.512 inch from Bottom of Skirt.					
							NONE								
						J05	NONE								
		PAGE # 159									74.970	Tolorance is + / - (mm | inch) :		0.01	0.00039
11-736	4	75.000 / 2.953	57.80 / 2.276	27.80 / 1.094	-	7.20 / 0.283	1.00 / 0.039	56.00 / 2.205							
PISTON RING #		Total Clearance mm / inch					1.20 / 0.047			RED:	74.9600 / 2.95118	75.2100 / 2.96102	75.4600 / 2.97087	75.7100 / 2.98071	75.9600 / 2.99055
SWH30423		-0.03	-0.00118				2.80 / 0.110	19.00 / 0.748							
						Cir Clip				GREEN:	74.9800 / 2.95197	75.2300 / 2.96181	75.4800 / 2.97165	75.7300 / 2.98150	75.9800 / 2.99134
						NONE	SURFACE TREATMENT			REMARKS: Measure for CYL Clearance: 15.50 mm / 0.610 inch from Bottom of Skirt.					
							NONE								
						T03	NONE								
		PAGE # 161									80.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
11-737	4	81.000 / 3.189	62.60 / 2.465	30.00 / 1.181	+	2.60 / 0.102	1.00 / 0.039	56.00 / 2.205		YELLOW:	80.9905 / 3.18860	81.2405 / 3.19844	81.4905 / 3.20829	81.7405 / 3.21813	81.9905 / 3.22797
PISTON RING #		Total Clearance mm / inch					1.20 / 0.047			WHITE:	80.9825 / 3.18829	81.2325 / 3.19813	81.4825 / 3.20797	81.7325 / 3.21781	81.9825 / 3.22766
SWH30373		-0.03	-0.00118				2.80 / 0.110	21.00 / 0.827		BLUE:	80.9695 / 3.18778	81.2195 / 3.19762	81.4695 / 3.20746	81.7195 / 3.21730	81.9695 / 3.22715
						Cir Clip				GREEN:	80.9775 / 3.18809	81.2275 / 3.19793	81.4775 / 3.20778	81.7275 / 3.21762	81.9775 / 3.22746
						NONE	SURFACE TREATMENT			REMARKS: Measure for CYL Clearance: 16.00 mm / 0.630 inch from Bottom of Skirt.					
							NONE								
						J05	NONE								

11-734 Piston is **11-711** now.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 161						
11-738	4	84.000 / 3.307	59.60 / 2.346	29.60 / 1.165	-	4.10 / 0.161	1.20 / 0.047	56.50 / 2.224
PISTON RING # SWH30437		Total Clearance mm: -0.04	inch: -0.00157				1.20 / 0.047	
							2.80 / 0.110	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 163						
11-739	4	87.000 / 3.425	61.00 / 2.402	31.00 / 1.220	+	0.90 / 0.035	1.20 / 0.047	57.00 / 2.244
PISTON RING # SWH30433		Total Clearance mm: -0.04	inch: -0.00157		-	5.50 / 0.217	1.20 / 0.047	
					-	3.00 / 0.118	2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	NONE	
		PAGE # 163						
11-740	4	87.000 / 3.425	60.50 / 2.382	30.60 / 1.205	-	2.30 / 0.091	1.20 / 0.047	60.00 / 2.362
PISTON RING # SWH30433		Total Clearance mm: -0.04	inch: -0.00157		-	3.20 / 0.126	1.20 / 0.047	
					-	3.00 / 0.118	2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	NONE	
		PAGE # 163						
11-741	4	87.000 / 3.425	61.80 / 2.433	31.00 / 1.220	+	0.80 / 0.031	1.20 / 0.047	57.00 / 2.244
PISTON RING # SWH30433		Total Clearance mm: -0.04	inch: -0.00157				1.20 / 0.047	
							2.80 / 0.110	21.97 / 0.865
						Cir Clip		
							SURFACE TREATMENT: NONE	
						T01	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-738 PAGE # 161	83.980	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	83.9905 / 3.30671	84.2405 / 3.31656	84.4905 / 3.32640	84.7405 / 3.33624	84.9905 / 3.34608
WHITE:	83.9825 / 3.30640	84.2325 / 3.31624	84.4825 / 3.32608	84.7325 / 3.33593	84.9825 / 3.34577
BLUE:	83.9695 / 3.30589	84.2195 / 3.31573	84.4695 / 3.32557	84.7195 / 3.33541	84.9695 / 3.34526
GREEN:	83.9775 / 3.30620	84.2275 / 3.31604	84.4775 / 3.32589	84.7275 / 3.33573	84.9775 / 3.34557
REMARKS: Measure for CYL Clearance:		mm / inch		from Bottom of Skirt.	
11-739 PAGE # 163	87.000	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	86.9930 / 3.42492	87.2430 / 3.43476	87.4930 / 3.44461	87.7430 / 3.45445	87.9930 / 3.46429
RED:	87.0065 / 3.42545	87.2565 / 3.43530	87.5065 / 3.44514	87.7565 / 3.45498	88.0065 / 3.46482
BLUE:	86.9995 / 3.42518	87.2495 / 3.43502	87.4995 / 3.44486	87.7495 / 3.45470	87.9995 / 3.46455
REMARKS: Measure for CYL Clearance:		7.00 mm / 0.276 inch		from Bottom of Skirt.	
11-740 PAGE # 163	86.980	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	86.9730 / 3.42413	87.2230 / 3.43398	87.4730 / 3.44382	87.7230 / 3.45366	87.9730 / 3.46350
RED:	86.9865 / 3.42467	87.2365 / 3.43451	87.4865 / 3.44435	87.7365 / 3.45419	87.9865 / 3.46404
BLUE:	86.9795 / 3.42439	87.2295 / 3.43423	87.4795 / 3.44407	87.7295 / 3.45392	87.9795 / 3.46376
REMARKS: Measure for CYL Clearance:		11.00 mm / 0.433 inch		from Bottom of Skirt.	
11-741 PAGE # 163	86.970	Tolorance is + / - (mm | inch) :		0.003	0.00012
YELLOW:	86.9630 / 3.42374	87.2130 / 3.43358	87.4630 / 3.44343	87.7130 / 3.45327	87.9630 / 3.46311
RED:	86.9765 / 3.42427	87.2265 / 3.43411	87.4765 / 3.44396	87.7265 / 3.45380	87.9765 / 3.46364
BLUE:	86.9695 / 3.42400	87.2195 / 3.43384	87.4695 / 3.44368	87.7195 / 3.45352	87.9695 / 3.46337
REMARKS: Measure for CYL Clearance:		7.00 mm / 0.276 inch		from Bottom of Skirt.	

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 167						
11-742	4	75.500 2.972	54.40 2.142	31.40 1.236	-	2.30 0.091	1.50 0.059	47.30 1.862
PISTON RING # SWG30017		Total Clearance mm: -0.04	inch: -0.00157		-	6.70 0.264	1.50 0.059	
							3.00 0.118	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 3						
11-743	4	81.000 3.189	62.20 2.449	30.40 1.197	+	1.80 0.071	1.00 0.039	56.00 2.205
PISTON RING # SWH30373		Total Clearance mm: -0.04	inch: -0.00157				1.20 0.047	
							2.80 0.110	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	Moly Skirt	
		PAGE # 259						
11-745	4	95.000 3.740	59.00 2.323	35.60 1.402	-	0.90 0.035	1.50 0.059	70.00 2.756
PISTON RING # SWT10139		Total Clearance mm: -0.04	inch: -0.00157				1.50 0.059	
							4.00 0.157	24.00 0.945
						Cir Clip		
							SURFACE TREATMENT: Anodized Head	
						J05	Moly Skirt	
		PAGE # 177						
11-747	4	86.000 3.386	55.50 2.185	30.40 1.197	-	7.50 0.295	1.50 0.059	61.50 2.421
PISTON RING # SWI10205		Total Clearance mm: -0.03	inch: -0.00118				1.50 0.059	
							3.00 0.118	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	75.4905 2.97207	75.7405 2.98191	75.9905 2.99175	76.2405 3.00159	76.4905 3.01144
WHITE:	75.4825 2.97175	75.7325 2.98159	75.9825 2.99144	76.2325 3.00128	76.4825 3.01112
BLUE:	75.4695 2.97124	75.7195 2.98108	75.9695 2.99093	76.2195 3.00077	76.4695 3.01061
GREEN:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
94.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	94.9905 3.73978	95.2405 3.74963	95.4905 3.75947	95.7405 3.76931	95.9905 3.77915
WHITE:	94.9825 3.73947	95.2325 3.74931	95.4825 3.75915	95.7325 3.76900	95.9825 3.77884
BLUE:	94.9695 3.73896	95.2195 3.74880	95.4695 3.75864	95.7195 3.76848	95.9695 3.77833
GREEN:	94.9775 3.73927	95.2275 3.74911	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864

REMARKS:
Measure for CYL Clearance: **7.00** mm / **0.276** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-749	6	93.000 / 3.661	86.00 / 3.386	32.00 / 1.260	-	2.70 / 0.106	1.50 / 0.059	64.00 / 2.520
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWM31121		-0.04	-0.00157				3.00 / 0.118	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PAGE # 217

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	92.9775 / 3.66053	93.2275 / 3.67037	93.4775 / 3.68022	93.7275 / 3.69006	93.9775 / 3.69990
RED:	92.9675 / 3.66014	93.2175 / 3.66998	93.4675 / 3.67982	93.7175 / 3.68967	93.9675 / 3.69951
BLUE:	92.9625 / 3.65994	93.2125 / 3.66978	93.4625 / 3.67963	93.7125 / 3.68947	93.9625 / 3.69931
GREEN:	92.9725 / 3.66033	93.2225 / 3.67018	93.4725 / 3.68002	93.7225 / 3.68986	93.9725 / 3.69970

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-750	4	87.000 / 3.425	56.50 / 2.224	32.50 / 1.280	-	4.50 / 0.177	1.20 / 0.047	66.00 / 2.598
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWT10166		-0.04	-0.00157				3.00 / 0.118	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PAGE # 257

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400	87.7275 / 3.45384	87.9775 / 3.46368
RED:	86.9675 / 3.42392	87.2175 / 3.43376	87.4675 / 3.44360	87.7175 / 3.45344	87.9675 / 3.46329
BLUE:	86.9625 / 3.42372	87.2125 / 3.43356	87.4625 / 3.44341	87.7125 / 3.45325	87.9625 / 3.46309
GREEN:	86.9725 / 3.42411	87.2225 / 3.43396	87.4725 / 3.44380	87.7225 / 3.45364	87.9725 / 3.46348

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-751	4	85.000 / 3.346	65.00 / 2.559	30.50 / 1.201	-	3.80 / 0.150	1.20 / 0.047	57.00 / 2.244
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30383		-0.04	-0.00157				2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	

PAGE # 163 177

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	84.9905 / 3.34608	85.2405 / 3.35593	85.4905 / 3.36577	85.7405 / 3.37561	85.9905 / 3.38545
WHITE:	84.9825 / 3.34577	85.2325 / 3.35561	85.4825 / 3.36545	85.7325 / 3.37530	85.9825 / 3.38514
BLUE:	84.9695 / 3.34526	85.2195 / 3.35510	85.4695 / 3.36494	85.7195 / 3.37478	85.9695 / 3.38463
GREEN:	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526	85.7275 / 3.37510	85.9775 / 3.38494

REMARKS:
Measure for CYL Clearance: **14.00** mm / **0.551** inch from Bottom of Skirt.

11-752	4	75.000 / 2.953	50.00 / 1.969	30.00 / 1.181	-	3.40 / 0.134	1.00 / 0.039	56.00 / 2.205
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30423		-0.04	-0.00157				2.80 / 0.110	19.00 / 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	

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COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
74.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	74.9705 / 2.95159	75.2205 / 2.96144	75.4705 / 2.97128	75.7205 / 2.98112	75.9705 / 2.99096
WHITE:	74.9625 / 2.95128	75.2125 / 2.96112	75.4625 / 2.97096	75.7125 / 2.98081	75.9625 / 2.99065
BLUE:	74.9495 / 2.95077	75.1995 / 2.96061	75.4495 / 2.97045	75.6995 / 2.98030	75.9495 / 2.99014
GREEN:	74.9575 / 2.95108	75.2075 / 2.96093	75.4575 / 2.97077	75.7075 / 2.98061	75.9575 / 2.99045

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-753	4	81.000 / 3.189	60.00 / 2.362	30.00 / 1.181	-	1.60 / 0.063	1.00 / 0.039	56.00 / 2.205
PISTON RING #		Total Clearance mm	inch		-	4.60 / 0.18	1.20 / 0.047	
SWH30373		-0.04	-0.00157				2.80 / 0.110	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	NONE	

PAGE # 3

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	80.9930 / 3.18870	81.2430 / 3.19854	81.4930 / 3.20839	81.7430 / 3.21823	81.9930 / 3.22807
RED:	81.0065 / 3.18923	81.2565 / 3.19907	81.5065 / 3.20892	81.7565 / 3.21876	82.0065 / 3.22860
BLUE:	80.9995 / 3.18896	81.2495 / 3.19880	81.4995 / 3.20864	81.7495 / 3.21848	81.9995 / 3.22833

REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-754	4	81.000 / 3.189	60.00 / 2.362	30.20 / 1.189	-	2.40 / 0.094	1.00 / 0.039	56.50 / 2.224
PISTON RING #		Total Clearance mm	inch		-	4.80 / 0.19	1.20 / 0.047	
SWH30373		-0.04	-0.00157				2.80 / 0.110	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	NONE	

PAGE # 3

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
80.990	Tolorance is + / - (mm | inch) :			0.0035	0.00014
YELLOW:	80.9830 / 3.18831	81.2330 / 3.19815	81.4830 / 3.20799	81.7330 / 3.21783	81.9830 / 3.22768
RED:	80.9965 / 3.18884	81.2465 / 3.19868	81.4965 / 3.20852	81.7465 / 3.21837	81.9965 / 3.22821
BLUE:	80.9895 / 3.18856	81.2395 / 3.19841	81.4895 / 3.20825	81.7395 / 3.21809	81.9895 / 3.22793

REMARKS: Measure for CYL Clearance: 12.00 mm / 0.472 inch from Bottom of Skirt.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-755	4	89.000 / 3.504	60.90 / 2.398	34.00 / 1.339	-	6.40 / 0.252	1.20 / 0.047	57.00 / 2.244
PISTON RING #		Total Clearance mm	inch		-	6.50 / 0.26	1.20 / 0.047	
SWN30143		-0.04	-0.00157				2.50 / 0.098	20.99 / 0.826
						Cir Clip		
						C	SURFACE TREATMENT: Anodized Head	
						C17	NONE	

PAGE # 227

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
89.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	88.9775 / 3.50305	89.2275 / 3.51289	89.4775 / 3.52274	89.7275 / 3.53258	89.9775 / 3.54242
RED:	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234	89.7175 / 3.53219	89.9675 / 3.54203
BLUE:	88.9625 / 3.50246	89.2125 / 3.51230	89.4625 / 3.52215	89.7125 / 3.53199	89.9625 / 3.54183
GREEN:	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254	89.7225 / 3.53238	89.9725 / 3.54222

REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-756	4	79.000 / 3.110	51.60 / 2.031	29.90 / 1.177	-	4.20 / 0.165	1.20 / 0.047	50.00 / 1.969
PISTON RING #		Total Clearance mm	inch		+	2.30 / 0.09	1.20 / 0.047	
SWT10183		-0.04	-0.00157				3.00 / 0.118	20.00 / 0.787
						Cir Clip		
						C	SURFACE TREATMENT: NONE	
						C17	NONE	

PAGE # 93 255

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
79.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	78.9775 / 3.10935	79.2275 / 3.11919	79.4775 / 3.12904	79.7275 / 3.13888	79.9775 / 3.14872
RED:	78.9675 / 3.10896	79.2175 / 3.11880	79.4675 / 3.12864	79.7175 / 3.13848	79.9675 / 3.14833
BLUE:	78.9625 / 3.10876	79.2125 / 3.11860	79.4625 / 3.12844	79.7125 / 3.13829	79.9625 / 3.14813
GREEN:	78.9725 / 3.10915	79.2225 / 3.11900	79.4725 / 3.12884	79.7225 / 3.13868	79.9725 / 3.14852

REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
PAGE # 3								
11-757	4	85.000 / 3.346	65.00 / 2.559	30.50 / 1.201	-	2.20 / 0.087	1.20 / 0.047	57.00 / 2.244
PISTON RING # SWH30383		Total Clearance mm: -0.04	inch: -0.00157		-	4.65 / 0.18	1.20 / 0.047	
					-	3.40 / **0.13**	2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	NONE	
PAGE # 17 213								
11-758	4	85.000 / 3.346	67.00 / 2.638	35.00 / 1.378	-	3.30 / 0.130	1.20 / 0.047	62.00 / 2.441
PISTON RING # SWM31103		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							2.80 / 0.110	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: Anodized Head	
						C17	NONE	
PAGE # 205								
11-759	6	90.000 / 3.543	70.70 / 2.783	35.20 / 1.386	+	1.45 / 0.057	1.50 / 0.059	63.00 / 2.480
PISTON RING # SWT20062		Total Clearance mm: -0.04	inch: -0.00157		-	5.60 / 0.22	1.50 / 0.059	
							4.00 / 0.157	23.00 / 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	Moly Skirt	
PAGE # 217								
11-762	6	91.100 / 3.587	65.80 / 2.591	31.80 / 1.252	-	3.20 / 0.126	1.20 / 0.047	64.00 / 2.520
PISTON RING # SWM31078		Total Clearance mm: -0.04	inch: -0.00157				1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-757 — 84.995 — Tolorance is + / - (mm | inch): 0.003 / 0.00012					
YELLOW:	84.9880 / 3.34598	85.2380 / 3.35583	85.4880 / 3.36567	85.7380 / 3.37551	85.9880 / 3.38535
RED:	85.0015 / 3.34652	85.2515 / 3.35636	85.5015 / 3.36620	85.7515 / 3.37604	86.0015 / 3.38589
BLUE:	84.9945 / 3.34624	85.2445 / 3.35608	85.4945 / 3.36593	85.7445 / 3.37577	85.9945 / 3.38561

REMARKS: Measure for CYL Clearance: **14.00** mm / **0.551** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-758 — 85.000 — Tolorance is + / - (mm | inch): 0.0025 / 0.00010					
YELLOW:	84.9775 / 3.34557	85.2275 / 3.35541	85.4775 / 3.36526	85.7275 / 3.37510	85.9775 / 3.38494
RED:	84.9675 / 3.34518	85.2175 / 3.35502	85.4675 / 3.36486	85.7175 / 3.37470	85.9675 / 3.38455
BLUE:	84.9625 / 3.34498	85.2125 / 3.35482	85.4625 / 3.36467	85.7125 / 3.37451	85.9625 / 3.38435
GREEN:	84.9725 / 3.34537	85.2225 / 3.35522	85.4725 / 3.36506	85.7225 / 3.37490	85.9725 / 3.38474

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-759 — 89.995 — Tolorance is + / - (mm | inch): 0.003 / 0.00012					
YELLOW:	89.9880 / 3.54283	90.2380 / 3.55268	90.4880 / 3.56252	90.7380 / 3.57236	90.9880 / 3.58220
RED:	90.0015 / 3.54337	90.2515 / 3.55321	90.5015 / 3.56305	90.7515 / 3.57289	91.0015 / 3.58274
BLUE:	89.9945 / 3.54309	90.2445 / 3.55293	90.4945 / 3.56278	90.7445 / 3.57262	90.9945 / 3.58246

REMARKS: Measure for CYL Clearance: **16.00** mm / **0.630** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-762 — 91.100 — Tolorance is + / - (mm | inch): 0.0025 / 0.00010					
YELLOW:	91.0775 / 3.58573	91.3275 / 3.59557	91.5775 / 3.60541	91.8275 / 3.61526	92.0775 / 3.62510
RED:	91.0675 / 3.58533	91.3175 / 3.59518	91.5675 / 3.60502	91.8175 / 3.61486	92.0675 / 3.62470
BLUE:	91.0625 / 3.58514	91.3125 / 3.59498	91.5625 / 3.60482	91.8125 / 3.61467	92.0625 / 3.62451
GREEN:	91.0725 / 3.58553	91.3225 / 3.59537	91.5725 / 3.60522	91.8225 / 3.61506	92.0725 / 3.62490

REMARKS: Measure for CYL Clearance: **20.00** mm / **0.787** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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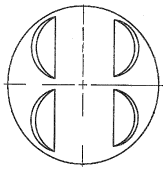
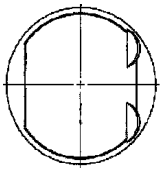
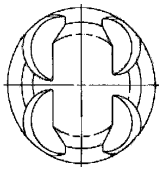
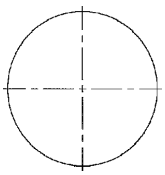
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 179							93.400	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-764	6	93.400 3.677	57.00 2.244	33.70 1.327	-	1.90 0.075	1.50 0.059	66.00 2.598	YELLOW:	93.3775 3.67628	93.6275 3.68612	93.8775 3.69596	94.1275 3.70581	94.3775 3.71565
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	93.3675 3.67589	93.6175 3.68573	93.8675 3.69557	94.1175 3.70541	94.3675 3.71526
SWI10191		-0.04	-0.00157				3.00 0.118	22.00 0.866	BLUE:	93.3625 3.67569	93.6125 3.68553	93.8625 3.69537	94.1125 3.70522	94.3625 3.71506
						Cir Clip			GREEN:	93.3725 3.67608	93.6225 3.68593	93.8725 3.69577	94.1225 3.70561	94.3725 3.71545
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							
		PAGE # 15 211							81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-767	4	81.000 3.189	60.00 2.362	30.80 1.213	+	0.20 0.008	1.20 0.047	58.00 2.283	YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
PISTON RING #		Total Clearance mm	inch				1.20 0.047		RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
SWM31079		-0.04	-0.00157				2.80 0.110	19.00 0.748	BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
						Cir Clip			GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							
		PAGE # 249							74.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-769	4	74.000 2.913	56.00 2.205	29.00 1.142	-	1.80 0.071	1.20 0.047	61.50 2.421	YELLOW:	73.9775 2.91250	74.2275 2.92234	74.4775 2.93219	74.7275 2.94203	74.9775 2.95187
PISTON RING #		Total Clearance mm	inch				1.20 0.047		RED:	73.9675 2.91211	74.2175 2.92195	74.4675 2.93179	74.7175 2.94163	74.9675 2.95148
SWS20186		-0.04	-0.00157				2.50 0.098	19.00 0.748	BLUE:	73.9625 2.91191	74.2125 2.92175	74.4625 2.93159	74.7125 2.94144	74.9625 2.95128
						Cir Clip			GREEN:	73.9725 2.91230	74.2225 2.92215	74.4725 2.93199	74.7225 2.94183	74.9725 2.95167
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
							NONE							
						C17	NONE							
		PAGE # 169 187							83.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-771	6	84.000 3.307	52.50 2.067	30.60 1.205			1.20 0.047	59.00 2.323	YELLOW:	83.9730 3.30602	84.2230 3.31587	84.4730 3.32571	84.7230 3.33555	84.9730 3.34539
PISTON RING #		Total Clearance mm	inch				1.20 0.047		RED:	83.9865 3.30656	84.2365 3.31640	84.4865 3.32624	84.7365 3.33608	84.9865 3.34593
NA		-0.03	-0.00118				2.50 0.098	21.00 0.827	BLUE:	83.9795 3.30628	84.2295 3.31612	84.4795 3.32596	84.7295 3.33581	84.9795 3.34565
						Cir Clip			GREEN:					
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.					
							NONE							
						T01	NONE							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE #	169	187				
11-772	4	86.500 3.406	66.70 2.626	34.60 1.362	-	3.50 0.138	1.20 0.047	62.00 2.441
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWG30047		-0.03	-0.00118				2.80 0.110	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	NONE	
		PAGE #	185					
11-773	4	75.500 2.972	51.30 2.020	28.30 1.114	-	2.30 0.091	1.20 0.047	52.00 2.047
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWK30019		-0.03	-0.00118				2.50 0.098	19.98 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	
		PAGE #	217					
11-774	6	93.000 3.661	65.20 2.567	31.20 1.228	-	6.00 0.236	1.50 0.059	64.00 2.520
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWM31121		-0.03	-0.00118				3.00 0.118	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	249					
11-775	4	84.000 3.307	58.90 2.319	29.40 1.157	-	4.90 0.193	1.20 0.047	58.00 2.283
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWS20178		-0.04	-0.00157				2.50 0.098	21.00 0.827
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.490	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	86.4830 3.40484	86.7330 3.41469	86.9830 3.42453	87.2330 3.43437	87.4830 3.44421
RED:	86.4965 3.40537	86.7465 3.41522	86.9965 3.42506	87.2465 3.43490	87.4965 3.44474
BLUE:	86.4895 3.40510	86.7395 3.41494	86.9895 3.42478	87.2395 3.43463	87.4895 3.44447

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	75.4850 2.97185	75.7350 2.98169	75.9850 2.99154	76.2350 3.00138	76.4850 3.01122
WHITE:	75.4825 2.97175	75.7325 2.98159	75.9825 2.99144	76.2325 3.00128	76.4825 3.01112
BLUE:	75.4750 2.97146	75.7250 2.98130	75.9750 2.99114	76.2250 3.00098	76.4750 3.01083
GREEN:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093

REMARKS:
Measure for CYL Clearance: **18.00** mm / **0.709** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	92.9775 3.66053	93.2275 3.67037	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990
RED:	92.9675 3.66014	93.2175 3.66998	93.4675 3.67982	93.7175 3.68967	93.9675 3.69951
BLUE:	92.9625 3.65994	93.2125 3.66978	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931
GREEN:	92.9725 3.66033	93.2225 3.67018	93.4725 3.68002	93.7225 3.68986	93.9725 3.69970

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	83.9775 3.30620	84.2275 3.31604	84.4775 3.32589	84.7275 3.33573	84.9775 3.34557
RED:	83.9675 3.30581	84.2175 3.31565	84.4675 3.32549	84.7175 3.33533	84.9675 3.34518
BLUE:	83.9625 3.30561	84.2125 3.31545	84.4625 3.32530	84.7125 3.33514	84.9625 3.34498
GREEN:	83.9725 3.30600	84.2225 3.31585	84.4725 3.32569	84.7225 3.33553	84.9725 3.34537

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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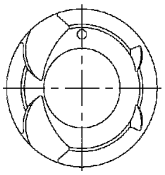
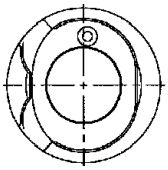
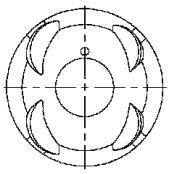
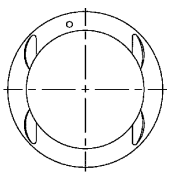
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE #	237	253				
11-776	4	75.000 2.953	49.00 1.929	30.10 1.185	-	6.20 0.244	1.20 0.047	53.00 2.087
PISTON RING #		Total Clearance mm	inch		-	2.20 0.087	1.20 0.047	
SWT10192		-0.03	-0.00118				2.00 0.079	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
		PAGE #	93	255				
11-777	4	79.000 3.110	51.70 2.035	29.80 1.173	+	2.40 0.094	1.20 0.047	50.00 1.969
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWT10183		-0.03	-0.00118				3.00 0.118	20.010 0.788
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Head	
						J05	Moly Skirt	
		PAGE #	261					
11-778	6	86.000 3.386	65.00 2.559	34.00 1.339	-	3.80 0.150	1.50 0.059	66.00 2.598
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWT10134		-0.03	-0.00118				4.00 0.157	22.000 0.866
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Head	
						T03	Moly Skirt	
		PAGE #	53					
11-779	4	79.000 3.110	51.30 2.020	28.30 1.114	-	2.90 0.114	1.20 0.047	54.70 2.154
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWD20004		-0.03	-0.00118				3.00 0.118	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
78.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	78.9650 3.10886	79.2150 3.11870	79.4650 3.12854	79.7150 3.13839	79.9650 3.14823
WHITE:	78.9625 3.10876	79.2125 3.11860	79.4625 3.12844	79.7125 3.13829	79.9625 3.14813
BLUE:	78.9550 3.10846	79.2050 3.11831	79.4550 3.12815	79.7050 3.13799	79.9550 3.14783
GREEN:	78.9575 3.10856	79.2075 3.11841	79.4575 3.12825	79.7075 3.13809	79.9575 3.14793

REMARKS:
Measure for CYL Clearance: **19.50** mm / **0.768** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
85.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	85.9600 3.38425	86.2100 3.39409	86.4600 3.40394	86.7100 3.41378	86.9600 3.42362
GREEN:	85.9800 3.38504	86.2300 3.39488	86.4800 3.40472	86.7300 3.41457	86.9800 3.42441

REMARKS:
Measure for CYL Clearance: **12.30** mm / **0.484** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
78.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	78.9650 3.10886	79.2150 3.11870	79.4650 3.12854	79.7150 3.13839	79.9650 3.14823
WHITE:	78.9625 3.10876	79.2125 3.11860	79.4625 3.12844	79.7125 3.13829	79.9625 3.14813
BLUE:	78.9550 3.10846	79.2050 3.11831	79.4550 3.12815	79.7050 3.13799	79.9550 3.14783
GREEN:	78.9575 3.10856	79.2075 3.11841	79.4575 3.12825	79.7075 3.13809	79.9575 3.14793

REMARKS:
Measure for CYL Clearance: **8.00** mm / **0.315** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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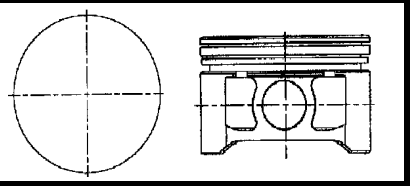
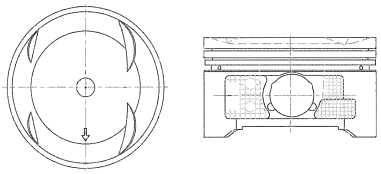
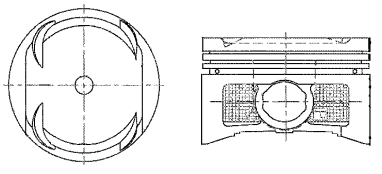
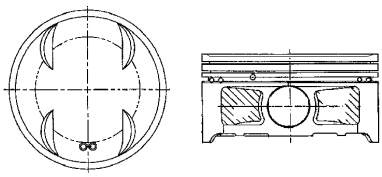
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 31							85.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-780	6	86.000 / 3.386	53.20 / 2.094	31.20 / 1.228			1.50 / 0.059	60.00 / 2.362	YELLOW:	85.9705 / 3.38467	86.2205 / 3.39451	86.4705 / 3.40435	86.7205 / 3.41419	86.9705 / 3.42404
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059		WHITE:	85.9625 / 3.38435	86.2125 / 3.39419	86.4625 / 3.40404	86.7125 / 3.41388	86.9625 / 3.42372
SWC10001		-0.04 / -0.00157					3.00 / 0.118	22.000 / 0.866	BLUE:	85.9495 / 3.38384	86.1995 / 3.39368	86.4495 / 3.40352	86.6995 / 3.41337	86.9495 / 3.42321
									GREEN:	85.9575 / 3.38415	86.2075 / 3.39400	86.4575 / 3.40384	86.7075 / 3.41368	86.9575 / 3.42352
		Cir Clip							REMARKS: Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.					
		SURFACE TREATMENT												
		J05	Moly Skirt						CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 3 163							85.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-781	4	86.000 / 3.386	51.50 / 2.028	30.02 / 1.182	-	2.40 / 0.094	1.20 / 0.047	54.00 / 2.126	YELLOW:	85.9730 / 3.38476	86.2230 / 3.39461	86.4730 / 3.40445	86.7230 / 3.41429	86.9730 / 3.42413
PISTON RING #		Total Clearance mm / inch			-	4.80 / 0.19	1.20 / 0.047		RED:	85.9865 / 3.38530	86.2365 / 3.39514	86.4865 / 3.40498	86.7365 / 3.41482	86.9865 / 3.42467
SWH30443		-0.04 / -0.00157			-	3.20 / **0.13**	2.80 / 0.110	21.97 / 0.865	BLUE:	85.9795 / 3.38502	86.2295 / 3.39486	86.4795 / 3.40470	86.7295 / 3.41455	86.9795 / 3.42439
		Cir Clip							REMARKS: Measure for CYL Clearance: 16.00 mm / 0.630 inch from Bottom of Skirt.					
		SURFACE TREATMENT												
		T01	NONE											
		PAGE # 161							74.990	Tolorance is + / - (mm | inch) :			0.003	0.00012
11-785	4	75.000 / 2.953	49.10 / 1.933	29.10 / 1.146	-	2.40 / 0.094	1.00 / 0.039	56.00 / 2.205	YELLOW:	74.9830 / 2.95209	75.2330 / 2.96193	75.4830 / 2.97177	75.7330 / 2.98161	75.9830 / 2.99146
PISTON RING #		Total Clearance mm / inch			-	4.40 / 0.17	1.20 / 0.047		RED:	74.9965 / 2.95262	75.2465 / 2.96246	75.4965 / 2.97230	75.7465 / 2.98215	75.9965 / 2.99199
SWH30423		-0.03 / -0.00118			-	2.60 / **0.10**	2.80 / 0.110	19.00 / 0.748	BLUE:	74.9895 / 2.95234	75.2395 / 2.96219	75.4895 / 2.97203	75.7395 / 2.98187	75.9895 / 2.99171
		Cir Clip							REMARKS: Measure for CYL Clearance: 3.00 mm / 0.118 inch from Bottom of Skirt.					
		NONE	SURFACE TREATMENT											
		T01	NONE											
		PAGE # 235 245							99.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-788	4	99.500 / 3.917	50.00 / 1.969	29.50 / 1.161	-	1.70 / 0.067	1.20 / 0.047	64.00 / 2.520	YELLOW:	99.4775 / 3.91644	99.7275 / 3.92628	99.9775 / 3.93612	100.2275 / 3.94596	100.4775 / 3.95581
PISTON RING #		Total Clearance mm / inch					1.20 / 0.047		RED:	99.4675 / 3.91604	99.7175 / 3.92589	99.9675 / 3.93573	100.2175 / 3.94557	100.4675 / 3.95541
SWF20066		-0.04 / -0.00157					2.50 / 0.098	23.00 / 0.906	BLUE:	99.4625 / 3.91585	99.7125 / 3.92569	99.9625 / 3.93553	100.2125 / 3.94537	100.4625 / 3.95522
									GREEN:	99.4725 / 3.91624	99.7225 / 3.92608	99.9725 / 3.93593	100.2225 / 3.94577	100.4725 / 3.95561
		Cir Clip							REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
		SURFACE TREATMENT												
		C17	Moly Skirt						CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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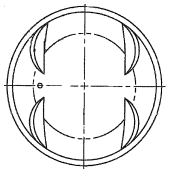
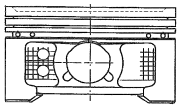
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

11-791

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 5	165					
11-791	6	86.000 / 3.386	51.50 / 2.028	30.00 / 1.181	-	0.80 / 0.031	1.20 / 0.047	54.00 / 2.126
							1.20 / 0.047	
							2.80 / 0.110	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWH30432	-0.04	-0.00157

Cir Clip

SURFACE TREATMENT: NONE

C17: NONE

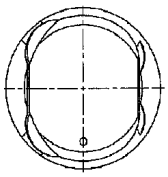
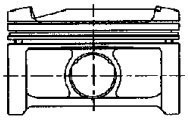
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 / 3.38494	86.2275 / 3.39478	86.4775 / 3.40463	86.7275 / 3.41447	86.9775 / 3.42431
RED:	85.9675 / 3.38455	86.2175 / 3.39439	86.4675 / 3.40423	86.7175 / 3.41407	86.9675 / 3.42392
BLUE:	85.9625 / 3.38435	86.2125 / 3.39419	86.4625 / 3.40404	86.7125 / 3.41388	86.9625 / 3.42372
GREEN:	85.9725 / 3.38474	86.2225 / 3.39459	86.4725 / 3.40443	86.7225 / 3.41427	86.9725 / 3.42411

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-792

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 103	237					
11-792	4	88.500 / 3.484	55.80 / 2.197	33.70 / 1.327	-	6.40 / 0.252	1.20 / 0.047	56.00 / 2.205
							1.20 / 0.047	
							2.00 / 0.079	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10182	-0.03	-0.00118

Cir Clip

SURFACE TREATMENT: Anodized Head

J05: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.470	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	88.4805 / 3.48348	88.7305 / 3.49333	88.9805 / 3.50317	89.2305 / 3.51301	89.4805 / 3.52285
WHITE:	88.4725 / 3.48317	88.7225 / 3.49301	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254
BLUE:	88.4595 / 3.48266	88.7095 / 3.49250	88.9595 / 3.50234	89.2095 / 3.51219	89.4595 / 3.52203
GREEN:	88.4675 / 3.48297	88.7175 / 3.49281	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234

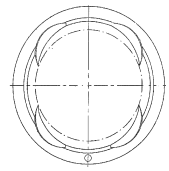
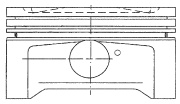
REMARKS:
Measure for CYL Clearance: **4.00** mm / **0.157** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-793

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 5	179					
11-793	6	93.500 / 3.681	52.70 / 2.075	29.70 / 1.169	-	3.00 / 0.118	1.50 / 0.059	66.00 / 2.598
							1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWI10191	-0.04	-0.00157

Cir Clip

NONE

SURFACE TREATMENT: NONE

C17: NONE

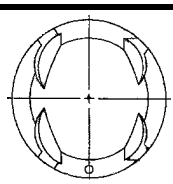
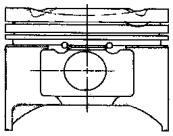
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	93.4775 / 3.68022	93.7275 / 3.69006	93.9775 / 3.69990	94.2275 / 3.70974	94.4775 / 3.71959
RED:	93.4675 / 3.67982	93.7175 / 3.68967	93.9675 / 3.69951	94.2175 / 3.70935	94.4675 / 3.71919
BLUE:	93.4625 / 3.67963	93.7125 / 3.68947	93.9625 / 3.69931	94.2125 / 3.70915	94.4625 / 3.71900
GREEN:	93.4725 / 3.68002	93.7225 / 3.68986	93.9725 / 3.69970	94.2225 / 3.70955	94.4725 / 3.71939

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-794

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 199						
11-794	4	78.000 / 3.071	62.40 / 2.457	31.90 / 1.256	-	2.50 / 0.098	1.50 / 0.059	57.00 / 2.244
							1.50 / 0.059	
							3.00 / 0.118	20.00 / 0.787

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT20060	-0.04	-0.00157

Cir Clip

SURFACE TREATMENT: NONE

C17: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
78.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	77.9775 / 3.06998	78.2275 / 3.07982	78.4775 / 3.08967	78.7275 / 3.09951	78.9775 / 3.10935
RED:	77.9675 / 3.06959	78.2175 / 3.07943	78.4675 / 3.08927	78.7175 / 3.09911	78.9675 / 3.10896
BLUE:	77.9625 / 3.06939	78.2125 / 3.07923	78.4625 / 3.08907	78.7125 / 3.09892	78.9625 / 3.10876
GREEN:	77.9725 / 3.06978	78.2225 / 3.07963	78.4725 / 3.08947	78.7225 / 3.09931	78.9725 / 3.10915

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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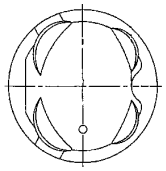
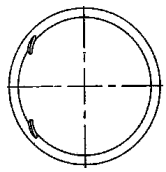
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-795	4	86.000 3.386	59.10 2.327	35.00 1.378	-	3.90 0.154	1.20 0.047	56.00 2.205
PAGE # 257								
PISTON RING # SWT10162		Total Clearance mm: -0.04	inch: -0.00157				1.20 0.047	
							3.00 0.118	22.00 0.866
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

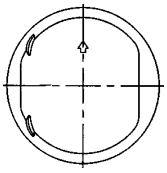
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

11-797	4	75.000 2.953	46.50 1.831	26.90 1.059	-	2.90 0.114	1.00 0.039	56.00 2.205
PAGE # 161								
PISTON RING # SWH30440		Total Clearance mm: -0.03	inch: -0.00118				1.20 0.047	
							2.00 0.079	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

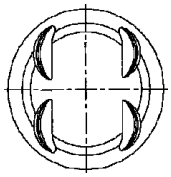
COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

11-798	4	75.000 2.953	45.60 1.795	27.00 1.063	-	2.70 0.106	1.00 0.039	56.00 2.205
PAGE # 161								
PISTON RING # SWH30440		Total Clearance mm: -0.03	inch: -0.00118				1.20 0.047	
							2.00 0.079	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	74.9775 2.95187	75.2275 2.96171	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124
RED:	74.9675 2.95148	75.2175 2.96132	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085
BLUE:	74.9625 2.95128	75.2125 2.96112	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065
GREEN:	74.9725 2.95167	75.2225 2.96152	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

11-799	4	84.000 3.307	59.60 2.346	29.60 1.165	-	0.70 0.028	1.20 0.047	56.50 2.224
PAGE # 161								
PISTON RING # SWH30437		Total Clearance mm: -0.03	inch: -0.00118				1.20 0.047	
							2.80 0.110	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	83.9775 3.30620	84.2275 3.31604	84.4775 3.32589	84.7275 3.33573	84.9775 3.34557
RED:	83.9675 3.30581	84.2175 3.31565	84.4675 3.32549	84.7175 3.33533	84.9675 3.34518
BLUE:	83.9625 3.30561	84.2125 3.31545	84.4625 3.32530	84.7125 3.33514	84.9625 3.34498
GREEN:	83.9725 3.30600	84.2225 3.31585	84.4725 3.32569	84.7225 3.33553	84.9725 3.34537

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

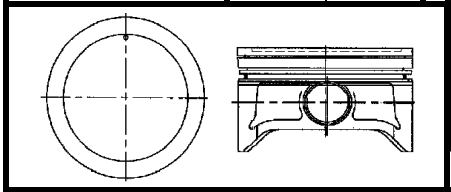
PISTON DIAMETER MEASURING POINT EXPLANATION

11-800

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-800	6	93.000 / 3.661	58.00 / 2.283	30.40 / 1.197	-	0.50 / 0.020	1.20 / 0.047	58.00 / 2.283

PAGE # 173 229

PISTON RING #	Total Clearance mm	Total Clearance inch
SWN30115	-0.03	-0.00118



T03 | NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.970	Tolorance is + / - (mm | inch) :			0.01	0.00039

11-800 Piston is **11-711** now.

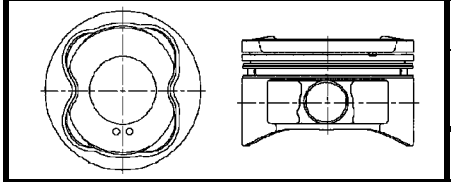
"Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-801

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-801	8	94.000 / 3.701	60.30 / 2.374	33.90 / 1.335	-	6.80 / 0.268	1.50 / 0.059	62.00 / 2.441
							4.00 / 0.157	22.00 / 0.866

PAGE # 197 265

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10203	-0.03	-0.00118



Cir Clip

SURFACE TREATMENT: Anodized Head

T03 | Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	93.9700 / 3.69961	94.2200 / 3.70945	94.4700 / 3.71929	94.7200 / 3.72913	94.9700 / 3.73898
GREEN:	93.9900 / 3.70039	94.2400 / 3.71024	94.4900 / 3.72008	94.7400 / 3.72992	94.9900 / 3.73976

REMARKS:
Measure for CYL Clearance: **10.50** mm / **0.413** inch from Bottom of Skirt.

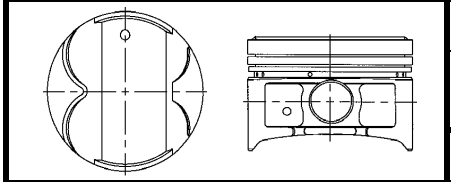
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-802

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-802	4	82.000 / 3.228	57.70 / 2.272	31.30 / 1.232	+	1.40 / 0.055	1.20 / 0.047	56.58 / 2.228
							3.00 / 0.118	20.012 / 0.788

PAGE # 255

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10196	-0.03	-0.00118



Cir Clip

SURFACE TREATMENT: NONE

T03 | NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	81.9700 / 3.22717	82.2200 / 3.23701	82.4700 / 3.24685	82.7200 / 3.25669	82.9700 / 3.26654
GREEN:	81.9900 / 3.22795	82.2400 / 3.23780	82.4900 / 3.24764	82.7400 / 3.25748	82.9900 / 3.26732

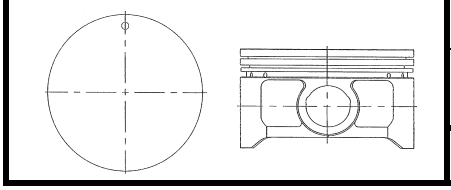
REMARKS:
Measure for CYL Clearance: **25.00** mm / **0.984** inch from Bottom of Skirt.

11-804

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-804	4	86.500 / 3.406	53.50 / 2.106	30.50 / 1.201			1.20 / 0.047	62.00 / 2.441
							1.50 / 0.059	
							2.80 / 0.110	22.000 / 0.866

PAGE # 21 215

PISTON RING #	Total Clearance mm	Total Clearance inch
SWM31116	-0.03	-0.00118



Cir Clip

NONE

SURFACE TREATMENT: NONE

J05 | NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	86.4850 / 3.40492	86.7350 / 3.41476	86.9850 / 3.42461	87.2350 / 3.43445	87.4850 / 3.44429
WHITE:	86.4825 / 3.40482	86.7325 / 3.41467	86.9825 / 3.42451	87.2325 / 3.43435	87.4825 / 3.44419
BLUE:	86.4750 / 3.40453	86.7250 / 3.41437	86.9750 / 3.42421	87.2250 / 3.43406	87.4750 / 3.44390
GREEN:	86.4775 / 3.40463	86.7275 / 3.41447	86.9775 / 3.42431	87.2275 / 3.43415	87.4775 / 3.44400

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

11-806

PAGE # 39 219

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
6	93.000 / 3.661	53.90 / 2.122	31.80 / 1.252			1.50 / 0.059	59.00 / 2.323
						1.50 / 0.059	
						3.00 / 0.118	24.022 / 0.946

PISTON RING #: SWC10002

Total Clearance: mm -0.04 / inch -0.00157

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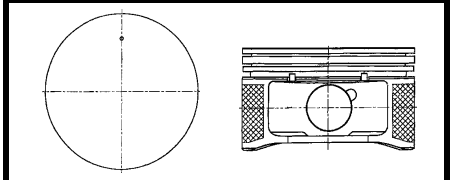

SURFACE TREATMENT: NONE

J05: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	92.9705 / 3.66026	93.2205 / 3.67010	93.4705 / 3.67994	93.7205 / 3.68978	93.9705 / 3.69963
WHITE:	92.9625 / 3.65994	93.2125 / 3.66978	93.4625 / 3.67963	93.7125 / 3.68947	93.9625 / 3.69931
BLUE:	92.9495 / 3.65943	93.1995 / 3.66927	93.4495 / 3.67911	93.6995 / 3.68896	93.9495 / 3.69880
GREEN:	92.9575 / 3.65974	93.2075 / 3.66959	93.4575 / 3.67943	93.7075 / 3.68927	93.9575 / 3.69911

REMARKS:
Measure for CYL Clearance: 13.00 mm / 0.512 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-807

PAGE # 43 219

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
8	93.000 / 3.661	53.90 / 2.122	31.80 / 1.252			1.50 / 0.059	59.00 / 2.323
						1.50 / 0.059	
						3.00 / 0.118	24.022 / 0.946

PISTON RING #: SWC10002 8CYL

Total Clearance: mm -0.04 / inch -0.00157

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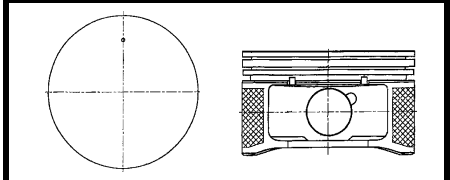


SURFACE TREATMENT: NONE

J05: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	92.9705 / 3.66026	93.2205 / 3.67010	93.4705 / 3.67994	93.7205 / 3.68978	93.9705 / 3.69963
WHITE:	92.9625 / 3.65994	93.2125 / 3.66978	93.4625 / 3.67963	93.7125 / 3.68947	93.9625 / 3.69931
BLUE:	92.9495 / 3.65943	93.1995 / 3.66927	93.4495 / 3.67911	93.6995 / 3.68896	93.9495 / 3.69880
GREEN:	92.9575 / 3.65974	93.2075 / 3.66959	93.4575 / 3.67943	93.7075 / 3.68927	93.9575 / 3.69911

REMARKS:
Measure for CYL Clearance: 13.00 mm / 0.512 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-807D

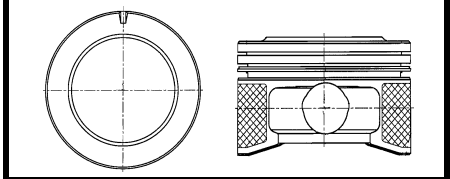
PAGE # 43 219

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
8	93.000 / 3.661	55.40 / 2.181	33.50 / 1.319	+	2.00 / 0.079	1.50 / 0.059	59.00 / 2.323
						1.50 / 0.059	
						3.00 / 0.118	24.022 / 0.946

PISTON RING #: SWC10002 8CYL

Total Clearance: mm -0.04 / inch -0.00157

Cir Clip



SURFACE TREATMENT: NONE

J05: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	92.9705 / 3.66026	93.2205 / 3.67010	93.4705 / 3.67994	93.7205 / 3.68978	93.9705 / 3.69963
WHITE:	92.9625 / 3.65994	93.2125 / 3.66978	93.4625 / 3.67963	93.7125 / 3.68947	93.9625 / 3.69931
BLUE:	92.9495 / 3.65943	93.1995 / 3.66927	93.4495 / 3.67911	93.6995 / 3.68896	93.9495 / 3.69880
GREEN:	92.9575 / 3.65974	93.2075 / 3.66959	93.4575 / 3.67943	93.7075 / 3.68927	93.9575 / 3.69911

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-808

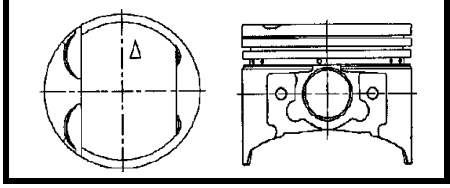
PAGE # 25

CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
6	83.500 / 3.287	64.00 / 2.520	31.90 / 1.256	+	0.10 / 0.004	1.20 / 0.047	64.00 / 2.520
						1.50 / 0.059	
						3.00 / 0.118	22.00 / 0.866

PISTON RING #: SWC10009

Total Clearance: mm -0.03 / inch -0.00118

Cir Clip: NONE



SURFACE TREATMENT: NONE

C17: NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
83.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	83.4775 / 3.28652	83.7275 / 3.29636	83.9775 / 3.30620	84.2275 / 3.31604	84.4775 / 3.32589
RED:	83.4675 / 3.28612	83.7175 / 3.29596	83.9675 / 3.30581	84.2175 / 3.31565	84.4675 / 3.32549
BLUE:	83.4625 / 3.28593	83.7125 / 3.29577	83.9625 / 3.30561	84.2125 / 3.31545	84.4625 / 3.32530
GREEN:	83.4725 / 3.28632	83.7225 / 3.29616	83.9725 / 3.30600	84.2225 / 3.31585	84.4725 / 3.32569

REMARKS:
Measure for CYL Clearance: 9.00 mm / 0.354 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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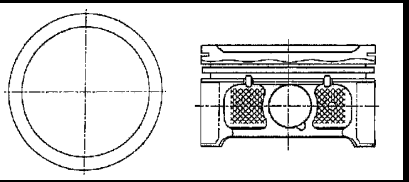
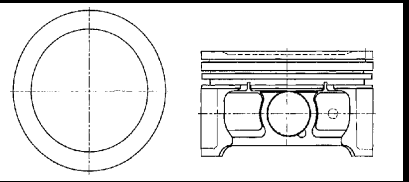
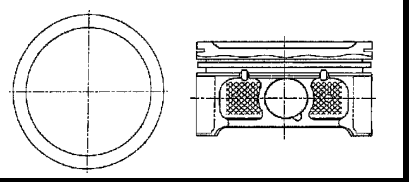
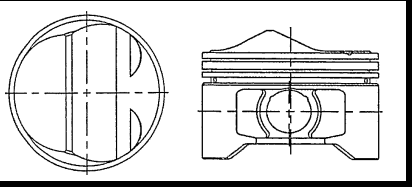
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 81							90.170	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-809	8	90.200 3.551	52.10 2.051	30.75 1.211	-	3.50 0.138	1.50 0.059	61.00 2.402	YELLOW:	90.1805 3.55041	90.4305 3.56026	90.6805 3.57010	90.9305 3.57994	91.1805 3.58978
PISTON RING #		Total Clearance mm	inch				1.50 0.059		WHITE:	90.1725 3.55010	90.4225 3.55994	90.6725 3.56978	90.9225 3.57963	91.1725 3.58947
SWF30006		-0.04	-0.00157				3.00 0.118	22.000 0.866	BLUE:	90.1595 3.54959	90.4095 3.55943	90.6595 3.56927	90.9095 3.57911	91.1595 3.58896
		Cir Clip							GREEN:	90.1675 3.54990	90.4175 3.55974	90.6675 3.56959	90.9175 3.57943	91.1675 3.58927
		SURFACE TREATMENT							REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.					
		NONE												
		J05	Moly Skirt						CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 81							90.180	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-810	8	90.200 3.551	52.00 2.047	31.00 1.220	-	1.75 0.069	1.50 0.059	61.00 2.402	YELLOW:	90.1905 3.55081	90.4405 3.56065	90.6905 3.57049	90.9405 3.58033	91.1905 3.59018
PISTON RING #		Total Clearance mm	inch				1.50 0.059		WHITE:	90.1825 3.55049	90.4325 3.56033	90.6825 3.57018	90.9325 3.58002	91.1825 3.58986
SWF30006		-0.04	-0.00157				3.00 0.118	22.00 0.866	BLUE:	90.1695 3.54998	90.4195 3.55982	90.6695 3.56967	90.9195 3.57951	91.1695 3.58935
		Cir Clip							GREEN:	90.1775 3.55030	90.4275 3.56014	90.6775 3.56998	90.9275 3.57982	91.1775 3.58967
		SURFACE TREATMENT							REMARKS: Measure for CYL Clearance: 5.00 mm / 0.197 inch from Bottom of Skirt.					
		NONE												
		J05	Moly Skirt						CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 87							90.170	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-811	10	90.200 3.551	52.10 2.051	30.75 1.211	-	3.50 0.138	1.50 0.059	61.00 2.402	YELLOW:	90.1805 3.55041	90.4305 3.56026	90.6805 3.57010	90.9305 3.57994	91.1805 3.58978
PISTON RING #		Total Clearance mm	inch				1.50 0.059		WHITE:	90.1725 3.55010	90.4225 3.55994	90.6725 3.56978	90.9225 3.57963	91.1725 3.58947
SWF30013 10CYL		-0.04	-0.00157				3.00 0.118	22.00 0.866	BLUE:	90.1595 3.54959	90.4095 3.55943	90.6595 3.56927	90.9095 3.57911	91.1595 3.58896
		Cir Clip							GREEN:	90.1675 3.54990	90.4175 3.55974	90.6675 3.56959	90.9175 3.57943	91.1675 3.58927
		SURFACE TREATMENT							REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.					
		NONE												
		J05	Moly Skirt						CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 23							87.470	Tolorance is + / - (mm | inch) :			0.0035	0.00014
11-814	4	87.500 3.445	66.30 2.610	30.20 1.189	+	11.50 0.453	1.50 0.059	72.60 2.858	YELLOW:	87.4630 3.44343	87.7130 3.45327	87.9630 3.46311	88.2130 3.47295	88.4630 3.48280
PISTON RING #		Total Clearance mm	inch				1.50 0.059		RED:	87.4765 3.44396	87.7265 3.45380	87.9765 3.46364	88.2265 3.47348	88.4765 3.48333
SWC10007		-0.03	-0.00118				3.00 0.118	22.00 0.866	BLUE:	87.4695 3.44368	87.7195 3.45352	87.9695 3.46337	88.2195 3.47321	88.4695 3.48305
		Cir Clip												
		NONE	SURFACE TREATMENT						REMARKS: Measure for CYL Clearance: 5.00 mm / 0.197 inch from Bottom of Skirt.					
			NONE											
		T01	NONE											

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 33	217					
11-817	6	91.100 / 3.587	64.20 / 2.528	30.20 / 1.189	-	1.30 / 0.051	1.20 / 0.047	64.00 / 2.520
PISTON RING # SWM31078		Total Clearance mm / inch: -0.03 / -0.00118					1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866
						Cir Clip: NONE		
							SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 73	75					
11-820	8	90.200 / 3.551	56.20 / 2.213	30.86 / 1.215	-	3.86 / 0.152	1.50 / 0.059	62.00 / 2.441
PISTON RING # SWF30006		Total Clearance mm / inch: -0.04 / -0.00157					1.50 / 0.059	
							3.00 / 0.118	22.00 / 0.866
						Cir Clip: NONE		
							SURFACE TREATMENT: NONE	
						J05	Moly Skirt	
		PAGE # 45						
11-821	8	99.310 / 3.910	86.40 / 3.402	43.80 / 1.724			1.98 / 0.078	76.00 / 2.992
PISTON RING # SWC10019		Total Clearance mm / inch: -0.04 / -0.00157					1.98 / 0.078	
							4.76 / 0.187	22.00 / 0.866
						Cir Clip: NONE		
							SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 59						
11-822	4	84.860 / 3.341	47.10 / 1.854	37.10 / 1.461	+	4.70 / 0.185	1.50 / 0.059	63.30 / 2.492
PISTON RING # SWF30005		Total Clearance mm / inch: -0.04 / -0.00157					1.50 / 0.059	
							3.00 / 0.118	20.63 / 0.812
						Cir Clip: NONE		
							SURFACE TREATMENT: NONE	
						J05	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-817	91.100	Tolorance is + / - (mm | inch) :		0.0025	0.00010
YELLOW:	91.0775 / 3.58573	91.3275 / 3.59557	91.5775 / 3.60541	91.8275 / 3.61526	92.0775 / 3.62510
RED:	91.0675 / 3.58533	91.3175 / 3.59518	91.5675 / 3.60502	91.8175 / 3.61486	92.0675 / 3.62470
BLUE:	91.0625 / 3.58514	91.3125 / 3.59498	91.5625 / 3.60482	91.8125 / 3.61467	92.0625 / 3.62451
GREEN:	91.0725 / 3.58553	91.3225 / 3.59537	91.5725 / 3.60522	91.8225 / 3.61506	92.0725 / 3.62490
REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
11-820	90.180	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	90.1905 / 3.55081	90.4405 / 3.56065	90.6905 / 3.57049	90.9405 / 3.58033	91.1905 / 3.59018
WHITE:	90.1825 / 3.55049	90.4325 / 3.56033	90.6825 / 3.57018	90.9325 / 3.58002	91.1825 / 3.58986
BLUE:	90.1695 / 3.54998	90.4195 / 3.55982	90.6695 / 3.56967	90.9195 / 3.57951	91.1695 / 3.58935
GREEN:	90.1775 / 3.55030	90.4275 / 3.56014	90.6775 / 3.56998	90.9275 / 3.57982	91.1775 / 3.58967
REMARKS: Measure for CYL Clearance: 11.00 mm / 0.433 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
11-821	99.290	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	99.3005 / 3.90947	99.5505 / 3.91931	99.8005 / 3.92915	100.0505 / 3.93900	100.3005 / 3.94884
WHITE:	99.2925 / 3.90915	99.5425 / 3.91900	99.7925 / 3.92884	100.0425 / 3.93868	100.2925 / 3.94852
BLUE:	99.2795 / 3.90864	99.5295 / 3.91848	99.7795 / 3.92833	100.0295 / 3.93817	100.2795 / 3.94801
GREEN:	99.2875 / 3.90896	99.5375 / 3.91880	99.7875 / 3.92864	100.0375 / 3.93848	100.2875 / 3.94833
REMARKS: Measure for CYL Clearance: 14.00 mm / 0.551 inch from Bottom of Skirt.					
11-822	84.810	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	84.8205 / 3.33939	85.0705 / 3.34923	85.3205 / 3.35907	85.5705 / 3.36892	85.8205 / 3.37876
WHITE:	84.8125 / 3.33907	85.0625 / 3.34892	85.3125 / 3.35876	85.5625 / 3.36860	85.8125 / 3.37844
BLUE:	84.7995 / 3.33856	85.0495 / 3.34841	85.2995 / 3.35825	85.5495 / 3.36809	85.7995 / 3.37793
GREEN:	84.8075 / 3.33888	85.0575 / 3.34872	85.3075 / 3.35856	85.5575 / 3.36841	85.8075 / 3.37825
REMARKS: Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.					

PISTON BUYER'S GUIDE

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

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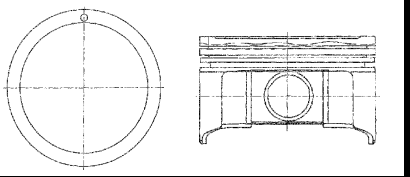
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-823	8	101.600 / 4.000	60.60 / 2.386	33.80 / 1.331	-	1.10 / 0.043	1.50 / 0.059	70.00 / 2.756
PISTON RING #		Total Clearance mm	Total Clearance inch				1.50 / 0.059	
SWI10197		-0.04	-0.00157				3.00 / 0.118	24.00 / 0.945
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	Moly Skirt	

PAGE # 141

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
101.560	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	101.5705 / 3.99884	101.8205 / 4.00868	102.0705 / 4.01852	102.3205 / 4.02837	102.5705 / 4.03821
WHITE:	101.5625 / 3.99852	101.8125 / 4.00837	102.0625 / 4.01821	102.3125 / 4.02805	102.5625 / 4.03789
BLUE:	101.5495 / 3.99801	101.7995 / 4.00785	102.0495 / 4.01770	102.2995 / 4.02754	102.5495 / 4.03738
GREEN:	101.5575 / 3.99833	101.8075 / 4.00817	102.0575 / 4.01801	102.3075 / 4.02785	102.5575 / 4.03770

REMARKS:
Measure for CYL Clearance: **21.00** mm / **0.827** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

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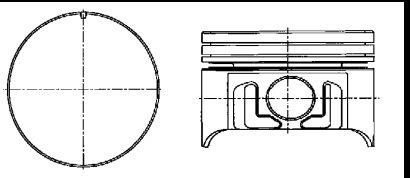
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-825	6	89.000 / 3.504	66.30 / 2.610	38.50 / 1.516			1.50 / 0.059	70.00 / 2.756
PISTON RING #		Total Clearance mm	Total Clearance inch				1.50 / 0.059	
SWI10155 SWT20075		-0.04	-0.00157				4.00 / 0.157	23.17 / 0.912
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	88.9705 / 3.50278	89.2205 / 3.51262	89.4705 / 3.52246	89.7205 / 3.53230	89.9705 / 3.54215
WHITE:	88.9625 / 3.50246	89.2125 / 3.51230	89.4625 / 3.52215	89.7125 / 3.53199	89.9625 / 3.54183
BLUE:	88.9495 / 3.50195	89.1995 / 3.51179	89.4495 / 3.52163	89.6995 / 3.53148	89.9495 / 3.54132
GREEN:	88.9575 / 3.50226	89.2075 / 3.51211	89.4575 / 3.52195	89.7075 / 3.53179	89.9575 / 3.54163

REMARKS:
Measure for CYL Clearance: **8.00** mm / **0.315** inch from Bottom of Skirt.

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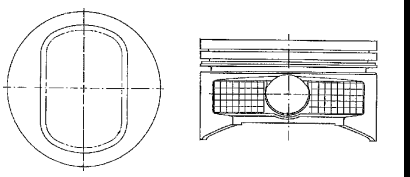
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-826	6	96.800 / 3.811	59.10 / 2.327	31.80 / 1.252	-	3.60 / 0.142	1.50 / 0.059	63.30 / 2.492
PISTON RING #		Total Clearance mm	Total Clearance inch				1.50 / 0.059	
SWF30004		-0.04	-0.00157				3.00 / 0.118	23.00 / 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
96.830	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	96.8075 / 3.81132	97.0575 / 3.82116	97.3075 / 3.83100	97.5575 / 3.84085	97.8075 / 3.85069
RED:	96.7975 / 3.81093	97.0475 / 3.82077	97.2975 / 3.83061	97.5475 / 3.84045	97.7975 / 3.85030
BLUE:	96.7925 / 3.81073	97.0425 / 3.82057	97.2925 / 3.83041	97.5425 / 3.84026	97.7925 / 3.85010
GREEN:	96.8025 / 3.81112	97.0525 / 3.82096	97.3025 / 3.83081	97.5525 / 3.84065	97.8025 / 3.85049

REMARKS:
Measure for CYL Clearance: **11.50** mm / **0.453** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

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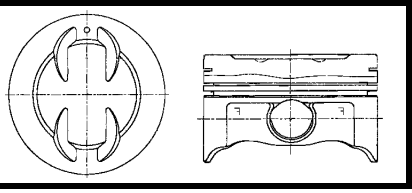
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-827	6	101.600 / 4.000	66.00 / 2.598	39.40 / 1.551	-	2.60 / 0.102	1.50 / 0.059	69.70 / 2.744
PISTON RING #		Total Clearance mm	Total Clearance inch				1.50 / 0.059	
SWI10196		-0.04	-0.00157				3.00 / 0.118	23.56 / 0.928
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
101.580	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	101.5905 / 3.99963	101.8405 / 4.00947	102.0905 / 4.01931	102.3405 / 4.02915	102.5905 / 4.03900
WHITE:	101.5825 / 3.99931	101.8325 / 4.00915	102.0825 / 4.01900	102.3325 / 4.02884	102.5825 / 4.03868
BLUE:	101.5695 / 3.99880	101.8195 / 4.00864	102.0695 / 4.01848	102.3195 / 4.02833	102.5695 / 4.03817
GREEN:	101.5775 / 3.99911	101.8275 / 4.00896	102.0775 / 4.01880	102.3275 / 4.02864	102.5775 / 4.03848

REMARKS:
Measure for CYL Clearance: **12.00** mm / **0.472** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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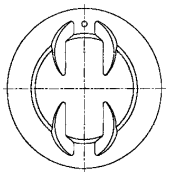
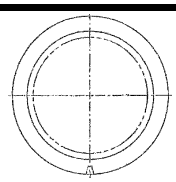
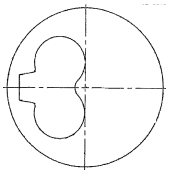
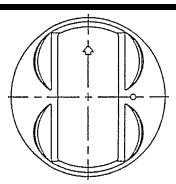
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 141							101.580	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-828	8	101.600 / 4.000	66.00 / 2.598	39.40 / 1.551	-	2.60 / 0.102	1.50 / 0.059	69.70 / 2.744	YELLOW:	101.5905 / 3.99963	101.8405 / 4.00947	102.0905 / 4.01931	102.3405 / 4.02915	102.5905 / 4.03900
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059		WHITE:	101.5825 / 3.99931	101.8325 / 4.00915	102.0825 / 4.01900	102.3325 / 4.02884	102.5825 / 4.03868
SWI10197		-0.04	-0.00157				3.00 / 0.118	23.56 / 0.928	BLUE:	101.5695 / 3.99880	101.8195 / 4.00864	102.0695 / 4.01848	102.3195 / 4.02833	102.5695 / 4.03817
						Cir Clip			GREEN:	101.5775 / 3.99911	101.8275 / 4.00896	102.0775 / 4.01880	102.3275 / 4.02864	102.5775 / 4.03848
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 12.00 mm / 0.472 inch from Bottom of Skirt.					
							NONE							
						J05	NONE							
		PAGE # 133 181							96.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-829	8	96.000 / 3.780	64.80 / 2.551	33.70 / 1.327	-	1.70 / 0.067	1.50 / 0.059	72.00 / 2.835	YELLOW:	95.9775 / 3.77864	96.2275 / 3.78848	96.4775 / 3.79833	96.7275 / 3.80817	96.9775 / 3.81801
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059		RED:	95.9675 / 3.77825	96.2175 / 3.78809	96.4675 / 3.79793	96.7175 / 3.80778	96.9675 / 3.81762
SWG10005		-0.04	-0.00157				3.00 / 0.118	24.00 / 0.945	BLUE:	95.9625 / 3.77805	96.2125 / 3.78789	96.4625 / 3.79774	96.7125 / 3.80758	96.9625 / 3.81742
						Cir Clip			GREEN:	95.9725 / 3.77844	96.2225 / 3.78829	96.4725 / 3.79813	96.7225 / 3.80797	96.9725 / 3.81781
						NONE	SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 16.00 mm / 0.630 inch from Bottom of Skirt.					
							NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
						C17	Moly Skirt							
		PAGE # 145 147							102.981	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-830	8	103.000 / 4.055	91.80 / 3.614	53.50 / 2.106	-	3.70 / 0.146	3.00 / 0.118	70.00 / 2.756	YELLOW:	102.9585 / 4.05348	103.2085 / 4.06333	103.4585 / 4.07317	103.7085 / 4.08301	103.9585 / 4.09285
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079		RED:	102.9485 / 4.05309	103.1985 / 4.06293	103.4485 / 4.07278	103.6985 / 4.08262	103.9485 / 4.09246
SDG10024		-0.1016	-0.00400				4.00 / 0.157	31.00 / 1.220	BLUE:	102.9435 / 4.05289	103.1935 / 4.06274	103.4435 / 4.07258	103.6935 / 4.08242	103.9435 / 4.09226
						Cir Clip			GREEN:	102.9535 / 4.05329	103.2035 / 4.06313	103.4535 / 4.07297	103.7035 / 4.08281	103.9535 / 4.09266
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 17.00 mm / 0.669 inch from Bottom of Skirt.					
							Anodized Head		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
						C17	NONE							
		PAGE # 165							85.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
11-832	6	86.000 / 3.386	52.20 / 2.055	30.00 / 1.181	+	0.70 / 0.028	1.20 / 0.047	54.00 / 2.126						
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047		RED:	85.9600 / 3.38425	86.2100 / 3.39409	86.4600 / 3.40394	86.7100 / 3.41378	86.9600 / 3.42362
SWH30432		-0.03	-0.00118				2.80 / 0.110	21.97 / 0.865						
						Cir Clip			GREEN:	85.9800 / 3.38504	86.2300 / 3.39488	86.4800 / 3.40472	86.7300 / 3.41457	86.9800 / 3.42441
							SURFACE TREATMENT		REMARKS: Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.					
							NONE		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
						T03	Moly Skirt							

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-833	4	87.000 / 3.425	53.60 / 2.110	29.60 / 1.165	-	2.60 / 0.102	1.20 / 0.047	52.00 / 2.047
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30466		-0.03	-0.00118				2.00 / 0.079	21.97 / 0.865
						Cir Clip		
						T03	SURFACE TREATMENT: NONE	Moly Skirt
PAGE # 163								
11-834	4	87.000 / 3.425	56.60 / 2.228	29.50 / 1.161	+	3.10 / 0.122	1.20 / 0.047	52.00 / 2.047
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30466		-0.03	-0.00118				2.00 / 0.079	21.97 / 0.865
						Cir Clip		
						T03	SURFACE TREATMENT: NONE	Moly Skirt
PAGE # 165								
11-835	6	89.000 / 3.504	51.50 / 2.028	30.00 / 1.181	-	2.40 / 0.094	1.20 / 0.047	54.00 / 2.126
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30438		-0.03	-0.00118				2.80 / 0.110	21.97 / 0.865
						Cir Clip		
						T03	SURFACE TREATMENT: NONE	Moly Skirt
PAGE # 5 113 165								
11-836	6	89.000 / 3.504	51.50 / 2.028	30.00 / 1.181	-	1.20 / 0.047	1.20 / 0.047	54.00 / 2.126
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWH30438		-0.03	-0.00118				2.80 / 0.110	21.97 / 0.865
						Cir Clip		
						T03	SURFACE TREATMENT: NONE	Moly Skirt

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	86.9600 / 3.42362	87.2100 / 3.43346	87.4600 / 3.44331	87.7100 / 3.45315	87.9600 / 3.46299
GREEN:	86.9800 / 3.42441	87.2300 / 3.43425	87.4800 / 3.44409	87.7300 / 3.45394	87.9800 / 3.46378

REMARKS:
Measure for CYL Clearance: **11.00** mm / **0.433** inch **from Bottom of Skirt.**

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	86.9600 / 3.42362	87.2100 / 3.43346	87.4600 / 3.44331	87.7100 / 3.45315	87.9600 / 3.46299
GREEN:	86.9800 / 3.42441	87.2300 / 3.43425	87.4800 / 3.44409	87.7300 / 3.45394	87.9800 / 3.46378

REMARKS:
Measure for CYL Clearance: **11.00** mm / **0.433** inch **from Bottom of Skirt.**

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9600 / 3.50236	89.2100 / 3.51220	89.4600 / 3.52205	89.7100 / 3.53189	89.9600 / 3.54173
GREEN:	88.9800 / 3.50315	89.2300 / 3.51299	89.4800 / 3.52283	89.7300 / 3.53268	89.9800 / 3.54252

REMARKS:
Measure for CYL Clearance: **7.00** mm / **0.276** inch **from Bottom of Skirt.**

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9600 / 3.50236	89.2100 / 3.51220	89.4600 / 3.52205	89.7100 / 3.53189	89.9600 / 3.54173
GREEN:	88.9800 / 3.50315	89.2300 / 3.51299	89.4800 / 3.52283	89.7300 / 3.53268	89.9800 / 3.54252

REMARKS:
Measure for CYL Clearance: **7.00** mm / **0.276** inch **from Bottom of Skirt.**

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
PAGE #		167						
11-837	4	75.500 2.972	53.70 2.114	30.70 1.209	-	0.20 0.008	1.50 0.059	47.50 1.870
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWG30017		-0.03	-0.00118				3.00 0.118	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
PAGE #		167 185						
11-838	4	82.000 3.228	57.80 2.276	31.00 1.220	+	0.30 0.012	1.20 0.047	59.00 2.323
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWG30028		-0.03	-0.00118				2.50 0.098	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
PAGE #		177						
11-840	4	86.000 3.386	53.70 2.114	27.60 1.087	+	1.20 0.047	1.20 0.047	61.00 2.402
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWI10206		-0.03	-0.00118				2.50 0.098	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	NONE	
PAGE #		185						
11-841	4	81.000 3.189	50.30 1.980	30.20 1.189	-	2.60 0.102	1.20 0.047	58.00 2.283
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWG30040		-0.03	-0.00118				2.50 0.098	20.00 0.787
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
75.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	75.4775 2.97156	75.7275 2.98140	75.9775 2.99124	76.2275 3.00108	76.4775 3.01093
RED:	75.4675 2.97116	75.7175 2.98100	75.9675 2.99085	76.2175 3.00069	76.4675 3.01053
BLUE:	75.4625 2.97096	75.7125 2.98081	75.9625 2.99065	76.2125 3.00049	76.4625 3.01033
GREEN:	75.4725 2.97136	75.7225 2.98120	75.9725 2.99104	76.2225 3.00089	76.4725 3.01073

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
82.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	81.9775 3.22746	82.2275 3.23730	82.4775 3.24715	82.7275 3.25699	82.9775 3.26683
RED:	81.9675 3.22707	82.2175 3.23691	82.4675 3.24675	82.7175 3.25659	82.9675 3.26644
BLUE:	81.9625 3.22687	82.2125 3.23671	82.4625 3.24656	82.7125 3.25640	82.9625 3.26624
GREEN:	81.9725 3.22726	82.2225 3.23711	82.4725 3.24695	82.7225 3.25679	82.9725 3.26663

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	80.9775 3.18809	81.2275 3.19793	81.4775 3.20778	81.7275 3.21762	81.9775 3.22746
RED:	80.9675 3.18770	81.2175 3.19754	81.4675 3.20738	81.7175 3.21722	81.9675 3.22707
BLUE:	80.9625 3.18750	81.2125 3.19734	81.4625 3.20719	81.7125 3.21703	81.9625 3.22687
GREEN:	80.9725 3.18789	81.2225 3.19774	81.4725 3.20758	81.7225 3.21742	81.9725 3.22726

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 201						
11-842	4	83.000 3.268	64.00 2.520	30.70 1.209	+	3.00 0.118	1.50 0.059	57.00 2.244
PISTON RING # SWT20066		Total Clearance mm / inch: -0.03 / -0.00118					1.50 0.059	
							3.00 0.118	20.00 0.787
						Cir Clip		
						16	SURFACE TREATMENT: NONE	
						C17	NONE	
		PAGE # 203						
11-843	4	87.500 3.445	51.00 2.008	28.50 1.122	-	4.00 0.157	1.20 0.047	61.50 2.421
PISTON RING # SWT20090		Total Clearance mm / inch: -0.03 / -0.00118					1.20 0.047	
							2.50 0.098	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: Anodized Head	
						J05	Moly Skirt	
		PAGE # 203						
11-844	4	87.500 3.445	51.00 2.008	28.50 1.122	-	3.30 0.130	1.20 0.047	61.50 2.421
PISTON RING # SWT20090		Total Clearance mm / inch: -0.03 / -0.00118					1.20 0.047	
							2.50 0.098	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 217						
11-847	6	93.000 3.661	64.20 2.528	30.20 1.189	-	4.70 0.185	1.50 0.059	64.00 2.520
PISTON RING # SWM31121		Total Clearance mm / inch: -0.03 / -0.00118					1.50 0.059	
							3.00 0.118	22.00 0.866
						Cir Clip		
						16	SURFACE TREATMENT: Anodized Head	
						C17	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
11-842 — 83.000 — Tolorance is + / - (mm | inch):				0.0025	0.00010
YELLOW:	82.9775 3.26683	83.2275 3.27667	83.4775 3.28652	83.7275 3.29636	83.9775 3.30620
RED:	82.9675 3.26644	83.2175 3.27628	83.4675 3.28612	83.7175 3.29596	83.9675 3.30581
BLUE:	82.9625 3.26624	83.2125 3.27608	83.4625 3.28593	83.7125 3.29577	83.9625 3.30561
GREEN:	82.9725 3.26663	83.2225 3.27648	83.4725 3.28632	83.7225 3.29616	83.9725 3.30600
REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
11-843 — 87.470 — Tolorance is + / - (mm | inch):				0.0045	0.00018
YELLOW:	87.4805 3.44411	87.7305 3.45396	87.9805 3.46380	88.2305 3.47364	88.4805 3.48348
WHITE:	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348	88.2225 3.47333	88.4725 3.48317
BLUE:	87.4595 3.44329	87.7095 3.45313	87.9595 3.46297	88.2095 3.47281	88.4595 3.48266
GREEN:	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329	88.2175 3.47313	88.4675 3.48297
REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
11-844 — 87.480 — Tolorance is + / - (mm | inch):				0.0045	0.00018
YELLOW:	87.4905 3.44451	87.7405 3.45435	87.9905 3.46419	88.2405 3.47404	88.4905 3.48388
WHITE:	87.4825 3.44419	87.7325 3.45404	87.9825 3.46388	88.2325 3.47372	88.4825 3.48356
BLUE:	87.4695 3.44368	87.7195 3.45352	87.9695 3.46337	88.2195 3.47321	88.4695 3.48305
GREEN:	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368	88.2275 3.47352	88.4775 3.48337
REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
11-847 — 93.000 — Tolorance is + / - (mm | inch):				0.0025	0.00010
YELLOW:	92.9775 3.66053	93.2275 3.67037	93.4775 3.68022	93.7275 3.69006	93.9775 3.69990
RED:	92.9675 3.66014	93.2175 3.66998	93.4675 3.67982	93.7175 3.68967	93.9675 3.69951
BLUE:	92.9625 3.65994	93.2125 3.66978	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931
GREEN:	92.9725 3.66033	93.2225 3.67018	93.4725 3.68002	93.7225 3.68986	93.9725 3.69970
REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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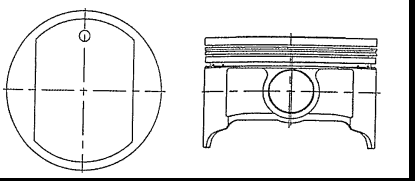
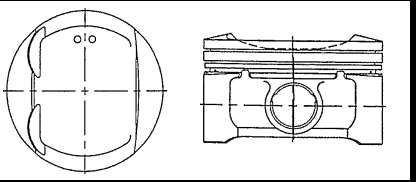
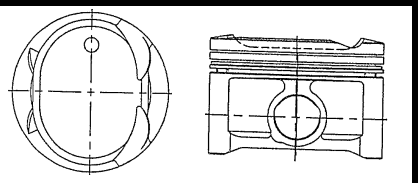
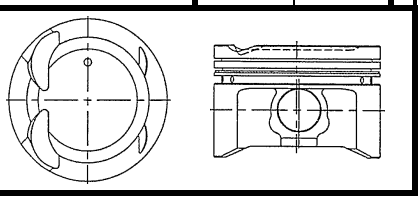
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 219							94.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
11-848	6	95.000 3.740	56.80 2.236	29.10 1.146	+	0.20 0.008	1.20 0.047	58.00 2.283						
PISTON RING # SWM31148		Total Clearance mm / inch: -0.03 / -0.00118					1.20 0.047		RED:	94.9600 3.73858	95.2100 3.74843	95.4600 3.75827	95.7100 3.76811	95.9600 3.77795
							2.00 0.079	22.00 0.866						
						Cir Clip			GREEN:	94.9800 3.73937	95.2300 3.74921	95.4800 3.75906	95.7300 3.76890	95.9800 3.77874
						T03	SURFACE TREATMENT: Anodized Head; Moly Skirt		REMARKS: Measure for CYL Clearance: 12.00 mm / 0.472 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 223							83.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
11-849	4	84.000 3.307	52.80 2.079	31.20 1.228	+	3.20 0.126	1.20 0.047	53.00 2.087						
PISTON RING # SWN30154		Total Clearance mm / inch: -0.03 / -0.00118					1.20 0.047		RED:	83.9600 3.30551	84.2100 3.31535	84.4600 3.32520	84.7100 3.33504	84.9600 3.34488
							2.00 0.079	19.99 0.787						
						Cir Clip			GREEN:	83.9800 3.30630	84.2300 3.31614	84.4800 3.32598	84.7300 3.33583	84.9800 3.34567
						J05	SURFACE TREATMENT: Anodized Head; Moly Skirt		REMARKS: Measure for CYL Clearance: 5.50 mm / 0.217 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 257							86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-850	4	86.000 3.386	60.80 2.394	40.80 1.606	-	5.80 0.228	1.20 0.047	56.00 2.205	YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
PISTON RING # SWT10186		Total Clearance mm / inch: -0.03 / -0.00118			-	2.15 0.085	1.20 0.047		RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
							2.00 0.079	22.00 0.866	BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
						Cir Clip			GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411
						C17	SURFACE TREATMENT: NONE; Moly Skirt		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 193 263							85.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
11-851	6	86.000 3.386	59.00 2.323	34.00 1.339	-	2.30 0.091	1.50 0.059	66.00 2.598						
PISTON RING # SWT10134		Total Clearance mm / inch: -0.03 / -0.00118					1.50 0.059		RED:	85.9600 3.38425	86.2100 3.39409	86.4600 3.40394	86.7100 3.41378	86.9600 3.42362
							4.00 0.157	22.00 0.866						
						Cir Clip			GREEN:	85.9800 3.38504	86.2300 3.39488	86.4800 3.40472	86.7300 3.41457	86.9800 3.42441
						T03	SURFACE TREATMENT: NONE; Moly Skirt		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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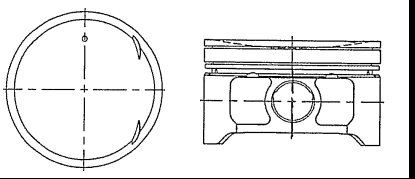
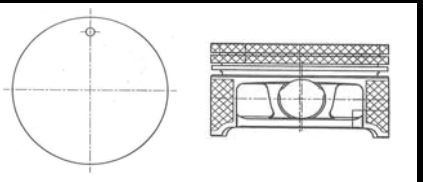
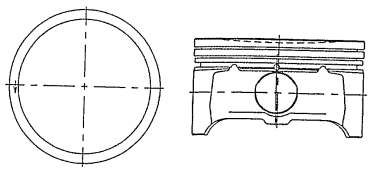
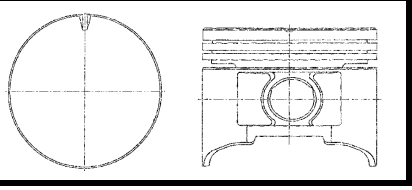
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 227							88.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-852	4	89.000 3.504	54.80 2.157	32.00 1.260	-	4.00 0.157	1.20 0.047	57.00 2.244	YELLOW:	88.9905 3.50356	89.2405 3.51341	89.4905 3.52325	89.7405 3.53309	89.9905 3.54293
PISTON RING #		Total Clearance mm	inch				1.20 0.047		WHITE:	88.9825 3.50325	89.2325 3.51309	89.4825 3.52293	89.7325 3.53278	89.9825 3.54262
SWN30143		-0.03	-0.00118				2.50 0.098	19.99 0.787	BLUE:	88.9695 3.50274	89.2195 3.51258	89.4695 3.52242	89.7195 3.53226	89.9695 3.54211
						Cir Clip			GREEN:	88.9775 3.50305	89.2275 3.51289	89.4775 3.52274	89.7275 3.53258	89.9775 3.54242
							SURFACE TREATMENT		REMARKS:					
							Anodized Head		Measure for CYL Clearance:	19.00 mm 0.748 inch			from Bottom of Skirt.	
						J05	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 83							90.180	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-853	8	90.200 3.551	52.00 2.047	30.70 1.209			1.50 0.059	62.00 2.441	YELLOW:	90.1905 3.55081	90.4405 3.56065	90.6905 3.57049	90.9405 3.58033	91.1905 3.59018
PISTON RING #		Total Clearance mm	inch				1.50 0.059		WHITE:	90.1825 3.55049	90.4325 3.56033	90.6825 3.57018	90.9325 3.58002	91.1825 3.58986
SWF30006		-0.04	-0.00157				3.00 0.118	22.00 0.866	BLUE:	90.1695 3.54998	90.4195 3.55982	90.6695 3.56967	90.9195 3.57951	91.1695 3.58935
						Cir Clip			GREEN:	90.1775 3.55030	90.4275 3.56014	90.6775 3.56998	90.9275 3.57982	91.1775 3.58967
							SURFACE TREATMENT		REMARKS:					
							Anodized Head		Measure for CYL Clearance:	13.00 mm 0.512 inch			from Bottom of Skirt.	
						J05	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 201							87.480	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-854	8	87.500 3.445	51.00 2.008	28.50 1.122	-	2.00 0.079	1.20 0.047	61.50 2.421	YELLOW:	87.4905 3.44451	87.7405 3.45435	87.9905 3.46419	88.2405 3.47404	88.4905 3.48388
PISTON RING #		Total Clearance mm	inch				1.20 0.047		WHITE:	87.4825 3.44419	87.7325 3.45404	87.9825 3.46388	88.2325 3.47372	88.4825 3.48356
SWT20090		-0.03	-0.00118				2.50 0.098	21.00 0.827	BLUE:	87.4695 3.44368	87.7195 3.45352	87.9695 3.46337	88.2195 3.47321	88.4695 3.48305
						Cir Clip			GREEN:	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368	88.2275 3.47352	88.4775 3.48337
						NONE	SURFACE TREATMENT		REMARKS:					
							Anodized Head		Measure for CYL Clearance:	10.00 mm 0.394 inch			from Bottom of Skirt.	
						J05	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 41							99.290	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-855	6	99.300 3.909	86.40 3.402	43.80 1.724			1.98 0.078	76.00 2.992	YELLOW:	99.3005 3.90947	99.5505 3.91931	99.8005 3.92915	100.0505 3.93900	100.3005 3.94884
PISTON RING #		Total Clearance mm	inch				1.98 0.078		WHITE:	99.2925 3.90915	99.5425 3.91900	99.7925 3.92884	100.0425 3.93868	100.2925 3.94852
SWC10018		-0.04	-0.00157				4.76 0.187	22.00 0.866	BLUE:	99.2795 3.90864	99.5295 3.91848	99.7795 3.92833	100.0295 3.93817	100.2795 3.94801
						Cir Clip			GREEN:	99.2875 3.90896	99.5375 3.91880	99.7875 3.92864	100.0375 3.93848	100.2875 3.94833
						NONE	SURFACE TREATMENT		REMARKS:					
							NONE		Measure for CYL Clearance:	14.00 mm 0.551 inch			from Bottom of Skirt.	
						J05	NONE							

PISTON BUYER'S GUIDE

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

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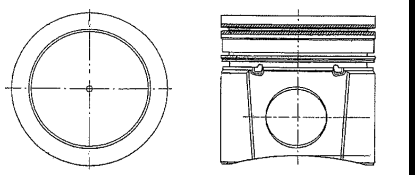
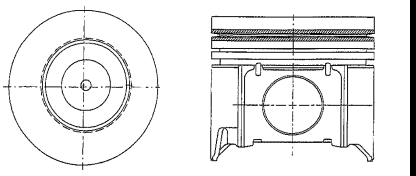
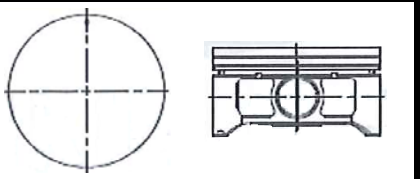
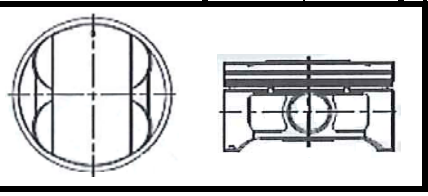
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
		PAGE # 51	85						102.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-856	6	102.000 / 4.016	105.20 / 4.142	71.40 / 2.811	-	12.50 / 0.492	3.00K / 0.118K	83.00 / 3.268	YELLOW:	101.9775 / 4.01486	102.2275 / 4.02470	102.4775 / 4.03455	102.7275 / 4.04439	102.9775 / 4.05423
PISTON RING #		Total Clearance mm	inch				2.35 / 0.093		RED:	101.9675 / 4.01447	102.2175 / 4.02431	102.4675 / 4.03415	102.7175 / 4.04400	102.9675 / 4.05384
SDC10022		-0.1016	-0.00400				4.00 / 0.157	40.00 / 1.575	BLUE:	101.9625 / 4.01427	102.2125 / 4.02411	102.4625 / 4.03396	102.7125 / 4.04380	102.9625 / 4.05364
						Cir Clip			GREEN:	101.9725 / 4.01467	102.2225 / 4.02451	102.4725 / 4.03435	102.7225 / 4.04419	102.9725 / 4.05404
							SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 20.00 mm / 0.787 inch from Bottom of Skirt.					
						C17	NONE							
		PAGE # 85							95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-857	8	95.000 / 3.740	85.80 / 3.378	52.04 / 2.049	-	6.60 / 0.260	2.25 / 0.089	65.00 / 2.559	YELLOW:	94.9775 / 3.73927	95.2275 / 3.74911	95.4775 / 3.75896	95.7275 / 3.76880	95.9775 / 3.77864
PISTON RING #		Total Clearance mm	inch		-	16.40 / 0.646	2.00 / 0.079		RED:	94.9675 / 3.73888	95.2175 / 3.74872	95.4675 / 3.75856	95.7175 / 3.76841	95.9675 / 3.77825
NA		-0.1016	-0.00400				3.50 / 0.138	34.00 / 1.339	BLUE:	94.9625 / 3.73868	95.2125 / 3.74852	95.4625 / 3.75837	95.7125 / 3.76821	95.9625 / 3.77805
						Cir Clip			GREEN:	94.9725 / 3.73907	95.2225 / 3.74892	95.4725 / 3.75876	95.7225 / 3.76860	95.9725 / 3.77844
							SURFACE TREATMENT: NONE		REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.					
						C17	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 173							95.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
11-859	6	95.500 / 3.760	52.60 / 2.071	29.60 / 1.165			1.20 / 0.047	58.00 / 2.283	YELLOW:	95.4775 / 3.75896	95.7275 / 3.76880	95.9775 / 3.77864	96.2275 / 3.78848	96.4775 / 3.79833
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047		RED:	95.4675 / 3.75856	95.7175 / 3.76841	95.9675 / 3.77825	96.2175 / 3.78809	96.4675 / 3.79793
SWN30131		-0.03	-0.00118				2.50 / 0.098	22.00 / 0.866	BLUE:	95.4625 / 3.75837	95.7125 / 3.76821	95.9625 / 3.77805	96.2125 / 3.78789	96.4625 / 3.79774
						Cir Clip			GREEN:	95.4725 / 3.75876	95.7225 / 3.76860	95.9725 / 3.77844	96.2225 / 3.78829	96.4725 / 3.79813
							SURFACE TREATMENT: Anodized Head		REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.					
						C17	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
		PAGE # 173	231						95.440	Tolorance is + / - (mm | inch) :			0.0045	0.00018
11-860	6	95.500 / 3.760	53.90 / 2.122	29.50 / 1.161	+	0.80	1.20 / 0.047	58.00 / 2.283	YELLOW:	95.4450 / 3.75768	95.6950 / 3.76752	95.9450 / 3.77736	96.1950 / 3.78720	96.4450 / 3.79705
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047		WHITE:	95.4425 / 3.75758	95.6925 / 3.76742	95.9425 / 3.77726	96.1925 / 3.78711	96.4425 / 3.79695
SWN30131		-0.03	-0.00118				2.50 / 0.098	22.00 / 0.866	BLUE:	95.4350 / 3.75728	95.6850 / 3.76713	95.9350 / 3.77697	96.1850 / 3.78681	96.4350 / 3.79665
						Cir Clip			GREEN:	95.4375 / 3.75738	95.6875 / 3.76722	95.9375 / 3.77707	96.1875 / 3.78691	96.4375 / 3.79675
							SURFACE TREATMENT: Anodized Head		REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.					
						J05	Moly Skirt		CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 47						
11-861	8	99.500 3.917	59.00 2.323	31.00 1.220	+	4.00	1.50 0.059	71.00 2.795
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWC10016		-0.04	-0.00157				3.00 0.118	24.00 0.945
						Cir Clip		
						NONE	SURFACE TREATMENT	
							Anodized Head	
						J05	Moly Skirt	
		PAGE # 169 187						
11-862	6	86.700 3.413	54.00 2.126	30.40 1.197	-	0.80	1.20 0.047	60.00 2.362
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWG30037		-0.03	-0.00118				2.50 0.098	21.01 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	NONE	
		PAGE # 35						
11-863	6	93.000 3.661	53.60 2.110	31.70 1.248	-	2.30 0.091	1.50 0.059	67.50 2.657
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWC10002		-0.04	-0.00157				3.00 0.118	22.89 0.901
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T03	Moly Skirt	
		PAGE # 41 271						
11-864	6	96.000 3.780	54.10 2.130	32.30 1.272	-	2.30 0.091	1.20 0.047	71.50 2.815
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWC10015		-0.04	-0.00157				3.00 0.118	22.89 0.901
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T03	Moly Skirt	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.530	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	99.5405 3.91892	99.7905 3.92876	100.0405 3.93860	100.2905 3.94844	100.5405 3.95829
WHITE:	99.5325 3.91860	99.7825 3.92844	100.0325 3.93829	100.2825 3.94813	100.5325 3.95797
BLUE:	99.5195 3.91809	99.7695 3.92793	100.0195 3.93778	100.2695 3.94762	100.5195 3.95746
GREEN:	99.5275 3.91841	99.7775 3.92825	100.0275 3.93809	100.2775 3.94793	100.5275 3.95778

REMARKS:
Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.680	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	86.6905 3.41301	86.9405 3.42285	87.1905 3.43270	87.4405 3.44254	87.6905 3.45238
WHITE:	86.6825 3.41270	86.9325 3.42254	87.1825 3.43238	87.4325 3.44222	87.6825 3.45207
BLUE:	86.6695 3.41219	86.9195 3.42203	87.1695 3.43187	87.4195 3.44171	87.6695 3.45156
GREEN:	86.6775 3.41250	86.9275 3.42234	87.1775 3.43219	87.4275 3.44203	87.6775 3.45187

REMARKS:
Measure for CYL Clearance: **6.00** mm / **0.236** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	92.9600 3.65984	93.2100 3.66969	93.4600 3.67953	93.7100 3.68937	93.9600 3.69921
GREEN:	92.9800 3.66063	93.2300 3.67047	93.4800 3.68031	93.7300 3.69016	93.9800 3.70000

REMARKS:
Measure for CYL Clearance: **7.00** mm / **0.276** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	95.9600 3.77795	96.2100 3.78780	96.4600 3.79764	96.7100 3.80748	96.9600 3.81732
GREEN:	95.9800 3.77874	96.2300 3.78858	96.4800 3.79843	96.7300 3.80827	96.9800 3.81811

REMARKS:
Measure for CYL Clearance: **6.50** mm / **0.256** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

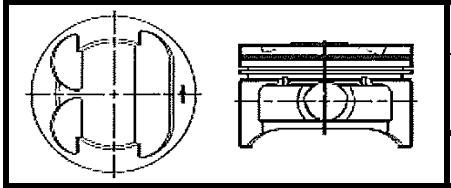
11-865

PAGE # 59

CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
4	84.800 / 3.339	54.20 / 2.134	29.40 / 1.157	+	0.80 / 0.031	1.50 / 0.059	59.00 / 2.323
						1.75 / 0.069	
						3.00 / 0.118	20.00 / 0.787

PISTON RING #: SWF30005

Total Clearance mm	Total Clearance inch
-0.03	-0.00118



Cir Clip: NONE

SURFACE TREATMENT: NONE

T03: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.780	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	84.7700 / 3.33740	85.0200 / 3.34724	85.2700 / 3.35709	85.5200 / 3.36693	85.7700 / 3.37677
GREEN:	84.7900 / 3.33819	85.0400 / 3.34803	85.2900 / 3.35787	85.5400 / 3.36772	85.7900 / 3.37756

REMARKS:
Measure for CYL Clearance: 11.00 mm / 0.433 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

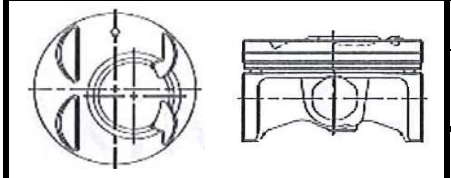
11-866

PAGE # 3 163

CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
4	86.000 / 3.386	54.00 / 2.126	29.50 / 1.161	+	2.50 / 0.098	1.20 / 0.047	52.20 / 2.055
				-	2.40 / 0.094	1.20 / 0.047	
						2.00 / 0.079	21.97 / 0.865

PISTON RING #: SWH30454

Total Clearance mm	Total Clearance inch
-0.03	-0.00118



Cir Clip:

SURFACE TREATMENT: NONE

T01: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
85.970	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	85.9630 / 3.38437	86.2130 / 3.39421	86.4630 / 3.40406	86.7130 / 3.41390	86.9630 / 3.42374
RED:	85.9765 / 3.38490	86.2265 / 3.39474	86.4765 / 3.40459	86.7265 / 3.41443	86.9765 / 3.42427
BLUE:	85.9695 / 3.38463	86.2195 / 3.39447	86.4695 / 3.40431	86.7195 / 3.41415	86.9695 / 3.42400

REMARKS:
Measure for CYL Clearance: 5.00 mm / 0.197 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

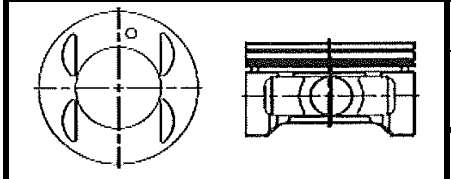
11-867

PAGE # 193 263

CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
6	92.000 / 3.622	54.50 / 2.146	31.20 / 1.228	-	0.60 / 0.024	1.20 / 0.047	56.00 / 2.205
						1.20 / 0.047	
						3.00 / 0.118	22.00 / 0.866

PISTON RING #: SWT10228

Total Clearance mm	Total Clearance inch
-0.03	-0.00118



Cir Clip:

SURFACE TREATMENT: Anodized Head

T03: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
97.170	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	97.1600 / 3.82520	97.4100 / 3.83504	97.6600 / 3.84488	97.9100 / 3.85472	98.1600 / 3.86457
GREEN:	97.1800 / 3.82598	97.4300 / 3.83583	97.6800 / 3.84567	97.9300 / 3.85551	98.1800 / 3.86535

REMARKS:
Measure for CYL Clearance: 9.40 mm / 0.370 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

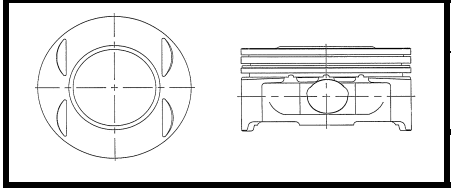
11-868

PAGE # 205

CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
6	89.000 / 3.504	52.60 / 2.071	30.00 / 1.181	+	1.00 / 0.039	1.20 / 0.047	60.50 / 2.382
						1.50 / 0.059	
						2.50 / 0.098	21.01 / 0.827

PISTON RING #: SWF30021

Total Clearance mm	Total Clearance inch
-0.03	-0.00118



Cir Clip:

SURFACE TREATMENT: NONE

T03: Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9600 / 3.50236	89.2100 / 3.51220	89.4600 / 3.52205	89.7100 / 3.53189	89.9600 / 3.54173
GREEN:	88.9800 / 3.50315	89.2300 / 3.51299	89.4800 / 3.52283	89.7300 / 3.53268	89.9800 / 3.54252

REMARKS:
Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

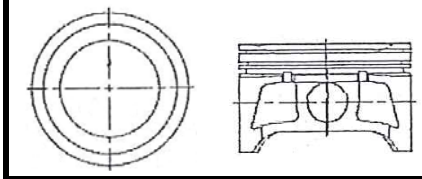
PISTON DIAMETER MEASURING POINT EXPLANATION

11-869

PAGE # 223

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-869	4	80.000 / 3.150	53.70 / 2.114	29.10 / 1.146	-	4.70 / 0.185	1.20 / 0.047	51.50 / 2.028
							1.20 / 0.047	
							2.50 / 0.098	19.00 / 0.748

PISTON RING #	Total Clearance mm	Total Clearance inch
SWN30142	-0.03	-0.00118



Cir Clip

T03

SURFACE TREATMENT: Anodized Head

NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
79.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	79.9600 / 3.14803	80.2100 / 3.15787	80.4600 / 3.16772	80.7100 / 3.17756	80.9600 / 3.18740
GREEN:	79.9800 / 3.14882	80.2300 / 3.15866	80.4800 / 3.16850	80.7300 / 3.17835	80.9800 / 3.18819

REMARKS:
Measure for CYL Clearance: 12.50 mm / 0.492 inch from Bottom of Skirt.

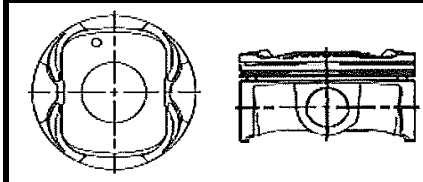
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-870

PAGE # 193 263

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-870	6	94.000 / 3.701	52.50 / 2.067	31.30 / 1.232	+	2.10 / 0.083	1.20 / 0.047	56.00 / 2.205
							1.20 / 0.047	
							2.00 / 0.079	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SDT10194	-0.03	-0.00118



Cir Clip

T03

SURFACE TREATMENT: Anodized Head

Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	93.9600 / 3.69921	94.2100 / 3.70906	94.4600 / 3.71890	94.7100 / 3.72874	94.9600 / 3.73858
GREEN:	93.9800 / 3.70000	94.2300 / 3.70984	94.4800 / 3.71969	94.7300 / 3.72953	94.9800 / 3.73937

REMARKS:
Measure for CYL Clearance: 5.50 mm / 0.217 inch from Bottom of Skirt.

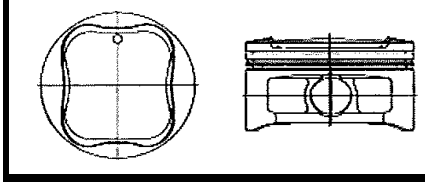
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-871

PAGE # 263

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-871	6	94.000 / 3.701	56.50 / 2.224	32.70 / 1.287	+	2.80 / 0.110	1.20 / 0.047	62.00 / 2.441
							1.20 / 0.047	
							2.00 / 0.079	22.00 / 0.866

PISTON RING #	Total Clearance mm	Total Clearance inch
SWT10195	-0.03	-0.00118



Cir Clip

C17

SURFACE TREATMENT: Anodized Head

Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	93.9600 / 3.69921	94.2100 / 3.70906	94.4600 / 3.71890	94.7100 / 3.72874	94.9600 / 3.73858
GREEN:	93.9800 / 3.70000	94.2300 / 3.70984	94.4800 / 3.71969	94.7300 / 3.72953	94.9800 / 3.73937

REMARKS:
Measure for CYL Clearance: 8.00 mm / 0.315 inch from Bottom of Skirt.

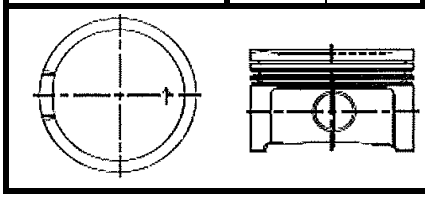
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

11-872

PAGE # 9 269

NOA PISTON PART #	CYL	BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-872	4	81.000 / 3.189	53.70 / 2.114	32.70 / 1.287	-	1.90 / 0.075	1.50 / 0.059	50.00 / 1.969
							1.75 / 0.069	
							2.00 / 0.079	19.00 / 0.748

PISTON RING #	Total Clearance mm	Total Clearance inch
SWE50744	-0.03	-0.00118



Cir Clip

J05

SURFACE TREATMENT: Anodized Head

Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
80.980	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	80.9700 / 3.18780	81.2200 / 3.19764	81.4700 / 3.20748	81.7200 / 3.21732	81.9700 / 3.22717
GREEN:	80.9900 / 3.18858	81.2400 / 3.19843	81.4900 / 3.20827	81.7400 / 3.21811	81.9900 / 3.22795

REMARKS:
Measure for CYL Clearance: 8.00 mm / 0.315 inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 47						
11-873	8	99.500 / 3.917	58.70 / 2.311	30.70 / 1.209	+	4.00 / 0.157	1.50 / 0.059	71.00 / 2.795
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059	
SWC10016		-0.03	-0.00118				3.00 / 0.118	24.00 / 0.945
						Cir Clip		
						NONE	SURFACE TREATMENT: Anodized Head	
						J05	Moly Skirt	
		PAGE # 67						
11-874	6	89.000 / 3.504	64.80 / 2.551	40.80 / 1.606	+	1.80 / 0.071	1.50 / 0.059	57.50 / 2.264
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059	
SWF30016		-0.03	-0.00118				3.00 / 0.118	23.17 / 0.912
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						J05	Moly Skirt	
		PAGE # 37						
11-875	6	96.000 / 3.780	62.20 / 2.449	38.20 / 1.504	-	0.60 / 0.024	1.20 / 0.047	61.00 / 2.402
PISTON RING #		Total Clearance mm / inch					1.50 / 0.059	
SWC10013		-0.03	-0.00118				3.00 / 0.118	24.00 / 0.945
						Cir Clip		
						C-Clip	SURFACE TREATMENT: Anodized Head	
						T03	Moly Skirt	
		PAGE # 223						
11-876	4	80.000 / 3.150	53.70 / 2.114	29.20 / 1.150	-	4.80 / 0.189	1.20 / 0.047	52.00 / 2.047
PISTON RING #		Total Clearance mm / inch					1.20 / 0.047	
SWN30142		-0.03	-0.00118				2.50 / 0.098	18.99 / 0.748
						Cir Clip		
						C-Clip	SURFACE TREATMENT: Anodized Ring Land	
						T01	NONE	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.470	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	99.4805 / 3.91656	99.7305 / 3.92640	99.9805 / 3.93624	100.2305 / 3.94608	100.4805 / 3.95593
WHITE:	99.4725 / 3.91624	99.7225 / 3.92608	99.9725 / 3.93593	100.2225 / 3.94577	100.4725 / 3.95561
BLUE:	99.4595 / 3.91573	99.7095 / 3.92557	99.9595 / 3.93541	100.2095 / 3.94526	100.4595 / 3.95510
GREEN:	99.4675 / 3.91604	99.7175 / 3.92589	99.9675 / 3.93573	100.2175 / 3.94557	100.4675 / 3.95541

REMARKS:
Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.970	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	88.9805 / 3.50317	89.2305 / 3.51301	89.4805 / 3.52285	89.7305 / 3.53270	89.9805 / 3.54254
WHITE:	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254	89.7225 / 3.53238	89.9725 / 3.54222
BLUE:	88.9595 / 3.50234	89.2095 / 3.51219	89.4595 / 3.52203	89.7095 / 3.53187	89.9595 / 3.54171
GREEN:	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234	89.7175 / 3.53219	89.9675 / 3.54203

REMARKS:
Measure for CYL Clearance: 11.00 mm / 0.433 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	95.9600 / 3.77795	96.2100 / 3.78780	96.4600 / 3.79764	96.7100 / 3.80748	96.9600 / 3.81732
GREEN:	95.9800 / 3.77874	96.2300 / 3.78858	96.4800 / 3.79843	96.7300 / 3.80827	96.9800 / 3.81811

REMARKS:
Measure for CYL Clearance: 9.00 mm / 0.354 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
79.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	79.9730 / 3.14854	80.2230 / 3.15839	80.4730 / 3.16823	80.7230 / 3.17807	80.9730 / 3.18791
RED:	79.9865 / 3.14907	80.2365 / 3.15892	80.4865 / 3.16876	80.7365 / 3.17860	80.9865 / 3.18844
BLUE:	79.9795 / 3.14880	80.2295 / 3.15864	80.4795 / 3.16848	80.7295 / 3.17833	80.9795 / 3.18817

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 233						
11-878	6	95.500 / 3.760	55.10 / 2.169	31.60 / 1.244	-	3.00 / 0.118	1.20 / 0.047	58.00 / 2.283
PISTON RING # SWN30131		Total Clearance mm / inch: -0.03 / -0.00118					1.20 / 0.047	
							2.50 / 0.098	21.99 / 0.866
						Cir Clip		
							SURFACE TREATMENT: Anodized Head	
						T01	Moly Skirt	
		PAGE # 175 233						
11-879	8	98.000 / 3.858	52.00 / 2.047	31.60 / 1.244	-	4.20 / 0.165	1.50 / 0.059	59.60 / 2.346
PISTON RING # SWN30149		Total Clearance mm / inch: -0.03 / -0.00118					1.50 / 0.059	
							2.50 / 0.098	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: Anodized Head	
						T03	Moly Skirt	
		PAGE # 261						
11-880	4	95.000 / 3.740	59.30 / 2.335	39.30 / 1.547	-	8.60 / 0.339	1.20 / 0.047	62.00 / 2.441
PISTON RING # SDT10193		Total Clearance mm / inch: -0.03 / -0.00118			-	4.50 / 0.177	1.20 / 0.047	
					-	2.22 / 0.087	2.00 / 0.079	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: Anodized Head	
						C17	Moly Skirt	
		PAGE # 227 249						
11-881	4	89.000 / 3.504	61.50 / 2.421	32.90 / 1.295	+	5.90 / 0.232	1.20 / 0.047	57.00 / 2.244
PISTON RING # TBA		Total Clearance mm / inch: -0.03 / -0.00118					1.20 / 0.047	
							2.50 / 0.098	19.99 / 0.787
						Cir Clip		
							SURFACE TREATMENT: Anodized Ring Land	
						T01	Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.470	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	95.4630 / 3.75839	95.7130 / 3.76823	95.9630 / 3.77807	96.2130 / 3.78791	96.4630 / 3.79776
RED:	95.4765 / 3.75892	95.7265 / 3.76876	95.9765 / 3.77860	96.2265 / 3.78844	96.4765 / 3.79829
BLUE:	95.4695 / 3.75864	95.7195 / 3.76848	95.9695 / 3.77833	96.2195 / 3.78817	96.4695 / 3.79801
REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
97.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	97.9600 / 3.85669	98.2100 / 3.86654	98.4600 / 3.87638	98.7100 / 3.88622	98.9600 / 3.89606
GREEN:	97.9800 / 3.85748	98.2300 / 3.86732	98.4800 / 3.87717	98.7300 / 3.88701	98.9800 / 3.89685
REMARKS: Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	94.9775 / 3.73927	95.2275 / 3.74911	95.4775 / 3.75896	95.7275 / 3.76880	95.9775 / 3.77864
RED:	94.9675 / 3.73888	95.2175 / 3.74872	95.4675 / 3.75856	95.7175 / 3.76841	95.9675 / 3.77825
BLUE:	94.9625 / 3.73868	95.2125 / 3.74852	95.4625 / 3.75837	95.7125 / 3.76821	95.9625 / 3.77805
GREEN:	94.9725 / 3.73907	95.2225 / 3.74892	95.4725 / 3.75876	95.7225 / 3.76860	95.9725 / 3.77844
REMARKS: Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
88.970	Tolorance is + / - (mm | inch) :			0.01	0.00039
RED:	88.9600 / 3.50236	89.2100 / 3.51220	89.4600 / 3.52205	89.7100 / 3.53189	89.9600 / 3.54173
GREEN:	88.9800 / 3.50315	89.2300 / 3.51299	89.4800 / 3.52283	89.7300 / 3.53268	89.9800 / 3.54252
REMARKS: Measure for CYL Clearance: 9.50 mm / 0.374 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 163						
11-882	4	86.000 3.386	55.80 2.197	30.00 1.181	+	3.80 0.150	1.20 0.047	52.50 2.067
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
TBA		-0.03	-0.00118				2.00 0.079	21.970 0.865
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	Moly Skirt
		PAGE # 249						
11-883	6	84.000 3.307	58.90 2.319	29.40 1.157	-	4.90 0.193	1.20 0.047	58.00 2.283
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWS20178		-0.03	-0.00118				2.50 0.098	21.00 0.827
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	NONE
		PAGE # 147	149			151		
11-884	8	103.000 4.055	89.82 3.536	49.82 1.961	-	15.20 0.598	2.95 0.116	81.00 3.189
PISTON RING #		Total Clearance mm	inch				2.00 0.079	
SDI10183		TBA	TBA				3.00 0.118	34.50 1.358
						Cir Clip		
						D04	SURFACE TREATMENT: NONE	Moly Skirt
		PAGE # 51	87					
11-885	8	107.000 4.213	103.20 4.063	69.40 2.732	-	22.00 0.866	3.00 0.118	90.50 3.563
PISTON RING #		Total Clearance mm	inch				2.35 0.093	
SDC10023		-0.12	-0.00472				4.00 0.157	40.00 1.575
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	NONE

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
84.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	83.9775 3.30620	84.2275 3.31604	84.4775 3.32589	84.7275 3.33573	84.9775 3.34557
RED:	83.9675 3.30581	84.2175 3.31565	84.4675 3.32549	84.7175 3.33533	84.9675 3.34518
BLUE:	83.9625 3.30561	84.2125 3.31545	84.4625 3.32530	84.7125 3.33514	84.9625 3.34498
GREEN:	83.9725 3.30600	84.2225 3.31585	84.4725 3.32569	84.7225 3.33553	84.9725 3.34537

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	Tolorance is + / - (mm | inch) :			0.01	0.00039

REMARKS:
Measure for CYL Clearance: **20.00** mm / **0.787** inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
107.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	106.9775 4.21171	107.2275 4.22156	107.4775 4.23140	107.7275 4.24124	107.9775 4.25108
RED:	106.9675 4.21132	107.2175 4.22116	107.4675 4.23100	107.7175 4.24085	107.9675 4.25069
BLUE:	106.9625 4.21112	107.2125 4.22096	107.4625 4.23081	107.7125 4.24065	107.9625 4.25049
GREEN:	106.9725 4.21152	107.2225 4.22136	107.4725 4.23120	107.7225 4.24104	107.9725 4.25089

REMARKS:
Measure for CYL Clearance: **20.00** mm / **0.787** inch from Bottom of Skirt.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 85						
11-886	8	98.200 / 3.866	78.90 / 3.106	52.15 / 2.053	-	15.95 / 0.628	2.50 / 0.098	75.00 / 2.953
PISTON RING #		Total Clearance mm	inch				2.00 / 0.079	
SDF30022		-0.06	-0.00236				3.00 / 0.118	38.50 / 1.516
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	Moly Skirt
		PAGE # 113						
11-887	6	92.000 / 3.622	50.60 / 1.992	30.60 / 1.205	-	5.50 / 0.217	1.20 / 0.047	60.00 / 2.362
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWG10001		-0.04	-0.00157				4.00 / 0.157	23.00 / 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	Moly Skirt
						J05		
		PAGE # 119 121						
11-888	6	96.520 / 3.800	53.30 / 2.098	27.40 / 1.079	-	1.30 / 0.051	1.20 / 0.047	65.50 / 2.579
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWG10003		-0.03	-0.00118				2.00 / 0.079	22.00 / 0.866
						Cir Clip		
							SURFACE TREATMENT: NONE	
						J05	NONE	
		PAGE # 143						
11-889	8	101.600 / 4.000	57.90 / 2.280	33.90 / 1.335	-	1.40 / 0.055	1.20 / 0.047	65.00 / 2.559
PISTON RING #		Total Clearance mm	inch				1.50 / 0.059	
SWG10031		-0.03	-0.00118				2.00 / 0.079	23.96 / 0.943
						Cir Clip		
							SURFACE TREATMENT: NONE	
						J05	Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
98.200	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	98.1775 / 3.86526	98.4275 / 3.87510	98.6775 / 3.88494	98.9275 / 3.89478	99.1775 / 3.90463
RED:	98.1675 / 3.86486	98.4175 / 3.87470	98.6675 / 3.88455	98.9175 / 3.89439	99.1675 / 3.90423
BLUE:	98.1625 / 3.86467	98.4125 / 3.87451	98.6625 / 3.88435	98.9125 / 3.89419	99.1625 / 3.90404
GREEN:	98.1725 / 3.86506	98.4225 / 3.87490	98.6725 / 3.88474	98.9225 / 3.89459	99.1725 / 3.90443
REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
91.960	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	91.9705 / 3.62089	92.2205 / 3.63073	92.4705 / 3.64057	92.7205 / 3.65041	92.9705 / 3.66026
WHITE:	91.9625 / 3.62057	92.2125 / 3.63041	92.4625 / 3.64026	92.7125 / 3.65010	92.9625 / 3.65994
BLUE:	91.9495 / 3.62006	92.1995 / 3.62990	92.4495 / 3.63974	92.6995 / 3.64959	92.9495 / 3.65943
GREEN:	91.9575 / 3.62037	92.2075 / 3.63022	92.4575 / 3.64006	92.7075 / 3.64990	92.9575 / 3.65974
REMARKS: Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
96.470	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	96.4750 / 3.79823	96.7250 / 3.80807	96.9750 / 3.81791	97.2250 / 3.82776	97.4750 / 3.83760
WHITE:	96.4725 / 3.79813	96.7225 / 3.80797	96.9725 / 3.81781	97.2225 / 3.82766	97.4725 / 3.83750
BLUE:	96.4650 / 3.79783	96.7150 / 3.80768	96.9650 / 3.81752	97.2150 / 3.82736	97.4650 / 3.83720
GREEN:	96.4675 / 3.79793	96.7175 / 3.80778	96.9675 / 3.81762	97.2175 / 3.82746	97.4675 / 3.83730
REMARKS: Measure for CYL Clearance: 12.00 mm / 0.472 inch from Bottom of Skirt.					
101.400	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	101.4050 / 3.99232	101.6550 / 4.00217	101.9050 / 4.01201	102.1550 / 4.02185	102.4050 / 4.03169
WHITE:	101.4025 / 3.99222	101.6525 / 4.00207	101.9025 / 4.01191	102.1525 / 4.02175	102.4025 / 4.03159
BLUE:	101.3950 / 3.99193	101.6450 / 4.00177	101.8950 / 4.01161	102.1450 / 4.02146	102.3950 / 4.03130
GREEN:	101.3975 / 3.99203	101.6475 / 4.00187	101.8975 / 4.01171	102.1475 / 4.02156	102.3975 / 4.03140
REMARKS: Measure for CYL Clearance: 13.00 mm / 0.512 inch from Bottom of Skirt. CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-890	4	73.000 2.874	49.40 1.945	26.20 1.031	+	1.70 0.067	1.00 0.039	54.00 2.126
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
TBA		-0.02	-0.00079				2.00 0.079	18.00 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						J05	Moly Skirt	
11-891	4	81.000 3.189	49.40 1.945	28.88 1.137	-	2.00 0.079	1.20 0.047	46.00 1.811
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWH30484		-0.02	-0.00079				2.00 0.079	19.96 0.786
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Ring Land	
						T01	Graphite Skirt	
11-892	6	86.700 3.413	54.00 2.126	30.50 1.201	-	0.60 0.024	1.20 0.047	59.00 2.323
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWG30045		-0.02	-0.00079				2.00 0.079	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						T01	Moly Skirt	
11-893	4	78.000 3.071	46.80 1.843	28.50 1.122	-	4.50 0.177	1.20 0.047	53.50 2.106
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWN30196		-0.03	-0.00118				2.00 0.079	19.00 0.748
						Cir Clip		
						NONE	SURFACE TREATMENT	
							Anodized Head	
						T01	Moly Skirt	

PISTON DIAMETER MEASURING POINT EXPLANATION

PAGE #	COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
159	72.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
	YELLOW:	72.9850 2.87343	73.2350 2.88327	73.4850 2.89311	73.7350 2.90295	73.9850 2.91280
	WHITE:	72.9825 2.87333	73.2325 2.88317	73.4825 2.89301	73.7325 2.90285	73.9825 2.91270
	BLUE:	72.9750 2.87303	73.2250 2.88287	73.4750 2.89272	73.7250 2.90256	73.9750 2.91240
	GREEN:	72.9775 2.87313	73.2275 2.88297	73.4775 2.89281	73.7275 2.90266	73.9775 2.91250
	REMARKS:					
	Measure for CYL Clearance:	6.00 mm 0.236 inch			from Bottom of Skirt.	
	CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
161	80.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
	YELLOW:	80.9730 3.18791	81.2230 3.19776	81.4730 3.20760	81.7230 3.21744	81.9730 3.22728
	RED:	80.9865 3.18844	81.2365 3.19829	81.4865 3.20813	81.7365 3.21797	81.9865 3.22781
	BLUE:	80.9795 3.18817	81.2295 3.19801	81.4795 3.20785	81.7295 3.21770	81.9795 3.22754
	REMARKS:					
	Measure for CYL Clearance:	6.00 mm 0.236 inch			from Bottom of Skirt.	
	CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
169 187	86.680	Tolorance is + / - (mm | inch) :			0.003	0.00012
	YELLOW:	86.6730 3.41232	86.9230 3.42217	87.1730 3.43201	87.4230 3.44185	87.6730 3.45169
	RED:	86.6865 3.41285	86.9365 3.42270	87.1865 3.43254	87.4365 3.44238	87.6865 3.45222
	BLUE:	86.6795 3.41258	86.9295 3.42242	87.1795 3.43226	87.4295 3.44211	87.6795 3.45195
	REMARKS:					
	Measure for CYL Clearance:	5.00 mm 0.197 inch			from Bottom of Skirt.	
	CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					
223	77.970	Tolorance is + / - (mm | inch) :			0.003	0.00012
	YELLOW:	77.9630 3.06941	78.2130 3.07925	78.4630 3.08909	78.7130 3.09894	78.9630 3.10878
	RED:	77.9765 3.06994	78.2265 3.07978	78.4765 3.08963	78.7265 3.09947	78.9765 3.10931
	BLUE:	77.9695 3.06967	78.2195 3.07951	78.4695 3.08935	78.7195 3.09919	78.9695 3.10904
	REMARKS:					
	Measure for CYL Clearance:	8.00 mm 0.315 inch			from Bottom of Skirt.	
	CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.					

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-894	4	89.000 / 3.504	53.50 / 2.106	32.40 / 1.276	-	6.60 / 0.260	1.20 / 0.047	57.00 / 2.244
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SWN30189		-0.03	-0.00118				2.00 / 0.079	20.00 / 0.787
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head; Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
89.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	88.9775 / 3.50305	89.2275 / 3.51289	89.4775 / 3.52274	89.7275 / 3.53258	89.9775 / 3.54242
RED:	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234	89.7175 / 3.53219	89.9675 / 3.54203
BLUE:	88.9625 / 3.50246	89.2125 / 3.51230	89.4625 / 3.52215	89.7125 / 3.53199	89.9625 / 3.54183
GREEN:	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254	89.7225 / 3.53238	89.9725 / 3.54222

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PAGE # 253

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-895	4	75.000 / 2.953	49.50 / 1.949	30.70 / 1.209	-	3.30 / 0.130	1.20 / 0.047	53.00 / 2.087
PISTON RING #		Total Clearance mm	inch				1.20 / 0.047	
SDT10222		-0.02	-0.00079				2.00 / 0.079	18.00 / 0.709
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	0.0050 / 0.00020	0.2550 / 0.01004	0.5050 / 0.01988	0.7550 / 0.02972	1.0050 / 0.03957
WHITE:	0.0025 / 0.00010	0.2525 / 0.00994	0.5025 / 0.01978	0.7525 / 0.02963	1.0025 / 0.03947
BLUE:	-0.0050 / -0.00020	0.2450 / 0.00965	0.4950 / 0.01949	0.7450 / 0.02933	0.9950 / 0.03917
GREEN:	-0.0025 / -0.00010	0.2475 / 0.00974	0.4975 / 0.01959	0.7475 / 0.02943	0.9975 / 0.03927

REMARKS:
Measure for CYL Clearance: mm / inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PAGE # 237 259

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-896	4	88.500 / 3.484	55.80 / 2.197	35.80 / 1.409	-	7.80 / 0.307	1.00 / 0.039	56.00 / 2.205
PISTON RING #		Total Clearance mm	inch				1.00 / 0.039	
SDT10200		-0.03	-0.00118				2.00 / 0.079	22.00 / 0.866
						Cir Clip		
						T01	SURFACE TREATMENT: Anodized Head; Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
88.470	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	88.4630 / 3.48280	88.7130 / 3.49264	88.9630 / 3.50248	89.2130 / 3.51232	89.4630 / 3.52217
RED:	88.4765 / 3.48333	88.7265 / 3.49317	88.9765 / 3.50301	89.2265 / 3.51285	89.4765 / 3.52270
BLUE:	88.4695 / 3.48305	88.7195 / 3.49289	88.9695 / 3.50274	89.2195 / 3.51258	89.4695 / 3.52242

REMARKS:
Measure for CYL Clearance: 6.00 mm / 0.236 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PAGE # 237 259

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
11-897	4	90.000 / 3.543	53.30 / 2.098	34.80 / 1.370	+	3.70 / 0.146	1.00 / 0.039	56.00 / 2.205
PISTON RING #		Total Clearance mm	inch		-	4.40 / 0.173	1.00 / 0.039	
SDT09000		-0.03	-0.00118				2.00 / 0.079	22.00 / 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head; Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
89.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	88.9775 / 3.50305	89.2275 / 3.51289	89.4775 / 3.52274	89.7275 / 3.53258	89.9775 / 3.54242
RED:	88.9675 / 3.50266	89.2175 / 3.51250	89.4675 / 3.52234	89.7175 / 3.53219	89.9675 / 3.54203
BLUE:	88.9625 / 3.50246	89.2125 / 3.51230	89.4625 / 3.52215	89.7125 / 3.53199	89.9625 / 3.54183
GREEN:	88.9725 / 3.50285	89.2225 / 3.51270	89.4725 / 3.52254	89.7225 / 3.53238	89.9725 / 3.54222

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION: BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 201						
11-898	4	87.500 3.445	51.00 2.008	28.50 1.122	-	2.00 0.079	1.20 0.047	60.00 2.362
PISTON RING # SWT20089		Total Clearance mm: -0.03	inch: -0.00118				1.20 0.047	
							2.50 0.098	21.00 0.827
						Cir Clip: NONE	SURFACE TREATMENT: Anodized Head	
						C17	Moly Skirt	
		PAGE # 127	135	235				
11-899	8	96.000 3.780	59.30 2.335	33.60 1.323			1.50 0.059	65.00 2.559
PISTON RING # SWG10005		Total Clearance mm: -0.02	inch: -0.00079				1.50 0.059	
							3.00 0.118	23.96 0.943
						Cir Clip		
						SURFACE TREATMENT: Anodized Head		
						J05	Moly Skirt	
		PAGE # 127	133	135				
11-900	8	96.000 3.780	64.80 2.551	33.60 1.323	-	1.80 0.071	1.50 0.059	63.50 2.500
PISTON RING # SWG10005		Total Clearance mm: -0.02	inch: -0.00079				1.50 0.059	
							3.00 0.118	23.96 0.943
						Cir Clip		
						SURFACE TREATMENT: NONE		
						J05	Moly Skirt	
		PAGE # 167	185					
11-901	4	82.000 3.228	57.90 2.280	31.10 1.224	+	0.30 0.012	1.20 0.047	59.00 2.323
PISTON RING # SWG30054		Total Clearance mm: -0.03	inch: -0.00118				1.20 0.047	
							2.00 0.079	20.00 0.787
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						T01	Graphite Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368	88.2275 3.47352	88.4775 3.48337
RED:	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329	88.2175 3.47313	88.4675 3.48297
BLUE:	87.4625 3.44341	87.7125 3.45325	87.9625 3.46309	88.2125 3.47293	88.4625 3.48278
GREEN:	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348	88.2225 3.47333	88.4725 3.48317

REMARKS: Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	95.9850 3.77894	96.2350 3.78878	96.4850 3.79862	96.7350 3.80846	96.9850 3.81831
WHITE:	95.9825 3.77884	96.2325 3.78868	96.4825 3.79852	96.7325 3.80837	96.9825 3.81821
BLUE:	95.9750 3.77854	96.2250 3.78839	96.4750 3.79823	96.7250 3.80807	96.9750 3.81791
GREEN:	95.9775 3.77864	96.2275 3.78848	96.4775 3.79833	96.7275 3.80817	96.9775 3.81801

REMARKS: Measure for CYL Clearance: **16.00** mm / **0.630** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.980	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	95.9850 3.77894	96.2350 3.78878	96.4850 3.79862	96.7350 3.80846	96.9850 3.81831
WHITE:	95.9825 3.77884	96.2325 3.78868	96.4825 3.79852	96.7325 3.80837	96.9825 3.81821
BLUE:	95.9750 3.77854	96.2250 3.78839	96.4750 3.79823	96.7250 3.80807	96.9750 3.81791
GREEN:	95.9775 3.77864	96.2275 3.78848	96.4775 3.79833	96.7275 3.80817	96.9775 3.81801

REMARKS: Measure for CYL Clearance: **25.00** mm / **0.984** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
81.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	81.9730 3.22728	82.2230 3.23713	82.4730 3.24697	82.7230 3.25681	82.9730 3.26665
RED:	81.9865 3.22781	82.2365 3.23766	82.4865 3.24750	82.7365 3.25734	82.9865 3.26719
BLUE:	81.9795 3.22754	82.2295 3.23738	82.4795 3.24722	82.7295 3.25707	82.9795 3.26691

REMARKS: Measure for CYL Clearance: **5.00** mm / **0.197** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ / -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 43	219					
11-902	8	93.000 3.661	56.50 2.224	35.40 1.394	+	5.30 0.209	1.20 0.047	58.00 2.283
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWG10011		-0.02	-0.00079				2.50 0.098	23.00 0.906
						Cir Clip		
						NONE	SURFACE TREATMENT	
							Anodized Head	
						J05	Moly Skirt	
		PAGE # 75						
11-903	8	90.200 3.551	52.50 2.067	31.00 1.220	+	1.30 0.051	1.50 0.059	62.00 2.441
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWF30006		-0.02	-0.00079				3.00 0.118	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Head	
						J05	Moly Skirt	
		PAGE # 145						
11-904	8	103.250 4.065	56.00 2.205	34.00 1.339	-	3.70 0.146	1.50 0.059	65.00 2.559
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
TBA		-0.02	-0.00079				2.50 0.098	23.96 0.943
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Head	
						J05	Moly Skirt	
		PAGE # 165						
11-905	4	87.000 3.425	57.40 2.260	28.80 1.134	+	4.20 0.165	1.20 0.047	52.00 2.047
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWH30488		-0.03	-0.00118				2.00 0.079	21.97 0.865
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
92.950	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	92.9550 3.65965	93.2050 3.66949	93.4550 3.67933	93.7050 3.68917	93.9550 3.69902
WHITE:	92.9525 3.65955	93.2025 3.66939	93.4525 3.67923	93.7025 3.68907	93.9525 3.69892
BLUE:	92.9450 3.65925	93.1950 3.66909	93.4450 3.67894	93.6950 3.68878	93.9450 3.69862
GREEN:	92.9475 3.65935	93.1975 3.66919	93.4475 3.67904	93.6975 3.68888	93.9475 3.69872

REMARKS:
Measure for CYL Clearance: 8.00 mm / 0.315 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
90.180	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	90.1850 3.55059	90.4350 3.56043	90.6850 3.57028	90.9350 3.58012	91.1850 3.58996
WHITE:	90.1825 3.55049	90.4325 3.56033	90.6825 3.57018	90.9325 3.58002	91.1825 3.58986
BLUE:	90.1750 3.55020	90.4250 3.56004	90.6750 3.56988	90.9250 3.57972	91.1750 3.58957
GREEN:	90.1775 3.55030	90.4275 3.56014	90.6775 3.56998	90.9275 3.57982	91.1775 3.58967

REMARKS:
Measure for CYL Clearance: 9.00 mm / 0.354 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
103.220	Tolorance is + / - (mm | inch) :			0.0045	0.00018
YELLOW:	103.2250 4.06398	103.4750 4.07382	103.7250 4.08366	103.9750 4.09350	104.2250 4.10335
WHITE:	103.2225 4.06388	103.4725 4.07372	103.7225 4.08356	103.9725 4.09341	104.2225 4.10325
BLUE:	103.2150 4.06358	103.4650 4.07343	103.7150 4.08327	103.9650 4.09311	104.2150 4.10295
GREEN:	103.2175 4.06368	103.4675 4.07352	103.7175 4.08337	103.9675 4.09321	104.2175 4.10305

REMARKS:
Measure for CYL Clearance: 9.00 mm / 0.354 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
87.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	86.9775 3.42431	87.2275 3.43415	87.4775 3.44400	87.7275 3.45384	87.9775 3.46368
RED:	86.9675 3.42392	87.2175 3.43376	87.4675 3.44360	87.7175 3.45344	87.9675 3.46329
BLUE:	86.9625 3.42372	87.2125 3.43356	87.4625 3.44341	87.7125 3.45325	87.9625 3.46309
GREEN:	86.9725 3.42411	87.2225 3.43396	87.4725 3.44380	87.7225 3.45364	87.9725 3.46348

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-906	6	89.000 3.504	51.30 2.020	29.40 1.157	-	0.30 0.012	1.20 0.047	54.00 2.126
PISTON RING #	Total Clearance mm	inch					1.20 0.047	
SWH30438	-0.03	-0.00118					2.80 0.110	21.97 0.865
						Cir Clip		
							SURFACE TREATMENT	
						C17	NONE Moly Skirt	
11-907	6	95.500 3.760	49.60 1.953	29.00 1.142	-	2.20 0.087	1.20 0.047	54.00 2.126
PISTON RING #	Total Clearance mm	inch					1.20 0.047	
SWN30191	-0.03	-0.00118					2.00 0.079	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
						C17	Anodized Head Moly Skirt	
11-908	4	88.000 3.465	51.50 2.028	27.20 1.071	-	1.50 0.059	1.20 0.047	58.00 2.283
PISTON RING #	Total Clearance mm	inch			-	3.30 0.130	1.20 0.047	
SWG30041	-0.03	-0.00118					2.00 0.079	21.00 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT	
						C17	NONE Moly Skirt	
11-909	4	86.000 3.386	53.00 2.087	29.70 1.169	-	0.40 0.016	1.20 0.047	58.00 2.283
PISTON RING #	Total Clearance mm	inch			-	1.50 0.059	1.20 0.047	
SWG30042	-0.03	-0.00118			-	3.10 0.122	2.00 0.079	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
						C17	Anodized Head Moly Skirt	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
PAGE # 165	**89.000**	**Tolorance is + / - (mm | inch) :**		**0.0025**	**0.00010**
YELLOW:	88.9775 3.50305	89.2275 3.51289	89.4775 3.52274	89.7275 3.53258	89.9775 3.54242
RED:	88.9675 3.50266	89.2175 3.51250	89.4675 3.52234	89.7175 3.53219	89.9675 3.54203
BLUE:	88.9625 3.50246	89.2125 3.51230	89.4625 3.52215	89.7125 3.53199	89.9625 3.54183
GREEN:	88.9725 3.50285	89.2225 3.51270	89.4725 3.52254	89.7225 3.53238	89.9725 3.54222
PAGE # 231	**95.500**	**Tolorance is + / - (mm | inch) :**		**0.0025**	**0.00010**
YELLOW:	95.4775 3.75896	95.7275 3.76880	95.9775 3.77864	96.2275 3.78848	96.4775 3.79833
RED:	95.4675 3.75856	95.7175 3.76841	95.9675 3.77825	96.2175 3.78809	96.4675 3.79793
BLUE:	95.4625 3.75837	95.7125 3.76821	95.9625 3.77805	96.2125 3.78789	96.4625 3.79774
GREEN:	95.4725 3.75876	95.7225 3.76860	95.9725 3.77844	96.2225 3.78829	96.4725 3.79813
PAGE # 23 169 187 215	**88.000**	**Tolorance is + / - (mm | inch) :**		**0.0025**	**0.00010**
YELLOW:	87.9775 3.46368	88.2275 3.47352	88.4775 3.48337	88.7275 3.49321	88.9775 3.50305
RED:	87.9675 3.46329	88.2175 3.47313	88.4675 3.48297	88.7175 3.49281	88.9675 3.50266
BLUE:	87.9625 3.46309	88.2125 3.47293	88.4625 3.48278	88.7125 3.49262	88.9625 3.50246
GREEN:	87.9725 3.46348	88.2225 3.47333	88.4725 3.48317	88.7225 3.49301	88.9725 3.50285
PAGE # 17 167 185 213	**86.000**	**Tolorance is + / - (mm | inch) :**		**0.0025**	**0.00010**
YELLOW:	85.9775 3.38494	86.2275 3.39478	86.4775 3.40463	86.7275 3.41447	86.9775 3.42431
RED:	85.9675 3.38455	86.2175 3.39439	86.4675 3.40423	86.7175 3.41407	86.9675 3.42392
BLUE:	85.9625 3.38435	86.2125 3.39419	86.4625 3.40404	86.7125 3.41388	86.9625 3.42372
GREEN:	85.9725 3.38474	86.2225 3.39459	86.4725 3.40443	86.7225 3.41427	86.9725 3.42411

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

PISTON DIAMETER MEASURING POINT EXPLANATION

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST / 2ND OIL1 / OIL2	PIN LENGTH / DIA. mm
		PAGE # 235	245					
11-910	4	99.500 3.917	51.30 2.020	30.40 1.197	-	3.20 0.126	1.20 0.047	64.00 2.520
PISTON RING # SWF20068		Total Clearance mm	inch		-	4.70 0.185	1.20 0.047	
		-0.03	-0.00118			5.40 0.213	2.00 0.079	23.00 0.906
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head / Moly Skirt	
11-911	4	99.500 3.917	51.40 2.024	30.70 1.209	-	2.00 0.079	1.20 0.047	64.00 2.520
PISTON RING # SWF20068		Total Clearance mm	inch		-	5.10 0.201	1.20 0.047	
		-0.03	-0.00118		-	5.40 0.213	2.00 0.079	22.99 0.905
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head / Moly Skirt	
11-912	8	94.000 3.701	54.70 2.154	33.40 1.315	+	2.30 0.091	1.20 0.047	62.00 2.441
PISTON RING # SWT10240		Total Clearance mm	inch		-	6.10 0.240	1.20 0.047	
		-0.03	-0.00118		-		3.00 0.118	22.00 0.866
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head / Moly Skirt	
11-913	8	99.500 3.917	53.30 2.098	30.00 1.181	+	2.30 0.091	1.20 0.047	75.00 2.953
PISTON RING # SWC10024		Total Clearance mm	inch		-		1.20 0.047	
		-0.03	-0.00118		-		2.00 0.079	24.00 0.945
						Cir Clip		
						NONE	SURFACE TREATMENT: Anodized Head / Moly Skirt	
						C17		

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	99.4775 3.91644	99.7275 3.92628	99.9775 3.93612	100.2275 3.94596	100.4775 3.95581
RED:	99.4675 3.91604	99.7175 3.92589	99.9675 3.93573	100.2175 3.94557	100.4675 3.95541
BLUE:	99.4625 3.91585	99.7125 3.92569	99.9625 3.93553	100.2125 3.94537	100.4625 3.95522
GREEN:	99.4725 3.91624	99.7225 3.92608	99.9725 3.93593	100.2225 3.94577	100.4725 3.95561

REMARKS:
Measure for CYL Clearance: **13.00** mm / **0.512** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	99.4775 3.91644	99.7275 3.92628	99.9775 3.93612	100.2275 3.94596	100.4775 3.95581
RED:	99.4675 3.91604	99.7175 3.92589	99.9675 3.93573	100.2175 3.94557	100.4675 3.95541
BLUE:	99.4625 3.91585	99.7125 3.92569	99.9625 3.93553	100.2125 3.94537	100.4625 3.95522
GREEN:	99.4725 3.91624	99.7225 3.92608	99.9725 3.93593	100.2225 3.94577	100.4725 3.95561

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
94.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	93.9775 3.69990	94.2275 3.70974	94.4775 3.71959	94.7275 3.72943	94.9775 3.73927
RED:	93.9675 3.69951	94.2175 3.70935	94.4675 3.71919	94.7175 3.72904	94.9675 3.73888
BLUE:	93.9625 3.69931	94.2125 3.70915	94.4625 3.71900	94.7125 3.72884	94.9625 3.73868
GREEN:	93.9725 3.69970	94.2225 3.70955	94.4725 3.71939	94.7225 3.72923	94.9725 3.73907

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	99.4775 3.91644	99.7275 3.92628	99.9775 3.93612	100.2275 3.94596	100.4775 3.95581
RED:	99.4675 3.91604	99.7175 3.92589	99.9675 3.93573	100.2175 3.94557	100.4675 3.95541
BLUE:	99.4625 3.91585	99.7125 3.92569	99.9625 3.93553	100.2125 3.94537	100.4625 3.95522
GREEN:	99.4725 3.91624	99.7225 3.92608	99.9725 3.93593	100.2225 3.94577	100.4725 3.95561

REMARKS:
Measure for CYL Clearance: **10.00** mm / **0.394** inch from Bottom of Skirt.

CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
		PAGE # 73						
11-914	6	100.400 3.953	64.70 2.547	36.40 1.433			1.20 0.047	72.50 2.854
PISTON RING #		Total Clearance mm	inch				1.50 0.059	
SWF30012		-0.03	-0.00118				3.00 0.118	24.00 0.945
						Cir Clip		
						NONE	SURFACE TREATMENT	
							NONE	
						C17	Moly Skirt	
		PAGE # 85						
11-915	8				-			
PISTON RING #		Total Clearance mm	inch		-			
		-0.06	-0.00236		-			
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						C17	Moly Skirt	
		PAGE # 39						
11-916	6	96.000 3.780	51.80 2.039	28.70 1.130	-	0.30 0.012	1.20 0.047	52.00 2.047
PISTON RING #		Total Clearance mm	inch				1.20 0.047	
SWC10025		-0.03	-0.00118				2.00 0.079	22.00 0.866
						Cir Clip		
							SURFACE TREATMENT	
							Anodized Head	
						T01	Moly Skirt	
		PAGE # 115						
11-917	6	94.000 3.701	54.90 2.161	32.00 1.260	-	-3.00 -0.118	1.20 0.047	61.00 2.402
PISTON RING #		Total Clearance mm	inch		-		1.50 0.059	
SWG10039		-0.03	-0.00118		-		2.50 0.098	24.00 0.945
						Cir Clip		
							SURFACE TREATMENT	
							NONE	
						T01	Moly Skirt	

PISTON DIAMETER MEASURING POINT EXPLANATION

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
100.400	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	100.3775 3.95187	100.6275 3.96171	100.8775 3.97156	101.1275 3.98140	101.3775 3.99124
RED:	100.3675 3.95148	100.6175 3.96132	100.8675 3.97116	101.1175 3.98100	101.3675 3.99085
BLUE:	100.3625 3.95128	100.6125 3.96112	100.8625 3.97096	101.1125 3.98081	101.3625 3.99065
GREEN:	100.3725 3.95167	100.6225 3.96152	100.8725 3.97136	101.1225 3.98120	101.3725 3.99104

REMARKS:
Measure for CYL Clearance: **12.50** mm / **0.492** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	-0.0225 -0.00089	0.2275 0.00896	0.4775 0.01880	0.7275 0.02864	0.9775 0.03848
RED:	-0.0325 -0.00128	0.2175 0.00856	0.4675 0.01841	0.7175 0.02825	0.9675 0.03809
BLUE:	-0.0375 -0.00148	0.2125 0.00837	0.4625 0.01821	0.7125 0.02805	0.9625 0.03789
GREEN:	-0.0275 -0.00108	0.2225 0.00876	0.4725 0.01860	0.7225 0.02844	0.9725 0.03829

REMARKS:
Measure for CYL Clearance: mm / inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	95.9730 3.77846	96.2230 3.78831	96.4730 3.79815	96.7230 3.80799	96.9730 3.81783
RED:	95.9865 3.77900	96.2365 3.78884	96.4865 3.79868	96.7365 3.80852	96.9865 3.81837
BLUE:	95.9795 3.77872	96.2295 3.78856	96.4795 3.79841	96.7295 3.80825	96.9795 3.81809

REMARKS:
Measure for CYL Clearance: **9.00** mm / **0.354** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
93.980	Tolorance is + / - (mm | inch) :			0.003	0.00012
YELLOW:	93.9730 3.69972	94.2230 3.70957	94.4730 3.71941	94.7230 3.72925	94.9730 3.73909
RED:	93.9865 3.70026	94.2365 3.71010	94.4865 3.71994	94.7365 3.72978	94.9865 3.73963
BLUE:	93.9795 3.69998	94.2295 3.70982	94.4795 3.71967	94.7295 3.72951	94.9795 3.73935

REMARKS:
Measure for CYL Clearance: **15.00** mm / **0.591** inch **from Bottom of Skirt.**
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON BUYER'S GUIDE

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

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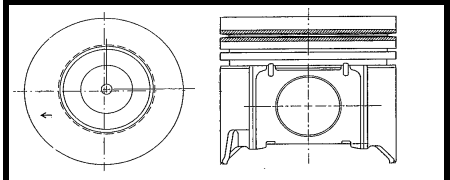
NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-918	6	95.000 / 3.740	85.80 / 3.378	52.04 / 2.049	-	6.60 / 0.260	2.25 / 0.089	65.00 / 2.559
PISTON RING #		Total Clearance mm / inch			-	16.40 / 0.646	2.00 / 0.079	
NA		-0.06	-0.00236				3.50 / 0.138	34.00 / 1.339
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
95.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	94.9775 / 3.73927	95.2275 / 3.74911	95.4775 / 3.75896	95.7275 / 3.76880	95.9775 / 3.77864
RED:	94.9675 / 3.73888	95.2175 / 3.74872	95.4675 / 3.75856	95.7175 / 3.76841	95.9675 / 3.77825
BLUE:	94.9625 / 3.73868	95.2125 / 3.74852	95.4625 / 3.75837	95.7125 / 3.76821	95.9625 / 3.77805
GREEN:	94.9725 / 3.73907	95.2225 / 3.74892	95.4725 / 3.75876	95.7225 / 3.76860	95.9725 / 3.77844

REMARKS:
Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.



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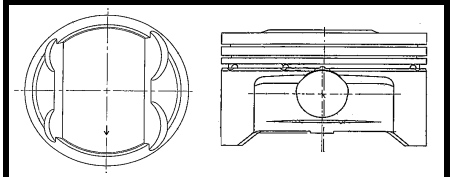
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-919	4	86.000 / 3.386	50.50 / 1.988	27.20 / 1.071	+	1.30 / 0.051	1.20 / 0.047	58.00 / 2.283
PISTON RING #		Total Clearance mm / inch			-	3.50 / 0.138	1.20 / 0.047	
SWG30042		-0.03	-0.00118				2.00 / 0.079	21.00 / 0.827
						Cir Clip		
						NONE	SURFACE TREATMENT: NONE	
						C17	Moly Skirt	

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
86.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	85.9775 / 3.38494	86.2275 / 3.39478	86.4775 / 3.40463	86.7275 / 3.41447	86.9775 / 3.42431
RED:	85.9675 / 3.38455	86.2175 / 3.39439	86.4675 / 3.40423	86.7175 / 3.41407	86.9675 / 3.42392
BLUE:	85.9625 / 3.38435	86.2125 / 3.39419	86.4625 / 3.40404	86.7125 / 3.41388	86.9625 / 3.42372
GREEN:	85.9725 / 3.38474	86.2225 / 3.39459	86.4725 / 3.40443	86.7225 / 3.41427	86.9725 / 3.42411

REMARKS:
Measure for CYL Clearance: 15.00 mm / 0.591 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.



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NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-920	8	96.000 / 3.780			-		1.50 / 0.059	
PISTON RING #		Total Clearance mm / inch			-		1.50 / 0.059	
SWG10005		-0.03	-0.00118		-		3.00 / 0.118	
						Cir Clip		
						C17	SURFACE TREATMENT: Anodized Head	Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
96.000	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	95.9775 / 3.77864	96.2275 / 3.78848	96.4775 / 3.79833	96.7275 / 3.80817	96.9775 / 3.81801
RED:	95.9675 / 3.77825	96.2175 / 3.78809	96.4675 / 3.79793	96.7175 / 3.80778	96.9675 / 3.81762
BLUE:	95.9625 / 3.77805	96.2125 / 3.78789	96.4625 / 3.79774	96.7125 / 3.80758	96.9625 / 3.81742
GREEN:	95.9725 / 3.77844	96.2225 / 3.78829	96.4725 / 3.79813	96.7225 / 3.80797	96.9725 / 3.81781

REMARKS:
Measure for CYL Clearance: mm / inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

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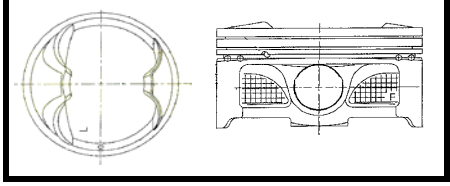
NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-921	4	99.500 / 3.917	51.50 / 2.028	32.70 / 1.287	-	3.50 / 0.138	1.20 / 0.047	64.00 / 2.520
PISTON RING #		Total Clearance mm / inch					1.20 / 0.047	
SWF20068		-0.03	-0.00118				2.00 / 0.079	23.00 / 0.906
						Cir Clip		
						C17	SURFACE TREATMENT: NONE	Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
99.500	Tolorance is + / - (mm | inch) :			0.0025	0.00010
YELLOW:	99.4775 / 3.91644	99.7275 / 3.92628	99.9775 / 3.93612	100.2275 / 3.94596	100.4775 / 3.95581
RED:	99.4675 / 3.91604	99.7175 / 3.92589	99.9675 / 3.93573	100.2175 / 3.94557	100.4675 / 3.95541
BLUE:	99.4625 / 3.91585	99.7125 / 3.92569	99.9625 / 3.93553	100.2125 / 3.94537	100.4625 / 3.95522
GREEN:	99.4725 / 3.91624	99.7225 / 3.92608	99.9725 / 3.93593	100.2225 / 3.94577	100.4725 / 3.95561

REMARKS:
Measure for CYL Clearance: 10.00 mm / 0.394 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.



PISTON DIAMETER MEASURING POINT EXPLANATION

PISTON BUYER'S GUIDE

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

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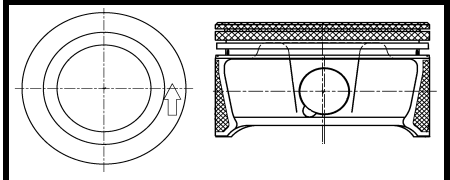
RED = NEW INFORMATIOIN

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT

NOA PISTON PART #	CYL	PISTON INFORMATION BORE mm / inch	LENGTH mm / inch	COMP. mm / inch	+ -	DIST. mm / inch	1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm
11-922	6	96.000 3.780	55.10 2.169	32.70 1.287	-	2.60 0.102	1.20 0.047	52.50 2.067
PISTON RING #	Total Clearance mm	Total Clearance inch					1.50 0.059	
SWG10013	-0.03	-0.00118					3.00 0.118	22.00 0.866



Cir Clip

SURFACE TREATMENT: Anodized Head

J05 — Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	95.800	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	95.8050 3.77185	96.0550 3.78169	96.3050 3.79154	96.5550 3.80138	96.8050 3.81122
WHITE:	95.8025 3.77175	96.0525 3.78159	96.3025 3.79144	96.5525 3.80128	96.8025 3.81112
BLUE:	95.7950 3.77146	96.0450 3.78130	96.2950 3.79114	96.5450 3.80098	96.7950 3.81083
GREEN:	95.7975 3.77156	96.0475 3.78140	96.2975 3.79124	96.5475 3.80108	96.7975 3.81093

REMARKS:
Measure for CYL Clearance: 7.00 mm / 0.276 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

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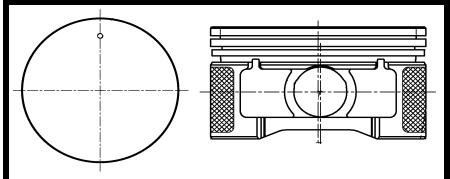
11-923	6	93.000 3.661	51.50 2.028	29.80 1.173			1.50 0.059	67.50 2.657
PISTON RING #	Total Clearance mm	Total Clearance inch					1.50 0.059	
SWC10002	-0.03	-0.00118					3.00 0.118	22.89 0.901



Cir Clip

NONE

SURFACE TREATMENT: NONE

J05 — Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	92.960	Tolorance is + / - (mm | inch) :		0.0045	0.00018
YELLOW:	92.9650 3.66004	93.2150 3.66988	93.4650 3.67972	93.7150 3.68957	93.9650 3.69941
WHITE:	92.9625 3.65994	93.2125 3.66978	93.4625 3.67963	93.7125 3.68947	93.9625 3.69931
BLUE:	92.9550 3.65965	93.2050 3.66949	93.4550 3.67933	93.7050 3.68917	93.9550 3.69902
GREEN:	92.9575 3.65974	93.2075 3.66959	93.4575 3.67943	93.7075 3.68927	93.9575 3.69911

REMARKS:
Measure for CYL Clearance: 13.00 mm / 0.512 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

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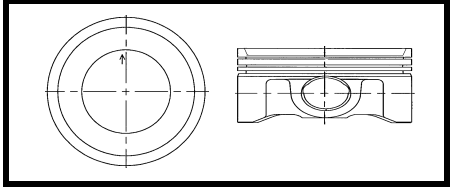
11-9000	4	82.500 3.248	50.60 1.992	30.60 1.205	-	5.50 0.217	1.20 0.047	56.00 2.205
PISTON RING #	Total Clearance mm	Total Clearance inch					1.50 0.059	
SWL03461	-0.03	-0.00118					2.00 0.079	21.00 0.827



Cir Clip

SURFACE TREATMENT: NONE

T01 — Moly Skirt

COLOR CODE	-0 (STD) mm / inch / MID	-1 (0.25) mm / inch / MID	-2 (0.50) mm / inch / MID	-3 (0.75) mm / inch / MID	-4 (1.00) mm / inch / MID
	82.480	Tolorance is + / - (mm | inch) :		0.01	0.00039
RED:	82.4700 3.24685	82.7200 3.25669	82.9700 3.26654	83.2200 3.27638	83.4700 3.28622
GREEN:	82.4900 3.24764	82.7400 3.25748	82.9900 3.26732	83.2400 3.27717	83.4900 3.28701

REMARKS:
Measure for CYL Clearance: 5.40 mm / 0.213 inch from Bottom of Skirt.
CAUTION!!: Bore diameter is measured before skirt Surface Treatment. To Determine "Bore" to Diameter, add wall clearance of +0.04mm (0.00157") to maximum Bore Size.

PISTON DIAMETER MEASURING POINT EXPLANATION