

NPR OF AMERICA, INC.



1973 ~ 2018

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



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NPR (Nippon Piston Ring) Piston Rings.

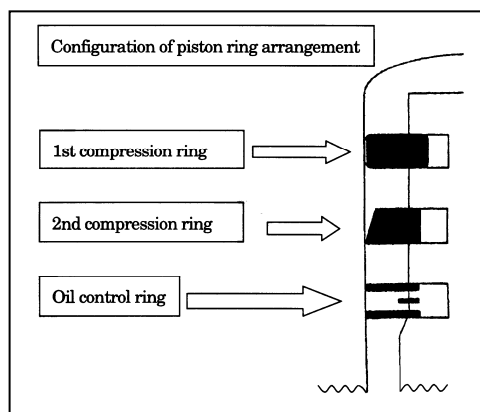
1. The most important functions of NPR Piston Rings.

NPR's most important principles of Piston Rings are:

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

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

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



1) Gas Seal:

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

2) Oil Control:

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

3) Heat Conduction:

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

4) Bearing:

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

2. The quality advantages of NPR Steel Rings.

NPR's unrivaled Piston Rings and Pistons will satisfy the needs of today's higher performance engine. All Piston Rings and Pistons listed in this catalog are the results of NPR's many years of engineering knowledge and experience taking into consideration material composition and surface treatment design.

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

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

Oil consumption

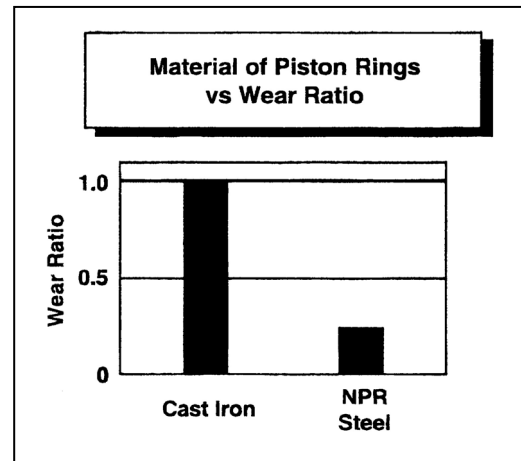
Steel piston rings allow for a reduction in the radial wall thickness. This (thinner) and lighter design seals more completely against the ring groove. Also, NPR's steel ring designs with greater material strength, reduced width and radial wall dimensions conform better to less than perfect cylinder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

Durability of Steel

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

Steel Piston Rings

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



Surface Treatment

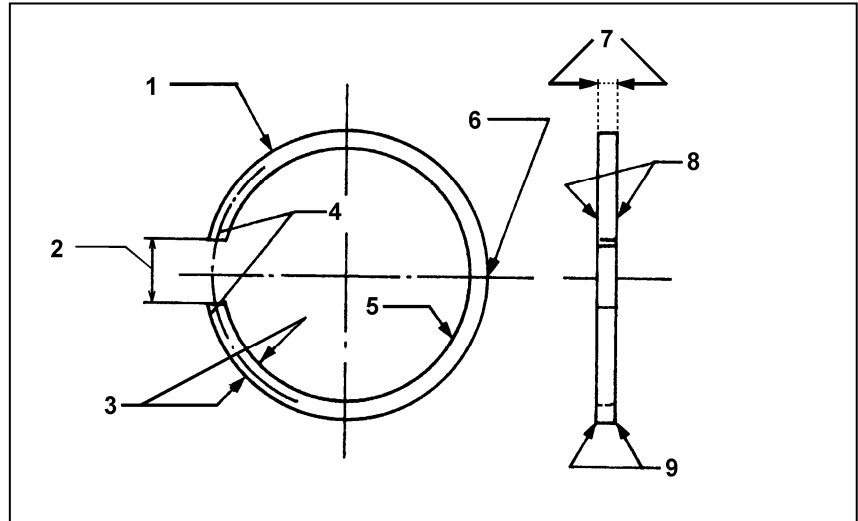
NPR's surface treatment is also very high quality, and the result of our technology. The chart below shows surface treatment comparison.

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

3. Piston Ring – Name of Parts

Free (Unstressed) Ring

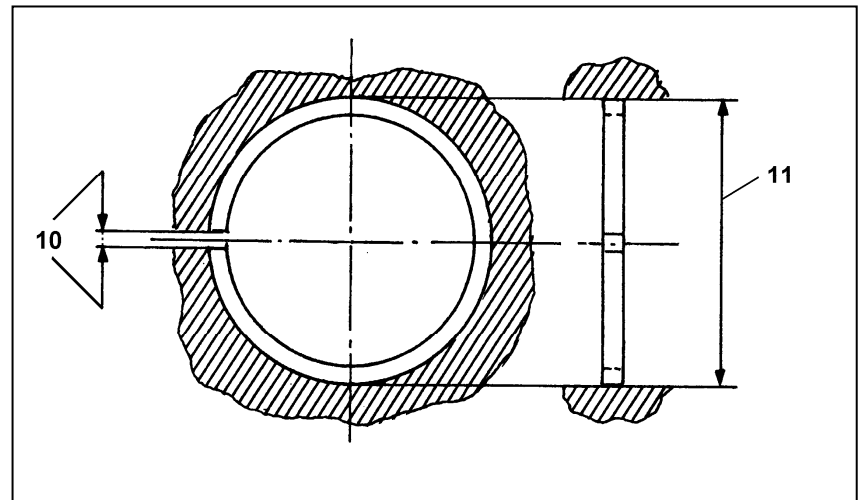
1. Ring face or Periphery.
2. Total free gap (m).
3. **T**: Radial wall thickness (ai).
4. Butt ends.
5. Inside Surface.
6. Back of the ring.
7. **B**: Ring width (h1)
8. Side Face.
9. Peripheral edges.



Closed Gap

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

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



Recommended Closed Ring Gap

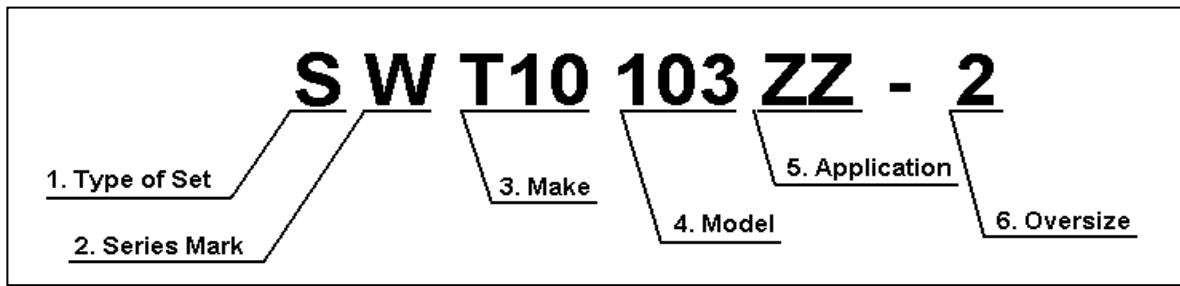
NPR generally manufactures its rings to meet the JIS (Japanese Industrial Standard) B8032-6-1998. It is important to recognize that some end gaps for individual engines may vary from this standard because of the original engine manufacturer's requirements. The table appearing below is for reference only.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

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

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

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

4. Explanation of NPR Ring set Code.



1) Type of Set.

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

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

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

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

2) Series Marks

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

US Application

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

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

Export Piston Rings

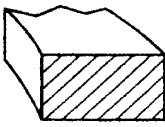
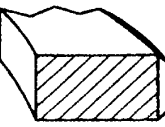
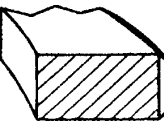
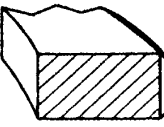
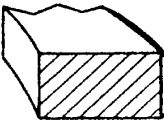
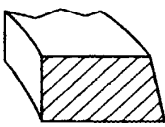
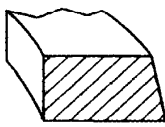
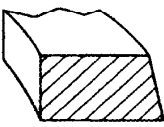
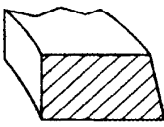
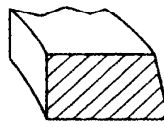
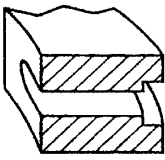
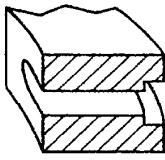
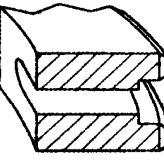
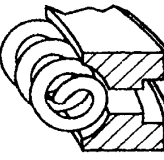
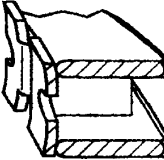
There are varieties of Piston Ring Series. Please see above.

Important Note!

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

Explanation of Series

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

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

Mt.: Top and bottom sides of the ring are Chrome Plated.

X: Plate expander is coupled with oil control ring.

Important Note!

Diesel Ring 555 Series:

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

Ring Type

Surface Treatment

555

Chrome on outside contact surface.

Mt.555

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

Mt.555F

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

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

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

<u>Code</u>	<u>Make</u>
A10	ASIA
C10	CHRYSLER
D10	DAIHATSU
D20	DAWEOO
E10	EUROPAN APPLICATION
F30	FORD
F20	SUBARU
G10	GMC
G30	HYUNDAI
H20	HINO
H30	ACURA, HONDA
I10	ISUZU, (GM, CHEVROLET, GEO)
K04	KOMATSU
K30	KIA
M30	MITSUBISHI, (CHRYSLER, DODGE, EAGLE, PLYMOUTH, HYUNDAI)
M31	MITSUBISHI, (HYUNDAI)
N30	INFINITI, NISSAN, (FORD MERCURY)
N31	UD TRUCK NISSAN (NISSAN DIESEL)
S20	SUZUKI, (GM, CHEVROLET, GEO)
T10	LEXUS, TOYOTA, (GM, CHEVROLET, GEO)
T20	MAZDA (FORD, MERCURY)

NOTE:

EXPLANATION OF MAKES IN PARENTHESIS ()

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

4) Model

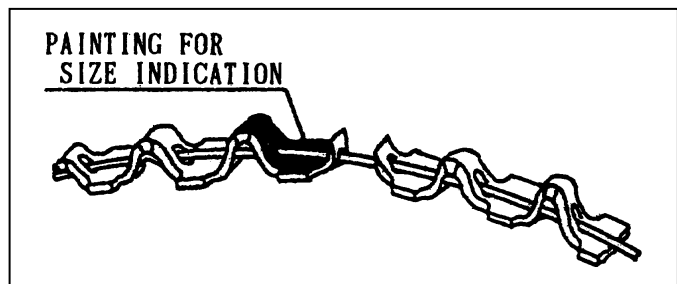
A three digit number is uniquely assigned by an engine model connected with a make code.

5) Serial Code for Application

Assigned by engineer.

6) Oversize Code for Nifflex Expander.

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



* Indication is only for **Nifflex** type expander rings. *

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

Installation Instruction of Oil Rings.

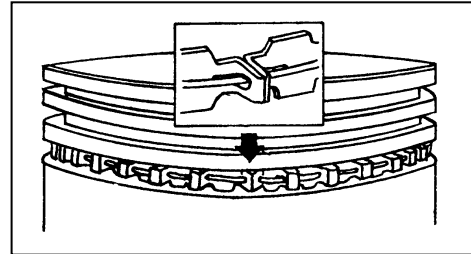
(Instalacion del Anillo de Control de Aceite)



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

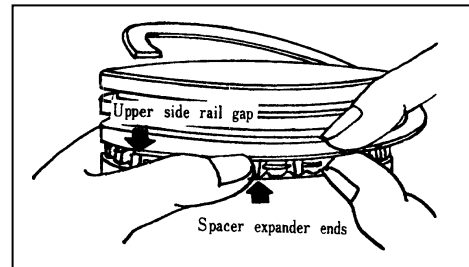
Fit the spacer expander into the ring groove, and ensure that the ends are butting as shown in the illustration.

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



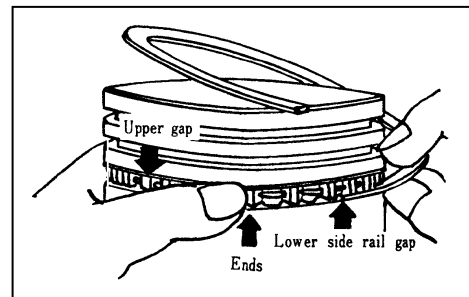
Hold with thumb the spacer expander with its ends completely butting. Install the upper side rail with its gap approximately 45 Degree left of Spacer Expander end.

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



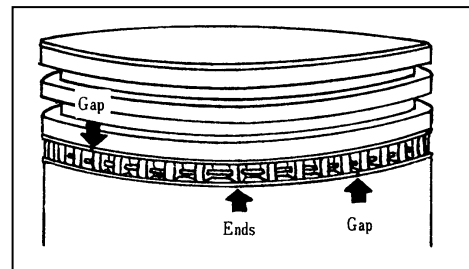
Install the lower side rail with its gap approximately 45 Degree right of the expander ends.

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



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

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



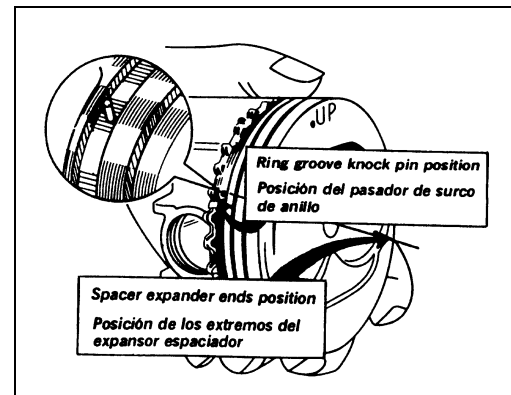
Installation Instruction of Oil Rings. **(Instalacion del Anillo de Control de Aceite.)**



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

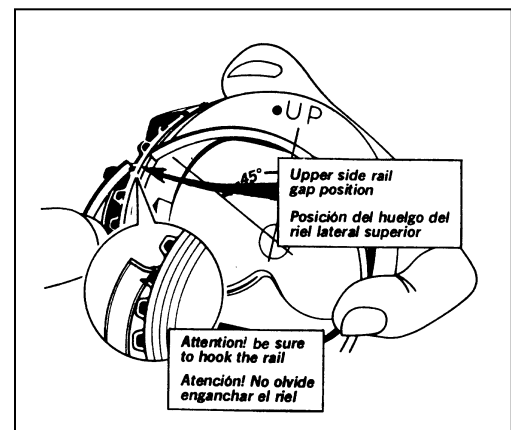
In EA Engine pistons, there is a knock pin in the oil ring groove. Install the spacer expander around the whole piston perimeter, placing its ends approximately 180 Degree from the knock pin.

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



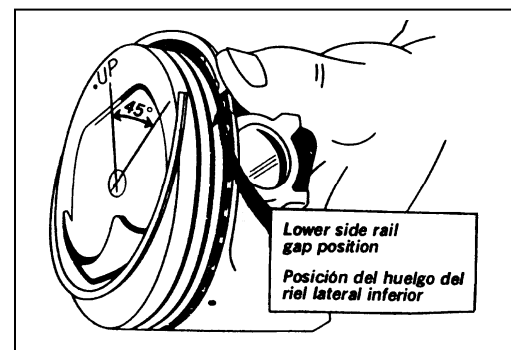
One of the two side rails has one of its ends slightly bent. Hook the bent part into the spacer expander, at a point located approximately 45 Degree left of the piston head “UP” mark, then install the rail around the whole piston perimeter (see figure).

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



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

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



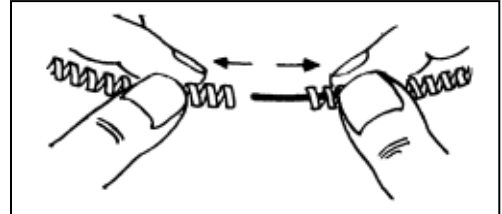
Installation Instruction of Oil Rings. **(Instrucciones para Instalar el Anillo De Control de Aceite.)**



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

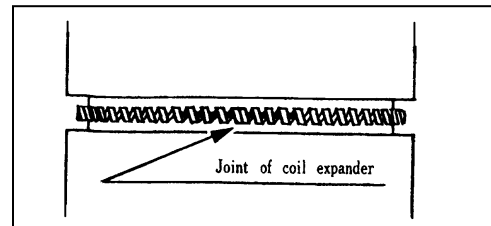
First, disconnect the joint of coil expander.

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



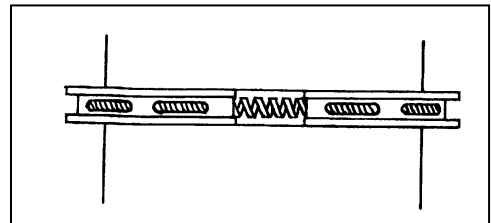
Next, encircle the 1st oil ring groove with coil expander and joint the ends of coil expander again.

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



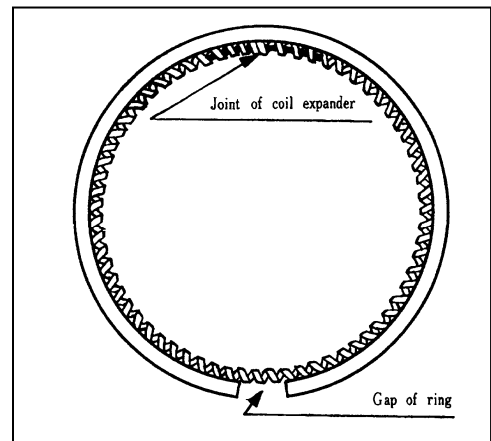
Last, install the ring outside of coil expander.
(Please use Piston Ring Installation Tool).

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



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

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

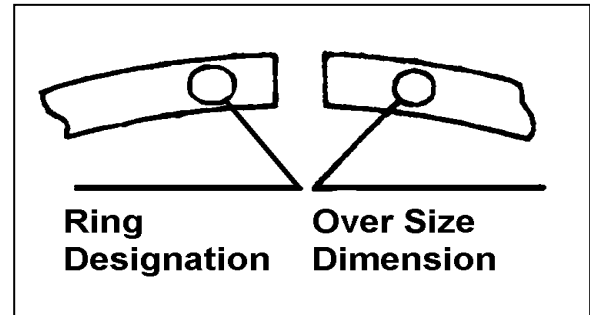


Installation Instruction of Compression Rings.



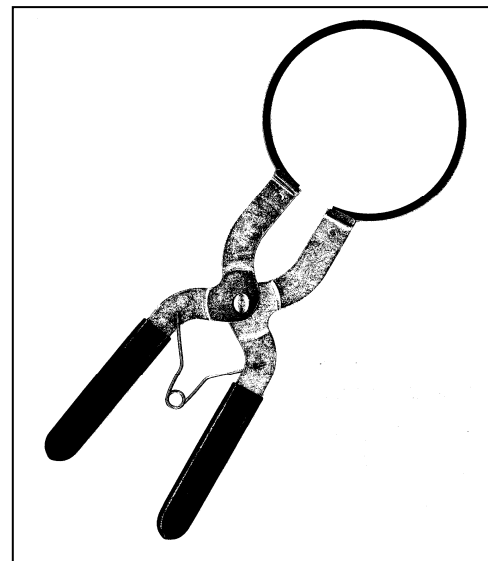
“N” or Number is facing upward when installed on the piston.

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



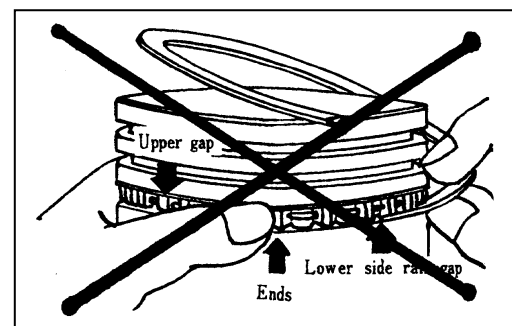
Use Piston Ring tool to expand the end gap. Then install 2nd and Top ring to Piston Ring Groove.

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



Do not install compression rings like rail rings.

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



Piston Ring End Gaps / ABERTURA DE LUZ PARA ANILLOS

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

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

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

La principal razon de este cambio es reducir el consumo de aceite en maquinas con anillos de baja tension.

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

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

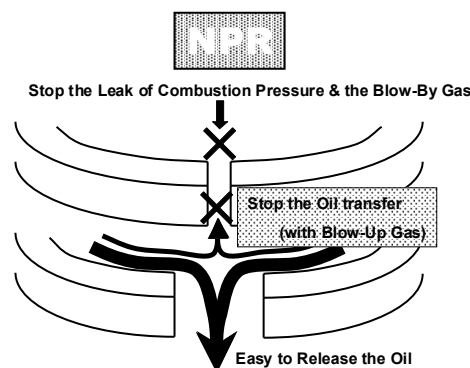
1. The reduced top ring gap helps reduce the flow of oil vapor from below the top ring to the combustion chamber (see “X” in diagram right)

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

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

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

- CONTINUE



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

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

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

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

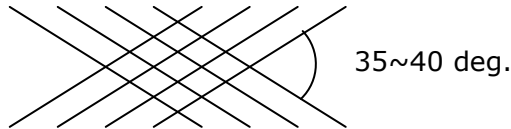
NPR fabrica sus anillos con la especificacion correcta de OEM(Equipo Original) para cada motor individual y es ello que la abertura de luz es diferente de un motor a otro aunque tengan el mismo diametro . .Por lo tanto no hay necesidad, ni recomendamos que usted los altere, haciendo esto puede anular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

Finalmente siempre instale anillos NPR, los mejores del mundo.

Cylinder Honing Recommendation

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

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



For NPR Piston Rings we recommend a roughness of:

NPR recomienda para sus anillos, una aspereza de:

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

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

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

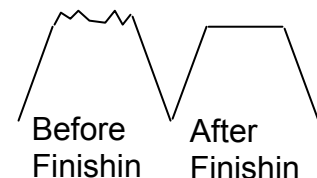
- Conventional stones #220 - #280 grit or
- Diamond stones #325 - #550 grit

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

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

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

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



- CONTINUE

Important Note –

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

Nota Importante.

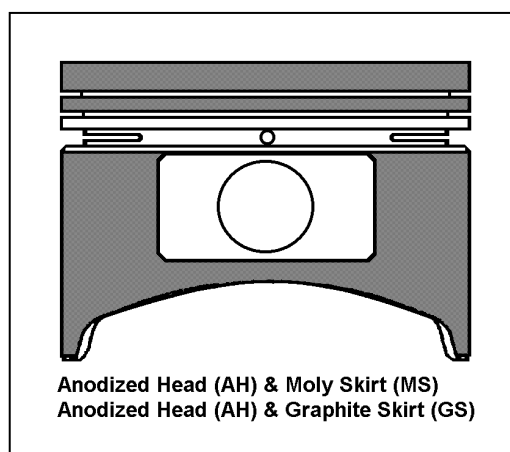
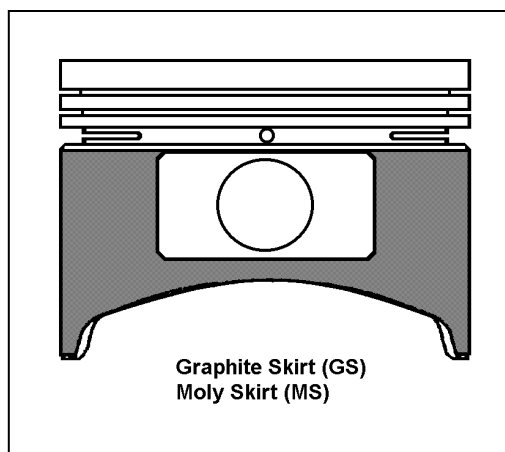
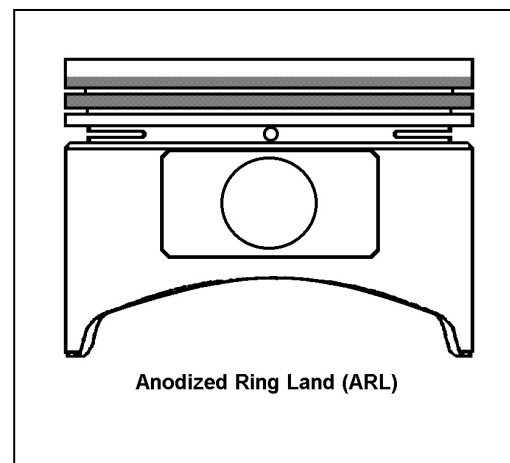
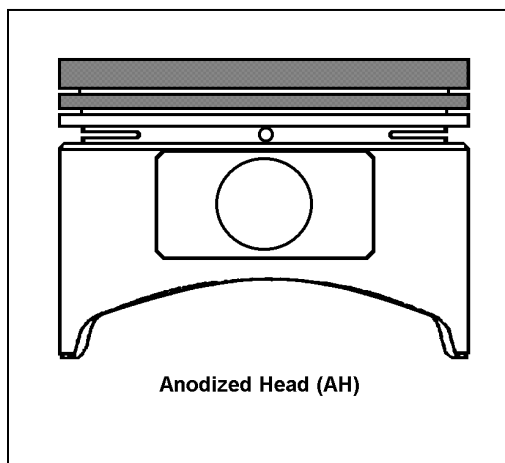
Estar seguro de reconfirmar con el fabricante del equipo de afilado que los granos de arena recomendados de piedra produzcan nuestro R_Z y las recomendaciones de aspereza de R_a

PISTON SURFACE TREATMENT

TRATAMIENTO SUPERFICIAL DEL PISTON

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

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



PISTON FITTING CLEARANCE RECOMMENDATION

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

PISTON FITTING CLEARANCE RECOMMENDATION

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

PISTON FITTING CLEARANCE RECOMMENDATION

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

PISTON FITTING CLEARANCE RECOMMENDATION

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

PISTON FITTING CLEARANCE RECOMMENDATION

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

PISTON FITTING CLEARANCE RECOMMENDATION

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

NPR Piston and Ring Kits

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

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

Abbreviation & Words used in this NPR Catalog.

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

NEW PISTON RING INFORMATION from YEAR 2015.

MAKER NAME	ENGINE SIZE	MODEL NAME	YEAR	C Y L	ENGINE CODE NUMBER	F.I. CARB DIESEL	O.H.V. S.O.H.C. D.O.H.C.	RING REFERENCE NUMBER	NOA PISTON RING #	DIA. mm	1 S T	2 N D	O 1	REMARK
FORD	3496 3.5L 213	EDGE	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	EDGE	2011 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	EXPLORER	2011 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	FLEX	2009 - 2016	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	FUSION	2010 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	MKX	2007 - 2010	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	MKZ	2007 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	SABLE	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	24 VALVE
FORD	3496 3.5L 213	TAURUS	2008 - 2012	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496 3.5L 213	TAURUS	2013 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496 3.5L 213	TAURUS X	2008 - 2009	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496 3.5L 213	TAURUS X	2013 - 2017	V6	DURATEC 35	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	Cyclone, 24 VALVE
FORD	3496 3.5L 213	MKS	2012 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	MKS	2012 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	MKT	2010 - 2012	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	TAURUS SHO	2010 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	RIGHT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	TAURUS SHO	2010 - 2016	V6	EcoBoost 35T	F.I.	D.O.H.C.	AT4Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	LEFT, DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	EXPLORER	2013 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	F150	2011 - 2014	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 A	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	3496 3.5L 213	FLEX	2010 - 2017	V6	EcoBoost 35T	F.I.	D.O.H.C.	BL3Z 6148 C	SWF30026	92.50	1.20	1.50	2.50	DAMB, w TURBO, 24 VALVE
FORD	4951 5.0L 302	F150	2011 - 2016	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	4951 5.0L 302	MUSTANG	2011 - 2017	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	4951 5.0L 302	SHELBY GT350	2014 - 2017	V8	COYOTE 50	F.I.	D.O.H.C.	CU7Z 6148 A	SWF30027	92.20	1.20	1.20	2.50	MODULAR, 32 VALVE
FORD	6651 6.7L 406	ECONOLINE E450	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651 6.7L 406	ECONOLINE E550	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651 6.7L 406	F250	2011 - 2015	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651 6.7L 406	F350	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651 6.7L 406	F450	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
FORD	6651 6.7L 406	F550	2011 - 2017	V8	PowerStroke 6.7T	DIESEL	O.H.V.	BC3Z 6148 A	SDF30025	99.00	2.89	2.00	2.50	32 VALVE
GMC	2384 2.4L 145	EQUINOX	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	LaCrosse	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	REGAL	2011 ONLY	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	TERRAIN	2010 - 2011	4	ECOTEC 2.4 LAF	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	HHR	2010 - 2011	4	ECOTEC 2.4 L9B	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	MALIBU	2010 - 2012	4	ECOTEC 2.4 L9B	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	EQUINOX	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	LaCrosse	2012 - 2015	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	REGAL	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	TERRAIN	2012 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	TERRAIN DENALI	2013 - 2017	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	VERANO	2012 - 2016	4	ECOTEC 2.4 LEA	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2384 2.4L 145	IMPALA HYBRID	2014 ONLY	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2384 2.4L 145	MALIBU HYBRID	2013 - 2014	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2384 2.4L 145	REGAL HYBRID	2012 - 2015	4	ECOTEC 2.4 LUK	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	eAssist System, 16 VALVE
GMC	2457 2.5L 150	ATS	2013 - 2015	4	ECOTEC 2.5 LKV	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457 2.5L 150	CANYON	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457 2.5L 150	IMPALA	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	2457 2.5L 150	MALIBU LS	2013 - 2015	4	ECOTEC 2.5 LKW	F.I.	D.O.H.C.	12659419	SWG10048	88.00	1.20	1.50	2.00	16 VALVE
GMC	3564 3.6L 217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	ACADIA	2009 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564 3.6L 217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	ACADIA DENALI	2011 - 2015	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564 3.6L 217	CAMARO	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	CAMARO	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564 3.6L 217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, LEFT, 24 VALVE
GMC	3564 3.6L 217	CTS	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, RIGHT, 24 VALVE
GMC	3564 3.6L 217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, LEFT, 24 VALVE
GMC	3564 3.6L 217	CTS SPORT WAGON	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	VIN V, RIGHT, 24 VALVE
GMC	3564 3.6L 217	ENCLAVE	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	ENCLAVE	2008 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564 3.6L 217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	LaCrosse	2010 - 2011	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE
GMC	3564 3.6L 217	TRAVERSE	2009 - 2017	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	LEFT, 24 VALVE
GMC	3564 3.6L 217	TRAVERSE	2009 - 2017	V6	Alloytec LLT	F.I.	D.O.H.C.	12616973	SWG10052	94.00	1.20	1.50	2.50	RIGHT, 24 VALVE

NEW PISTON RING INFORMATION from YEAR 2015.

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

NEW PISTON INFORMATION from YEAR 2015.

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

NEW PISTON INFORMATION from YEAR 2015.

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

USA APPLICATIONS

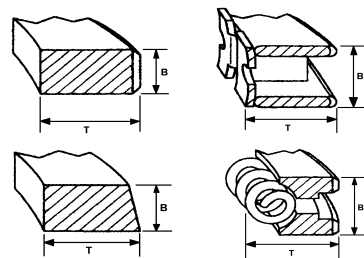
MAKER NAME



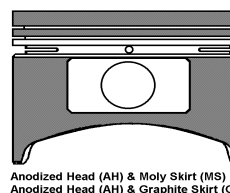
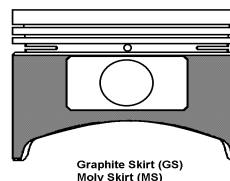
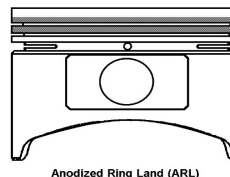
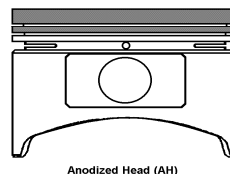
MAKER NAME

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

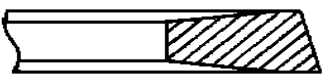
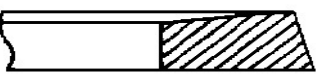
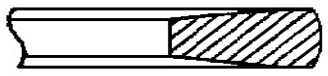
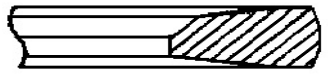
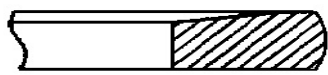
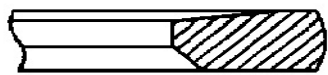
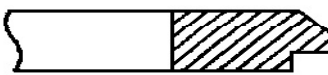
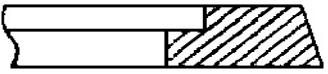
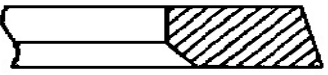
- 1 : ENGINE by FUEL TYPE
- 2 : PISTON RING PART NUMBER
- 3 : DIAMETER (mm)
- 4 : REFERENCE NUMBER for PISTON RINGS
- 5 : TOP RING WIDTH (mm)
- 6 : TOP RING WIDTH (inch)
- 7 : TOP RING RADIAL WALL THICKNESS (mm)
- 8 : TOP RING RADIAL WALL THICKNESS (inch)
- 9 : TOP RING SHAPE CODE
- 10 : TOP RING MATERIAL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



B: WIDTH
T: RADIAL WALL THICKNESS

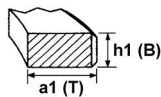


PISTON RING SHAPE

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

JOINT SHAPE

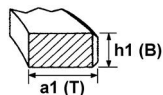
	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		

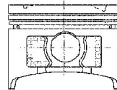
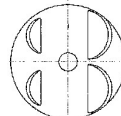
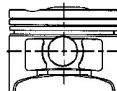
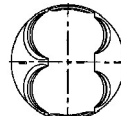
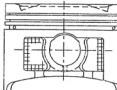


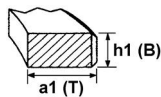
ACURA

ACURA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (91CID,1496CC),SOHC,4CYL, 73.000MM (2.874"), LEA / 2013-2015																
ILX HYBRID / 13-15	SWH30465-0	73.00	Top:	1.000	X	2.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30465-1	73.25		0.039		0.091										
	SWH30465-2	73.50	2nd:	1.000	X	2.300	TUC	STEEL	PHOSPHATE							
	SWH30465-3	73.75		0.039		0.091										
	SWH30465-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
		0.079		0.087												
REFERENCE #		TOP	2ND	OIL												
13011-RB1-004																
13011-RB1-006																
13011-RW0-004																
1.6L (97CID,1590CC),DOHC,4CYL, 75.000MM (2.953"), D16A1 / 1986-1987																
INTEGRA / 86-87	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	DISC-11-501-0	75.00					
	SWH30365-1	75.25		0.047		0.106				DISC-11-501-1	75.25					
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-501-2	75.50					
	SWH30365-3	75.75		0.059		0.126				DISC-11-501-3	75.75					
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-501-4	76.00					
		0.110		0.110												
REFERENCE #		TOP	2ND	OIL						REFERENCE #						
13011-P04-G02										13101-PG6-000						
13011-PJ1-752																
1.6L (97CID,1590CC),DOHC,4CYL, 75.000MM (2.953"), D16A1 / 1988-1989																
INTEGRA / 88-89	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-502-0	75.00	TL:	63.00	PL:	56.00	CHK.
	SWH30362-1	75.25		0.047		0.106				11-502-1	75.25	CH:	30.00	PD:	19.00	DIA
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-502-2	75.50	DIST1:	3.00	Head:	NONE	15.00
	SWH30362-3	75.75		0.059		0.126				11-502-3	75.75	DIST2:		Skirt:	NONE	
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-502-4	76.00	DIST3:				
		0.110		0.100												
REFERENCE #		TOP	2ND	OIL						REFERENCE #						
13011-P10-A03										13101-P29-000						
13011-P28-A02																
13011-PM6-G02																
1.7L (102CID,1678CC),DOHC,4CYL, 81.000MM (3.189"), B17A1 / 1992-1993																
INTEGRA / 92-93	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30373-1	81.25		0.039		0.122										
	SWH30373-2	81.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE							
	SWH30373-3	81.75		0.047		0.130										
	SWH30373-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME							
		0.110		0.106												
REFERENCE #		TOP	2ND	OIL												
13011-PR3-004																

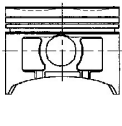
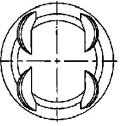
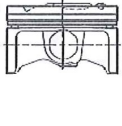
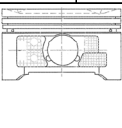


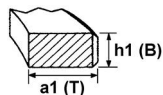
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO												
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), B18C1 / 1994-2001																								
INTEGRA / 94-01	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME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

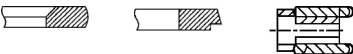
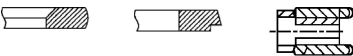


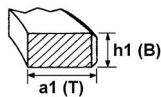
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1835CC),DOHC,4CYL, 81.000MM (3.189"), B18B1 / 1994-1999																
INTEGRA / 94-99	SWH30373-0	81.00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

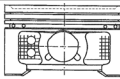
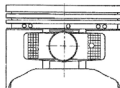
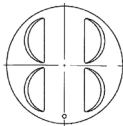


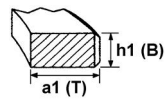
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A2 / 2004-2008											
TSX / 04-08	SWH30435-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application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

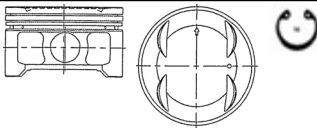


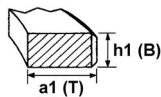
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2494CC),SOHC,6CYL, 84.000MM (3.307"), C25A1 / 1986-1987																
LEGEND / 86-87	SWH30369-0	84.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	DISC-11-506-0	84.00					
	SWH30369-1	84.25		0.047		0.120				DISC-11-506-1	84.25					
	SWH30369-2	84.50	2nd:	1.200	X	3.600	T1-IB	CAST IRON	PHOSPHATE	DISC-11-506-2	84.50					
	SWH30369-3	84.75		0.047		0.142				DISC-11-506-3	84.75					
	SWH30369-4	85.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-506-4	85.00					
		0.157		0.128												
	REFERENCE # 13011-PH7-004		TOP	2ND		OIL			REFERENCE # 13101-PH7-000							
																
	2.7L (163CID,2675CC),SOHC,6CYL, 87.000MM (3.425"), C27A1 / 1987-1990															
	LEGEND / 87-90	SWH30370-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	DISC-11-783-0	87.00				
SWH30370-1		87.25	0.047		0.122		DISC-11-783-1				87.25					
SWH30370-2		87.50	2nd:	1.200	X	3.500	T1-IB	CAST IRON	PHOSPHATE	DISC-11-783-2	87.50					
SWH30370-3		87.75		0.047		0.138				DISC-11-783-3	87.75					
SWH30370-4		88.00	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	DISC-11-783-4	88.00					
		0.157		0.124												
REFERENCE # 13011-P0G-A01 13011-P0G-A02		TOP	2ND		OIL			REFERENCE # 13010-P0G-A00 13101-PL2-000								
																
3.0L (183CID,2997CC),SOHC,6CYL, 86.000MM (3.386"), J30A1 / 1997-1999																
CL / 97-99		SWH30432-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-791-0	86.00	TL:	51.50	PL:	54.00
	SWH30432-1	86.25	0.047		0.114		11-791-1				86.25					
	SWH30432-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-791-2	86.50					
	SWH30432-3	86.75		0.047		0.134				11-791-3	86.75					
	SWH30432-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-791-4	87.00					
		0.110		0.112												
	REFERENCE # 13011-P8A-A01 13011-RCA-A01		TOP	2ND		OIL			REFERENCE # 13010-P8A-000 13010-P8A-A00							
																
	3.2L (193CID,3165CC),SOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1996-1997															
	SLX / 96-97	SWI10185-0	93.40	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-686-0	93.40	TL:	65.20	PL:	66.00
SWI10185-1		93.65	0.059		0.136		11-686-1				93.65					
SWI10185-2		93.90	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	11-686-2	93.90					
SWI10185-3		94.15		0.059		0.157				11-686-3	94.15					
SWI10185-4		94.40	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	11-686-4	94.40					
		0.157		0.124												
REFERENCE # 8-97162-198-0		TOP	2ND		OIL			REFERENCE # 8-94374-965-1								
																

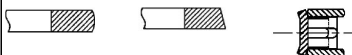
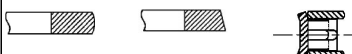
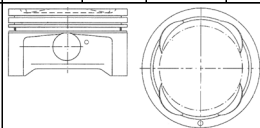
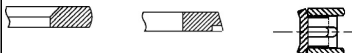
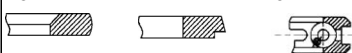


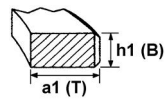
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.2L (196CID,3206CC),SOHC,6CYL, 90.000MM (3.543"), C32A1,C32A6 / 1991-1998																
LEGEND / 91-95 TL / 96-98	SWH30371-0	90.00	Top:	1.200	X	3.300	BF-IB	STEEL	CHROME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

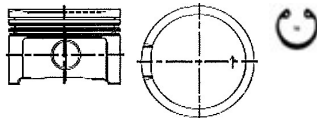
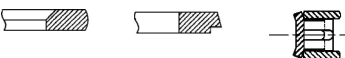
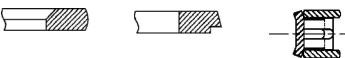


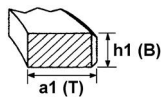
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A6,J35A8,J35Y4,J35Z2,J35Z6 / 2005-2017										
RDX / 13-17 RL / 05-08 RLX / 14-16 TL / 09-14 TL-S / 07-08 TSX / 11-13 TSX SPORT WAGON / 12-14	SWH30438-0 SWH30438-1 SWH30438-2 SWH30438-3 SWH30438-4 REFERENCE # 13011-5G0-A01 13011-P8F-A01 13011-PGE-A01 13011-R70-A02 13011-RJA-004 13021-R70-A01	89.00 89.25 89.50 89.75 90.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.800 0.110	X X X	3.050 0.120 3.400 0.134 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
										
3.5L (213CID,3494CC),SOHC,6CYL, 93.400MM (3.677"), 6VE1 / 1998-1999										
SLX / 98-99	SWI10191-0 SWI10191-1 SWI10191-2 SWI10191-3 SWI10191-4 REFERENCE # 8-97136-135-0	93.40 93.65 93.90 94.15 94.40	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 3.000 0.118	X X X	3.250 0.128 4.000 0.157 2.850 0.112	BF T1 NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-793-0 11-793-1 11-793-2 11-793-3 11-793-4 REFERENCE # 8-97136-315-3 8-97163-315-3
										
3.7L (224CID,3664CC),SOHC,6CYL, 90.000MM (3.543"), J37A1 / 2007-2009										
MDX / 07-09	SWH30468-0 SWH30468-1 SWH30468-2 SWH30468-3 SWH30468-4 REFERENCE # 13011-RYE-A01	90.00 90.25 90.50 90.75 91.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.800 0.110	X X X	3.100 0.122 3.400 0.134 2.800 0.110	BF-IB ES-TUC NIFF-S	STEEL DUCTILE IRON STEEL	NITRIDED CHROME NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
										
3.7L (224CID,3664CC),SOHC,6CYL, 90.000MM (3.543"), J37A1,J37A2,J37A4,J37A5 / 2009-2014										
MDX / 10-13 RL / 09-12 TL / 09-14 ZDX / 10-13	SDH30469-0 SDH30469-1 SDH30469-2 SDH30469-3 SDH30469-4 REFERENCE # 13011-RKG-A01 13011-RKG-E02	90.00 90.25 90.50 90.75 91.00	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.000 0.079	X X X	3.100 0.122 3.400 0.134 2.750 0.108	BF-IB TUC E-BC16	STEEL DUCTILE IRON STEEL	NITRIDED CHROME NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
										



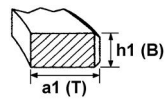
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), AEB / 2000-2006																
A4 AVANT / 00-06	SWL03456-0	81.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-872-0	81.00	TL:	53.70	PL:	50.00	CHK. DIA 8.00
	SWL03456-1	81.25		0.059		0.120				11-872-1	81.25	CH:	32.70	PD:	19.00	
	SWL03456-2	81.50	2nd:	1.750	X	3.450	TUC	CAST IRON	PHOSPHATE	11-872-2	81.50	DIST1:	-1.90	Head:	AH	
	SWL03456-3	81.75		0.069		0.136				11-872-3	81.75	DIST2:	Skirt:	MS		
	SWL03456-4	82.00		Oil:		2.000				2.800	NIFF-H	STEEL	NITRIDED	11-872-4	82.00	
REFERENCE # 058 198 151 B 06B 198 151 B		TOP	2ND	OIL	REFERENCE # 058 107 065 F 06B 107 065 N											
1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), ATC, AMU / 2000-2006																
TT / 00-06	SWL03456-0	81.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL03456-1	81.25		0.059		0.120										
	SWL03456-2	81.50	2nd:	1.750	X	3.450	TUC	CAST IRON	PHOSPHATE							
	SWL03456-3	81.75		0.069		0.136										
	SWL03456-4	82.00		Oil:		2.000										2.800
REFERENCE # 058 198 151 B 06B 198 151 B		TOP	2ND	OIL												
1.8L (109CID,1786CC),SOHC,4CYL, 81.000MM (3.189"), MG / 1985-1987																
4000 / 85-87	SWL02405-0	81.00	Top:	1.500	X	3.350	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL02405-1	81.25		0.059		0.132										
	SWL02405-2	81.50	2nd:	1.750	X	3.350	TUC	CAST IRON	PHOSPHATE							
	SWL02405-3	81.75		0.069		0.132										
	SWL02405-4	82.00		Oil:		3.000										3.000
REFERENCE # 026 198 151 A		TOP	2ND	OIL												
2.0L (121CID,1984CC),DOHC,4CYL, 82.500MM (3.248"), ABK, AAD,ADY, ABA / 2005-2012 TURBO																
A3 / 06-12 A4 / 05-12 A4 AVANT / 06-12 A5 / 10-12 Q5 / 11-12 TT / 08-12	SWL03461-0	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL03461-1	82.75		0.047		0.122										
	SWL03461-2	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	PHOSPHATE							
	SWL03461-3	83.25		0.059		0.136										
	SWL03461-4	83.50		Oil:		2.000										2.800
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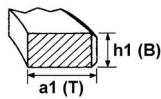
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
2.7L (163CID,2671CC),DOHC,6CYL, 81.000MM (3.189"), APB / 2000-2002											
S4 / 00-02	SWL03340-0 6	81.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWL03340-1 6	81.25		0.047		0.114					
	SWL03340-2 6	81.50	2nd:	1.500	X	3.350	TUC	DUCTILE IRON	CHROME		
	SWL03340-3 6	81.75		0.059		0.132					
	SWL03340-4 6	82.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED		
REFERENCE #		TOP	2ND	OIL							
058 198 151 B											
2.8L (169CID,2771CC),DOHC,6CYL, 82.500MM (3.248"), AHA / 1998-2001											
A4 / 98-01 A4 AVANT / 98-98 A6 / 98-01	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWL03296-1 6	82.75		0.047		0.122					
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME		
	SWL03296-3 6	83.25		0.059		0.136					
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED		
REFERENCE #		TOP	2ND	OIL							
06A 198 151 C 06C 198 151 B											
2.8L (169CID,2771CC),SOHC,6CYL, 82.500MM (3.248"), AAH,AFC / 1992-1998											
100 / 92-94 A4 / 96-97 A6 / 95-97 CABRIOLET / 96-98	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWL03296-1 6	82.75		0.047		0.122					
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME		
	SWL03296-3 6	83.25		0.059		0.136					
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED		
REFERENCE #		TOP	2ND	OIL							
06A 198 151 C 06C 198 151 B											
3.0L (182CID,2976CC),DOHC,6CYL, 82.500MM (3.248"), AVK, BGN / 2002-2005											
A4 / 02-05 A4 AVANT / 02-05 A6 / 02-04 A6 AVANT / 02-04	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWL03296-1 6	82.75		0.047		0.122					
	SWL03296-2 6	83.00	2nd:	1.500	X	3.450	TUC	CAST IRON	CHROME		
	SWL03296-3 6	83.25		0.059		0.136					
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED		
REFERENCE #		TOP	2ND	OIL							
06A 198 151 C 06C 198 151 B											



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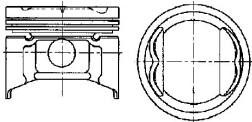
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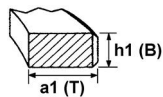
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.4L (86CID,1410CC),SOHC,4CYL, 74.000MM (2.913"), G12B / 1979-1984																
CHAMP / 79-82 COLT / 79-84	SWM31027-0	74.00	Top:	1.500	X	3.300	BF	CAST IRON	CHROME	11-020-0	74.00	TL:	58.00	PL:	60.00	CHK.
	SWM31027-1	74.25		0.059		0.130				11-020-1	74.25	CH:	29.00	PD:	18.00	DIA
	SWM31027-2	74.50	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-020-2	74.50	DIST1:	-1.50	Head:	NONE	10.00
	SWM31027-3	74.75		0.059		0.130				11-020-3	74.75	DIST2:		Skirt:	NONE	
	SWM31027-4	75.00		Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-020-4	75.00	DIST3:			
				0.157		0.128										
REFERENCE # MD031700		TOP	2ND		OIL		REFERENCE # MD030322									
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1991-1995																
COLT / 91-94 SUMMIT / 91-95	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-531-0	75.50	TL:	58.00	PL:	56.00	CHK.
	SWM31076-1	75.75		0.047		0.106				11-531-1	75.75	CH:	29.00	PD:	18.00	DIA
	SWM31076-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-531-2	76.00	DIST1:	-0.50	Head:	NONE	19.00
	SWM31076-3	76.25		0.059		0.130				11-531-3	76.25	DIST2:		Skirt:	NONE	
	SWM31076-4	76.50		Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-531-4	76.50	DIST3:			
				0.118		0.110										
REFERENCE # MD158549 MD180804		TOP	2ND		OIL		REFERENCE # MD144901 MD320435									
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1995-1996																
SUMMIT / 95-96	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31076-1	75.75		0.047		0.106										
	SWM31076-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWM31076-3	76.25		0.059		0.130										
	SWM31076-4	76.50		Oil:	3.000	X	2.800	NIFF-S	STEEL							NITRIDED
				0.118		0.110										
REFERENCE # MD158549 MD180804		TOP	2ND		OIL											
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15,G15B / 1987-1990																
COLT / 87-90 SUMMIT / 89-90	SWM31063-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-530-0	75.50	TL:	58.60	PL:	60.00	CHK.
	SWM31063-1	75.75		0.059		0.112				11-530-1	75.75	CH:	29.40	PD:	18.00	DIA
	SWM31063-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-530-2	76.00	DIST1:	-3.60	Head:	NONE	10.00
	SWM31063-3	76.25		0.059		0.130				11-530-3	76.25	DIST2:		Skirt:	NONE	
	SWM31063-4	76.50		Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-530-4	76.50	DIST3:			
				0.157		0.128										
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CHRYSLER

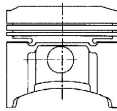
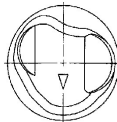
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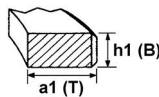
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G15B / 1985-1986																
COLT / 85-86	SWM31063-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-529-0	75.50	TL:	58.00	PL:	60.00	CHK.
	SWM31063-1	75.75		0.059		0.112				11-529-1	75.75	CH:	29.00	PD:	18.00	DIA
	SWM31063-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-529-2	76.00	DIST1:	-0.70	Head:	NONE	7.00
	SWM31063-3	76.25		0.059		0.130				11-529-3	76.25	DIST2:		Skirt:	NONE	
	SWM31063-4	76.50	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-529-4	76.50	DIST3:				
			0.157		0.128											
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
23040-21210					23410-21114											
23040-24200					MD074715											
MD074725																
MD156165																
MD156169																
1.6L (97CID,1597CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1989-1990																
COLT / 89-90	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	DISC-11-546-0	82.30					
	SWM31049-1	82.55		0.047		0.122				DISC-11-546-1	82.55					
	SWM31049-2	82.80	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-546-2	82.80					
	SWM31049-3	83.05		0.059		0.150				DISC-11-546-3	83.05					
	SWM31049-4	83.30	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	DISC-11-546-4	83.30					
			0.118		0.112											
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
23040-33030					MD129932											
MD133495																
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1976-1984																
ARROW / 76-77 CHALLENGER / 78-79 CHAMP / 79-82 COLT / 79-84	SWM31005-0	76.90	Top:	2.000	X	3.500	BF	CAST IRON	CHROME	DISC-11-023-0	76.90					
	SWM31005-1	77.15		0.079		0.138				DISC-11-023-1	77.15					
	SWM31005-2	77.40	2nd:	2.000	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-023-2	77.40					
	SWM31005-3	77.65		0.079		0.138				DISC-11-023-3	77.65					
	SWM31005-4	77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-023-4	77.90					
			0.157		0.150											
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
MD110632					MD009521											
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1984-1986 TURBO																
COLT / 84-86	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-024-0	76.90					
	SWM31043-1	77.15		0.059		0.122				DISC-11-024-1	77.15					
	SWM31043-2	77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-024-2	77.40					
	SWM31043-3	77.65		0.059		0.138				DISC-11-024-3	77.65					
	SWM31043-4	77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-024-4	77.90					
			0.157		0.150											
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
MD012765					MD074471											



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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1987-1990 TURBO																
COLT / 87-90	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-532-0	76.90					
	SWM31043-1	77.15		0.059		0.122				DISC-11-532-1	77.15					
	SWM31043-2	77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-532-2	77.40					
	SWM31043-3	77.65		0.059		0.138				DISC-11-532-3	77.65					
	SWM31043-4	77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-532-4	77.90					
	REFERENCE # MD012765	TOP 	2ND 	OIL 			REFERENCE # MD100254									
1.7L (105CID,1715CC),SOHC,4CYL, 79.500MM (3.130"), VW / 1978-1983																
HORIZON / 78-83	SWL01402-0	79.50	Top:	1.750	X	3.300	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
OMNI / 78-83	SWL01402-1	79.75		0.069		0.130										
TC3 / 82-82	SWL01402-2	80.00	2nd:	2.000	X	3.300	TUC	CAST IRON	PHOSPHATE							
TURISMO / 83-83	SWL01402-3	80.25		0.079		0.130										
	SWL01402-4	80.50	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME							
	REFERENCE # 4186268	TOP 	2ND 	OIL 												
1.8L (107CID,1755CC),SOHC,4CYL, 80.600MM (3.173"), 4G37 / 1989-1994																
COLT / 89-90	SWM31041-0	80.60	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-545-0	80.60	TL:	72.00	PL:	64.00	CHK.
LASER / 90-94	SWM31041-1	80.85		0.059		0.136				11-545-1	80.85	CH:	34.00	PD:	19.00	DIA
TALON / 93-94	SWM31041-2	81.10	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-545-2	81.10	DIST1:	4.00	Head:	NONE	15.00
	SWM31041-3	81.35		0.059		0.146				11-545-3	81.35	DIST2:		Skirt:	NONE	
	SWM31041-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-545-4	81.60	DIST3:				
	REFERENCE # MD040465	TOP 	2ND 	OIL 			REFERENCE # MD100416		 							
1.8L (110CID,1798CC),DOHC,4CYL, 86.000MM (3.386"), WORLD 1.8 / 2007-2009																
CALIBER / 07-09	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30042-1	86.25		0.047		0.120										
	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG30042-3	86.75		0.047		0.142										
	SWG30042-4	87.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME							
	REFERENCE # 1110A436 23040-2C400 5191418AB	TOP 	2ND 	OIL 												

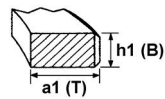


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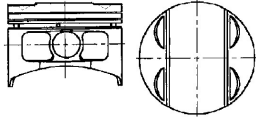
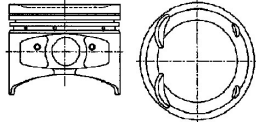
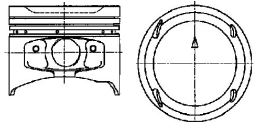
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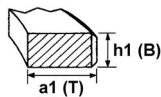
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1992-1992																
COLT VISTA / 92-92 SUMMIT / 92-92	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME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

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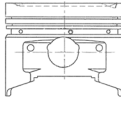
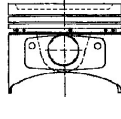
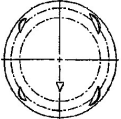
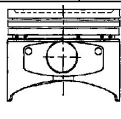
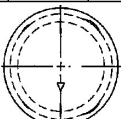
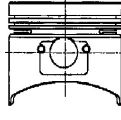
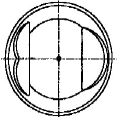
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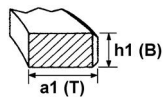
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (122CID,1996CC),DOHC,4CYL, 87.500MM (3.445"), 420A / 1995-1999																	
AVENGER / 95-99	SWM31120-0	87.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	11-735-0	87.50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



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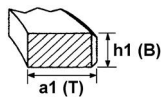
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1992-1994																
LASER / 92-94	SWM31071-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-718-0	85.00	TL:	67.00	PL:	62.00	CHK.
TALON / 93-94	SWM31071-1	85.25		0.047	0.122					11-718-1	85.25	CH:	35.00	PD:	22.00	DIA
	SWM31071-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-718-2	85.50	DIST1:	-2.20	Head:	NONE	10.00
	SWM31071-3	85.75		0.059	0.150					11-718-3	85.75	DIST2:	-3.60	Skirt:	NONE	
	SWM31071-4	86.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-718-4	86.00	DIST3:				
				0.118		0.100										
REFERENCE #		TOP	2ND	OIL	REFERENCE #					 						
MD176437					MD190262											
MD195867																
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1992-1994 TURBO																
LASER / 92-94	SWM31071-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-719-0	85.00	TL:	67.00	PL:	62.00	CHK.
TALON / 93-94	SWM31071-1	85.25		0.047	0.122					11-719-1	85.25	CH:	35.00	PD:	22.00	DIA
	SWM31071-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-719-2	85.50	DIST1:	-5.40	Head:	AH	10.00
	SWM31071-3	85.75		0.059	0.150					11-719-3	85.75	DIST2:		Skirt:	NONE	
	SWM31071-4	86.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-719-4	86.00	DIST3:				
				0.118		0.100										
REFERENCE #		TOP	2ND	OIL	REFERENCE #					 						
MD176437					MD308200											
MD195867																
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1995-1998																
TALON / 95-98	SWM31103-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-758-0	85.00	TL:	67.00	PL:	62.00	CHK.
	SWM31103-1	85.25		0.047	0.122					11-758-1	85.25	CH:	35.00	PD:	22.00	DIA
	SWM31103-2	85.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-758-2	85.50	DIST1:	-3.30	Head:	AH	10.00
	SWM31103-3	85.75		0.059	0.150					11-758-3	85.75	DIST2:		Skirt:	NONE	
	SWM31103-4	86.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-758-4	86.00	DIST3:				
				0.110		0.100										
REFERENCE #		TOP	2ND	OIL	REFERENCE #					 						
MD195805					MD307820											
MD313405																
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1983-1986																
COLT VISTA / 84-86	SWM31013-0	85.00	Top:	2.000	X	3.100	BF	STEEL	NITRIDED	11-027-0	85.00	TL:	72.20	PL:	72.00	CHK.
OMNI / 84-85	SWM31013-1	85.25		0.079	0.122					11-027-1	85.25	CH:	35.20	PD:	21.00	DIA
RAM 50 / 83-86	SWM31013-2	85.50	2nd:	2.000	X	3.700	T1	CAST IRON	PHOSPHATE	11-027-2	85.50	DIST1:	-5.20	Head:	NONE	30.00
	SWM31013-3	85.75		0.079	0.146					11-027-3	85.75	DIST2:	-7.70	Skirt:	NONE	
	SWM31013-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-027-4	86.00	DIST3:				
				0.157		0.128										
REFERENCE #		TOP	2ND	OIL	REFERENCE #					 						
MD040640					MD040591											



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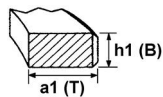
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1987-1991																						
COLT VISTA / 87-91 RAM 50 / 87-89	SWM31044-0	85.00	Top:	1.500	X	3.500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



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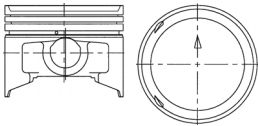
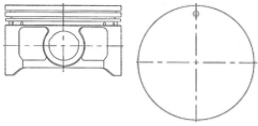
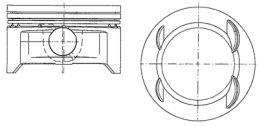
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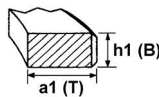
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.2L (135CID,2212CC),SOHC,4CYL, 87.500MM (3.445"), K,K 2.2,K 2.2T / 1981-1994															
400 / 82-83	SWC10003-0	87.50	Top:	1.500	3.800	BF	CAST IRON	CHROME	Pistons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



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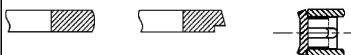
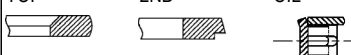
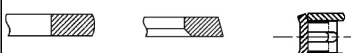
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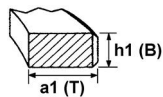
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1993-1996																
COLT VISTA / 93-94 SUMMIT / 93-96	SWM31116-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL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



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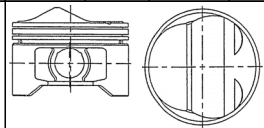
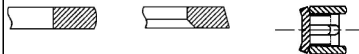
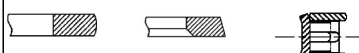
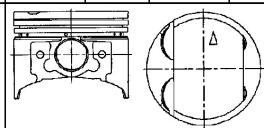
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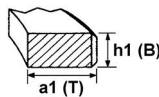
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDT 2.4 / 2003-2009																
NEON / 03-05	SWC10010-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for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



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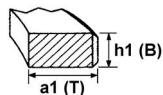
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO								
2.4L (148CID,2429CC),DOHC,4CYL, 87.500MM (3.445"), EDZ 2.4,EDZ Power Tech 2.4 / 2001-2008																		
CARAVAN / 01-04	SWC10007-0	87.50	Top:	1.500	X	3.300	BF-IB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



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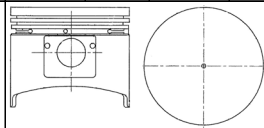
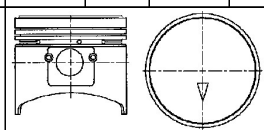
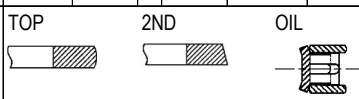
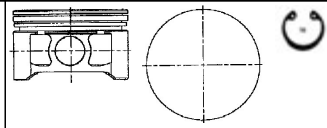
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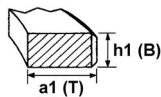
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2497CC),SOHC,6CYL, 83.500MM (3.287"), 6G73 / 1998-2000																
AVENGER / 00-00	SWC10009-0	83.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this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



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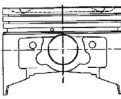
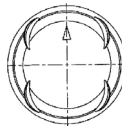
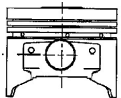
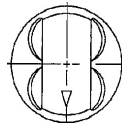
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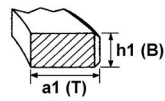
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1978-1985																
400 / 82-83	SWM31047-0	91.10	Top:	2.000	X	3.500	BF	DUCTILE IRON	CHROME	11-031-0	91.10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



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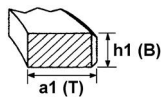
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO								
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1993																				
STEALTH / 91-93	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-547-0	91.10	TL:	65.90	PL:	64.00	CHK.				
	SWM31078-1	91.35		0.047	0.130	11-547-1				91.35	CH:	31.90	PD:	22.00	DIA					
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-547-2	91.60	DIST1:	-3.40	Head:	NONE	15.00				
	SWM31078-3	91.85		0.059	0.150	11-547-3				91.85	DIST2:	Skirt:	NONE							
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-547-4	92.10	DIST3:								
			0.118	0.114																
	REFERENCE #		TOP	2ND	OIL	REFERENCE #		 												
	MD158334					MD307972														
	MD301716																			
	MD329755																			
MD334192																				
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1996 TURBO																				
STEALTH / 91-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.										
	SWM31078-1	91.35		0.047	0.130															
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME											
	SWM31078-3	91.85		0.059	0.150															
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME											
			0.118	0.114																
	REFERENCE #		TOP	2ND	OIL	REFERENCE #		  												
	MD158334					MD307972														
	MD301716																			
	MD329755																			
MD334192																				
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1994-1996																				
STEALTH / 94-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-543-0	91.10	TL:	66.50	PL:	64.00	CHK.				
	SWM31078-1	91.35		0.047	0.130	11-543-1				91.35	CH:	32.00	PD:	22.00	DIA					
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-543-2	91.60	DIST1:	0.50	Head:	NONE	15.00				
	SWM31078-3	91.85		0.059	0.150	11-543-3				91.85	DIST2:	Skirt:	NONE							
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-543-4	92.10	DIST3:								
			0.118	0.114																
	REFERENCE #		TOP	2ND	OIL	REFERENCE #		 												
	MD158334					MD307958														
	MD301716																			
	MD329755																			
MD334192																				



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

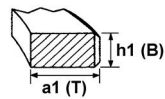


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.3L (201CID,3293CC),OHV,6CYL, 93.000MM (3.661"), EGA 3.3 / 1990-1993										
DYNASTY / 90-93	SWC10002-0	93.00	Top:	1.500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

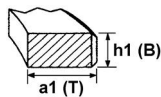
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
3.5L (215CID,3518CC),SOHC,6CYL, 96.000MM (3.780"), EGG 3.5 / 1999-2006																						
300 / 05-06	SWC10013-0	96.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-875-0	96.00	TL:	62.20	PL:	61.00	CHK.						
300M / 99-04	SWC10013-1	96.25		0.047		0.138				11-875-1	96.25	CH:	38.20	PD:	24.00	DIA						
CONCORDE / 02-04	SWC10013-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	11-875-2	96.50	DIST1:	-0.60	Head:	AH	9.00						
INTERPID / 00-02	SWC10013-3	96.75		0.059		0.157				11-875-3	96.75	DIST2:		Skirt:	MS							
LHS / 99-01	SWC10013-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME	11-875-4	97.00	DIST3:										
PROWLER / 99-02			0.118	0.136																		
REFERENCE # 4897035AA 4897035AB		TOP 2ND OIL						REFERENCE # 5010335AA 5010335AB														
3.5L (215CID,3518CC),SOHC,6CYL, 96.000MM (3.780"), EGG 3.5 / 2004-2010																						
300 / 07-10	SWC10013-0	96.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
AVENGER / 08-10	SWC10013-1	96.25		0.047		0.138																
CHALLENGER / 09-10	SWC10013-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE													
CHARGER / 06-10	SWC10013-3	96.75		0.059		0.157																
JOURNEY / 09-10	SWC10013-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME													
MAGNUM / 05-08			0.118	0.136																		
REFERENCE # 4897035AA 4897035AB		TOP 2ND OIL																				
3.5L (215CID,3523CC),SOHC,6CYL, 96.000MM (3.780"), EGJ 3.5 / 1995-1997																						
CONCORDE / 95-97	SWC10015-0	96.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
INTERPID / 95-97	SWC10015-1	96.25		0.047		0.138																
LHS / 95-97	SWC10015-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE													
NEW YORKER / 95-96	SWC10015-3	96.75		0.059		0.157																
VISION / 95-97	SWC10015-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED													
			0.118	0.126																		
REFERENCE # 4773023 68001386AA		TOP 2ND OIL																				
3.6L (220CID,3604CC),DOHC,6CYL, 96.000MM (3.780"), PENTASTAR 3.6 / 2011-2017																						
200 / 11-17	SWC10025-0	96.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-916-0	96.00	TL:	51.80	PL:	52.00	CHK.						
300 / 11-16	SWC10025-1	96.25		0.047		0.122				11-916-1	96.25	CH:	28.70	PD:	22.00	DIA						
AVENGER / 11-14	SWC10025-2	96.50	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1:	-0.30	Head:	AH	9.00						
CHALLENGER / 11-16	SWC10025-3	96.75		0.047		0.146				11-916-3	96.75	DIST2:		Skirt:	MS							
CHARGER / 11-16	SWC10025-4	97.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:										
DURANGO / 11-17			0.079	0.100																		
REFERENCE # 68078776AA		TOP 2ND OIL								REFERENCE # 5184347AG												
3.6L (220CID,3604CC),DOHC,6CYL, 96.000MM (3.780"), PENTASTAR 3.6 / 2011-2017																						
Grand Caraven / 11-17	SWC10025-0	96.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-916-0	96.00	TL:	51.80	PL:	52.00	CHK.						
Grand Cherokee / 11-17	SWC10025-1	96.25		0.047		0.122				11-916-1	96.25	CH:	28.70	PD:	22.00	DIA						
JOURNEY / 11-17	SWC10025-2	96.50	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1:	-0.30	Head:	AH	9.00						
PACIFICA / 17-17	SWC10025-3	96.75		0.047		0.146				11-916-3	96.75	DIST2:		Skirt:	MS							
RAM 1500 / 13-17	SWC10025-4	97.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:										
RAM CARGO VAN / 12-15			0.079	0.100																		
REFERENCE # 68078776AA		TOP 2ND OIL								REFERENCE # 5184347AG												
3.6L (220CID,3604CC),DOHC,6CYL, 96.000MM (3.780"), PENTASTAR 3.6 / 2011-2017																						
RAM PROMASTER / 14-16	SWC10025-0	96.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-916-0	96.00	TL:	51.80	PL:	52.00	CHK.						
TOWN & COUNTRY / 11-15	SWC10025-1	96.25		0.047		0.122				11-916-1	96.25	CH:	28.70	PD:	22.00	DIA						
WRANGLER / 12-16	SWC10025-2	96.50	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1:	-0.30	Head:	AH	9.00						
WRANGLER	SWC10025-3	96.75		0.047		0.146				11-916-3	96.75	DIST2:		Skirt:	MS							
UNLIMITED / 12-16	SWC10025-4	97.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:										
			0.079	0.100																		
REFERENCE # 68078776AA		TOP 2ND OIL								REFERENCE # 5184347AG												

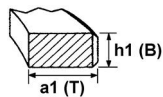
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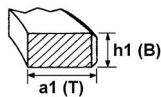
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.7L (225CID,3687CC),OHV,6CYL, 86.360MM (3.400"), SLANT 6 / 1974-1987																
CORDOBA / 80-83	SWC10017-0	86.36	Top:	1.984	X	4.000	BF	CAST IRON	CHROME	Pistons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



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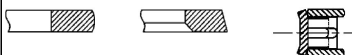
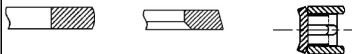
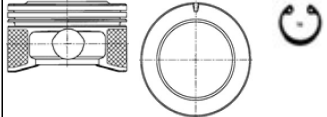
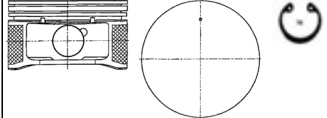
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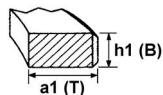
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.9L (239CID,3917CC),OHV,6CYL, 99.310MM (3.910"), LA 239 / 1988-1991																
DAKOTA / 88-91	SWC10018-0	99.31	Top:	1.984	X	4.500	BF-IB	CAST IRON	CHROME	11-855-0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



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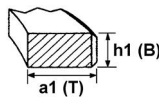
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
4.0L (242CID,3966CC),OHV,6CYL, 98.425MM (3.875"), AMC 242 / 1994-1995																			
CHEROKEE / 94-95	SWC10014-0 6	98.42	Top:	1.984	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.									
Grand Cherokee / 94-95	SWC10014-1 6	98.67		0.078		0.138													
WRANGLER / 94-95	SWC10014-2 6	98.92		2nd:		1.984					4.550								
	SWC10014-3 6	99.17	0.078		0.179														
	SWC10014-4 6	99.42	Oil:	4.763	X	4.150	NIF-S	STEEL	CHROME										
				0.188		0.163													
REFERENCE # 4762462			TOP	2ND		OIL													
4.0L (242CID,3966CC),OHV,6CYL, 98.430MM (3.875"), Power Tech 4.0 / 1996-2006																			
CHEROKEE / 96-01	SWC10012-0	98.43	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.									
Grand Cherokee / 96-04	SWC10012-1	98.68		0.059		0.138													
WRANGLER / 97-06	SWC10012-2	98.93		2nd:		1.500					4.500								
	SWC10012-3	99.18	0.059		0.177														
	SWC10012-4	99.43	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME										
				0.157		0.126													
REFERENCE # 4798878			TOP	2ND		OIL													
4.7L (287CID, 5899CC), SOHC, 8CYL, 93.000MM (3.661"), Vin-J Power Tech 4.7 / 2002-2007																			
COMMANDER / 06-07	SWC10021-0	93.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-D807-0	96.00	TL:	55.40	PL:	59.00	CHK.			
DAKOTA / 05-07	SWC10021-1	93.25		0.059		0.128							11-D807-1	96.25	CH:	33.50	PD:	24.02	DIA
DURANGO / 05-07	SWC10021-2	93.50		2nd:		1.500				3.900	T1-RC	CAST IRON	PHOSPHATE	11-D807-2	96.50	DIST1:	2.00	Head:	NONE
Grand Cherokee / 02-07	SWC10021-3	93.75	0.059		0.154	11-D807-3	96.75	DIST2:		Skirt:				NONE					
RAM 1500 / 05-07	SWC10021-4	94.00	Oil:	3.000	X	3.000	NIF-S	STEEL	CHROME	11-D807-4	97.00	DIST3:							
	AM Ring Available			0.118		0.118													
REFERENCE # 5012364AC			TOP	2ND		OIL		REFERENCE # 5018018AB											
4.7L (287CID,4703CC),SOHC,8CYL, 93.000MM (3.661"), Power Tech 4.7 / 1999-2007																			
ASPEN / 07-07	SWC10021-0	93.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-807-0	93.00	TL:	53.90	PL:	59.00	CHK.			
COMMANDER / 06-07	SWC10021-1	93.25		0.059		0.128							11-807-1	93.25	CH:	31.80	PD:	24.02	DIA
DAKOTA / 00-07	SWC10021-2	93.50		2nd:		1.500				3.900	T1-RC	CAST IRON	PHOSPHATE	11-807-2	93.50	DIST1:		Head:	NONE
DURANGO / 00-07	SWC10021-3	93.75	0.059		0.154	11-807-3	93.75	DIST2:		Skirt:				MS					
Grand Cherokee / 99-07	SWC10021-4	94.00	Oil:	3.000	X	3.000	NIF-S	STEEL	CHROME	11-807-4	94.00	DIST3:							
PICKUP / 02-02	AM Ring Available			0.118		0.118													
REFERENCE # 5012364AC			TOP	2ND		OIL		REFERENCE # 5012362AB 5012362AC											



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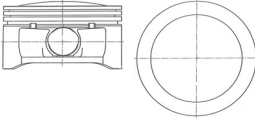
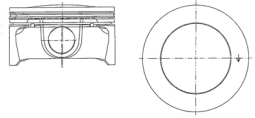
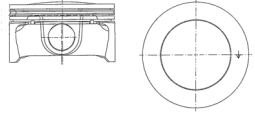
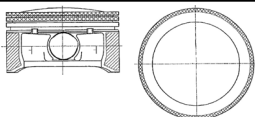
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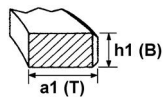
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.7L (287CID,4703CC),SOHC,8CYL, 93.000MM (3.661"), Power Tech 4.7 / 2008-2011																
ASPEN / 08-09	SWG10011-0	93.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-902-0	93.00	TL:	56.50	PL:	58.00	CHK.
COMMANDER / 08-10	SWG10011-1	93.25		0.047	0.138				11-902-1	93.25	CH:	35.40	PD:	23.00	DIA	
DAKOTA / 08-11	SWG10011-2	93.50	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE	11-902-2	93.50	DIST1:	5.30	Head:	AH	8.00
DURANGO / 08-09	SWG10011-3	93.75		0.059	0.154				11-902-3	93.75	DIST2:		Skirt:	MS		
Grand Cherokee / 08-08	SWG10011-4	94.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	NITRIDED	11-902-4	94.00	DIST3:				
RAM 1500 / 08-10	AM Ring Available			0.098	0.102											
REFERENCE # 12564801		TOP	2ND		OIL		REFERENCE # 68031605AD									
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), LA 318 / 1974-1985																
CORDOBA / 80-83	SWC10019-0	99.31	Top:	1.984	X	4.500	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
DIPLOMAT / 80-85	SWC10019-1	99.56		0.078	0.177											
Fifth Avenue / 83-85	SWC10019-2	99.81	2nd:	1.984	X	4.500	T1-RB	CAST IRON	PHOSPHATE							
GRAN FURY / 80-85	SWC10019-3	100.06		0.078	0.177											
IMPERIAL / 81-83	SWC10019-4	100.31	Oil:	4.763	X	4.200	NIFF-S	STEEL	CHROME							
LeBARON / 80-81				0.188	0.165											
MIRADA / 80-83	REFERENCE #	TOP	2ND		OIL											
NEW YORKER / 80-82	2808550															
NEWPORT / 80-81	2808553															
PICKUP / 74-85	3780007															
RAM VAN / 74-85																
RAMCHARGER / 74-85																
St. Regis / 80-81																
TRAILDUSTER / 74-81																
VOLARE / 80-80																
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), MAGNUM 5.2 / 1985-1991																
DAKOTA / 89-91	SWC10019-0	99.31	Top:	1.984	X	4.500	BF-IB	CAST IRON	CHROME	11-821-0	99.31	TL:	86.40	PL:	76.00	CHK.
DIPLOMAT / 86-89	SWC10019-1	99.56		0.078	0.177				11-821-1	99.56	CH:	43.80	PD:	22.00	DIA	
Fifth Avenue / 86-89	SWC10019-2	99.81	2nd:	1.984	X	4.500	T1-RB	CAST IRON	PHOSPHATE	11-821-2	99.81	DIST1:		Head:	NONE	14.00
GRAN FURY / 86-89	SWC10019-3	100.06		0.078	0.177				11-821-3	100.06	DIST2:		Skirt:	NONE		
PICKUP / 85-91	SWC10019-4	100.31	Oil:	4.763	X	4.200	NIFF-S	STEEL	CHROME	11-821-4	100.31	DIST3:				
RAM VAN / 85-91				0.188	0.165											
RAMCHARGER / 85-91	REFERENCE #	TOP	2ND		OIL		REFERENCE # 4397779									
	2808550															
	2808553															
	3780007															
5.2L (318CID,5211CC),OHV,8CYL, 99.310MM (3.910"), MAGNUM 5.2 / 1992-2002																
DAKOTA / 92-99	SWC10020-0	99.31	Top:	2.000	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
DURANGO / 98-00	SWC10020-1	99.56		0.079	0.136											
Grand Cherokee / 93-98	SWC10020-2	99.81	2nd:	2.000	X	4.500	T1	CAST IRON	PHOSPHATE							
PICKUP / 92-96	SWC10020-3	100.06		0.079	0.177											
RAM 1500 / 94-01	SWC10020-4	100.31	Oil:	4.000	X	3.100	NIFF-S	STEEL	NITRIDED							
RAM 2500 / 94-96				0.157	0.122											
RAM VAN / 92-02	REFERENCE #	TOP	2ND		OIL											
RAMCHARGER / 92-93	4638060															
	4720727															



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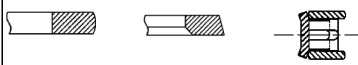
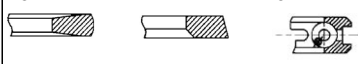
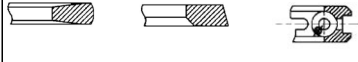
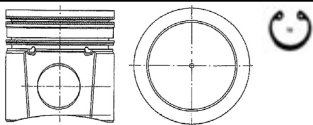
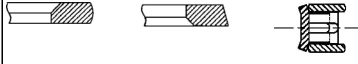
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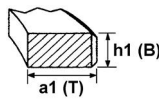
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
5.7L (345CID,5654CC),OHV,8CYL, 99.500MM (3.917"), EZB HEMI 5.7,HEMI 5.7,HEMI 5.7H / 2005-2010																	
300 / 07-09	SWC10016-0	99.50	Top:	1.500	X	3.500	BF	STEEL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



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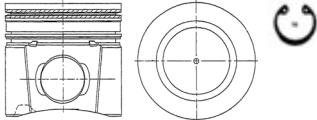
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.9L (360.0 CID, 5899.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), MAGNUM 5.9 / 1994-2003																
DAKOTA / 98-03	SWF80011-0	101.60	Top:	X	4.17 0.164	BF	DUCTILE IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
DURANGO / 98-03	SWF80011-1	101.85														
Grand Cherokee / 98-98	SWF80011-2	102.10														
PICK UP / 94-02	SWF80011-3	102.35	2nd:	X	4.45 0.175	T1-RB	CAST IRON	PHOSPHATE								
RAM 1500 / 97-03	SWF80011-4	102.60														
RAM 2500 / 94-02			Oil:	X	2.61 0.103	NIFF-S	STEEL	CHROME								
RAM 3500 / 97-02																
RAM VAN / 99-02	REFERENCE # 4740259 E5TZ 6148 EE F2ZZ 6148 A F6TZ 6148 AA		TOP	2ND	OIL											
5.9L (360CID,5899CC),OHV,6CYL, 102.000MM (4.016"), 6BT,ISB 5.9 / 1989-2002 DIESEL																
PICKUP / 89-02	SDC10022-0	102.00	Top:	X	3.0K 0.118K	BF-K1	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
RAM 2500 / 97-02	SDC10022-1	102.25														
RAM 3500 / 97-02	SDC10022-2	102.50														
	SDC10022-3	102.75	2nd:	X	2.350 0.093	4.300 0.169	T1-RC	CAST IRON			PHOSPHATE					
	SDC10022-4	103.00														
			Oil:	X	4.000 0.157	4.300 0.169	E-BC16	CAST IRON			CHROME					
	REFERENCE # 4089258 4638644 5011858AA		TOP	2ND	OIL											
5.9L (360CID,5899CC),OHV,6CYL, 102.000MM (4.016"), ISB 5.9 / 2003-2008 DIESEL																
RAM 2500 / 03-08	SDC10022-0	102.00	Top:	X	3.0K 0.118K	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL:	105.20	PL:	83.00	CHK.	
RAM 3500 / 03-08	SDC10022-1	102.25								11-856-1	102.25	CH:	71.40	PD:	40.00	DIA
	SDC10022-2	102.50								11-856-2	102.50	DIST1:	-12.50	Head:	NONE	20.00
	SDC10022-3	102.75	2nd:	X	2.350 0.093	4.300 0.169	T1-RC	CAST IRON	PHOSPHATE	11-856-3	102.75	DIST2:	Skirt:	NONE		
	SDC10022-4	103.00									11-856-4	103.00	DIST3:			
			Oil:	X	4.000 0.157	4.300 0.169	E-BC16	CAST IRON	CHROME							
	REFERENCE # 4089258 4638644 5011858AA		TOP	2ND	OIL				REFERENCE # 3970192							
5.9L (360CID,5899CC),OHV,8CYL, 101.600MM (4.000"), LA 360,MAGNUM 5.9 / 1974-1993																
CORDOBA / 80-80	SWF80016-0	101.60	Top:	X	1.984 0.078	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
GRAN FURY / 80-80	SWF80016-1	101.85														
MIRADA / 80-80	SWF80016-2	102.10														
NEW YORKER / 80-80	SWF80016-3	102.35	2nd:	X	1.984 0.078	4.650 0.183	T1-RC	CAST IRON			PHOSPHATE					
NEWPORT / 80-80	SWF80016-4	102.60														
PICKUP / 74-93			Oil:	X	4.763 0.188	4.600 0.181	NIFF-S	STEEL			CHROME					
RAM VAN / 74-93	REFERENCE #		TOP	2ND	OIL											
RAMCHARGER / 74-93	12507985															
St. Regis / 80-80	14089025															
TRAILDUSTER / 74-81	3579044															
VOLARE / 80-80	3780016															
	88894219															
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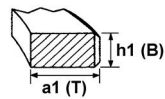
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
6.7L (408CID,6690CC),OHV,6CYL, 107.000MM (4.213"), B6.7 / 2007-2015 DIESEL																
RAM 2500 / 07-10	SDC10023-0	107.00	Top:	3.0K	X	4.400	BF-K1	DUCTILE IRON	CHROME	11-885-0	107.00	TL:	103.20	PL:	90.50	CHK.
RAM 3500 / 09-15	SDC10023-1	107.25		0.118K	0.173	11-885-1				107.25	CH:	69.40	PD:	40.00	DIA	
RAM 3500 Chassis Cab / 07-15	SDC10023-2	107.50	2nd:	2.500	X	4.500	T1-RB	CAST IRON	PHOSPHATE	11-885-2	107.50	DIST1:	-22.00	Head:	NONE	20.00
	SDC10023-3	107.75		0.098	0.177	11-885-3				107.75	DIST2:	Skirt:	NONE			
	SDC10023-4	108.00	Oil:	3.500	X	4.150	E-BC16	CAST IRON	CHROME	11-885-4	108.00	DIST3:				
REFERENCE # 4955366		TOP	2ND		OIL		REFERENCE # 4955365									

DAEWOO

DAEWOO

1.5L (95CID,1549CC),SOHC,4CYL, 76.500MM (3.012"), D-TEC / 1999-1999																
LANOS / 99-99	SWD20003-0	76.50	Top:	1.500	X	2.650	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWD20003-1	76.75		0.059		0.104										
	SWD20003-2	77.00	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE							
	SWD20003-3	77.25		0.059		0.126										
	SWD20003-4	77.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
REFERENCE # 90273451		TOP	2ND	OIL												
1.6L (98CID,1598CC),DOHC,4CYL, 79.000MM (3.110"), E-TEC / 2000-2002																
LANOS / 00-02	SWD20004-0	79.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-779-0	79.00	TL:	51.30	PL:	54.70	CHK.
	SWD20004-1	79.25		0.047		0.120				11-779-1	79.25	CH:	28.30	PD:	18.00	DIA
	SWD20004-2	79.50	2nd:	1.500	X	3.300	E-BC16	CAST IRON	PHOSPHATE	11-779-2	79.50	DIST1:	-2.90	Head:	NONE	8.00
	SWD20004-3	79.75		0.059		0.130				11-779-3	79.75	DIST2:		Skirt:	NONE	
	SWD20004-4	80.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-779-4	80.00	DIST3:				
REFERENCE # 93740225		TOP	2ND	OIL	REFERENCE # 96182846											
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), E-TEC II / 1999-2002																
NUBIRA / 99-02	SWD20006-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWD20006-1	86.25		0.059		0.136										
	SWD20006-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWD20006-3	86.75		0.059		0.138										
	SWD20006-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME							
REFERENCE # 92062027		TOP	2ND	OIL												



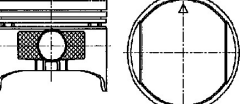
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.2L (134CID,2198CC),DOHC,4CYL, 86.000MM (3.386"), E-TEC II / 1999-2002										
LEGANZA / 99-02	SWD20006-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWD20006-1	86.25		0.059	0.136					
	SWD20006-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	
	SWD20006-3	86.75		0.059	0.138					
	SWD20006-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	
	REFERENCE #		TOP	2ND	OIL					
	92062027									

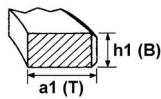
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1.0L (61CID,997CC),3CYL, 76.000MM (2.992"), CB10, G10 / 1988-1992										
CHARADE / 88-92	SWD10036-0	76.00	Top:	1.500	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: <u>www.npramerica.com</u> for the latest product availability information.
	SWD10036-1	76.25		0.059		0.114				
	SWD10036-2	76.50	2nd:	1.500	X	3.100	T1	CAST IRON	CHROME	
	SWD10036-3	76.75		0.059		0.122				
	SWD10036-4	77.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	
		0.110	0.100							
	REFERENCE # 13011-87727-000		TOP	2ND		OIL				

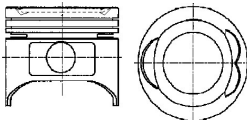
1.3L (79CID,1295CC),4CYL, 76.000MM (2.992"), G102S, HCE / 1989-1992																
CHARADE / 89-92	SWD10031-0	76.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-688-0	76.00					
	SWD10031-1	76.25		0.047	0.112	DISC-11-688-1				76.25						
	SWD10031-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-688-2	76.50					
	SWD10031-3	76.75		0.059	0.126	DISC-11-688-3				76.75						
	SWD10031-4	77.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	DISC-11-688-4	77.00					
	REFERENCE # 13011-87108-000	TOP		2ND		OIL			REFERENCE # 13101-87105-000							
																

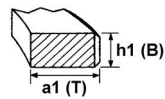
1.6L (97CID,1589CC),SOHC,4CYL, 76.000MM (2.992"), HDE / 1990-1992																
ROCKY / 90-92	SWD10031-0	76.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-689-0	76.00	TL:	60.70	PL:	58.00	CHK.
	SWD10031-1	76.25		0.047	0.112	11-689-1				76.25	CH:	30.70	PD:	19.00	DIA	
	SWD10031-2	76.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-689-2	76.50	DIST1:	-0.50	Head:	NONE	15.00
	SWD10031-3	76.75		0.059	0.126	11-689-3				76.75	DIST2:	Skirt:	NONE			
	SWD10031-4	77.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-689-4	77.00	DIST3:				
REFERENCE # 13011-87108-000		TOP		2ND		OIL		REFERENCE # 13101-87113-010								



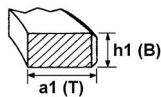
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.3L (81CID,1322CC),SOHC,4CYL, 71.000MM (2.795"), B3 / 1994-1997																	
ASPIRE / 94-97	SWT20052-0	71.00	Top:	1.200	X	2.470	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20052-1	71.25		0.047		0.097											
	SWT20052-2	71.50	2nd:	1.500	X	3.100	TUC	CAST IRON	PHOSPHATE								
	SWT20052-3	71.75		0.059		0.122											
	SWT20052-4	72.00	Oil:	3.000	X	2.920	NIFF-S	STEEL	CHROME								
		0.118	0.115														
REFERENCE # E9BZ 6149 A F4BZ 6149 A		TOP	2ND		OIL												
1.3L (81CID,1324CC),SOHC,4CYL, 71.000MM (2.795"), B3 / 1988-1993																	
FESTIVA / 88-93	SWT20052-0	71.00	Top:	1.200	X	2.470	BF	STEEL	CHROME		11-589-0	71.00	TL:	60.00	PL:	55.00	CHK. DIA 12.00
	SWT20052-1	71.25		0.047		0.097					11-589-1	71.25	CH:	28.70	PD:	20.00	
	SWT20052-2	71.50	2nd:	1.500	X	3.100	TUC	CAST IRON	PHOSPHATE		11-589-2	71.50	DIST1:	-1.00	Head:	NONE	
	SWT20052-3	71.75		0.059		0.122				11-589-3	71.75	DIST2:	-4.00	Skirt:	NONE		
	SWT20052-4	72.00	Oil:	3.000	X	2.920	NIFF-S	STEEL	CHROME	11-589-4	72.00	DIST3:					
		0.118	0.115														
REFERENCE # E9BZ 6149 A F4BZ 6149 A		TOP	2ND		OIL		REFERENCE # E8BZ 6108 A										
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6 / 1988-1989																	
TRACER / 88-89	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-577-0	78.00						
	SWT20060-1	78.25		0.059		0.122				DISC-11-577-1	78.25						
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-577-2	78.50						
	SWT20060-3	78.75		0.059		0.134				DISC-11-577-3	78.75						
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-577-4	79.00						
		0.157	0.118														
REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND		OIL		REFERENCE # B6Y0-11-SA0A E9GZ 6108 A										
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6 / 1991-1994																	
CAPRI / 91-94	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20060-1	78.25		0.059		0.122											
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME								
	SWT20060-3	78.75		0.059		0.134											
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED								
		0.157	0.118														
REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND		OIL												



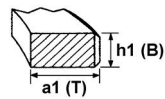
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05 / 1991-1996																
ESCORT / 91-96 TRACER / 91-96	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED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



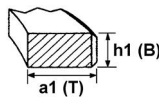
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (121CID,1986CC),SOHC,4CYL, 84.860MM (3.341"), CVH 2.0 / 2000-2004																
FOCUS / 00-04	SWF30005-0	84.86	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF30005-1	85.11		0.059		0.122										
	SWF30005-2	85.36	2nd:	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE							
	SWF30005-3	85.61		0.059		0.154										
	SWF30005-4	85.86	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
	AM Ring Available			0.118		0.122										
REFERENCE # F7CZ 6148 AA		TOP	2ND	OIL												
2.0L (121CID,1991CC),DOHC,4CYL, 83.000MM (3.268"), FS / 1993-1997																
PROBE / 93-97	SWF30001-0	83.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED		11-706-0	83.00	TL:	53.80	PL:	58.00
	SWF30001-1	83.25		0.047		0.122				11-706-1	83.25	CH:	30.00	PD:	19.00	DIA
	SWF30001-2	83.50	2nd:	1.500	X	3.600	TUC	STEEL	PHOSPHATE	11-706-2	83.50	DIST1:	-8.40	Head:	NONE	10.00
	SWF30001-3	83.75		0.059		0.142				11-706-3	83.75	DIST2:		Skirt:	NONE	
	SWF30001-4	84.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-706-4	84.00	DIST3:				
				0.118		0.126										
REFERENCE # E62Z 6149 AA		TOP	2ND	OIL	REFERENCE # F72Z 6108 AA FSY1-11-SA0D FSY3-11-SA0D											
2.0L (121CID,1991CC),DOHC,4CYL, 84.800MM (3.339"), ZETEC-R 2.0 / 1998-2000																
CONTOUR / 98-00 COUGER / 99-99 ESCORT / 98-99 MYSTIQUE / 98-00	SWF30002-0	84.80	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF30002-1	85.05		0.059		0.120										
	SWF30002-2	85.30	2nd:	1.750	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF30002-3	85.55		0.069		0.154										
	SWF30002-4	85.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
	AM Ring Available			0.118		0.126										
REFERENCE # F8CZ 6148 AA YF09-11-100A YS4Z 6135 AA		TOP	2ND	OIL												
2.0L (121CID,1991CC),DOHC,4CYL, 84.800MM (3.339"), ZETEC-R 2.0 / 2000-2004																
COUGER / 01-02 ESCAPE / 01-04 FOCUS / 00-04 ZX2 / 00-03	SWF30002-0	84.80	Top:	1.500	X	3.050	BF	STEEL	CHROME		11-865-0	84.80	TL:	54.20	PL:	59.00
	SWF30002-1	85.05		0.059		0.120				11-865-1	85.05	CH:	29.40	PD:	20.00	DIA
	SWF30002-2	85.30	2nd:	1.750	X	3.900	TUC	CAST IRON	PHOSPHATE	11-865-2	85.30	DIST1:	0.80	Head:	NONE	11.00
	SWF30002-3	85.55		0.069		0.154				11-865-3	85.55	DIST2:		Skirt:	MS	
	SWF30002-4	85.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-865-4	85.80	DIST3:				
	AM Ring Available			0.118		0.126										
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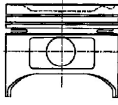
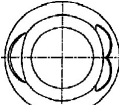
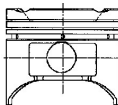
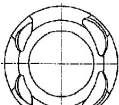
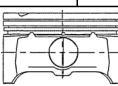


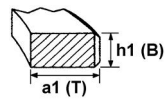
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (121CID,1991CC),DOHC,4CYL, 84.860MM (3.341"), ZETEC-E 2.0 / 1995-1997																	
CONTOUR / 95-97 MYSTIQUE / 95-97	SWF30007-0 SWF30007-1 SWF30007-2 SWF30007-3 SWF30007-4 AM Ring Available	84.86 85.11 85.36 85.61 85.86	Top: 2nd: Oil:	1.500 0.059 1.750 0.069 3.000 0.118	X X X	3.100 0.122 3.800 0.150 3.100 0.122	BF TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	REFERENCE # F5RZ 6148 A		TOP 	2ND 	OIL 												
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 20 HI,DURATEC 20H,EcoBoost 20T / 2010-2017																	
C-Max / 13-16 EDGE / 12-16 ESCAPE / 13-16 EXPLORER / 12-15 FOCUS / 10-15 FUSION / 13-16 FUSION HYBRID / 13-15 MKC / 15-17 MKZ / 13-15 MKZ HYBRID / 13-15 TAURUS / 13-16	SWF30023-0 SWF30023-1 SWF30023-2 SWF30023-3 SWF30023-4 REFERENCE # AG9Z 6148 A CM5Z 6148 AB EJ7E 6148 AA	87.50 87.75 88.00 88.25 88.50	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.000 0.079	X X X	2.900 0.114 3.400 0.134 2.500 0.098	BF TUC NIFF-H	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	REFERENCE # AG9Z 6148 A CM5Z 6148 AB EJ7E 6148 AA		TOP 	2ND 	OIL 												
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 20 LF / 2005-2013																	
FOCUS / 05-10 TRANSIT CONNECT / 10-13	SWT20090-0 SWT20090-1 SWT20090-2 SWT20090-3 SWT20090-4 REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A	87.50 87.75 88.00 88.25 88.50	Top: 2nd: Oil:	1.200 0.047 1.200 0.047 2.500 0.098	X X X	2.700 0.106 3.400 0.134 2.600 0.102	BF-IB TUC NIFF-S	STEEL CAST IRON STEEL	NITRIDED PHOSPHATE NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP 	2ND 	OIL 												
2.2L (133CID,2184CC),SOHC,4CYL, 86.000MM (3.386"), F2 / 1989-1992																	
PROBE / 89-92	SWT20048-0 SWT20048-1 SWT20048-2 SWT20048-3 SWT20048-4 REFERENCE # E92Z 6149 A F2Y1-11-SC0	86.00 86.25 86.50 86.75 87.00	Top: 2nd: Oil:	1.500 0.059 1.500 0.059 4.000 0.157	X X X	3.250 0.128 3.800 0.150 3.200 0.126	BF TUC NIFF-S	STEEL CAST IRON STEEL	CHROME PHOSPHATE CHROME	11-582-0 11-582-1 11-582-2 11-582-3 11-582-4 REFERENCE # E92Z 6108 G F2Y2-11-SA0A	86.00 86.25 86.50 86.75 87.00	TL: CH: DIST1: DIST2: DIST3:	71.50 36.50 -7.00	PL: PD: Head: Skirt:	66.00 22.00 NONE NONE	CHK. DIA 15.00	
	REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP 	2ND 	OIL 												



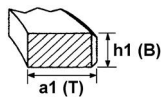
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
2.2L (133CID,2184CC),SOHC,4CYL, 86.000MM (3.386"), F2 / 1989-1992																							
PROBE / 89-92	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-583-0	86.00	TL:	71.00	PL:	67.00	CHK.							
	SWT20048-1	86.25		0.059		0.128				11-583-1	86.25	CH:	36.00	PD:	22.00	DIA							
	SWT20048-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-583-2	86.50	DIST1:	-5.40	Head:	NONE	10.00							
	SWT20048-3	86.75		0.059		0.150				11-583-3	86.75	DIST2:		Skirt:	NONE								
	SWT20048-4	87.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-583-4	87.00	DIST3:											
				0.157		0.126																	
	REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP	2ND		OIL		REFERENCE # F2Y4-11-SA0A															
																							
	2.2L (133CID,2184CC),SOHC,4CYL, 86.000MM (3.386"), F2 / 1989-1992 TURBO																						
	PROBE / 89-92	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-573-0	86.00	TL:	71.40	PL:	67.00	CHK.						
SWT20048-1		86.25	0.059		0.128		11-573-1				86.25	CH:	36.50	PD:	22.00	DIA							
SWT20048-2		86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-573-2	86.50	DIST1:	-9.50	Head:	NONE	15.00							
SWT20048-3		86.75		0.059		0.150				11-573-3	86.75	DIST2:		Skirt:	NONE								
SWT20048-4		87.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-573-4	87.00	DIST3:											
				0.157		0.126																	
REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP	2ND		OIL		REFERENCE # E92Z 6108 D F220-11-SA0																
																							
2.3L (138CID,2261CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 23EW,DURATEC 23H / 2004-2009																							
ESCAPE / 05-08 ESCAPE HYBRID / 05-08 FOCUS / 04-08 FUSION / 06-09 MARINER / 05-08 MARINER HYBRID / 06-08 MILAN / 06-08		SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-843-0	87.50	TL:	51.00	PL:	61.50	CHK.						
	SWT20090-1	87.75	0.047		0.106		11-843-1				87.75	CH:	28.50	PD:	21.00	DIA							
	SWT20090-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-843-2	88.00	DIST1:	-4.00	Head:	AH	10.00							
	SWT20090-3	88.25		0.047		0.134				11-843-3	88.25	DIST2:		Skirt:	MS								
	SWT20090-4	88.50	Oil:	2.500	X	2.600	NIFF-S	STEEL	NITRIDED	11-843-4	88.50	DIST3:											
				0.098		0.102																	
	REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP	2ND		OIL		REFERENCE # L3Y9-11-010															
																							
	2.3L (138CID,2261CC),DOHC,4CYL, 87.500MM (3.445"), DURATEC 23NS / 2001-2011																						
	RANGER / 01-11	SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
SWT20090-1		87.75	0.047		0.106																		
SWT20090-2		88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE														
SWT20090-3		88.25		0.047		0.134																	
SWT20090-4		88.50	Oil:	2.500	X	2.600	NIFF-S	STEEL	NITRIDED														
				0.098		0.102																	
REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP	2ND		OIL																		
																							



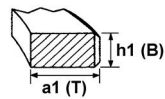
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
2.3L (140CID,2295CC),SOHC,4CYL, 96.000MM (3.780"), OHC 2.3 / 1984-1994											
AEROSTAR / 86-87	SWT20071-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
CAPRI / 85-85	SWT20071-1	96.25		0.059		0.157					
MARQUIS / 84-86	SWT20071-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE		
MUSTANG / 84-93	SWT20071-3	96.75		0.059		0.157					
RANGER / 85-94	SWT20071-4	97.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME		
THUNDERBIRD / 84-88				0.157		0.128					
REFERENCE #		TOP	2ND		OIL						
F1ZZ 6148 A											
ZZM0-23-130											
ZZM9-23-130											
2.3L (140CID,2298CC),SOHC,4CYL, 96.000MM (3.780"), OHC 2.3 / 1995-1997											
RANGER / 95-97	SWT20076-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWT20076-1	96.25		0.059		0.157					
	SWT20076-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE		
	SWT20076-3	96.75		0.059		0.157					
	SWT20076-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME		
				0.118		0.136					
REFERENCE #		TOP	2ND		OIL						
F67Z 6148 AA											
F87Z 6148 AA											
ZZP0-23-130											
2.3L (141CID,2311CC),OHV,4CYL, 93.470MM (3.680"), HSC 2.3 / 1984-1994											
TEMPO / 84-94	SWF30011-0	93.47	Top:	2.000	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
TOPAZ / 84-94	SWF30011-1	93.72		0.079		0.130					
	SWF30011-2	93.97	2nd:	2.000	X	4.300	T1-RB	CAST IRON	PHOSPHATE		
	SWF30011-3	94.22		0.079		0.169					
	SWF30011-4	94.47	Oil:	4.760	X	4.200	NIFF-S	STEEL	CHROME		
				0.187		0.165					
REFERENCE #		TOP	2ND		OIL						
E63Z 6148 A*											
2.3L (143CID,2346CC),SOHC,4CYL, 91.100MM (3.587"), 4D55 / 1985-1987 DIESEL											
BRONCO II / 85-85	SDM31038-0	91.10	Top:	2.500	X	3.250	BF-K2	STEEL	CHROME		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
RANGER / 86-87	SDM31038-1	91.35		0.098		0.128					
	SDM31038-2	91.60	2nd:	2.000	X	3.900	T1-K2	CAST IRON	CHROME		
	SDM31038-3	91.85		0.079		0.154					
	SDM31038-4	92.10	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED		
				0.157		0.171					
REFERENCE #		TOP	2ND		OIL						
E5TZ 6149 A											
MD103391											



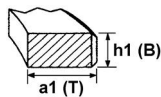
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), DURATEC 25,DURATEC 25H / 2009-2017																
ESCAPE / 09-17	SWF30024-0	89.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ESCAPE HYBRID / 09-12	SWF30024-1	89.25		0.047	0.114											
FUSION / 10-17	SWF30024-2	89.50		2nd:	1.200	X	3.800	TUC	CAST IRON		PHOSPHATE					
FUSION HYBRID / 10-12	SWF30024-3	89.75	0.047		0.150											
MARINER / 09-10	SWF30024-4	90.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED							
MARINER HYBRID / 09-10				0.098	0.096											
MILAN HYBRID / 10-10	REFERENCE #	TOP	2ND	OIL												
MKZ HYBRID / 11-12	9E5Z 6148 A															
TRANSIT CONNECT / 14-17																
2.5L (152CID,2496CC),OHV,4CYL, 93.470MM (3.680"), HSC 2.5 / 1986-1991																
SABLE / 86-86	SWF30011-0	93.47	Top:	2.000	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
TAURUS / 86-91	SWF30011-1	93.72		0.079	0.130											
	SWF30011-2	93.97	2nd:	2.000	X	4.300	T1-RB	CAST IRON	PHOSPHATE							
	SWF30011-3	94.22		0.079	0.169											
	SWF30011-4	94.47	Oil:	4.760	X	4.200	NIFF-S	STEEL	CHROME							
				0.187	0.165											
	REFERENCE #	TOP	2ND	OIL												
	E63Z 6148 A*															
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL / 1993-1997																
PROBE / 93-97	SWT20073-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-716-0	84.50	TL:	55.90	PL:	61.00	CHK. DIA 11.00
	SWT20073-1	84.75		0.059	0.120					11-716-1	84.75	CH:	29.20	PD:	19.98	
	SWT20073-2	85.00	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-716-2	85.00	DIST1:	-1.70	Head:	NONE	
	SWT20073-3	85.25		0.059	0.142					11-716-3	85.25	DIST2:		Skirt:	MS	
	SWT20073-4	85.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-716-4	85.50	DIST3:				
		0.118		0.114												
	REFERENCE #	TOP	2ND	OIL												
	E32Z 6149 D															
	E42Z 6149 D															
	KLY2-11-SC0A															
2.5L (153CID,2507CC),SOHC,4CYL, 96.000MM (3.780"), OHC 2.5 / 1998-2001																
RANGER / 98-01	SWT20076-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20076-1	96.25		0.059	0.157											
	SWT20076-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20076-3	96.75		0.059	0.157											
	SWT20076-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME							
		0.118		0.136												
	REFERENCE #	TOP	2ND	OIL												
	F67Z 6148 AA															
	F87Z 6148 AA															
	ZZP0-23-130															



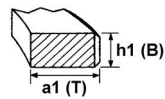
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
2.5L (155CID,2540CC),DOHC,6CYL, 82.420MM (3.245"), DURATEC 25SVT,DURATEC VE / 1995-2002																							
CONTOUR / 95-00	SWF30003-0	82.42	Top:	1.200 0.047	X	2.900 0.114	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
COUGER / 99-02	SWF30003-1	82.67																					
MYSTIQUE / 95-00	SWF30003-2	82.92																					
	SWF30003-3	83.17																					
	SWF30003-4	83.42	2nd:	1.500 0.059	X	3.600 0.142	TUC	CAST IRON	PHOSPHATE														
	AM Ring Available		Oil:	3.000 0.118	X	2.850 0.112	NIFF-S	STEEL	NITRIDED														
	REFERENCE #	TOP	2ND	OIL																			
	F5RZ 6148 E																						
	XS2Z 6148 AA																						
2.9L (177CID,2901CC),OHV,6CYL, 93.000MM (3.661"), COLOGNE 29 / 1986-1992																							
BRONCO II / 86-90	SWF30014-0	93.00	Top:	1.600 0.063	X	3.900 0.154	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
RANGER / 86-92	SWF30014-1	93.25																					
SCORPIO / 88-89	SWF30014-2	93.50																					
	SWF30014-3	93.75																					
	SWF30014-4	94.00	2nd:	1.750 0.069	X	3.900 0.154	T1	CAST IRON	PHOSPHATE														
			Oil:	3.500 0.138	X	3.050 0.120	NIFF-S	STEEL	NITRIDED														
	REFERENCE #	TOP	2ND	OIL																			
	E7RY 6148 A																						
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1993-1998																							
VILLAGER / 93-98	SWN30058-0	87.00	Top:	1.500 0.059	X	3.100 0.122	BF	STEEL	NITRIDED		11-603-0	87.00	TL:	67.00	PL:	64.00	CHK.						
	SWN30058-1	87.25								11-603-1	87.25	CH:	32.00	PD:	21.00	DIA							
	SWN30058-2	87.50								11-603-2	87.50	DIST1:		Head:	NONE	10.00							
	SWN30058-3	87.75								11-603-3	87.75	DIST2:		Skirt:	NONE								
		SWN30058-4	88.00	Oil:	2.800 0.110	X	3.000 0.118	NIFF-S	STEEL	NITRIDED	11-603-4	88.00	DIST3:										
	AM Ring Available																						
	REFERENCE #	TOP	2ND	OIL						REFERENCE #													
	12033-17V01									12010-21P61													
	12033-21V01									12010-V7175													
	12033-96E01									A2010-10G03													
	12033-F6511									F7XZ 6108 AA													
	F6XZ 6148 AA																						
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 2001-2010																							
ESCAPE / 07-10	SWF30021-0	89.00	Top:	1.200 0.047	X	3.500 0.138	BF	STEEL	NITRIDED	11-868-0	89.00	TL:	52.60	PL:	60.50	CHK.							
FIVE HUNDRED / 05-07	SWF30021-1	89.25								11-868-1	89.25	CH:	30.00	PD:	21.01	DIA							
Freestyle / 05-07	SWF30021-2	89.50								2nd:	1.500 0.059	X	4.100 0.161	TUC	CAST IRON	PHOSPHATE	11-868-2	89.50	DIST1:	1.00	Head:	NONE	7.00
FUSION / 06-10	SWF30021-3	89.75														11-868-3	89.75	DIST2:		Skirt:	MS		
LS / 02-05	SWF30021-4	90.00	Oil:	2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	NITRIDED	11-868-4	90.00	DIST3:											
MARINER / 08-10																							
MILAN / 08-08	REFERENCE #	TOP	2ND	OIL						REFERENCE #													
MONTEGO / 05-07	AL8Z 6148 A									6E5Z 6100 BA													
SABLE / 01-04	C2C005449									AJTM-11-210													
TAURUS / 01-05	XW4Z 6148 A									ZZDL-11-210													
	YF1Z 6148 BA																						



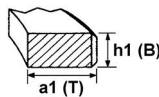
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2967CC),DOHC,6CYL, 89.000MM (3.504"), DURATEC 30 / 2001-2012																
ESCAPE / 01-12	SWF30021-0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



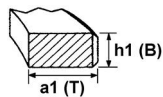
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
3.3L (200CID,3272CC),SOHC,6CYL, 91.500MM (3.602"), VG33E / 1999-2002											
VILLAGER / 99-02	SWN30120-0	91.50	Top:	1.500	X	3.250	BF	STEEL	CHROME	Pistons for this application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



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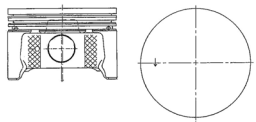
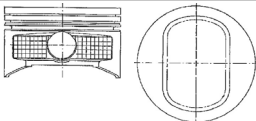
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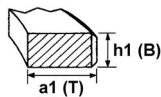
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.8L (232CID,3802CC),OHV,6CYL, 96.800MM (3.811"), ESSEX V6 38,ESSEX V6 38 C & F / 1982-1987										
CAPRI / 83-86	SWF30015-0	96.80	Top:	2.000	X	4.400	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CONTINENTAL / 82-82	SWF30015-1	97.05		0.079		0.173				
COUGER / 82-87	SWF30015-2	97.30	2nd:	2.000	X	4.400	T1-RB	CAST IRON	PHOSPHATE	
COUGER XR7 / 82-82	SWF30015-3	97.55		0.079		0.173				
GRANADA / 82-82	SWF30015-4	97.80	Oil:	4.000	X	4.050	NIFF-S	STEEL	CHROME	
LTD / 83-86				0.157		0.159				
MARQUIS / 83-86	REFERENCE #		TOP			2ND			OIL	
MUSTANG / 83-86	E2DZ 6148 A									
PICKUP / 82-83										
THUNDERBIRD / 82-87										
3.9L (240CID,3933CC),OHV,6CYL, 101.600MM (4.000"), 240 CDI / 1974-1974										
ECONOLINE E100 / 74-74	SWF80017-0	101.60	Top:	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWF80017-1	101.85		0.078		0.195				
ECONOLINE E200 / 74-74	SWF80017-2	102.10	2nd:	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE	
	SWF80017-3	102.35		0.078		0.183				
PICKUP / 74-74	SWF80017-4	102.60	Oil:	4.763	X	4.600	NIFF-S	STEEL	CHROME	
				0.188		0.181				
	REFERENCE #		TOP			2ND			OIL	
	12507985									
	14059025									
	14089025									
	88894219									
	C3AZ 6148 F									
	F6DZ 6148 RA									
4.0L (245CID,4015CC),OHV,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1998-1998										
RANGER / 98-98	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT20072-1	100.65		0.063		0.157				
	SWT20072-2	100.90	2nd:	1.750	X	4.000	TUC	CAST IRON	PHOSPHATE	
	SWT20072-3	101.15		0.069		0.157				
	SWT20072-4	101.40	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME	
				0.138		0.124				
	REFERENCE #		TOP			2ND			OIL	
	F7TZ 6148 BA									
	FOTZ 6148 M									
	ZZM2-23-130									
4.0L (245CID,4015CC),SOHC,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1997-2001										
EXPLORER / 97-99	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
MOUNTAINEER / 98-01	SWT20072-1	100.65		0.063		0.157				
RANGER / 99-00	SWT20072-2	100.90	2nd:	1.750	X	4.000	TUC	CAST IRON	PHOSPHATE	
	SWT20072-3	101.15		0.069		0.157				
	SWT20072-4	101.40	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME	
				0.138		0.124				
	REFERENCE #		TOP			2ND			OIL	
	F7TZ 6148 BA									
	FOTZ 6148 M									
	ZZM2-23-130									



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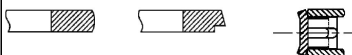
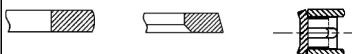
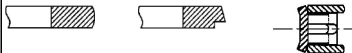
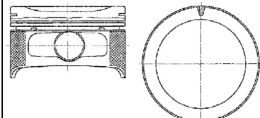
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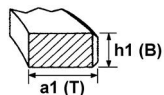
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.0L (245CID,4015CC),SOHC,6CYL, 100.400MM (3.953"), COLOGNE 40 / 2001-2011																
EXPLORER / 01-10	SWF30012-0	100.40	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-914-0	100.40	TL:	64.70	PL:	72.50	CHK.
Explorer Sport Trac / 01-10	SWF30012-1	100.65		0.047	0.138	11-914-1				100.65	CH:	36.40	PD:	24.00	DIA	
MOUNTAINEER / 02-10	SWF30012-2	100.90	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-914-2	100.90	DIST1:		Head:	AH	12.50
	SWF30012-3	101.15		0.059	0.165	11-914-3				101.15	DIST2:	Skirt:		MS		
MUSTANG / 05-09	SWF30012-4	101.40	Oil:	3.000	X	3.250	NIFF-S	STEEL	CHROME	11-914-4	101.40	DIST3:				
RANGER / 01-11				0.118	0.128											
REFERENCE # 1F62-23-130 2U3Z 6148 AA		TOP	2ND		OIL				REFERENCE # XL2Z 6108 AA							
4.0L (246CID,4025CC),OHV,6CYL, 100.400MM (3.953"), COLOGNE 40 / 1990-2000																
AEROSTAR / 90-97	SWT20072-0	100.40	Top:	1.600	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
EXPLORER / 91-00	SWT20072-1	100.65		0.063	0.157											
RANGER / 90-97	SWT20072-2	100.90	2nd:	1.750	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20072-3	101.15		0.069	0.157											
	SWT20072-4	101.40	Oil:	3.500	X	3.150	NIFF-S	STEEL	CHROME							
REFERENCE # F7TZ 6148 BA FOTZ 6148 M ZZM2-23-130		TOP	2ND		OIL											
4.2L (256CID,4195CC),OHV,6CYL, 96.800MM (3.811"), ESSEX V6 4.2 / 1997-2008																
CLUB WAGON / 97-98	SWF30004-0	96.80	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-826-0	96.80	TL:	59.10	PL:	63.30	CHK.
ECONOLINE E150 / 97-02	SWF30004-1	97.05		0.059	0.130	11-826-1				97.05	CH:	31.80	PD:	23.00	DIA	
ECONOLINE E250 / 97-02	SWF30004-2	97.30	2nd:	1.500	X	4.200	T1-RB	CAST IRON	PHOSPHATE	11-826-2	97.30	DIST1:	-3.60	Head:	NONE	11.50
	SWF30004-3	97.55		0.059	0.165	11-826-3				97.55	DIST2:	Skirt:	MS			
F150 / 97-08	SWF30004-4	97.80	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-826-4	97.80	DIST3:				
FREESTAR / 04-07	AM Ring Available			0.118	0.126											
REFERENCE # 2L3Z 6148 KA F6ZZ 6148 A		TOP	2ND		OIL				REFERENCE # XL3Z 6108 AA							
4.6L (281CID,4605CC),DOHC,8CYL, 90.200MM (3.551"), INTECH 46 / 1998-2002																
CONTINENTAL / 98-02	SWF30008-0	90.20	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
MARK VIII / 98-98	SWF30008-1	90.45		0.047	0.130											
	SWF30008-2	90.70	2nd:	1.500	X	3.900	T1-RB	CAST IRON	PHOSPHATE							
	SWF30008-3	90.95		0.059	0.154											
	SWF30008-4	91.20	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
REFERENCE # F8LZ 6148 AA		TOP	2ND		OIL											



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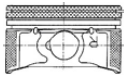
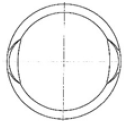
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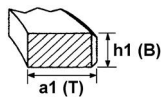
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.6L (281CID,4605CC),DOHC,8CYL, 90.200MM (3.551"), INTECH,TRITON 46C / 1993-1998																
CONTINENTAL / 95-97 MARK VIII / 93-97 MUSTANG / 96-98	SWF30006-0 SWF30006-1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



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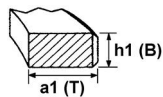
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.6L (281CID,4605CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 46GT / 1996-2014																
CLUB WAGON / 97-98	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons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



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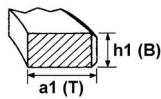
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.9L (300CID,4916CC),OHV,6CYL, 101.600MM (4.000"), straight-6 300 / 1974-1989										
BRONCO / 80-89	SWF80017-0	101.60	Top:	1.984	X	4.950	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CLUB WAGON / 75-76	SWF80017-1	101.85		0.078		0.195				
ECONOLINE E100 / 74-83	SWF80017-2	102.10	2nd:	1.984	X	4.650	T1-RC	CAST IRON	PHOSPHATE	
	SWF80017-3	102.35		0.078		0.183				
ECONOLINE E150 / 75-84	SWF80017-4	102.60	Oil:	4.763	X	4.600	NIFF-S	STEEL	CHROME	
				0.188		0.181				
ECONOLINE E200 / 74-74	REFERENCE #		TOP		2ND		OIL			
	12507985									
ECONOLINE E250 / 75-78	14059025									
	14089025									
ECONOLINE E300 / 74-74	88894219									
	C3AZ 6148 F									
ECONOLINE E350 / 75-84	F6DZ 6148 RA									
F150 / 85-89										
F250 / 75-89										
F350 / 75-85										
PICKUP / 74-74										
4.9L (302CID, 4,949CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), WINDSOR 302 / 1986-2001										
BRONCO / 90-96	SWF80011-0	101.60	Top:	1.50	X	4.17	BF	DUCTILE IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CONTINENTAL / 86-86	SWF80011-1	101.85		0.059		0.164				
COUGER / 86-88	SWF80011-2	102.10	2nd:	1.50	X	4.45	T1-RB	CAST IRON	PHOSPHATE	
ECONOLINE E150 / 90-96	SWF80011-3	102.35		0.059		0.175				
ECONOLINE E250 / 90-95	SWF80011-4	102.60	Oil:	4.00	X	2.61	NIFF-S	STEEL	CHROME	
				0.157		0.103				
EXPLODER / 96-01	REFERENCE #		TOP		2ND		OIL			
	4740259									
F150 / 87-96	E5TZ 6148 EE									
F250 / 87-96	F2ZZ 6148 A									
Grand Marquis / 86-91	F6TZ 6148 AA									
MARK VII / 86-86										
MOUNTAINEER / 97-01										
MUSTANG / 89-95										
THUNDERBIRD / 91-93										
TOWN CAR / 86-90										



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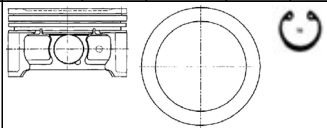
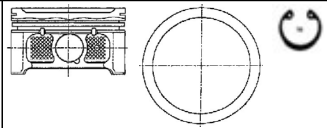
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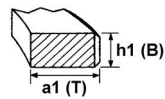
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO		
4.9L (302CID,4949CC),OHV,8CYL, 101.600MM (4.000"), WINDSOR 302 / 1974-1992												
BRONCO / 74-86	SWF80016-0	101.60	Top:	X	4.950 0.195	BF-IB	CAST IRON	MOLY	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.			
CAPRI / 82-86	SWF80016-1	101.85										
CLUB WAGON / 79-81	SWF80016-2	102.10										
CONTINENTAL / 80-85	SWF80016-3	102.35	2nd:	X	4.650 0.183	T1-RC	CAST IRON	PHOSPHATE				
COUGER / 80-85	SWF80016-4	102.60										
ECONOLINE E100 / 79-83	REFERENCE # 12507985 14089025 3579044 3780016 88894219 C3AZ 6108 F C3AZ 6148 F E3ZZ 6148 A E6TZ 6148 A	Oil:	4.763 0.188	X	4.600 0.181	NIFF-S	STEEL	CHROME				
ECONOLINE E150 / 79-89												
ECONOLINE E200 / 74-74												
ECONOLINE E250 / 87-89												
ECONOLINE E300 / 74-74												
F150 / 85-86												
F250 / 85-86												
GRANADA / 80-80												
Grand Marquis / 80-85												
LTD / 80-85												
LTD Crown Victoria / 80-88												
MARK VI / 80-83												
MARK VII / 84-92												
MARQUIS / 80-82												
MONARCH / 80-80												
MUSTANG / 82-85												
THUNDERBIRD / 80-85												
TOWN CAR / 81-85												
VERSAILLES / 80-80												
5.0L (302CID,4951CC),DOHC,8CYL, 92.200MM (3.630"), COYOTE 50 / 2011-2017												
F150 / 11-16	SWF30027-0	92.20	Top:	X	3.100 0.122	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.			
MUSTANG / 11-17	SWF30027-1	92.45										
SHELBY GT350 / 14-17	SWF30027-2	92.70	2nd:	X	3.500 0.138	TUC	DUCTILE IRON	CHROME				
	SWF30027-3	92.95										
	SWF30027-4	93.20										
			Oil:	2.500 0.098	X	2.750 0.108	NIFF-H	STEEL			NITRIDED	
	REFERENCE #		TOP	2ND	OIL							
	CU7Z 6148 A											



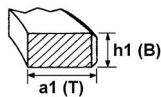
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.4L (330CID,5408CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54 / 1997-2010																
CLUB WAGON / 97-98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

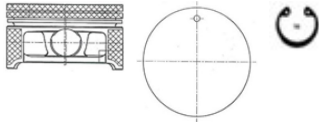


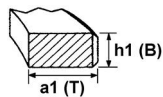
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.4L (330CID,5408CC),SOHC,8CYL, 90.200MM (3.551"), TRITON 54 / 2011-2014											
ECONOLINE E150 / 11-14	SWF30006-0	90.20	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for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



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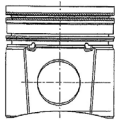
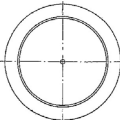
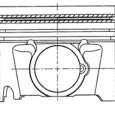
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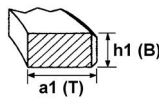
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO											
5.4L (330CID,5409CC),SOHC,8CYL, 90.200MM (3.551"), INTECH 54,TRITON 54V / 2004-2014																					
EXPEDITON / 05-14	SWF30006-0	90.20	Top:	1.500	X	3.300	BF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



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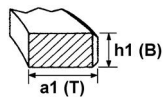
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
5.9L (359CID,5889CC),OHV,6CYL, 102.000MM (4.016"), ISB 5.9 / 2004-2007 DIESEL																	
F650 / 04-07	SDC10022-0	102.00	Top:	3.0K	X	4.200	BF-K1	DUCTILE IRON	CHROME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



FORD

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



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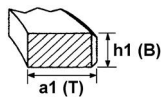
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.3L (444CID,7276CC),OHV,8CYL, 104.400MM (4.110"), PowerStroke 7.3T / 1999-2003										
ECONOLINE E350 / 99-03	SDF30020-0	104.40	Top: 3.0K	X	3.900	BF-K1	STEEL	NITRIDED	DISC-11-858-0	104.40
	SDF30020-1	104.65	0.118K		0.154				DISC-11-858-1	104.65
EXCURSION / 00-03	SDF30020-2	104.90	2nd: 2.000	X	4.000	T1-RB	CAST IRON	PHOSPHATE	DISC-11-858-2	104.90
F250 / 99-03	SDF30020-3	105.15	0.079		0.157				DISC-11-858-3	105.15
F350 / 99-03	SDF30020-4	105.40	Oil: 3.500	X	3.850	E-BC16	CAST IRON	CHROME	DISC-11-858-4	105.40
F450 / 99-02			0.138		0.152					
F550 / 99-02	REFERENCE #	TOP	2ND	OIL					REFERENCE #	
F650 / 00-02	F81Z 6148 AA								F81Z 6102 AA	
7.5L (460CID,7538CC),OHV,8CYL, 110.740MM (4.360"), FORD 385,FORD 385 C & F / 1975-1997										
CLUB WAGON / 75-96	SWF80032-0	110.74	Top: 1.984	X	4.450	BF-IB	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
ECONOLINE E250 / 75-79	SWF80032-1	110.99	0.078		0.175					
	SWF80032-2	111.24	2nd: 1.984	X	4.400	T1-RB	CAST IRON	PHOSPHATE		
ECONOLINE E350 / 75-96	SWF80032-3	111.49	0.078		0.173					
F250 / 88-97	SWF80032-4	111.74	Oil: 4.763	X	4.420	NIFF-H	STEEL	CHROME		
F350 / 88-97	REFERENCE #	TOP	2ND	OIL					Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	C8SZ 6148 A									
	F3TZ 6148 G									

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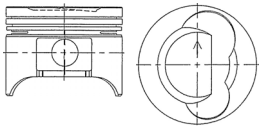
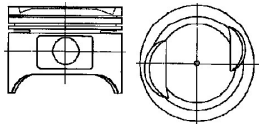
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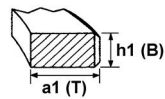
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1985-1988										
SPRINT / 85-88	SWS20144-0	74.00	Top: 1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-668-0	74.00
	SWS20144-1	74.25	0.047		0.106				DISC-11-668-1	74.25
	SWS20144-2	74.50	2nd: 1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	DISC-11-668-2	74.50
	SWS20144-3	74.75	0.059		0.126				DISC-11-668-3	74.75
	SWS20144-4	75.00	Oil: 2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-668-4	75.00
	AM Ring Available		0.110		0.110					
	REFERENCE #	TOP	2ND	OIL					REFERENCE #	
	96055394								96053321	
	96057087									
	96061652									
	96068389									
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1986-2000										
METRO / 89-00	SWS20144-0	74.00	Top: 1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
SPRINT / 86-87	SWS20144-1	74.25	0.047		0.106					
	SWS20144-2	74.50	2nd: 1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE		
	SWS20144-3	74.75	0.059		0.126					
	SWS20144-4	75.00	Oil: 2.800	X	2.800	NIFF-S	STEEL	CHROME		
	AM Ring Available		0.110		0.110					
	REFERENCE #	TOP	2ND	OIL					Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	96055394									
	96057087									
	96061652									
	96068389									

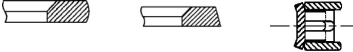
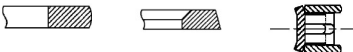
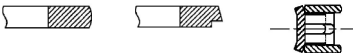


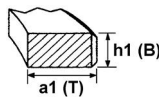
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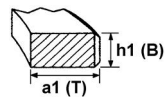
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10 / 1989-1998																
METRO / 89-98	SWS20144-0	74.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-665-0	74.00	TL:	55.70	PL:	65.00	CHK.
	SWS20144-1	74.25		0.047		0.106				11-665-1	74.25	CH:	28.70	PD:	17.00	DIA
	SWS20144-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-665-2	74.50	DIST1:	-2.10	Head:	NONE	13.80
	SWS20144-3	74.75		0.059		0.126				11-665-3	74.75	DIST2:		Skirt:	NONE	
	SWS20144-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-665-4	75.00	DIST3:				
	AM Ring Available		0.110	0.110												
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
96055394								96060039								
96057087																
96061652																
96068389																
1.0L (61CID,993CC),SOHC,3CYL, 74.000MM (2.913"), G10T / 1987-1988 TURBO																
SPRINT / 87-88	SWS20144-0	74.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-666-0	74.00					
	SWS20144-1	74.25		0.047		0.106				DISC-11-666-1	74.25					
	SWS20144-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	DISC-11-666-2	74.50					
	SWS20144-3	74.75		0.059		0.126				DISC-11-666-3	74.75					
	SWS20144-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-666-4	75.00					
	AM Ring Available		0.110	0.110												
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
96055394								96055390								
96057087								96067799								
96061652																
96068389																
1.2L (76CID,1249CC),DOHC,4CYL, 70.500MM (2.776"), ECOTEC LL0 / 2013-2015																
SPARK / 13-15	SWG10051-0	70.50	Top:	1.000	X	2.300	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10051-1	70.75		0.039		0.091										
	SWG10051-2	71.00	2nd:	1.200	X	2.550	TUC	CAST IRON	PHOSPHATE							
	SWG10051-3	71.25		0.047		0.100										
	SWG10051-4	71.50	Oil:	2.000	X	1.950	NIFF-H	STEEL	NITRIDED							
			0.079	0.077												
REFERENCE #		TOP	2ND		OIL											
25191142																
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1995-1997																
METRO / 95-97	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-625-0	74.00	TL:	55.30	PL:	65.00	CHK.
	SWS20143-1	74.25		0.047		0.112				11-625-1	74.25	CH:	28.40	PD:	17.00	DIA
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-625-2	74.50	DIST1:	-1.30	Head:	NONE	10.00
	SWS20143-3	74.75		0.059		0.126				11-625-3	74.75	DIST2:		Skirt:	NONE	
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-625-4	75.00	DIST3:				
			0.110	0.100												
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
12140-82X50								12111-83000-0A0								
91173873								96066387								
96068389																

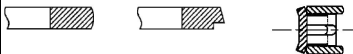
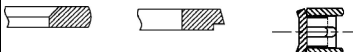
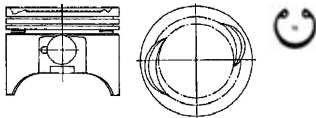
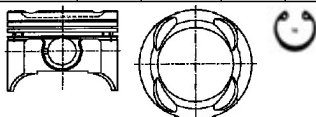


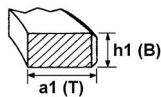
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1998-2001																	
METRO / 98-01	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for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



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1587CC),DOHC,4CYL, 80.000MM (3.150"), 4XE1W / 1990-1991																	
STORM / 90-91	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWI10149-1	80.25		0.047		0.122											
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE								
	SWI10149-3	80.75		0.047		0.130											
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME								
		0.118		0.098													
	REFERENCE #		TOP	2ND		OIL											
	8-94331-660-0																
	8-94342-124-0																
	8-94370-434-0																
	8-97042-171-0																
	8-97402-171-0																
	94331660																
	94342124																
	94370434																
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-FE / 1989-1992																	
PRIZM / 89-92	SWT10142-0	81.00	Top:	1.500	X	2.700	BF	STEEL	NITRIDED	11-649-0	81.00	TL:	61.10	PL:	61.00	CHK.	
	SWT10142-1	81.25		0.059		0.106				11-649-1	81.25	CH:	30.60	PD:	18.00	DIA	
	SWT10142-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-649-2	81.50	DIST1:	-3.00	Head:	NONE	10.00	
	SWT10142-3	81.75		0.059		0.134				11-649-3	81.75	DIST2:	-2.80	Skirt:	NONE		
	SWT10142-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-649-4	82.00	DIST3:					
		0.118		0.112													
	REFERENCE #		TOP	2ND		OIL				REFERENCE #							
	13011-16130									13101-16090-01							
	94847305									94847306							
	1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-FE / 1993-1997																
	PRIZM / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-714-0	81.00	TL:	55.60	PL:	56.00	CHK.
		SWT10156-1	81.25		0.047		0.114				11-714-1	81.25	CH:	30.50	PD:	20.00	DIA
		SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-714-2	81.50	DIST1:	-2.50	Head:	NONE	15.00
		SWT10156-3	81.75		0.059		0.134				11-714-3	81.75	DIST2:		Skirt:	NONE	
		SWT10156-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-714-4	82.00	DIST3:				
		0.118	0.112														
REFERENCE #			TOP	2ND		OIL				REFERENCE #							
13011-16300										13101-16160-01							
13011-16340										94853590							
94854159																	
94855500																	
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GE / 1988-1989																	
NOVA / 88-88 PRIZM / 89-89		SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-660-0	81.00	TL:	64.50	PL:	61.00	CHK.
		SWT10108-1	81.25		0.059		0.122				11-660-1	81.25	CH:	30.50	PD:	20.00	DIA
		SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-660-2	81.50	DIST1:	0.30	Head:	NONE	10.00
	SWT10108-3	81.75	0.059		0.138		11-660-3				81.75	DIST2:		Skirt:	NONE		
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-660-4	82.00	DIST3:					
		0.110		0.110													
	REFERENCE #		TOP	2ND		OIL				REFERENCE #							
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	13011-16170									94844692							
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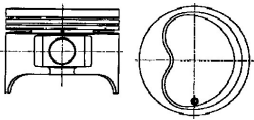
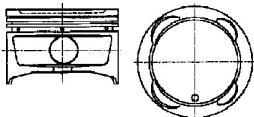
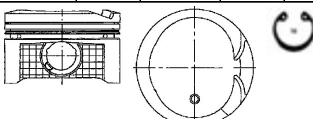


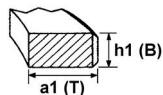
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GE / 1990-1992																
PRIZM / 90-92	SWT10150-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT10150-1	81.25		0.047	0.114											
	SWT10150-2	81.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME							
	SWT10150-3	81.75		0.059	0.134											
	SWT10150-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED							
REFERENCE # 94847635		TOP	2ND	OIL												
1.6L (97CID,1587CC),SOHC,4CYL, 75.000MM (2.953"), G16K / 1989-1995																
TRACKER / 89-95	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-629-0	75.00	TL:	58.20	PL:	63.00	CHK.
	SWS20142-1	75.25		0.047	0.106				11-629-1	75.25	CH:	28.50	PD:	19.00	DIA	
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-629-2	75.50	DIST1:	-3.30	Head:	NONE	10.00
	SWS20142-3	75.75		0.059	0.126				11-629-3	75.75	DIST2:	-4.70	Skirt:	NONE		
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-629-4	76.00	DIST3:				
REFERENCE # 12140-60A50 91173290 96067669		TOP	2ND	OIL						REFERENCE # 12111-60A02-0A0 96067795						
1.6L (97CID,1587CC),SOHC,4CYL, 75.000MM (2.953"), G16KV / 1996-2000																
TRACKER / 96-00	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-630-0	75.00	TL:	55.20	PL:	61.50	CHK.
	SWS20142-1	75.25		0.047	0.106				11-630-1	75.25	CH:	28.20	PD:	19.00	DIA	
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-630-2	75.50	DIST1:	-4.10	Head:	NONE	21.00
	SWS20142-3	75.75		0.059	0.126				11-630-3	75.75	DIST2:		Skirt:	NONE		
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-630-4	76.00	DIST3:				
REFERENCE # 12140-60A50 91173290 96067669		TOP	2ND	OIL						REFERENCE # 12100-71820-0A0 96068583						
1.6L (97CID,1587CC),SOHC,4CYL, 80.000MM (3.150"), 4XE1 / 1990-1993																
STORM / 90-93	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10149-1	80.25		0.047	0.122											
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWI10149-3	80.75		0.047	0.130											
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME							
REFERENCE # 8-94331-660-0 8-94342-124-0 8-94370-434-0 8-97042-171-0 8-97402-171-0 94331660 94342124 94370434		TOP	2ND	OIL												

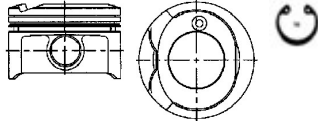


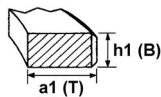
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1587CC),SOHC,4CYL, 81.000MM (3.189"), 4A-LC / 1985-1988																	
NOVA / 85-88	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-144-0	81.00	TL:	60.50	PL:	61.00	CHK.	
	SWT10108-1	81.25		0.059	0.122	0.122				11-144-1	81.25	CH:	30.50	PD:	18.00	DIA	
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-144-2	81.50	DIST1:	-3.00	Head:	NONE	13.00	
	SWT10108-3	81.75		0.059	0.138	0.138				11-144-3	81.75	DIST2:		Skirt:	NONE		
	SWT10108-4	82.00		Oil:	2.800	X				2.800	NIFF-S	STEEL	CHROME	11-144-4	82.00	DIST3:	
REFERENCE #		TOP			2ND			OIL			REFERENCE #						
13011-16011											13103-16010						
13011-16170											94850643						
94840036																	
94845462																	
1.6L (98CID,1598CC),DOHC,4CYL, 79.000MM (3.110"), ECOTEC II / 2004-2011																	
AVEO / 04-11 AVEO5 / 07-11 G3 / 09-09	SWD20004-0	79.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWD20004-1	79.25		0.047	0.120	0.120											
	SWD20004-2	79.50	2nd:	1.500	X	3.300	E-BC16	CAST IRON	PHOSPHATE								
	SWD20004-3	79.75		0.059	0.130	0.130											
	SWD20004-4	80.00		Oil:	3.000	X											3.000
REFERENCE #		TOP			2ND			OIL									
93740225																	
1.8L (108CID,1762CC),DOHC,4CYL, 81.000MM (3.189"), 7A-FE / 1993-1997																	
PRIZM / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-713-0	81.00	TL:	56.00	PL:	56.00	CHK.	
	SWT10156-1	81.25		0.047	0.114	0.114				11-713-1	81.25	CH:	30.50	PD:	20.00	DIA	
	SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-713-2	81.50	DIST1:	-3.40	Head:	NONE	10.00	
	SWT10156-3	81.75		0.059	0.134	0.134				11-713-3	81.75	DIST2:		Skirt:	NONE		
	SWT10156-4	82.00		Oil:	3.000	X				2.850	NIFF-S	STEEL	NITRIDED	11-713-4	82.00	DIST3:	
REFERENCE #		TOP			2ND			OIL			REFERENCE #						
13011-16300											13101-16150-01						
13011-16340											94853591						
94854159																	
94855500																	
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 1998-2000																	
PRIZM / 98-00	SWT10183-0	79.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-756-0	79.00	TL:	51.60	PL:	50.00	CHK.	
	SWT10183-1	79.25		0.047	0.104	0.104				11-756-1	79.25	CH:	29.90	PD:	20.00	DIA	
	SWT10183-2	79.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-756-2	79.50	DIST1:	-4.20	Head:	NONE	10.00	
	SWT10183-3	79.75		0.047	0.126	0.126				11-756-3	79.75	DIST2:	2.30	Skirt:	NONE		
	SWT10183-4	80.00		Oil:	3.000	X				2.550	NIFF-S	STEEL	CHROME	11-756-4	80.00	DIST3:	
REFERENCE #		TOP			2ND			OIL			REFERENCE #						
13011-0D010											13101-22020						
13011-22040											94856684						
13011-22150																	
88972331																	
94856686																	
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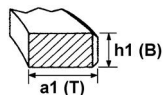
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO											
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 2001-2008																							
PRIZM / 01-02 VIBE / 03-08	SWT10183-0	79.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-777-0	79.00	TL:	51.70	PL:	50.00	CHK.							
	SWT10183-1	79.25		0.047	0.104	11-777-1				79.25	CH:	29.80	PD:	20.01	DIA								
	SWT10183-2	79.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-777-2	79.50	DIST1:	2.40	Head:	AH	19.50							
	SWT10183-3	79.75		0.047	0.126	11-777-3				79.75	DIST2:		Skirt:	MS									
	SWT10183-4	80.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	CHROME	11-777-4	80.00	DIST3:											
REFERENCE #		TOP		2ND		OIL		REFERENCE #															
13011-0D010								13101-0D040															
13011-22040								13101-22140															
13011-22150								88969051															
88972331								88972330															
94856686								94859420															
94859421																							
1.8L (110CID,1796CC),DOHC,4CYL, 80.500MM (3.169"), ECOTEC LUW / 2008-2015																							
ASTRA / 08-08 CRUZE / 11-15 SONIC / 12-15	SWG10035-0	80.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SWG10035-1	80.75		0.047	0.122																		
	SWG10035-2	81.00	2nd:	1.200	X	3.000	T1	CAST IRON	PHOSPHATE														
	SWG10035-3	81.25		0.047	0.118																		
	SWG10035-4	81.50	Oil:	2.000	X	3.000	NIFF-H	STEEL	CHROME														
REFERENCE #		TOP		2ND		OIL																	
93332835																							
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), 2ZZ-FE / 2003-2006																							
VIBE / 03-06	SWT10196-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SWT10196-1	82.25		0.047	0.112																		
	SWT10196-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE														
	SWT10196-3	82.75		0.047	0.120																		
	SWT10196-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME														
REFERENCE #		TOP		2ND		OIL																	
13011-88601																							
88969557																							
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), LAY(2ZR-FE) / 2009-2010																							
VIBE / 09-10	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SWT10232-1	80.75		0.039	0.114																		
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE														
	SWT10232-3	81.25		0.039	0.098																		
	SWT10232-4	81.50	Oil:	1.500	X	1.950	NIFF-H	STEEL	CHROME														
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13011-0T010																							
13011-37110																							
19185554																							

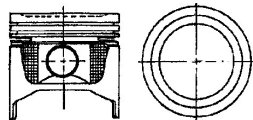


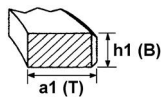
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (110CID,1809CC),DOHC,4CYL, 80.000MM (3.150"), 4XF1 / 1992-1993																
STORM / 92-93	SWI10149-0	80.00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

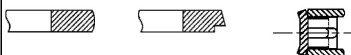
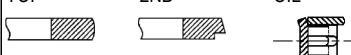
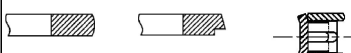
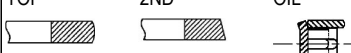
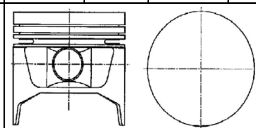


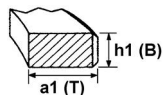
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1980-1980																
LUV / 80-80	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	11-012-0	84.00	TL:	80.00	PL:	66.00	CHK.
	SWI10056-1	84.25		0.079		0.150				11-012-1	84.25	CH:	37.00	PD:	22.00	DIA
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	11-012-2	84.50	DIST1:	-0.80	Head:	NONE	15.00
	SWI10056-3	84.75		0.079		0.157				11-012-3	84.75	DIST2:		Skirt:	NONE	
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	11-012-4	85.00	DIST3:				
			0.157	0.150												
REFERENCE # 8-94216-640-0 94216641		TOP			2ND			OIL			REFERENCE # 8-94215-088-0					
																
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1981-1982																
LUV / 81-82	SWI10098-0	84.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-013-0	84.00					
	SWI10098-1	84.25		0.059		0.138				DISC-11-013-1	84.25					
	SWI10098-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-013-2	84.50					
	SWI10098-3	84.75		0.059		0.150				DISC-11-013-3	84.75					
	SWI10098-4	85.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-013-4	85.00					
			0.157	0.128												
REFERENCE # 8-94244-404-0		TOP			2ND			OIL			REFERENCE # 8-94238-475-0					
																
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1982-1982																
S-15 PICKUP / 82-82	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10056-1	84.25		0.079		0.150										
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE							
	SWI10056-3	84.75		0.079		0.157										
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME							
			0.157	0.150												
REFERENCE # 8-94216-640-0 94216641		TOP			2ND			OIL								
																
1.9L (116CID,1901CC),DOHC,4CYL, 82.000MM (3.228"), SATURN I4 LL0 / 1991-1994																
SC / 91-92 SC2 / 93-94 SL2 / 91-94 SW2 / 93-94	SWG10020-0	82.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10020-1	82.25		0.059		0.120										
	SWG10020-2	82.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWG10020-3	82.75		0.059		0.138										
	SWG10020-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
			0.118	0.126												
REFERENCE # 21006715 21006721		TOP			2ND			OIL								
																

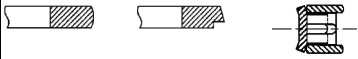


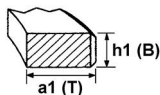
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.9L (116CID,1901CC),DOHC,4CYL, 82.000MM (3.228"), SATURN I4 LL0 / 1995-1998																
SC2 / 95-98	SWG10021-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL2 / 95-98	SWG10021-1	82.25		0.047		0.112										
SW2 / 95-98	SWG10021-2	82.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWG10021-3	82.75		0.059		0.138										
	SWG10021-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
REFERENCE # 21007180		TOP2ND OIL 														
1.9L (116CID,1901CC),SOHC,4CYL, 82.000MM (3.228"), SATURN I4 L24 / 1995-1998																
SC1 / 95-98	SWG10021-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL / 95-98	SWG10021-1	82.25		0.047		0.112										
SL1 / 95-98	SWG10021-2	82.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
SW1 / 95-98	SWG10021-3	82.75		0.059		0.138										
	SWG10021-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
REFERENCE # 21007180		TOP2ND OIL 														
1.9L (116CID,1901CC),SOHC,4CYL, 82.000MM (3.228"), SATURN I4 LK0 / 1991-1994																
SC1 / 93-94	SWG10020-0	82.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SL / 91-94	SWG10020-1	82.25		0.059		0.120										
SL1 / 91-94	SWG10020-2	82.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
SW1 / 93-94	SWG10020-3	82.75		0.059		0.138										
	SWG10020-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME							
REFERENCE # 21006715 21006721		TOP2ND OIL 														
1.9L (119CID,1949CC),SOHC,4CYL, 87.000MM (3.425"), G200Z / 1983-1985																
S-10 BLAZER / 83-84	SWI10096-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-016-0	87.00	TL:	80.00	PL:	77.00	CHK. DIA 10.00
S-10 PICKUP / 83-85	SWI10096-1	87.25		0.059		0.138							11-016-1	87.25	CH:	
S-15 JIMMY / 83-84	SWI10096-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-016-2	87.50	DIST1:		Head:	NONE	
S-15 PICKUP / 83-85	SWI10096-3	87.75		0.059		0.150							11-016-3	87.75	DIST2:	
	SWI10096-4	88.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-016-4	88.00	DIST3:				
REFERENCE # 8-94438-086-0 94438086		TOP2ND OIL 								REFERENCE # 8-94237-469-2 94237469						



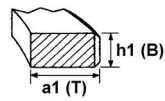
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.0L (121CID,1983CC),DOHC,4CYL, 84.000MM (3.307"), G20K / 1999-2002										
TRACKER / 99-02	SWS20178-0	84.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWS20178-1	84.25		0.047		0.114				
	SWS20178-2	84.50	2nd:	1.500	X	3.550	TUC	CAST IRON	CHROME	
	SWS20178-3	84.75		0.059		0.140				
	SWS20178-4	85.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	
REFERENCE # 12140-86FA0 91174392		TOP	2ND	OIL						
2.0L (121CID,1983CC),SOHC,4CYL, 86.000MM (3.386") / 1987-1994										
FIRENZA / 87-88 LeMans / 89-90 SKYHAWK / 87-88 SUNBIRD / 87-94	SWG10010-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG10010-1	86.25		0.059		0.130				
	SWG10010-2	86.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	
	SWG10010-3	86.75		0.059		0.142				
	SWG10010-4	87.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED	
AM Ring Available REFERENCE # 52273305 52273308		TOP	2ND	OIL						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC LHU,ECOTEC LNF,ECOTEC LTG / 2007-2016 TURBO										
ATS / 13-15 COBALT / 08-10 HHR / 08-10 MALIBU / 13-15 REGAL / 11-15 SKY / 07-10	SWG10032-0	86.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG10032-1	86.25		0.047		0.122				
	SWG10032-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	
	SWG10032-3	86.75		0.059		0.138				
	SWG10032-4	87.00	Oil:	2.000	X	2.750	NIFF-H	STEEL	NITRIDED	
SOLSTICE / 07-09 VERANO / 13-16 REFERENCE # 19180831 89018107		TOP	2ND	OIL						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), ECOTEC LSJ / 2005-2007										
COBALT / 05-07 ION / 05-07	SWG10019-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWG10019-1	86.25		0.047		0.114				
	SWG10019-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	
	SWG10019-3	86.75		0.059		0.138				
	SWG10019-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	
REFERENCE # 12140-85Z00 21018813 96180138		TOP	2ND	OIL						



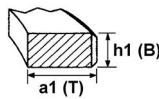
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.0L (122CID,1999CC),SOHC,4CYL, 86.000MM (3.386"), GM122 / 1987-1990										
GRAND AM / 87-89 SKYHAWK / 87-87 SUNBIRD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



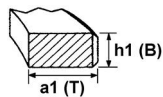
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (134CID,2197CC),OHV,4CYL, 89.000MM (3.504"), GM122 2.2L / 1990-2003																
BERETTA / 90-96	SWI10195-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons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



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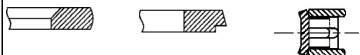
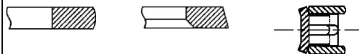
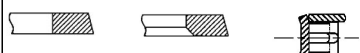
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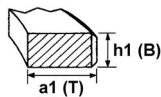
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.4L (145CID,2384CC),DOHC,4CYL, 88.000MM (3.465"), ECOTEC 2.4 LEA / 2012-2015																	
EQUINOX / 12-15	SWG10048-0	88.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED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



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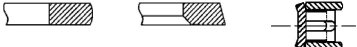
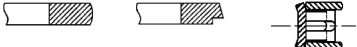
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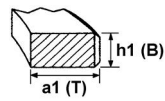
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.5L (152CID,2494CC),DOHC,6CYL, 84.000MM (3.307"), H25A / 2001-2001										
TRACKER / 01-01	SWS20207-0	84.00	Top:	1.200	2.900	BF-IB	STEEL	NITRIDED		Pistons for this application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



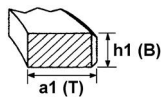
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
2.8L (173CID,2835CC),OHV,6CYL, 89.000MM (3.504"), GM 60 LE2 / 1981-1985										
6000 / 82-84	SWL03235-0	89.00	Top:	1.500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



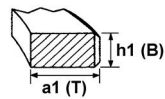
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2962CC),SOHC,6CYL, 86.000MM (3.386"), ELLESMERE L81 / 1997-1998																	
CATERA / 97-98	SWC10001-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWC10001-1	86.25		0.059		0.136											
	SWC10001-2	86.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE								
	SWC10001-3	86.75		0.059		0.157											
	SWC10001-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME								
				0.118		0.118											
REFERENCE #		TOP	2ND		OIL												
4897027AA																	
90509740																	
3.1L (191CID,3130CC),OHV,6CYL, 89.000MM (3.504"), CPC / 1990-1992																	
CAMARO / 90-92 FIREBIRD / 90-92	SWI10155-0	89.00	Top:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-569-0	89.00						
	SWI10155-1	89.25		0.059		0.146				DISC-11-569-1	89.25						
	SWI10155-2	89.50	2nd:	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE	DISC-11-569-2	89.50						
	SWI10155-3	89.75		0.059		0.142				DISC-11-569-3	89.75						
	SWI10155-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	DISC-11-569-4	90.00						
				0.157		0.126											
REFERENCE #		TOP	2ND		OIL				REFERENCE #								
10181330						10070145											
8-10181-330-0												8-10070-145-0					
F6DZ 6148 RA																	
F6DZ 6148 RA*																	
ZZCA-11-100																	
3.1L (191CID,3130CC),OHV,6CYL, 89.000MM (3.504"), GM 60 L82,GM 60 LH0 / 1989-1995																	
ACHIEVA / 94-95 BERETTA / 89-95 CENTURY / 94-95 CORSICA / 89-95 Cutlass Supreme / 89-95 GRAND AM / 94-95 GRAND PRIX / 89-95 LUMINA / 90-95 MONTE CARLO / 95-95 REGAL / 89-95 SKYLARK / 94-95 SUNBIRD / 91-94	SWI10155-0	89.00	Top:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWI10155-1	89.25		0.059		0.146											
	SWI10155-2	89.50	2nd:	1.500	X	3.600	T1-RC	CAST IRON	PHOSPHATE								
	SWI10155-3	89.75		0.059		0.142											
	SWI10155-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME								
				0.157		0.126											
REFERENCE #		TOP	2ND		OIL												
10181330																	
8-10181-330-0																	
F6DZ 6148 RA																	
F6DZ 6148 RA*																	
ZZCA-11-100																	
3.1L (191CID,3137CC),OHV,6CYL, 89.000MM (3.504"), GM 60 L82,GM 60 LG8 / 1996-2005																	
ACHIEVA / 96-98 BERETTA / 96-96 CENTURY / 96-05 CORSICA / 96-96 CUTLASS / 97-99 Cutlass Supreme / 96-97 GRAND AM / 96-98 GRAND PRIX / 96-03 LUMINA / 96-01 MALIBU / 97-03 MONTE CARLO / 96-99 REGAL / 96-96 SKYLARK / 96-98	SWG10004-0	89.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWG10004-1	89.25		0.047		0.138											
	SWG10004-2	89.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE								
	SWG10004-3	89.75		0.059		0.142											
	SWG10004-4	90.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED								
	AM Ring Available			0.118		0.112											
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12538683																	
XW4Z 6148 CA																	



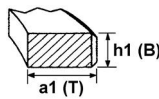
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.1L (191CID,3137CC),OHV,6CYL, 89.000MM (3.504"), GM 60 LG6 / 1990-1995										
APV / 90-93	SWI10155-0	89.00	Top:	1.500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



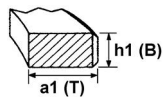
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 L32 / 1993-1995																
CAMARO / 93-95	SWG80011-0	92.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
FIREBIRD / 93-95	SWG80011-1	92.25		0.059		0.130										
	SWG80011-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE							
	SWG80011-3	92.75		0.059		0.157										
	SWG80011-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED							
			0.157		0.128											
	REFERENCE #		TOP	2ND	OIL											
	10181263															
	12520260															
	12536891															
	12538691															
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 LA1 / 1996-1999																
ALERO / 99-99	SWG10001-0	92.00	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-887-0	92.00	TL:	50.60	PL:	60.00	CHK.
GRAND AM / 99-99	SWG10001-1	92.25		0.047		0.130				11-887-1	92.25	CH:	30.60	PD:	23.00	DIA
LUMINA APV / 96-96	SWG10001-2	92.50	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-887-2	92.50	DIST1:	-5.50	Head:	NONE	15.00
MONTANA / 99-99	SWG10001-3	92.75		0.059		0.146				11-887-3	92.75	DIST2:		Skirt:	MS	
SILHOUETTE / 96-99	SWG10001-4	93.00	Oil:	4.000	X	3.650	NIFF-S	STEEL	CHROME	11-887-4	93.00	DIST3:				
TRANS SPORT / 96-98			0.157		0.144											
VENTURE / 97-99	REFERENCE #		TOP	2ND	OIL					REFERENCE #						
	12537866									24508727						
3.4L (207CID,3392CC),OHV,6CYL, 92.000MM (3.622"), GM 60 LA1 / 2000-2005																
ALERO / 00-04	SWG10009-0	92.00	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
AZTEK / 01-05	SWG10009-1	92.25		0.047		0.130										
GRAND AM / 00-05	SWG10009-2	92.50	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE							
IMPALA / 00-05	SWG10009-3	92.75		0.059		0.150										
MONTANA / 00-05	SWG10009-4	93.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED							
MONTE CARLO / 00-05	AM Ring Available		0.118		0.100											
RENDEZVOUS / 02-05	REFERENCE #		TOP	2ND	OIL											
SILHOUETTE / 00-04	12481322															
VENTURE / 00-05																
3.5L (212CID,3471CC),SOHC,6CYL, 89.000MM (3.504"), J35A3 / 2004-2007																
VUE / 04-07	SWH30438-0	89.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-836-0	89.00	TL:	51.50	PL:	54.00	CHK.
	SWH30438-1	89.25		0.047		0.120				11-836-1	89.25	CH:	30.00	PD:	21.97	DIA
	SWH30438-2	89.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-836-2	89.50	DIST1:	-1.20	Head:	NONE	7.00
	SWH30438-3	89.75		0.047		0.134				11-836-3	89.75	DIST2:		Skirt:	MS	
	SWH30438-4	90.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-836-4	90.00	DIST3:				
			0.110		0.112											
	REFERENCE #		TOP	2ND	OIL					REFERENCE #						
	13011-5G0-A01									13010-PGK-A01						
	13011-P8F-A01									13010-RDA-A00						
	13011-PGE-A01									13010-RGL-A00						
	13011-R70-A02									13010-RGM-A00						
	13011-RJA-004									13101-RGL-100						
	13021-R70-A01															

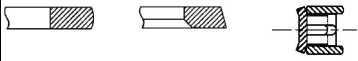
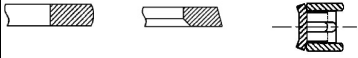
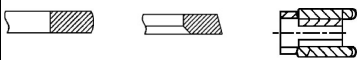


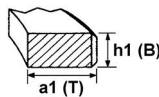
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
3.5L (213CID,3490CC),OHV,6CYL, 99.000MM (3.898"), High Value LZ4,High Value LZE / 2006-2011																
AURA / 07-08	SWG10049-0	99.00	Top: 2nd: Oil:	1.200 0.047	X	3.300 0.130	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
G6 / 07-09	SWG10049-1	99.25		1.500 0.059	X	3.750 0.148	TUC	CAST IRON	PHOSPHATE							
IMPALA / 07-11	SWG10049-2	99.50		2.500 0.098	X	2.850 0.112	NIFF-S	STEEL	NITRIDED							
MONTE CARLO / 06-07	SWG10049-3	99.75														
VUE / 08-10	SWG10049-4	100.00														
	REFERENCE # 89018067 89018068		TOP 2ND OIL													
3.5L (213CID,3498CC),OHV,6CYL, 94.000MM (3.701"), High Value LX9 / 2004-2008																
G6 / 05-06	SWG10038-0	94.00	Top: 2nd: Oil:	1.200 0.047	X	3.300 0.130	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
MALIBU / 04-08	SWG10038-1	94.25		1.500 0.059	X	3.700 0.146	T1-RB	CAST IRON	PHOSPHATE							
MALIBU MAXX / 04-06	SWG10038-2	94.50		2.500 0.098	X	2.700 0.106	NIFF-H	STEEL	CHROME							
MONTANA SV6 / 05-06	SWG10038-3	94.75														
RELAY / 05-06	SWG10038-4	95.00														
RENDEZVOUS / 06-07																
	REFERENCE # 12584525		TOP 2ND OIL													
3.6L (217CID,3564CC),DOHC,6CYL, 94.000MM (3.701"), Alloytec LLT / 2008-2015																
ACADIA / 09-15	SWG10052-0	94.00	Top: 2nd: Oil:	1.200 0.047	X	3.300 0.130	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ACADIA DENALI / 11-15	SWG10052-1	94.25		1.500 0.059	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE							
CAMARO / 10-11	SWG10052-2	94.50		2.500 0.098	X	2.500 0.098	NIFF-H	STEEL	CHROME							
CTS / 08-11	SWG10052-3	94.75														
ENLCLAVE / 09-11	SWG10052-4	95.00														
LaCrosse / 10-11																
	REFERENCE # 12616973		TOP 2ND OIL													
3.6L (217CID,3564CC),DOHC,6CYL, 94.000MM (3.701"), Alloytec LY7 / 2004-2012																
ACADIA / 07-08	SWG10039-0	94.00	Top: 2nd: Oil:	1.200 0.047	X	2.900 0.114	BF-IB	STEEL	NITRIDED	11-917-0	94.00	TL:	54.90	PL:	61.00	CHK.
AURA / 07-09	SWG10039-1	94.25		1.500 0.059	X	3.400 0.134	TUC	CAST IRON	PHOSPHATE	11-917-1	94.25	CH:	32.00	PD:	24.00	DIA
CTS / 04-09	SWG10039-2	94.50		2.500 0.098	X	2.500 0.098	NIFF-H	STEEL	CHROME	11-917-2	94.50	DIST1:	-3.00	Head:	NONE	15.00
ENLCLAVE / 08-08	SWG10039-3	94.75								11-917-3	94.75	DIST2:		Skirt:	MS	
EQUINOX / 08-09	SWG10039-4	95.00							11-917-4	95.00	DIST3:					
G6 / 07-09																
	REFERENCE # 12608615		TOP 2ND OIL							REFERENCE # 12590866						
G8 / 08-09																
LaCrosse / 05-08																
MALIBU / 09-12																
OUTLOOK / 07-10																
RENDEZVOUS / 04-06																
SRX / 04-09																
STS / 05-11																
TORRENT / 08-09																
VUE / 08-08																



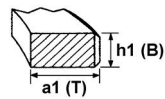
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO	
3.7L (223CID,3653CC),DOHC,5CYL, 95.500MM (3.760"), ATLAS LLR,Vortec 3700 LLR / 2007-2012											
CANYON / 07-12	SWG10036-0	95.50	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons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



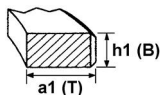
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.8L (231CID,3791CC),OHV,6CYL, 96.500MM (3.799"), BUICK V6 L67 / 1994-1995																
BONNEVILLE / 94-95	SWG10006-0	96.50	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
EIGHTY EIGHT / 95-95	SWG10006-1	96.75		0.047		0.138										
NINETY EIGHT / 94-95	SWG10006-2	97.00	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE							
PARK AVENUE / 94-95	SWG10006-3	97.25		0.059		0.150										
RIVIERA / 95-95	SWG10006-4	97.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
	AM Ring Available			0.118		0.112										
	REFERENCE # 24502947		TOP		2ND		OIL									
3.8L (231CID,3791CC),OHV,6CYL, 96.520MM (3.800"), BUICK V6 L36,BUICK V6 L67 / 1995-2008																
BONNEVILLE / 95-03	SWG10003-0	96.52	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-888-0	96.52	TL:	53.30	PL:	65.50	CHK.
CAMARO / 95-02	SWG10003-1	96.77		0.047		0.138							11-888-1	96.77	CH:	27.40
EIGHTY EIGHT / 95-99	SWG10003-2	97.02	2nd:	1.500	X	3.800	T1-RB	CAST IRON	PHOSPHATE	11-888-2	97.02	DIST1:	-1.30	Head:	NONE	12.00
FIREBIRD / 95-02	SWG10003-3	97.27		0.059		0.150							11-888-3	97.27	DIST2:	
GRAND PRIX / 97-08	SWG10003-4	97.52	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-888-4	97.52	DIST3:				
IMPALA / 00-05	AM Ring Available			0.079		0.110										
INTRIGUE / 98-99	REFERENCE #		TOP		2ND		OIL	REFERENCE #								
LeSabre / 96-05	12480825							12537408								
LSS / 96-99	12537410							12539085								
LUMINA / 98-99																
MONTE CARLO / 98-05																
NINETY EIGHT / 95-96																
PARK AVENUE / 95-05																
REGAL / 96-04																
REGENCY / 97-98																
RIVIERA / 96-99																
ROYALE / 95-95																
3.9L (237CID,3880CC),OHV,6CYL, 99.000MM (3.898"), High Value LGD,High Value LZ8,High Value LZ9 / 2006-2011																
G6 / 06-09	SWG10049-0	99.00	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
IMPALA / 07-11	SWG10049-1	99.25		0.047		0.130										
LUCERNE / 09-11	SWG10049-2	99.50	2nd:	1.500	X	3.750	TUC	CAST IRON	PHOSPHATE							
MALIBU / 07-07	SWG10049-3	99.75		0.059		0.148										
MALIBU MAXX / 07-07	SWG10049-4	100.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED							
MONTE CARLO / 06-06				0.098		0.112										
RELAY / 06-07	REFERENCE #		TOP		2ND		OIL									
TERRAZA / 06-07	89018067															
UPLANDER / 06-09	89018068															
4.0L (244CID,3995CC),DOHC,8CYL, 87.000MM (3.425"), Northstar L47 / 1995-1995																
AURORA / 95-95	SWG10017-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10017-1	87.25		0.059		0.122										
	SWG10017-2	87.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG10017-3	87.75		0.059		0.142										
	SWG10017-4	88.00	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
				0.118		0.122										
	REFERENCE #		TOP		2ND		OIL									
	3546717															



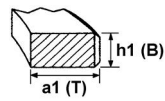
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.0L (244CID,3995CC),DOHC,8CYL, 87.000MM (3.425"), Northstar L47 / 1996-2003																
AURORA / 96-03	SWG10015-0	87.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	Pistons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



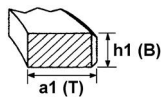
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
4.3L (262CID,4294CC),OHV,6CYL, 101.600MM (4.000"), Vortec 4300 LB4,Vortec 4300 LG3 / 1985-1995										
ASTRO / 86-94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

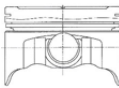
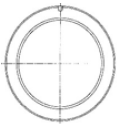
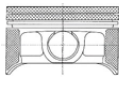
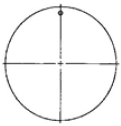


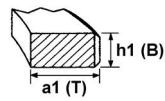
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
4.6L (281CID,4605CC),DOHC,8CYL, 93.000MM (3.661"), Northstar L37 / 1993-1995															
ALLANTE / 93-93	SWG10008-0	93.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons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



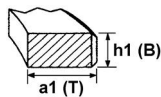
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.8L (294CID,4818CC),OHV,8CYL, 96.000MM (3.780"), Vortec 4800 LR4 / 1999-2003																
SIERRA 1500 / 99-03	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-900-0	96.00	TL:	64.80	PL:	63.50	CHK.
SILVERADO 1500 / 99-03	SWG10005-1	96.25		0.059		0.130				11-900-1	96.25	CH:	33.60	PD:	23.96	
TAHOE / 00-03	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-900-2	96.50	DIST1:	-1.80	Head:	NONE	25.00
	SWG10005-3	96.75		0.059		0.157				11-900-3	96.75	DIST2:		Skirt:	MS	
YUKON / 00-03	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-900-4	97.00	DIST3:				
	AM Ring Available		0.118	0.126												
	REFERENCE #	TOP	2ND	OIL	REFERENCE #						  					
	12456338				88894404											
	19208677				89017579											
	8-12456-338-0															
4.8L (294CID,4818CC),OHV,8CYL, 96.000MM (3.780"), Vortec 4800 LY2 / 1999-2010																
CUTAWAY G3500 / 05-09	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL:	59.30	PL:	65.00	CHK.
EXPRESS G2500 / 05-09	SWG10005-1	96.25		0.059		0.130				11-899-1	96.25	CH:	33.60	PD:	23.96	
EXPRESS G3500 / 05-09	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:		Head:	AH	16.00
SAVANA G2500 / 05-09	SWG10005-3	96.75		0.059		0.157				11-899-3	96.75	DIST2:		Skirt:	MS	
SAVANA G3500 / 05-09	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:				
	AM Ring Available		0.118	0.126												
SIERRA 1500 / 99-09	REFERENCE #	TOP	2ND	OIL	REFERENCE #						  					
SILVERADO 1500 / 99-09	12456338				89017577											
TAHOE / 00-10	19208677															
YUKON / 00-09	8-12456-338-0															
4.9L (302CID,4949CC),OHV,8CYL, 92.000MM (3.622"), HT-4900 L26 / 1993-1995																
DEVILLE / 94-95	SWG10002-0	92.00	Top:	1.500	X	3.800	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
Sixty Special / 93-93	SWG10002-1	92.25		0.059		0.150										
	SWG10002-2	92.50	2nd:	1.500	X	3.800	T1-RC	CAST IRON	PHOSPHATE							
	SWG10002-3	92.75		0.059		0.150										
	SWG10002-4	93.00	Oil:	3.000	X	3.100	NIFF-S	STEEL	NITRIDED							
			0.118	0.122												
	REFERENCE #	TOP	2ND	OIL												
	1645491															



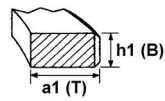
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.0L (305CID,4998CC),OHV,8CYL, 94.890MM (3.736"), Chevy S.B. 305,LG4 / 1977-2002										
BLAZER / 77-87	SWG10007-0 8	94.89	Top:	1.984 0.078	X	3.450 0.136	BF	STEEL	NITRIDED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

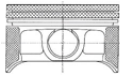
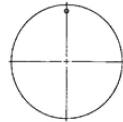


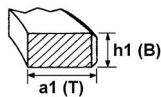
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
5.0L (307CID,5031CC),OHV,8CYL, 96.500MM (3.799"), Oldsmobile V8 307 / 1980-1991																			
BONNEVILLE / 81-81	SWG10023-0	96.50	Top:	1.984	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.									
BROUGHAM / 87-91	SWG10023-1	96.75		0.078		0.138													
CAPRICE / 85-90	SWG10023-2	97.00		2nd:	1.984	X					4.400	T1-RB	CAST IRON	PHOSPHATE					
CATALINA / 81-81	SWG10023-3	97.25	0.078			0.173													
Custom CRUISER / 80-90	SWG10023-4	97.50	Oil:	4.763	X	4.050	NIFF-S	STEEL	CHROME										
CUTLASS / 85-85	REFERENCE # 22529562	TOP	2ND	OIL															
DELTA 88 / 80-85																			
ELECTRA / 81-89																			
FLEETWOOD / 86-86																			
LeSabre / 81-89																			
NINETY EIGHT / 80-84																			
REGAL / 86-87																			
RIVIERA / 80-84																			
TORONADO / 80-84																			
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 1999-2003																			
AVALANCHE / 02-03	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-829-0	96.00	TL:	64.80	PL:	72.00	CHK.			
ESCALADE / 02-03	SWG10005-1	96.25		0.059		0.130							11-829-1	96.25	CH:	33.70	PD:	24.00	DIA
EXPRESS G1500 / 03-03	SWG10005-2	96.50		2nd:	1.500	X				4.000	T1-RB	CAST IRON	PHOSPHATE	11-829-2	96.50	DIST1:	-1.70	Head:	NONE
SAVANA G1500 / 03-03	SWG10005-3	96.75	0.059			0.157				11-829-3				96.75	DIST2:		Skirt:	MS	
SIERRA 1500 / 99-03	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-829-4	97.00	DIST3:							
SIERRA 2500 / 99-00	AM Ring Available			0.118		0.126													
SILVERADO 1500 / 99-03	REFERENCE # 12456338	TOP	2ND	OIL						REFERENCE # 8-88894-397-0 88894397									
SILVERADO 2500 / 99-00	19208677																		
SSR / 03-03	8-12456-338-0																		
SUBURBAN (CH) / 99-03																			
TAHOE / 99-03																			
YUKON / 99-03																			
YUKON XL / 02-03																			
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 2003-2009																			
AVALANCHE / 04-06	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-900-0	96.00	TL:	64.80	PL:	63.50	CHK.			
ENVOY DENALI / 05-09	SWG10005-1	96.25		0.059		0.130							11-900-1	96.25	CH:	33.60	PD:	23.96	DIA
ENVOY XL / 04-06	SWG10005-2	96.50		2nd:	1.500	X				4.000	T1-RB	CAST IRON	PHOSPHATE	11-900-2	96.50	DIST1:	-1.80	Head:	NONE
ESCALADE / 04-05	SWG10005-3	96.75	0.059			0.157				11-900-3				96.75	DIST2:		Skirt:	MS	
EXPRESS G1500 / 03-07	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-900-4	97.00	DIST3:							
RAINIER / 04-04	AM Ring Available			0.118		0.126													
SAVANA G1500 / 03-07	REFERENCE # 12456338	TOP	2ND	OIL						REFERENCE # 88894404 89017579									
SIERRA 1500 / 04-07	19208677																		
SILVERADO 1500 / 03-07	8-12456-338-0																		
SSR / 04-04																			
SUBURBAN (CH) / 04-06																			
TAHOE / 04-06																			
YUKON / 04-06																			
YUKON XL / 04-06																			



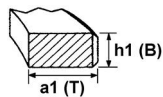
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 IV / 2005-2013																
CANYON / 09-12	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL:	59.30	PL:	65.00	CHK.
COLORADO / 09-12	SWG10005-1	96.25		0.059	0.130					11-899-1	96.25	CH:	33.60	PD:	23.96	DIA
ENVOY / 05-09	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:		Head:	AH	16.00
EXPRESS G1500 / 08-13	SWG10005-3	96.75		0.059	0.157					11-899-3	96.75	DIST2:		Skirt:	MS	
GRAND PRIX / 06-06	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:				
H3 / 08-09	AM Ring Available			0.118	0.126											
H3T / 09-09	REFERENCE #	TOP	2ND	OIL	REFERENCE #						  					
IMPALA / 07-07	12456338				89017577											
LaCrosse / 09-09	19208677															
MONTE CARLO / 06-07	8-12456-338-0															
RAINIER / 05-07																
SAVANA G1500 / 08-13																
TAHOE / 07-09																
TRAILBLAZER / 06-08																
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 IV / 2007-2014																
AVALANCHE / 07-13	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-920-0	96.00	TL:		PL:		CHK.
SIERRA 1500 / 07-13	SWG10005-1	96.25		0.059	0.130					11-920-1	96.25	CH:		PD:		DIA
SILVERADO 1500 / 07-13	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-920-2	96.50	DIST1:		Head:	AH	
SUBURBAN (CH) / 07-14	SWG10005-3	96.75		0.059	0.157					11-920-3	96.75	DIST2:		Skirt:	MS	
TAHOE / 10-14	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-920-4	97.00	DIST3:				
YUKON / 07-13	AM Ring Available			0.118	0.126											
YUKON XL / 07-13	REFERENCE #	TOP	2ND	OIL	REFERENCE #											
	12456338				19208675											
	19208677															
	8-12456-338-0															
5.7L (346CID,5670CC),OHV,8CYL, 99.000MM (3.898"), Vortec 5700 LS1,Vortec 5700 LS6 / 1997-2009																
CAMARO / 98-02	SWG10018-0	99.00	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
CORVETTE / 97-04	SWG10018-1	99.25		0.059	0.138											
CTS / 04-06	SWG10018-2	99.50	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE							
FIREBIRD / 98-02	SWG10018-3	99.75		0.059	0.161											
GRAND PRIX / 05-08	SWG10018-4	100.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED							
GTO / 04-04				0.118	0.126											
IMPALA / 08-09	REFERENCE #	TOP	2ND	OIL												
	88894299															
	88984247															



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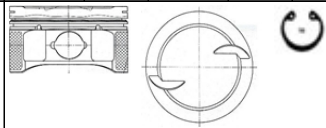
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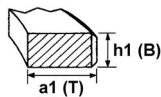
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
5.7L (350CID,5735CC),OHV,8CYL, 101.600MM (4.000"), Chevy S.B. 350,Chevy S.B. 350 L83,Chevy S.B. 350 L98,Vortec 5700 L31 / 1974-1998																
BLAZER / 74-94	SWF80016-0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



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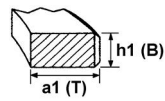
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
6.0L (364CID,5967CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 L76,L96 / 2006-2015																
AVALANCHE / 07-09	SWG10031-0	101.60	Top:	1.200	X	3.500	BF	STEEL	NITRIDED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

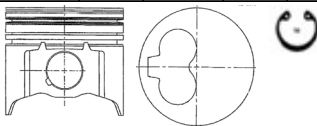
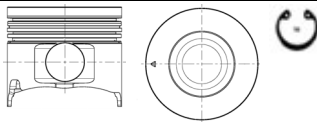
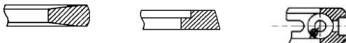


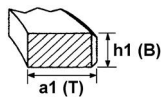
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
6.0L (364CID,5967CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 LQ4,LQ9 / 1999-2006																
CUTAWAY G3500 / 03-05	SWI10197-0	101.60	Top:	1.500	X	3.650	BF	STEEL	CHROME	11-823-0	101.60	TL:	60.60	PL:	70.00	CHK.
	SWI10197-1	101.85		0.059	0.144	0.144						11-823-1	101.85	CH:	33.80	PD:
ESCALADE / 02-06	SWI10197-2	102.10	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-823-2	102.10	DIST1:	-1.10	Head:	NONE	21.00
ESCALADE EXT / 02-06	SWI10197-3	102.35		0.059	0.165	0.165						11-823-3	102.35	DIST2:		Skirt:
EXPRESS G2500 / 03-05	SWI10197-4	102.60	Oil:	3.000	X	3.350	NIFF-S	STEEL	CHROME	11-823-4	102.60	DIST3:				
EXPRESS G3500 / 03-05			0.118	0.132	0.132											
H2 / 03-04	REFERENCE #	TOP	2ND OIL						REFERENCE #							
SAVANA G2500 / 03-05	12456342								88894003							
SAVANA G3500 / 03-05	12522848															
SIERRA 1500 / 01-05	88894243															
SIERRA 2500 / 99-04																
SIERRA 2500 HD / 01-05																
SIERRA 3500 / 01-05																
SILVERADO 1500 / 03-05																
SILVERADO 2500 / 99-04																
SILVERADO 2500HD / 01-05																
SILVERADO 3500HD / 01-05																
SUBURBAN (CH) / 00-06																
YUKON / 01-05																
YUKON DENALI / 01-06																
6.2L (376CID,6162CC),OHV,8CYL, 103.250MM (4.065"), Vortec 6200 L92,L94 / 2007-2014																
ESCALADE / 07-14	SWG10050-0	103.25	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-904-0	103.25	TL:	56.00	PL:	65.00	CHK.
ESCALADE EXT / 07-13	SWG10050-1	103.50		0.059	0.138	0.138						11-904-1	103.50	CH:	34.00	PD:
H2 / 08-09	SWG10050-2	103.75	2nd:	1.500	X	4.700	TUC	CAST IRON	PHOSPHATE	11-904-2	103.75	DIST1:	-3.70	Head:	AH	9.00
SIERRA 1500 DENALI / 09-13	SWG10050-3	104.00		0.059	0.185	0.185						11-904-3	104.00	DIST2:		Skirt:
SILVERADO 1500 / 10-13	SWG10050-4	104.25	Oil:	2.500	X	2.850	NIFF-H	STEEL	CHROME	11-904-4	104.25	DIST3:				
			0.098	0.112	0.112											
YUKON DENALI / 07-13	REFERENCE #	TOP	2ND OIL						REFERENCE #							
YUKON XL DENALI / 10-13	19168090								19178597							
									19208471							
6.2L (376CID,6162CC),OHV,8CYL, 103.250MM (4.065"), Vortec 6200 LS3,Vortec 6200 LSA,Vortec 6200 LT1 / 2008-2017																
CAMARO / 10-17	SWG10050-0	103.25	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
CAMARO ZL1 / 12-15	SWG10050-1	103.50		0.059	0.138	0.138										
CORVETTE / 08-15	SWG10050-2	103.75	2nd:	1.500	X	4.700	TUC	CAST IRON	PHOSPHATE							
G8 / 09-09	SWG10050-3	104.00		0.059	0.185	0.185										
SS / 14-15	SWG10050-4	104.25	Oil:	2.500	X	2.850	NIFF-H	STEEL	CHROME							
			0.098	0.112	0.112											
	REFERENCE #	TOP	2ND OIL													
	19168090															



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



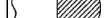
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.8L (475CID,7785CC),SOHC,6CYL, 115.000MM (4.528"), Duramax LG4 / 2003-2009 DIESEL										
TOPKICK / 03-09	SDI10178-0	115.00	Top:	2.948	X	4.100	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDI10178-1	115.25		0.116	0.161					
	SDI10178-2	115.50	2nd:	2.000	X	4.300	T1-IB	STEEL	NITRIDED	
	SDI10178-3	115.75		0.079	0.169					
	SDI10178-4	116.00	3rd:	2.500	X	4.800	TUC	CAST IRON	CHROME	
				0.098	0.189					
		Oil:	3.000	X	3.100	E-BC16	STEEL	NITRIDED		
			0.118	0.122						
REFERENCE # 94391502*		TOP	2ND		3RD		OIL			
										

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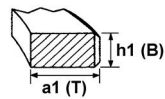
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5.0L (305CID,5000CC),SOHC,4CYL, 112.000MM (4.409"), J05E-TP,J05E-TPH / 2012-2015 DIESEL										
CLASS 5 - 195 / 12-15	SDH20108-0	112.00	Top:	2.500	X	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR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

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

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

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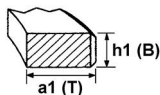
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
7.7L (469CID,7684CC),SOHC,6CYL, 112.000MM (4.409"), J08E-TV,J08E-TW,J08E-VB,J08E-VC / 2009-2015 DIESEL										
CLASS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

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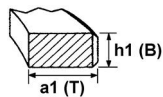
1.2L (71CID,1169CC),SOHC,4CYL, 70.000MM (2.756"), EB1 / 1973-1973																
CIVIC / 73-73	SWH30107-0	70.00	Top:	1.500	X	2.800	T1	CAST IRON	CHROME	DISC-11-096-0	70.00					
	SWH30107-1	70.25		0.059		0.110				DISC-11-096-1	70.25					
	SWH30107-2	70.50	2nd:	1.500	X	2.800	T1	CAST IRON	PHOSPHATE	DISC-11-096-2	70.50					
	SWH30107-3	70.75		0.059		0.110				DISC-11-096-3	70.75					
	SWH30107-4	71.00		3rd:	2.500	X	2.500	NIFF-H	STEEL	CHROME	DISC-11-096-4					
			Oil:	2.800	X	2.750	NIFF-S	STEEL	CHROME							
	REFERENCE #		TOP	2ND	3RD	OIL	REFERENCE #									
	13011-634-004						13101-634-000									
1.2L (75CID,1237CC),SOHC,4CYL, 72.000MM (2.835"), EB2 / 1974-1978																
CIVIC / 74-78	SWH30184-0	72.00	Top:	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-097-0	72.00					
	SWH30184-1	72.25		0.059		0.112				DISC-11-097-1	72.25					
	SWH30184-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-097-2	72.50					
	SWH30184-3	72.75		0.059		0.134				DISC-11-097-3	72.75					
	SWH30184-4	73.00		Oil:	2.800	X	3.100	NIFF-S	STEEL	NITRIDED	DISC-11-097-4					
			0.110		0.122											
	REFERENCE #		TOP	2ND	OIL	REFERENCE #										
	13011-642-004					13101-634-670										
1.2L (75CID,1237CC),SOHC,4CYL, 72.000MM (2.835"), EB3 / 1978-1979																
CIVIC / 78-79	SWH30162-0	72.00	Top:	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-098-0	72.00					
	SWH30162-1	72.25		0.059		0.122				DISC-11-098-1	72.25					
	SWH30162-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-098-2	72.50					
	SWH30162-3	72.75		0.059		0.134				DISC-11-098-3	72.75					
	SWH30162-4	73.00		Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-098-4					
			0.157		0.120											
	REFERENCE #		TOP	2ND	OIL	REFERENCE #										
	13011-673-000					13101-634-671										
	13011-PA0-004															
	13011-PA1-004															



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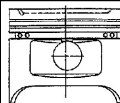
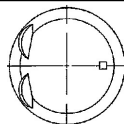
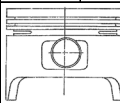
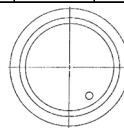
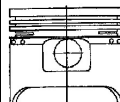
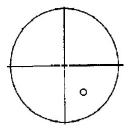
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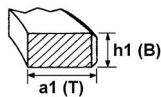
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.3L (81CID,1335CC),SOHC,4CYL, 72.000MM (2.835"), EJ1 / 1980-1980																	
CIVIC / 80-80	SWH30162-0	72.00	Top:	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-099-0	72.00						
	SWH30162-1	72.25		0.059		0.122			DISC-11-099-1	72.25							
	SWH30162-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-099-2	72.50						
	SWH30162-3	72.75		0.059		0.134			DISC-11-099-3	72.75							
	SWH30162-4	73.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-099-4	73.00						
				0.157		0.120											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	13011-673-000							13101-PA0-000									
	13011-PA0-004																
	13011-PA1-004																
1.3L (81CID,1335CC),SOHC,4CYL, 72.000MM (2.835"), EJ1 / 1981-1981																	
CIVIC / 81-81	SWH30162-0	72.00	Top:	1.500	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-100-0	72.00						
	SWH30162-1	72.25		0.059		0.122			DISC-11-100-1	72.25							
	SWH30162-2	72.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-100-2	72.50						
	SWH30162-3	72.75		0.059		0.134			DISC-11-100-3	72.75							
	SWH30162-4	73.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-100-4	73.00						
				0.157		0.120											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	13011-673-000							13101-PA5-000									
	13011-PA0-004																
	13011-PA1-004																
1.3L (81CID,1335CC),SOHC,4CYL, 72.000MM (2.835"), EJ1 / 1982-1983																	
CIVIC / 82-83	SWH30219-0	72.00	Top:	1.000	X	2.850	BF	STEEL	CHROME	DISC-11-102-0	72.00						
	SWH30219-1	72.25		0.039		0.112			DISC-11-102-1	72.25							
	SWH30219-2	72.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-102-2	72.50						
	SWH30219-3	72.75		0.047		0.126			DISC-11-102-3	72.75							
	SWH30219-4	73.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-102-4	73.00						
				0.110		0.118											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	13011-PA5-004							13101-PA5-030									
1.3L (82CID,1339CC),SOHC,4CYL, 73.000MM (2.874"), LDA-MF3 / 2003-2011																	
CIVIC HYBRID / 03-11	SWH30474-0	73.00	Top:	1.000	X	2.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWH30474-1	73.25		0.039		0.089											
	SWH30474-2	73.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE								
	SWH30474-3	73.75		0.047		0.118											
	SWH30474-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	CHROME								
				0.079		0.087											
	REFERENCE #		TOP	2ND		OIL											
	13011-PWA-G01																
	13011-RMX-001																



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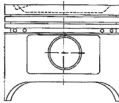
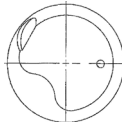
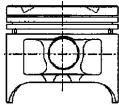
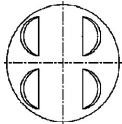
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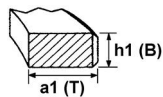
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.3L (82CID,1342CC),SOHC,4CYL, 74.000MM (2.913"), EV1 / 1985-1986																	
CIVIC / 85-86	SWH30252-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	DISC-11-109-0	74.00						
	SWH30252-1	74.25		0.047		0.110				DISC-11-109-1	74.25						
	SWH30252-2	74.50	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-109-2	74.50						
	SWH30252-3	74.75		0.110		0.110				DISC-11-109-3	74.75						
	SWH30252-4	75.00		DISC-11-109-4		75.00											
	REFERENCE # 13011-PE0-662		TOP		OIL		REFERENCE # 13101-PE0-660 13105-PE0-660										
																	
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), D15A3,EW3,EW4 / 1985-1987																	
CIVIC / 85-86 CRX / 86-87	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	11-515-0	74.00	TL:	59.80	PL:	56.00	CHK.	DIA 17.50
	SWH30114-1	74.25		0.059		0.134				11-515-1	74.25	CH:	29.80	PD:	19.00	DIA	
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-515-2	74.50	DIST1:	-2.70	Head:	NONE	NONE	
	SWH30114-3	74.75		0.059		0.126				11-515-3	74.75	DIST2:		Skirt:	NONE	NONE	
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-515-4	75.00	DIST3:					
			0.157	0.120													
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP		2ND		OIL		REFERENCE # 13101-PE7-305			 						
																	
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), ED3,ED4 / 1975-1979																	
CIVIC / 75-79	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	11-105-0	74.00	TL:	57.70	PL:	62.00	CHK.	DIA 10.00
	SWH30114-1	74.25		0.059		0.134				11-105-1	74.25	CH:	27.70	PD:	17.00	DIA	
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-105-2	74.50	DIST1:	-1.50	Head:	NONE	NONE	
	SWH30114-3	74.75		0.059		0.126				11-105-3	74.75	DIST2:		Skirt:	NONE	NONE	
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-105-4	75.00	DIST3:					
			0.157	0.120													
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP		2ND		OIL		REFERENCE # 13101-657-030 13101-657-670			 						
																	
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), EM1 / 1980-1980																	
CIVIC / 80-80	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	11-106-0	74.00	TL:	62.70	PL:	62.00	CHK.	DIA 20.00
	SWH30114-1	74.25		0.059		0.134				11-106-1	74.25	CH:	27.70	PD:	17.00	DIA	
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-106-2	74.50	DIST1:		Head:	NONE	NONE	
	SWH30114-3	74.75		0.059		0.126				11-106-3	74.75	DIST2:		Skirt:	NONE	NONE	
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-106-4	75.00	DIST3:					
			0.157	0.120													
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP		2ND		OIL		REFERENCE # 13101-PA6-000			 						
																	



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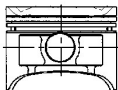
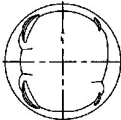
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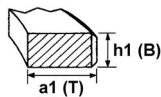
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO																				
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), EM1 / 1981-1983																														
CIVIC / 81-83	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	DISC-11-107-0	74.00																			
	SWH30114-1	74.25		0.059		0.134				DISC-11-107-1	74.25																			
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-107-2	74.50																			
	SWH30114-3	74.75		0.059		0.126				DISC-11-107-3	74.75																			
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-107-4	75.00																			
			0.157	0.120																										
REFERENCE # 04151-PE7-305 13011-657-674 13011-671-010		TOP 2ND OIL   								REFERENCE # 13101-PA6-305																				
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), EM1 / 1982-1983																														
CIVIC / 82-83	SWH30253-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	DISC-11-108-0	74.00																			
	SWH30253-1	74.25		0.047		0.110				DISC-11-108-1	74.25																			
	SWH30253-2	74.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-108-2	74.50																			
	SWH30253-3	74.75		0.047		0.126				DISC-11-108-3	74.75																			
	SWH30253-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-108-4	75.00																			
			0.110	0.110																										
REFERENCE # 13011-PA6-014 13011-PE1-004		TOP 2ND OIL   								REFERENCE # 13101-PA6-306																				
1.5L (91CID,1488CC),SOHC,4CYL, 74.000MM (2.913"), EW1 / 1984-1984																														
CIVIC / 84-84	SWH30253-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	11-111-0	74.00	TL:	59.80	PL:	56.00	CHK.														
	SWH30253-1	74.25		0.047		0.110				11-111-1	74.25						CH:	29.80	PD:	19.00	DIA									
	SWH30253-2	74.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE	11-111-2	74.50											DIST1:	-4.70	Head:	NONE	10.00				
	SWH30253-3	74.75		0.047		0.126				11-111-3	74.75																			
	SWH30253-4	75.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-111-4	75.00																DIST2:		Skirt:	NONE
			0.110	0.110										DIST3:																
REFERENCE # 13011-PA6-014 13011-PE1-004		TOP 2ND OIL   								REFERENCE # 13101-PE1-000 13105-PE1-000		 																		
1.5L (91CID,1493CC),SOHC,4CYL, 75.000MM (2.953"), D15B1,D15B2 / 1988-1991																														
CIVIC / 88-91 CRX / 88-91	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-518-0	75.00	TL:	60.80				PL:	56.00	CHK.											
	SWH30365-1	75.25		0.047		0.106				11-518-1	75.25									CH:	30.80	PD:	19.00	DIA						
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-518-2	75.50			DIST1:		Head:									NONE	10.00				
	SWH30365-3	75.75		0.059		0.126				11-518-3	75.75																DIST2:		Skirt:	NONE
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-518-4	76.00																			
			0.110	0.110																										
REFERENCE # 13011-P04-G02 13011-PJ1-752		TOP 2ND OIL   								REFERENCE # 13101-PM3-020		 																		



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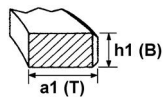
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.5L (91CID,1493CC),SOHC,4CYL, 75.000MM (2.953"), D15B6 / 1989-1991																
CRX / 89-91	SWH30363-0	75.00	Top:	1.000	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30363-1	75.25		0.039		0.104										
	SWH30363-2	75.50	2nd:	1.200	X	3.200	T1	CAST IRON	PHOSPHATE							
	SWH30363-3	75.75		0.047		0.126										
	SWH30363-4	76.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME							
				0.110		0.118										
REFERENCE # 13011-PM8-A02		TOP		2ND		OIL										
1.5L (91CID,1493CC),SOHC,4CYL, 75.000MM (2.953"), D15B7 / 1992-1995																
CIVIC / 92-95 DEL SOL / 93-95	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-746-0	75.00					
	SWH30362-1	75.25		0.047		0.106				DISC-11-746-1	75.25					
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-746-2	75.50					
	SWH30362-3	75.75		0.059		0.126				DISC-11-746-3	75.75					
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	DISC-11-746-4	76.00					
				0.110		0.100										
REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02		TOP		2ND		OIL		REFERENCE # 13010-P03-010								
1.5L (91CID,1493CC),SOHC,4CYL, 75.000MM (2.953"), D15B8 / 1992-1995																
CIVIC / 92-95	SWH30365-0	75.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30365-1	75.25		0.047		0.106										
	SWH30365-2	75.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE							
	SWH30365-3	75.75		0.059		0.126										
	SWH30365-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME							
				0.110		0.110										
REFERENCE # 13011-P04-G02 13011-PJ1-752		TOP		2ND		OIL										
1.5L (91CID,1493CC),SOHC,4CYL, 75.000MM (2.953"), D15Z1 / 1992-1995																
CIVIC / 92-95	SWH30423-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-736-0	75.00	TL:	57.80	PL:	56.00	CHK.
	SWH30423-1	75.25		0.039		0.104				11-736-1	75.25	CH:	27.80	PD:	19.00	DIA
	SWH30423-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-736-2	75.50	DIST1:	-7.20	Head:	NONE	15.50
	SWH30423-3	75.75		0.047		0.110				11-736-3	75.75	DIST2:		Skirt:	NONE	
	SWH30423-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-736-4	76.00	DIST3:				
				0.110		0.100										
REFERENCE # 13011-P07-004 13011-P2F-A01		TOP		2ND		OIL		REFERENCE # 13010-P07-000								
								 								



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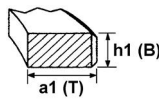
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.5L (91CID,1496CC),SOHC,4CYL, 73.000MM (2.874"), L15A1 / 2007-2008																	
FIT / 07-08	SWH30474-0	73.00	Top:	1.000	X	2.250	BF-IB	STEEL	CHROME	11-890-0	73.00	TL:	49.40	PL:	54.00	CHK.	
	SWH30474-1	73.25		0.039		0.089				11-890-1	73.25	CH:	26.20	PD:	18.00	DIA	
	SWH30474-2	73.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE	11-890-2	73.50	DIST1:	1.70	Head:	NONE	6.00	
	SWH30474-3	73.75		0.047		0.118				11-890-3	73.75	DIST2:		Skirt:	MS		
	SWH30474-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	CHROME	11-890-4	74.00	DIST3:					
	REFERENCE # 13011-PWA-G01 13011-RMX-001		TOP	2ND			OIL			REFERENCE # 13010-PWC-J01							
1.5L (91CID,1497CC),SOHC,4CYL, 73.000MM (2.874"), L15A7,LEA / 2009-2016																	
CIVIC HYBRID / 12-15 CR-Z HYBRID / 11-16 FIT / 09-14	SWH30465-0	73.00	Top:	1.000	X	2.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWH30465-1	73.25		0.039		0.091											
	SWH30465-2	73.50	2nd:	1.000	X	2.300	TUC	STEEL	PHOSPHATE								
	SWH30465-3	73.75		0.039		0.091											
	SWH30465-4	74.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED								
	REFERENCE # 13011-RB1-004 13011-RB1-006 13011-RW0-004		TOP	2ND			OIL										
1.6L (97CID,1590CC),DOHC,4CYL, 81.000MM (3.189"), B16A2,B16A3 / 1994-2000																	
CIVIC Si / 99-00 DEL SOL / 94-97	SWH30373-0	81.00	Top:	1.000	X	3.100	BF-IB	STEEL	CHROME	11-737-0	81.00	TL:	62.60	PL:	56.00	CHK.	
	SWH30373-1	81.25		0.039		0.122				11-737-1	81.25	CH:	30.00	PD:	21.00	DIA	
	SWH30373-2	81.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE	11-737-2	81.50	DIST1:	2.60	Head:	NONE	16.00	
	SWH30373-3	81.75		0.047		0.130				11-737-3	81.75	DIST2:		Skirt:	NONE		
	SWH30373-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	11-737-4	82.00	DIST3:					
	REFERENCE # 13011-PR3-004		TOP	2ND			OIL			REFERENCE # 13010-P30-G00							
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), D16A6 / 1988-1991																	
CIVIC / 88-91 CRX / 88-91	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-514-0	75.00	TL:	59.60	PL:	56.00	CHK.	
	SWH30362-1	75.25		0.047		0.106				11-514-1	75.25	CH:	29.50	PD:	19.00	DIA	
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-514-2	75.50	DIST1:	-1.00	Head:	NONE	30.00	
	SWH30362-3	75.75		0.059		0.126				11-514-3	75.75	DIST2:		Skirt:	NONE		
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-514-4	76.00	DIST3:					
	REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02		TOP	2ND			OIL			REFERENCE # 13101-PM6-020							



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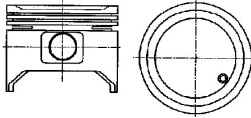
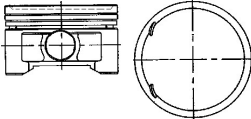
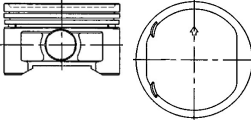
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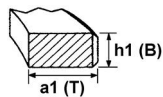
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), D16Y5 / 1996-2000																
CIVIC / 96-00	SWH30423-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-785-0	75.00	TL:	49.10	PL:	56.00	CHK.
	SWH30423-1	75.25		0.039		0.104				11-785-1	75.25	CH:	29.10	PD:	19.00	DIA
	SWH30423-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-785-2	75.50	DIST1:	-2.40	Head:	NONE	3.00
	SWH30423-3	75.75		0.047		0.110				11-785-3	75.75	DIST2:	-4.40	Skirt:	NONE	
	SWH30423-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-785-4	76.00	DIST3:	-2.60			
REFERENCE # 13011-P07-004 13011-P2F-A01		TOP 2ND OIL						REFERENCE # 13010-P2M-000								
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), D16Y7 / 1996-2000																
CIVIC / 96-00 DEL SOL / 96-97	SWH30423-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-752-0	75.00	TL:	50.00	PL:	56.00	CHK.
	SWH30423-1	75.25		0.039		0.104				11-752-1	75.25	CH:	30.00	PD:	19.00	DIA
	SWH30423-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-752-2	75.50	DIST1:	-3.40	Head:	NONE	15.00
	SWH30423-3	75.75		0.047		0.110				11-752-3	75.75	DIST2:		Skirt:	NONE	
	SWH30423-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-752-4	76.00	DIST3:				
REFERENCE # 13011-P07-004 13011-P2F-A01		TOP 2ND OIL						REFERENCE # 13010-P2E-000								
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), D16Y8 / 1996-2000																
CIVIC / 96-00 DEL SOL / 96-97	SWH30423-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-732-0	75.00	TL:	49.90	PL:	56.00	CHK.
	SWH30423-1	75.25		0.039		0.104				11-732-1	75.25	CH:	29.90	PD:	19.00	DIA
	SWH30423-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-732-2	75.50	DIST1:	-2.80	Head:	NONE	10.00
	SWH30423-3	75.75		0.047		0.110				11-732-3	75.75	DIST2:		Skirt:	NONE	
	SWH30423-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-732-4	76.00	DIST3:				
REFERENCE # 13011-P07-004 13011-P2F-A01		TOP 2ND OIL						REFERENCE # 13010-P2P-000								
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), D16Z6 / 1992-1995																
CIVIC / 92-95 DEL SOL / 93-95	SWH30362-0	75.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-679-0	75.00	TL:	60.00	PL:	56.00	CHK.
	SWH30362-1	75.25		0.047		0.106				11-679-1	75.25	CH:	30.00	PD:	19.00	DIA
	SWH30362-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-679-2	75.50	DIST1:	-3.50	Head:	NONE	27.00
	SWH30362-3	75.75		0.059		0.126				11-679-3	75.75	DIST2:		Skirt:	NONE	
	SWH30362-4	76.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-679-4	76.00	DIST3:				
REFERENCE # 13011-P10-A03 13011-P28-A02 13011-PM6-G02		TOP 2ND OIL						REFERENCE # 13010-P28-A01								



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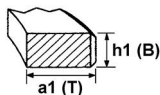
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1597CC),SOHC,4CYL, 74.000MM (2.913"), EF1 / 1976-1978																	
ACCORD / 76-78	SWH30114-0	74.00	Top:	1.500	X	3.400	BF	CAST IRON	CHROME	11-113-0	74.00	TL:	57.50	PL:	62.00	CHK.	
	SWH30114-1	74.25		0.059		0.134				11-113-1	74.25	CH:	27.50	PD:	17.00	DIA	
	SWH30114-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-113-2	74.50	DIST1:	-2.50	Head:	NONE	10.00	
	SWH30114-3	74.75		0.059		0.126				11-113-3	74.75	DIST2:		Skirt:	NONE		
	SWH30114-4	75.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-113-4	75.00	DIST3:					
				0.157		0.120											
	REFERENCE #		TOP	2ND		OIL			REFERENCE #								
	04151-PE7-305								13101-689-000								
	13011-657-674																
	13011-671-010																
1.7L (102CID,1668CC),SOHC,4CYL, 75.000MM (2.953"), D17A1 / 2001-2005																	
CIVIC / 01-05	SWH30440-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-797-0	75.00	TL:	46.50	PL:	56.00	CHK.	
	SWH30440-1	75.25		0.039		0.104				11-797-1	75.25	CH:	26.90	PD:	19.00	DIA	
	SWH30440-2	75.50	2nd:	1.200	X	3.000	T1	CAST IRON	PHOSPHATE	11-797-2	75.50	DIST1:	-2.90	Head:	NONE	5.00	
	SWH30440-3	75.75		0.047		0.118				11-797-3	75.75	DIST2:		Skirt:	NONE		
	SWH30440-4	76.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-797-4	76.00	DIST3:					
				0.079		0.096											
	REFERENCE #		TOP	2ND		OIL			REFERENCE #								
	13011-PLM-A00								13010-PLM-A00								
	13011-PLR-A00																
	1.7L (102CID,1668CC),SOHC,4CYL, 75.000MM (2.953"), D17A7,D17A8 / 2001-2005																
CIVIC / 01-05	SWH30440-0	75.00	Top:	1.000	X	2.650	BF-IB	STEEL	CHROME	11-798-0	75.00	TL:	45.60	PL:	56.00	CHK.	
	SWH30440-1	75.25		0.039		0.104				11-798-1	75.25	CH:	27.00	PD:	19.00	DIA	
	SWH30440-2	75.50	2nd:	1.200	X	3.000	T1	CAST IRON	PHOSPHATE	11-798-2	75.50	DIST1:	-2.70	Head:	NONE	5.00	
	SWH30440-3	75.75		0.047		0.118				11-798-3	75.75	DIST2:		Skirt:	NONE		
	SWH30440-4	76.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-798-4	76.00	DIST3:					
				0.079		0.096											
	REFERENCE #		TOP	2ND		OIL			REFERENCE #								
	13011-PLM-A00								13010-PLR-A00								
	13011-PLR-A00																
	1.8L (107CID,1751CC),SOHC,4CYL, 77.000MM (3.031"), EK1 / 1979-1983																
ACCORD / 79-83 PRELUDE / 79-82	SWH30158-0	77.00	Top:	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-116-0	77.00						
	SWH30158-1	77.25		0.059		0.112				DISC-11-116-1	77.25						
	SWH30158-2	77.50	2nd:	1.500	X	3.300	TUC	CAST IRON	PHOSPHATE	DISC-11-116-2	77.50						
	SWH30158-3	77.75		0.059		0.130				DISC-11-116-3	77.75						
	SWH30158-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-116-4	78.00						
				0.157		0.120											
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												13101-689-010					



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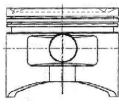
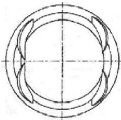
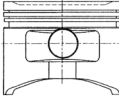
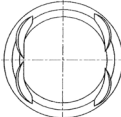
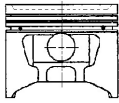
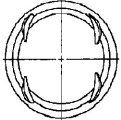
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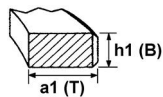
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO					
1.8L (110CID,1798CC),SOHC,4CYL, 81.000MM (3.189"), R18A1 / 2006-2009																	
CIVIC / 06-09	SWH30484-0	81.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	11-891-0	81.00	TL:	49.40	PL:	46.00	CHK.	
	SWH30484-1	81.25		0.047		0.098				11-891-1	81.25	CH:	28.88	PD:	19.96	DIA	
	SWH30484-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-891-2	81.50	DIST1:	-2.00	Head:	AH	6.00	
	SWH30484-3	81.75		0.047		0.134				11-891-3	81.75	DIST2:		Skirt:	MS		
	SWH30484-4	82.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED	11-891-4	82.00	DIST3:					
			0.079	0.098													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #								
	13011-R9A-A01								13010-RNA-A00								
	13011-RNA-A01																
	13011-RNB-A02																
1.8L (110CID,1798CC),SOHC,4CYL, 81.000MM (3.189"), R18A1,R18Z9 / 2010-2016																	
CIVIC / 10-15 HR-V / 16-16	SWH30484-0	81.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWH30484-1	81.25		0.047		0.098											
	SWH30484-2	81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE								
	SWH30484-3	81.75		0.047		0.134											
	SWH30484-4	82.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED								
			0.079	0.098													
	REFERENCE #		TOP		2ND		OIL										
	13011-R9A-A01																
	13011-RNA-A01																
	13011-RNB-A02																
1.8L (112CID,1829CC),SOHC,4CYL, 80.000MM (3.150"), A18A1,ET2 / 1984-1987																	
PRELUDE / 84-87	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-122-0	80.00	TL:	65.30	PL:	61.00	CHK.	
	SWH30251-1	80.25		0.059		0.120				11-122-1	80.25	CH:	29.80	PD:	20.00	DIA	
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	11-122-2	80.50	DIST1:	-0.50	Head:	NONE	30.00	
	SWH30251-3	80.75		0.059		0.134				11-122-3	80.75	DIST2:	-3.30	Skirt:	NONE		
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-122-4	81.00	DIST3:	-2.20				
			0.157	0.130													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #								
	13011-PC6-004								13101-PC7-661								
	13011-PH2-003																
	1.8L (112CID,1829CC),SOHC,4CYL, 80.000MM (3.150"), ES1 / 1983-1983																
PRELUDE / 83-83	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-120-0	80.00						
	SWH30251-1	80.25		0.059		0.120				DISC-11-120-1	80.25						
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-120-2	80.50						
	SWH30251-3	80.75		0.059		0.134				DISC-11-120-3	80.75						
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-120-4	81.00						
			0.157	0.130													
	REFERENCE #		TOP		2ND		OIL		REFERENCE #								
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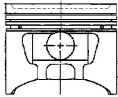
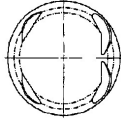
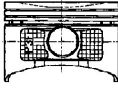
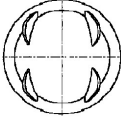
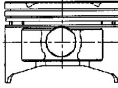
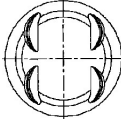
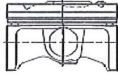
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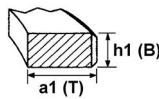
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (112CID,1829CC),SOHC,4CYL, 80.000MM (3.150"), ES2,ES3 / 1984-1985																	
ACCORD / 84-85	SWH30251-0	80.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-121-0	80.00						
	SWH30251-1	80.25		0.059		0.120				DISC-11-121-1	80.25						
	SWH30251-2	80.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-121-2	80.50						
	SWH30251-3	80.75		0.059		0.134				DISC-11-121-3	80.75						
	SWH30251-4	81.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-121-4	81.00						
				0.157		0.130											
REFERENCE # 13011-PC6-004 13011-PH2-003		TOP		2ND		OIL		REFERENCE # 13101-PD2-030 13102-PD6-010									
																	
2.0L (119CID,1955CC),SOHC,4CYL, 82.700MM (3.256"), A20A1,BS / 1986-1989																	
ACCORD / 86-89	SWH30366-0	82.70	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-520-0	82.70	TL:	65.20	PL:	61.00	CHK.	30.00
	SWH30366-1	82.95		0.059		0.122				11-520-1	82.95	CH:	29.80	PD:	20.00	DIA	
	SWH30366-2	83.20	2nd:	1.500	X	3.200	T1	CAST IRON	CHROME	11-520-2	83.20	DIST1:	-1.70	Head:	NONE		
	SWH30366-3	83.45		0.059		0.126				11-520-3	83.45	DIST2:	-2.90	Skirt:	NONE		
	SWH30366-4	83.70	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-520-4	83.70	DIST3:	-1.90				
				0.157		0.128											
REFERENCE # 13011-PH4-004		TOP		2ND		OIL		REFERENCE # 13102-PH4-010		 							
																	
2.0L (119CID,1955CC),SOHC,4CYL, 82.700MM (3.256"), A20A3,BT / 1986-1989																	
ACCORD / 86-89 PRELUDE / 86-87	SWH30366-0	82.70	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-519-0	82.70	TL:	65.30	PL:	62.00	CHK.	30.00
	SWH30366-1	82.95		0.059		0.122				11-519-1	82.95	CH:	29.80	PD:	20.00	DIA	
	SWH30366-2	83.20	2nd:	1.500	X	3.200	T1	CAST IRON	CHROME	11-519-2	83.20	DIST1:	-2.40	Head:	NONE		
	SWH30366-3	83.45		0.059		0.126				11-519-3	83.45	DIST2:		Skirt:	NONE		
	SWH30366-4	83.70	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-519-4	83.70	DIST3:					
				0.157		0.128											
REFERENCE # 13011-PH4-004		TOP		2ND		OIL		REFERENCE # 13102-PJ0-010 13102-PJ0-307 13102-PJ0-307, 8		 							
																	
2.0L (119CID,1958CC),DOHC,4CYL, 81.000MM (3.189"), B20A5 / 1988-1991																	
PRELUDE / 88-91	SWH30375-0	81.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-525-0	81.00	TL:	65.40	PL:	57.00	CHK.	9.00
	SWH30375-1	81.25		0.047		0.122				11-525-1	81.25	CH:	30.80	PD:	22.00	DIA	
	SWH30375-2	81.50	2nd:	1.500	X	3.200	TUC	DUCTILE IRON	PHOSPHATE	11-525-2	81.50	DIST1:	-2.10	Head:	NONE		
	SWH30375-3	81.75		0.059		0.126				11-525-3	81.75	DIST2:		Skirt:	NONE		
	SWH30375-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-525-4	82.00	DIST3:					
				0.110		0.110											
REFERENCE # 13011-PK1-751		TOP		2ND		OIL		REFERENCE # 13101-PK2-660		 							
																	



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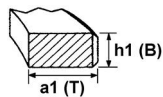
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (119CID,1958CC),SOHC,4CYL, 81.000MM (3.189"), B20A3 / 1988-1990																
PRELUDE / 88-90	SWH30375-0	81.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-524-0	81.00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



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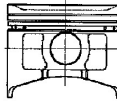
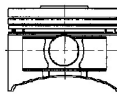
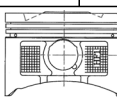
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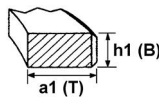
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), K20Z3 / 2006-2011																							
CIVIC Si / 06-11	SWH30454-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-882-0	86.00	TL:	55.80	PL:	52.50	CHK.							
	SWH30454-1	86.25		0.047		0.114				11-882-1	86.25	CH:	30.00	PD:	21.97	DIA							
	SWH30454-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-882-2	86.50	DIST1:	3.80	Head:	NONE	10.00							
	SWH30454-3	86.75		0.047		0.134				11-882-3	86.75	DIST2:		Skirt:	MS								
	SWH30454-4	87.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED	11-882-4	87.00	DIST3:											
			0.079	0.098																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #															
	13011-PNE-G02							13010-PRB-A01															
	13011-PRA-E02																						
	2.1L (125CID,2056CC),DOHC,4CYL, 83.000MM (3.268"), B21A1 / 1990-1991																						
PRELUDE / 90-91	SWH30448-0	83.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-726-0	83.00	TL:	65.40	PL:	56.00	CHK.							
	SWH30448-1	83.25		0.047		0.120				11-726-1	83.25	CH:	30.90	PD:	22.00	DIA							
	SWH30448-2	83.50	2nd:	1.200	X	3.100	T1	CAST IRON	CHROME	11-726-2	83.50	DIST1:	-0.80	Head:	NONE	16.00							
	SWH30448-3	83.75		0.047		0.122				11-726-3	83.75	DIST2:		Skirt:	NONE								
	SWH30448-4	84.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-726-4	84.00	DIST3:											
			0.110	0.110																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #															
	13011-PK3-A04							13101-PK3-A01															
	2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), F22A1 / 1992-1996																						
	PRELUDE / 92-96	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
SWH30383-1		85.25	0.047		0.120																		
SWH30383-2		85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE														
SWH30383-3		85.75		0.047		0.134																	
SWH30383-4		86.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME														
			0.110	0.112																			
REFERENCE #		TOP	2ND		OIL																		
13011-P0A-004																							
13011-P0A-A04																							
5-86202-103-0																							
2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), F22A1,F22A4,F22A6 / 1990-1993																							
ACCORD / 90-93	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-678-0	85.00	TL:	65.30	PL:	57.00	CHK.							
	SWH30383-1	85.25		0.047		0.120				11-678-1	85.25	CH:	30.80	PD:	22.00	DIA							
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-678-2	85.50	DIST1:	-3.70	Head:	NONE	20.00							
	SWH30383-3	85.75		0.047		0.134				11-678-3	85.75	DIST2:		Skirt:	NONE								
	SWH30383-4	86.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-678-4	86.00	DIST3:											
			0.110	0.112																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #															
	13011-P0A-004							13101-PT3-A01															
	13011-P0A-A04							13101-PT6-A00															
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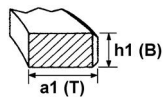
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), F22B1,F22B2,F22B6 / 1994-1997																
ACCORD / 94-97 ODYSSEY / 95-97	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-751-0	85.00	TL:	65.00	PL:	57.00	CHK.
	SWH30383-1	85.25		0.047	0.120				11-751-1	85.25	CH:	30.50	PD:	22.00	DIA	
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-751-2	85.50	DIST1:	-3.80	Head:	NONE	14.00
	SWH30383-3	85.75		0.047	0.134				11-751-3	85.75	DIST2:		Skirt:	NONE		
	SWH30383-4	86.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-751-4	86.00	DIST3:				
REFERENCE # 13011-P0A-004 13011-P0A-A04 5-86202-103-0		TOP	2ND		OIL					REFERENCE # 13010-P0A-010 5-86202-102-0	 					
2.2L (132CID,2157CC),DOHC,4CYL, 87.000MM (3.425"), H22A1 / 1993-1996																
PRELUDE / 93-96	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-739-0	87.00	TL:	61.00	PL:	57.00	CHK.
	SWH30433-1	87.25		0.047	0.122				11-739-1	87.25	CH:	31.00	PD:	22.00	DIA	
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-739-2	87.50	DIST1:	0.90	Head:	NONE	7.00
	SWH30433-3	87.75		0.047	0.126				11-739-3	87.75	DIST2:	-5.50	Skirt:	NONE		
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-739-4	88.00	DIST3:	-3.00			
REFERENCE # 13011-P13-004 13011-P5M-003		TOP	2ND		OIL					REFERENCE # 13010-P13-A00	 					
2.2L (132CID,2157CC),DOHC,4CYL, 87.000MM (3.425"), H22A4 / 1997-2001																
PRELUDE / 97-01	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-741-0	87.00	TL:	61.80	PL:	57.00	CHK.
	SWH30433-1	87.25		0.047	0.122				11-741-1	87.25	CH:	31.00	PD:	21.97	DIA	
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-741-2	87.50	DIST1:	0.80	Head:	NONE	7.00
	SWH30433-3	87.75		0.047	0.126				11-741-3	87.75	DIST2:		Skirt:	NONE		
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-741-4	88.00	DIST3:				
REFERENCE # 13011-P13-004 13011-P5M-003		TOP	2ND		OIL					REFERENCE # 13010-P5M-A00	  					
2.3L (137CID,2253CC),SOHC,4CYL, 86.000MM (3.386"), F23A7 / 1998-1998																
ODYSSEY / 98-98	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWH30443-1	86.25		0.047	0.114											
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE							
	SWH30443-3	86.75		0.047	0.134											
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME							
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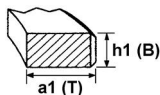
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.3L (138CID,2254CC),SOHC,4CYL, 86.000MM (3.386"), F23A1,F23A4 / 1998-2002																
ACCORD / 98-02	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-781-0	86.00	TL:	51.50	PL:	54.00	CHK.
	SWH30443-1	86.25		0.047		0.114				11-781-1	86.25	CH:	30.02	PD:	21.97	DIA
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-781-2	86.50	DIST1:	-2.40	Head:	NONE	16.00
	SWH30443-3	86.75		0.047		0.134				11-781-3	86.75	DIST2:	-4.80	Skirt:	NONE	
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-781-4	87.00	DIST3:	-3.20			
		0.110	0.112													
REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0		TOP	2ND		OIL		REFERENCE # 13010-PAA-A00									
2.3L (138CID,2254CC),SOHC,4CYL, 86.000MM (3.386"), F23A5 / 1998-2002																
ACCORD / 98-02	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	DISC-11-784-0	86.00					
	SWH30443-1	86.25		0.047		0.114				DISC-11-784-1	86.25					
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	DISC-11-784-2	86.50					
	SWH30443-3	86.75		0.047		0.134				DISC-11-784-3	86.75					
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-784-4	87.00					
		0.110	0.112													
REFERENCE # 13011-P8A-A01 13011-PEA-004 5-86205-887-0		TOP	2ND		OIL		REFERENCE # 13010-PAB-A00									
2.3L (138CID,2259CC),DOHC,4CYL, 87.000MM (3.425"), H23A1 / 1992-1996																
PRELUDE / 92-96	SWH30433-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-740-0	87.00	TL:	60.50	PL:	60.00	CHK.
	SWH30433-1	87.25		0.047		0.122				11-740-1	87.25	CH:	30.60	PD:	22.00	DIA
	SWH30433-2	87.50	2nd:	1.200	X	3.200	TUC	CAST IRON	CHROME	11-740-2	87.50	DIST1:	-2.30	Head:	NONE	11.00
	SWH30433-3	87.75		0.047		0.126				11-740-3	87.75	DIST2:	-3.20	Skirt:	NONE	
	SWH30433-4	88.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	NITRIDED	11-740-4	88.00	DIST3:	-3.00			
		0.110	0.100													
REFERENCE # 13011-P13-004 13011-P5M-003		TOP	2ND		OIL		REFERENCE # 13010-P14-A00									
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A2, 3, 4, 8 / 2003-2010																
ACCORD / 03-07 ELEMENT / 03-10	SWH30466-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-834-0	87.00	TL:	56.60	PL:	52.00	CHK.
	SWH30466-1	87.25		0.047		0.122				11-834-1	87.25	CH:	29.50	PD:	21.97	DIA
	SWH30466-2	87.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-834-2	87.50	DIST1:	3.10	Head:	NONE	11.00
	SWH30466-3	87.75		0.047		0.134				11-834-3	87.75	DIST2:		Skirt:	MS	
	SWH30466-4	88.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-834-4	88.00	DIST3:				
		0.079	0.096													
REFERENCE # 13010-RAA-A00 13011-PZD-004 13011-RAA-A00 13011-RAA-A01		TOP	2ND		OIL		REFERENCE # 13010-RAA-A00 13010-RAA-A01									



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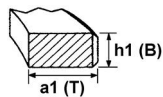
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (144CID,2354CC),DOHC,4CYL, 87.000MM (3.425"), K24A3 / 2002-2006																
CR-V / 02-06	SWH30466-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-833-0	87.00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



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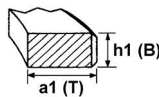
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1994-1996																
PASSPORT / 94-96	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-559-0	92.60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



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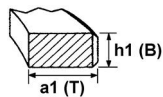
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.2L (193CID,3165CC),SOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1994-1997																
PASSPORT / 94-97	SWI10185-0	93.40	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-686-0	93.40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


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

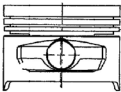
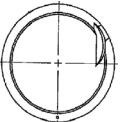
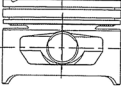
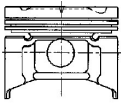
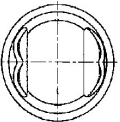
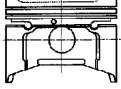
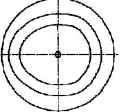
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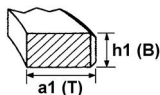
1.5L (90CID,1468CC),DOHC,4CYL, 75.500MM (2.972"), ALPHA G4EK / 1996-1997																
ACCENT / 96-97	SWG30019-0	75.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-730-0	75.50	TL:	53.50	PL:	47.50	CHK.
	SWG30019-1	75.75		0.047		0.112				11-730-1	75.75	CH:	30.50	PD:	18.00	DIA
	SWG30019-2	76.00	2nd:	1.500	X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



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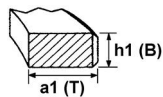
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), ALPHA G4AE / 1995-1999																
ACCENT / 95-99	SWG30017-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-691-0	75.50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



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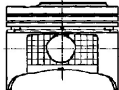
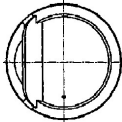
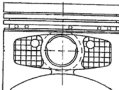
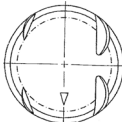
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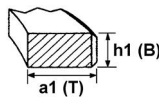
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1591CC),DOHC,4CYL, 77.000MM (3.031"), GAMMA G4FJ,GAMMA II 1.6L / 2011-2017																	
ACCENT / 11-15	SWG30046-0	77.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
SONATA / 15-16	SWG30046-1	77.25		0.047		0.112											
TUCSON / 15-17	SWG30046-2	77.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE								
VELOSTER / 12-16	SWG30046-3	77.75		0.047		0.120											
	SWG30046-4	78.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME								
	REFERENCE #	TOP	2ND	OIL													
	23040-2B000																
	23040-2B600																
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), SIRIUS G4CR / 1992-1995																	
ELANTRA / 92-95	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-729-0	82.30	TL:	66.00	PL:	66.00	CHK.	
	SWM31049-1	82.55		0.047		0.122				11-729-1	82.55	CH:	32.50	PD:	21.00	DIA	
	SWM31049-2	82.80	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-729-2	82.80	DIST1:	1.50	Head:	NONE	28.00	
	SWM31049-3	83.05		0.059		0.150				11-729-3	83.05	DIST2:		Skirt:	NONE		
	SWM31049-4	83.30	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-729-4	83.30	DIST3:					
				0.118		0.112											
	REFERENCE #	TOP	2ND	OIL							REFERENCE #						
	23040-33030										23410-33010						
	MD133495																
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA G4ED / 2001-2005																	
ACCENT / 01-05	SWG30030-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-819-0	76.50						
	SWG30030-1	76.75		0.047		0.112				DISC-11-819-1	76.75						
	SWG30030-2	77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-819-2	77.00						
	SWG30030-3	77.25		0.047		0.126				DISC-11-819-3	77.25						
	SWG30030-4	77.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-819-4	77.50						
				0.098		0.112											
	REFERENCE #	TOP	2ND	OIL							REFERENCE #						
	23040-26101										23410-26121						
											23410-26212						
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA II G4ED / 2006-2010																	
ACCENT / 06-10	SWG30034-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWG30034-1	76.75		0.047		0.112											
	SWG30034-2	77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE								
	SWG30034-3	77.25		0.047		0.126											
	SWG30034-4	77.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED								
				0.079		0.098											
	REFERENCE #	TOP	2ND	OIL													
	23040-26120																
	23040-26160																



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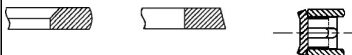
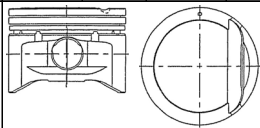
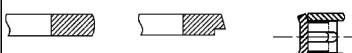
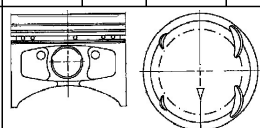
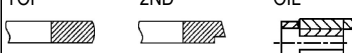
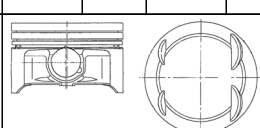
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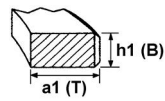
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), G4GB / 1997-1997																	
TIBURON / 97-97	SWG30028-0	82.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-693-0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

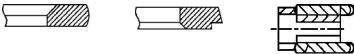
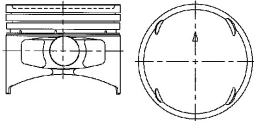
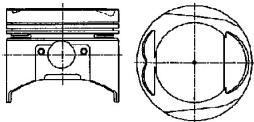


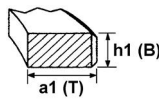
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA G4GF / 2001-2008																
ELANTRA / 01-05 TIBURON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



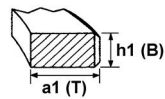
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1999CC),DOHC,4CYL, 81.000MM (3.189"), Nu 2.0L / 2013-2017																
ELANTRA / 15-17	SWG30059-0	81.00	Top:	1.000	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ELANTRA TOURING / 15-17	SWG30059-1	81.25		0.039		0.106										
TUCSON / 13-15	SWG30059-2	81.50	2nd:	1.200	X	3.150	TUC-RB	CAST IRON	PHOSPHATE							
	SWG30059-3	81.75		0.047		0.124										
	SWG30059-4	82.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
REFERENCE # 23040-2E000		TOP		2ND		OIL										
2.4L (143CID,2350CC),DOHC,4CYL, 86.500MM (3.406"), SIRIUS II G4JS / 1999-2005																
SANTA FE / 01-04	SWG30047-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-772-0	86.50	TL:	66.70	PL:	62.00	CHK.
SONATA / 99-05	SWG30047-1	86.75		0.047		0.122				11-772-1	86.75	CH:	34.60	PD:	22.00	DIA
	SWG30047-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-772-2	87.00	DIST1:	-3.50	Head:	NONE	5.00
	SWG30047-3	87.25		0.059		0.150				11-772-3	87.25	DIST2:		Skirt:	NONE	
	SWG30047-4	87.50	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-772-4	87.50	DIST3:				
REFERENCE # 23040-38200 23040-38212		TOP		2ND		OIL		REFERENCE # 23410-38200 23411-38200								
2.4L (143CID,2350CC),DOHC,4CYL, 86.500MM (3.406"), SIRIUS II G4JS / 2006-2010																
SONATA / 06-10	SWG30047-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30047-1	86.75		0.047		0.122										
	SWG30047-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE							
	SWG30047-3	87.25		0.059		0.150										
	SWG30047-4	87.50	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME							
REFERENCE # 23040-38200 23040-38212		TOP		2ND		OIL										
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G4JS / 1989-1991																
SONATA / 89-91	SWG30024-0	86.50	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-538-0	86.50	TL:	72.40	PL:	72.00	CHK.
	SWG30024-1	86.75		0.059		0.136				11-538-1	86.75	CH:	34.90	PD:	21.00	DIA
	SWG30024-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-538-2	87.00	DIST1:	0.50	Head:	NONE	15.00
	SWG30024-3	87.25		0.059		0.150				11-538-3	87.25	DIST2:	0.30	Skirt:	NONE	
	SWG30024-4	87.50	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-538-4	87.50	DIST3:				
REFERENCE # 23040-32610		TOP		2ND		OIL		REFERENCE # 23410-32610 MD105377								

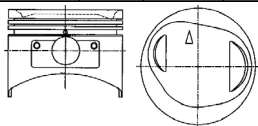


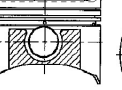
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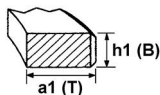
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), THETA II G4KC / 2010-2015																	
ELANTRA TOURING /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



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
2.8L (170CID,2792CC),SOHC,6CYL, 91.100MM (3.587"), G6AT / 1990-1998																
SONATA / 90-98	SWM31080-0	91.10	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-549-0	91.10	TL:	68.20	PL:	64.00	CHK.
	SWM31080-1	91.35		0.059		0.128				11-549-1	91.35	CH:	32.20	PD:	22.00	DIA
	SWM31080-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-549-2	91.60	DIST1:	-3.00	Head:	NONE	8.00
	SWM31080-3	91.85		0.059		0.150				11-549-3	91.85	DIST2:		Skirt:	NONE	
	SWM31080-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-549-4	92.10	DIST3:				
				0.157		0.128										
	REFERENCE #		TOP	2ND			OIL			REFERENCE #						
	23040-35010									23410-35114						
	23040-35500									23410-35144						
	MD104936									23410-35214						
	MD104939									23410-35244						
										MD119671						
										MD152563						
3.3L (204CID,3342CC),DOHC,6CYL, 92.000MM (3.622"), LAMBDA G6DB,LAMBDA II G6DG / 2006-2017																
AZERA / 07-16	SWG30055-0	92.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SANTA FE / 07-17	SWG30055-1	92.25		0.047		0.122										
SONATA / 06-10	SWG30055-2	92.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWG30055-3	92.75		0.047		0.134										
	SWG30055-4	93.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED							
				0.079		0.100										
	REFERENCE #		TOP	2ND			OIL									
	23040-3C150															
3.5L (212CID,3467CC),DOHC,6CYL, 93.000MM (3.661"), SIGMA G6AU / 2002-2006																
SANTA FE / 03-06	SWG30056-0	93.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
XG350 / 02-05	SWG30056-1	93.25		0.059		0.130										
	SWG30056-2	93.50	2nd:	1.500	X	3.900	TUC	CAST IRON	CHROME							
	SWG30056-3	93.75		0.059		0.154										
	SWG30056-4	94.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
				0.118		0.112										
	REFERENCE #		TOP	2ND			OIL									
	23040-39800															

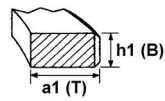
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1991-1999																
G20 / 91-99	SWN30102-0	86.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-602-0	86.00	TL:	63.00	PL:	60.00	CHK.
	SWN30102-1	86.25		0.059		0.120				11-602-1	86.25	CH:	32.00	PD:	22.00	DIA
	SWN30102-2	86.50	2nd:	1.500	X	3.650	T1	CAST IRON	CHROME	11-602-2	86.50	DIST1:	-0.90	Head:	NONE	10.00
	SWN30102-3	86.75		0.059		0.144				11-602-3	86.75	DIST2:		Skirt:	NONE	
	SWN30102-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-602-4	87.00	DIST3:				
				0.118		0.118										
REFERENCE #		TOP		2ND		OIL		REFERENCE #								
12033-53J01								A2010-63J00								
12033-53J10								A3020-63J00								



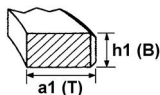
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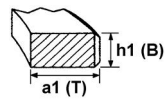
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 2000-2002																
G20 / 00-02	SWN30123-0	86.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this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



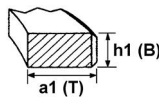
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.0L (182CID,2987CC),DOHC,6CYL, 93.000MM (3.661"), VQ30DE / 1996-2001																	
I30 / 96-01	SWN30115-0	93.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	11-711-0	93.00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


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



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
4.1L (252CID,4130CC),DOHC,8CYL, 93.000MM (3.661"), VH41DE / 1997-2001																
Q45 / 97-01	SWN30117-0	93.00	Top:	1.500	X	3.350	BF	STEEL	TIN	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30117-1	93.25		0.059		0.132										
	SWN30117-2	93.50	2nd:	1.500	X	4.100	T1	CAST IRON	PHOSPHATE							
	SWN30117-3	93.75		0.059		0.161										
	SWN30117-4	94.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME							
				0.110		0.118										
REFERENCE # 12033-60U02 12033-60U10		TOP	2ND	OIL												
4.5L (274CID,4494CC),DOHC,8CYL, 93.000MM (3.661"), VH45DE / 1990-1996																
Q45 / 90-96	SWN30117-0	93.00	Top:	1.500	X	3.350	BF	STEEL	TIN	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30117-1	93.25		0.059		0.132										
	SWN30117-2	93.50	2nd:	1.500	X	4.100	T1	CAST IRON	PHOSPHATE							
	SWN30117-3	93.75		0.059		0.161										
	SWN30117-4	94.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME							
				0.110		0.118										
REFERENCE # 12033-60U02 12033-60U10		TOP	2ND	OIL												
5.0L (307CID,5026CC),DOHC,8CYL, 95.500MM (3.760"), VK50VE / 2009-2015																
FX50 / 09-13 QX70 / 14-15	SWN30184-0	95.50	Top:	1.200	X	3.150	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30184-1	95.75		0.047		0.124										
	SWN30184-2	96.00	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE							
	SWN30184-3	96.25		0.047		0.146										
	SWN30184-4	96.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED							
				0.079		0.098										
REFERENCE # 12033-1CA0A		TOP	2ND	OIL												
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56DE / 2004-2010																
QX56 / 04-10	SWN30149-0	98.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-879-0	98.00	TL:	52.00	PL:	59.60	CHK.
	SWN30149-1	98.25		0.059		0.136				11-879-1	98.25	CH:	31.60	PD:	22.00	DIA
	SWN30149-2	98.50	2nd:	1.500	X	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	Head:	AH	6.00
	SWN30149-3	98.75		0.059		0.169				11-879-3	98.75	DIST2:		Skirt:	MS	
	SWN30149-4	99.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:				
				0.098		0.102										
REFERENCE # 12033-7S001 12033-7S01B 12033-ZE00A		TOP	2ND	OIL			REFERENCE # A2010-7S000									


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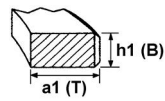
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56VD / 2011-2015										
M56 / 11-13	SWN30177-0	98.00	Top:	1.200	X	3.150	BF	STEEL	NITRIDED	Pistons for this application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

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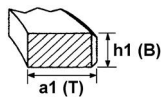
1.5L (90CID,1471CC),SOHC,4CYL, 77.000MM (3.031"), 4XC1 / 1985-1989															
I-MARK / 85-89	SWI10151-0	77.00	Top:	1.500	X	3.300	T1-IB	DUCTILE IRON	CHROME	DISC-11-564-0	77.00				
	SWI10151-1	77.25		0.059	0.130	DISC-11-564-1				77.25					
	SWI10151-2	77.50	Oil:	2.800	X	3.100	NIFF-S	STEEL	NITRIDED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

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

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



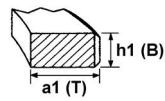
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1588CC),DOHC,4CYL, 80.000MM (3.150"), 4XE1W / 1991-1992																	
IMPULSE / 91-92	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWI10149-1	80.25		0.047		0.122											
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE								
	SWI10149-3	80.75		0.047		0.130											
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME								
				0.118		0.098											
	REFERENCE #		TOP			2ND			OIL								
	8-94331-660-0																
	8-94342-124-0																
	8-94370-434-0																
	8-97042-171-0																
	8-97402-171-0																
	94331660																
	94342124																
	94370434																
1.6L (97CID,1588CC),SOHC,4CYL, 80.000MM (3.150"), 4XE1V / 1991-1993																	
STYLUS / 91-93	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	DISC-11-556-0	80.00						
	SWI10149-1	80.25		0.047		0.122				DISC-11-556-1	80.25						
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE	DISC-11-556-2	80.50						
	SWI10149-3	80.75		0.047		0.130				DISC-11-556-3	80.75						
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME	DISC-11-556-4	81.00						
				0.118		0.098											
	REFERENCE #		TOP			2ND			OIL		REFERENCE #						
	8-94331-660-0										8-97066-885-0						
	8-94342-124-0																
	8-94370-434-0																
	8-97042-171-0																
	8-97402-171-0																
	94331660																
	94342124																
	94370434																
1.8L (110CID,1809CC),DOHC,4CYL, 80.000MM (3.150"), 4XF1 / 1992-1992																	
IMPULSE / 92-92 STYLUS / 92-92	SWI10149-0	80.00	Top:	1.200	X	3.100	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWI10149-1	80.25		0.047		0.122											
	SWI10149-2	80.50	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE								
	SWI10149-3	80.75		0.047		0.130											
	SWI10149-4	81.00	Oil:	3.000	X	2.500	NIFF-S	STEEL	CHROME								
				0.118		0.098											
	REFERENCE #		TOP			2ND			OIL								
	8-94331-660-0																
	8-94342-124-0																
	8-94370-434-0																
	8-97042-171-0																
	8-97402-171-0																
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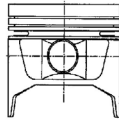
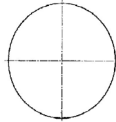
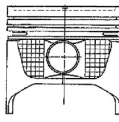
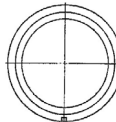
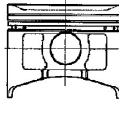
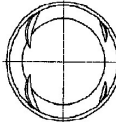
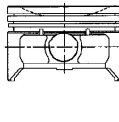
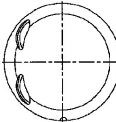


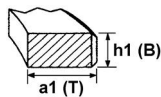
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (111CID,1817CC),4CYL, 84.000MM (3.307"), 4FB1 / 1981-1984																
I-MARK / 81-84	SDI10086-0	84.00	Top:	2.500	X	3.250	BF	STEEL	CHROME	DISC-11-015-0	84.00					
	SDI10086-1	84.25		0.098		0.128				DISC-11-015-1	84.25					
	SDI10086-2	84.50	2nd:	2.000	X	3.500	T1	CAST IRON	CHROME	DISC-11-015-2	84.50					
	SDI10086-3	84.75		0.079		0.138				DISC-11-015-3	84.75					
	SDI10086-4	85.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	DISC-11-015-4	85.00					
		0.157	0.171													
REFERENCE # 8-94224-221-0 94224221		TOP	2ND	OIL			REFERENCE # 8-94228-886-2									
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1981-1981																
I-MARK / 81-81 PICKUP / 81-81	SWI10056-0	84.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	11-012-0	84.00	TL:	80.00	PL:	66.00	CHK.
	SWI10056-1	84.25		0.079		0.150				11-012-1	84.25	CH:	37.00	PD:	22.00	DIA
	SWI10056-2	84.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	11-012-2	84.50	DIST1:	-0.80	Head:	NONE	15.00
	SWI10056-3	84.75		0.079		0.157				11-012-3	84.75	DIST2:		Skirt:	NONE	
	SWI10056-4	85.00	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	11-012-4	85.00	DIST3:				
		0.157	0.150													
REFERENCE # 8-94216-640-0 94216641		TOP	2ND	OIL			REFERENCE # 8-94215-088-0									
1.8L (111CID,1817CC),SOHC,4CYL, 84.000MM (3.307"), G180Z / 1982-1984																
I-MARK / 82-84 PICKUP / 82-82	SWI10098-0	84.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-013-0	84.00					
	SWI10098-1	84.25		0.059		0.138				DISC-11-013-1	84.25					
	SWI10098-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-013-2	84.50					
	SWI10098-3	84.75		0.059		0.150				DISC-11-013-3	84.75					
	SWI10098-4	85.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-013-4	85.00					
		0.157	0.128													
REFERENCE # 8-94244-404-0		TOP	2ND	OIL			REFERENCE # 8-94238-475-0									
1.9L (119CID,1949CC),SOHC,4CYL, 87.000MM (3.425"), G200Z / 1983-1987																
IMPULSE / 83-87	SWI10096-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	DISC-11-695-0	87.00					
	SWI10096-1	87.25		0.059		0.138				DISC-11-695-1	87.25					
	SWI10096-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-695-2	87.50					
	SWI10096-3	87.75		0.059		0.150				DISC-11-695-3	87.75					
	SWI10096-4	88.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-695-4	88.00					
		0.157	0.130													
REFERENCE # 8-94438-086-0 94438086		TOP	2ND	OIL			REFERENCE # 8-94258-494-2									

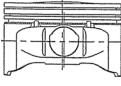
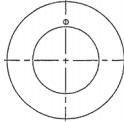
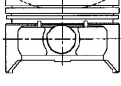
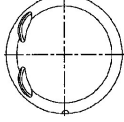
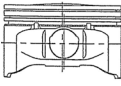
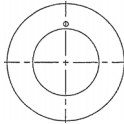


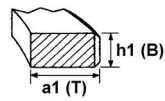
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.9L (119CID,1949CC),SOHC,4CYL, 87.000MM (3.425"), G200Z / 1983-1987																
PICKUP / 83-87 TROOPER II / 84-85	SWI10096-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-016-0	87.00	TL:	80.00	PL:	77.00	CHK.
	SWI10096-1	87.25		0.059	0.138	11-016-1				87.25	CH:	37.00	PD:	22.00	DIA	
	SWI10096-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-016-2	87.50	DIST1:	Head:	NONE	10.00	
	SWI10096-3	87.75		0.059	0.150	11-016-3				87.75	DIST2:					
	SWI10096-4	88.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-016-4	88.00	DIST3:				
REFERENCE # 8-94438-086-0 94438086		TOP	2ND	OIL			REFERENCE # 8-94237-469-2 94237469									
2.0L (122CID,1994CC),SOHC,4CYL, 88.000MM (3.465"), 4ZC1 / 1985-1989																
IMPULSE / 85-89	SWI10133-0	88.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-558-0	88.00	TL:	80.10	PL:	77.00	CHK.
	SWI10133-1	88.25		0.059	0.136	11-558-1				88.25	CH:	37.00	PD:	22.00	DIA	
	SWI10133-2	88.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-558-2	88.50	DIST1:	-2.00	Head:	NONE	10.00
	SWI10133-3	88.75		0.059	0.150	11-558-3				88.75	DIST2:	Skirt:	NONE			
	SWI10133-4	89.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-558-4	89.00	DIST3:				
REFERENCE # 8-94235-878-0		TOP	2ND	OIL			REFERENCE # 8-94143-151-3									
2.2L (132CID,2156CC),SOHC,4CYL, 85.000MM (3.346"), RJ1,F22B6 / 1996-1997																
OASIS / 96-97	SWH30383-0	85.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	11-751-0	85.00	TL:	65.00	PL:	57.00	CHK.
	SWH30383-1	85.25		0.047	0.120	11-751-1				85.25	CH:	30.50	PD:	22.00	DIA	
	SWH30383-2	85.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-751-2	85.50	DIST1:	-3.80	Head:	NONE	14.00
	SWH30383-3	85.75		0.047	0.134	11-751-3				85.75	DIST2:	Skirt:	NONE			
	SWH30383-4	86.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME	11-751-4	86.00	DIST3:				
REFERENCE # 13011-P0A-004 13011-P0A-A04 5-86202-103-0		TOP	2ND	OIL			REFERENCE # 13010-P0A-010 5-86202-102-0									
2.2L (133CID,2180CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 1998-1999																
AMIGO / 98-99	SWI10205-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-747-0	86.00	TL:	55.50	PL:	61.50	CHK.
	SWI10205-1	86.25		0.059	0.136	11-747-1				86.25	CH:	30.40	PD:	21.00	DIA	
	SWI10205-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-747-2	86.50	DIST1:	-7.50	Head:	NONE	10.00
	SWI10205-3	86.75		0.059	0.138	11-747-3				86.75	DIST2:	Skirt:	NONE			
	SWI10205-4	87.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-747-4	87.00	DIST3:				
REFERENCE # 8-92062-027-0		TOP	2ND	OIL			REFERENCE # 8-92062-910-0									



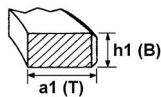
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (133CID,2180CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 2001-2003																
RODEO SPORT / 01-03	SWI10206-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-840-0	86.00	TL:	53.70	PL:	61.00	CHK.
	SWI10206-1	86.25		0.047		0.106				11-840-1	86.25	CH:	27.60	PD:	21.00	DIA
	SWI10206-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-840-2	86.50	DIST1:	1.20	Head:	NONE	15.00
	SWI10206-3	86.75		0.059		0.138				11-840-3	86.75	DIST2:		Skirt:	NONE	
	SWI10206-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-840-4	87.00	DIST3:				
		0.098	0.112													
REFERENCE # 8-92065-115-0		TOP	2ND	OIL				REFERENCE # 8-92064-692-0								
2.2L (134CID,2197CC),SOHC,4CYL, 89.000MM (3.504"), GM122 / 1996-2000																
HOMBRE / 96-00	SWI10195-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10195-1	89.25		0.059		0.159										
	SWI10195-2	89.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWI10195-3	89.75		0.059		0.142										
	SWI10195-4	90.00	Oil:	3.000	X	2.950	NIFF-S	STEEL	CHROME							
		0.118	0.116													
REFERENCE # 12363179 8-12363-179-0		TOP	2ND	OIL												
																
2.2L (134CID,2198CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 1998-2000																
RODEO / 98-00	SWI10205-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-747-0	86.00	TL:	55.50	PL:	61.50	CHK.
	SWI10205-1	86.25		0.059		0.136				11-747-1	86.25	CH:	30.40	PD:	21.00	DIA
	SWI10205-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-747-2	86.50	DIST1:	-7.50	Head:	NONE	10.00
	SWI10205-3	86.75		0.059		0.138				11-747-3	86.75	DIST2:		Skirt:	NONE	
	SWI10205-4	87.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-747-4	87.00	DIST3:				
		0.118	0.112													
REFERENCE # 8-92062-027-0		TOP	2ND	OIL				REFERENCE # 8-92062-910-0								
																
2.2L (134CID,2198CC),DOHC,4CYL, 86.000MM (3.386"), X22SE / 2001-2003																
RODEO / 01-03	SWI10206-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-840-0	86.00	TL:	53.70	PL:	61.00	CHK.
	SWI10206-1	86.25		0.047		0.106				11-840-1	86.25	CH:	27.60	PD:	21.00	DIA
	SWI10206-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE	11-840-2	86.50	DIST1:	1.20	Head:	NONE	15.00
	SWI10206-3	86.75		0.059		0.138				11-840-3	86.75	DIST2:		Skirt:	NONE	
	SWI10206-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-840-4	87.00	DIST3:				
		0.098	0.112													
REFERENCE # 8-92065-115-0		TOP	2ND	OIL				REFERENCE # 8-92064-692-0								
																



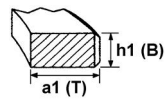
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223 / 1981-1982																							
PICKUP / 81-82	SJI10089-0	88.00	Top:	2.500	X	4.000	BF	DUCTILE IRON	CHROME	DISC-11-017-0	88.00												
	SJI10089-1	88.25		0.098		0.157				DISC-11-017-1	88.25												
	SJI10089-2	88.50	2nd:	2.000	X	4.000	TUC	CAST IRON	CHROME	DISC-11-017-2	88.50												
	SJI10089-3	88.75		0.079		0.157				DISC-11-017-3	88.75												
	SJI10089-4	89.00	Oil:	4.500	X	4.700	E-BC3	CAST IRON	CHROME	DISC-11-017-4	89.00												
			0.177	0.185																			
REFERENCE # 8-94100-355-0 94250730		TOP	2ND		OIL			REFERENCE # 5-12111-212-0															
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223 / 1983-1987																							
PICKUP / 83-87 TROOPER II / 86-87	SDI10101-0	88.00	Top:	2.000	X	3.250	BF	STEEL	CHROME	11-696-0	88.00	TL:	82.40	PL:	68.00	CHK. DIA							
	SDI10101-1	88.25		0.079		0.128				11-696-1	88.25	CH:	47.60	PD:	27.00								
	SDI10101-2	88.50	2nd:	2.000	X	3.550	TUC	CAST IRON	CHROME	11-696-2	88.50	DIST1:	-2.60	Head:	NONE								
	SDI10101-3	88.75		0.079		0.140				11-696-3	88.75	DIST2:		Skirt:	NONE								
	SDI10101-4	89.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-696-4	89.00	DIST3:											
			0.157	0.171																			
REFERENCE # 8-94250-730-0		TOP	2ND		OIL			REFERENCE # 8-94250-729-0															
2.2L (137CID,2238CC),4CYL, 88.000MM (3.465"), C223T / 1986-1987 TURBO																							
PICKUP / 86-87 TROOPER II / 87-87	SJI10111-0	88.00	Top:	2.500	X	4.000	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SJI10111-1	88.25		0.098		0.157																	
	SJI10111-2	88.50	2nd:	2.000	X	3.550	TUC	CAST IRON	CHROME														
	SJI10111-3	88.75		0.079		0.140																	
	SJI10111-4	89.00	Oil:	4.000	X	4.000	E-BC3	CAST IRON	CHROME														
			0.157	0.157																			
REFERENCE # 8-94158-084-0		TOP	2ND		OIL																		
2.3L (137CID,2253CC),SOHC,4CYL, 86.000MM (3.386"), F23A7 / 1998-1999																							
OASIS / 98-99	SWH30443-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SWH30443-1	86.25		0.047		0.114																	
	SWH30443-2	86.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE														
	SWH30443-3	86.75		0.047		0.134																	
	SWH30443-4	87.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	CHROME														
			0.110	0.112																			
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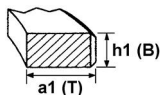
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.3L (138CID,2254CC),SOHC,4CYL, 89.300MM (3.516"), 4ZD1 / 1986-1995																
AMIGO / 89-93	SWI10123-0	89.30	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-554-0	89.30	TL:	81.00	PL:	77.00	CHK.
IMPULSE / 88-89	SWI10123-1	89.55		0.059	0.130	11-554-1				89.55	CH:	39.00	PD:	23.00	DIA	
PICKUP / 89-95	SWI10123-2	89.80	2nd:	1.500	X	3.800	T1	DUCTILE IRON	CHROME	11-554-2	89.80	DIST1:	-5.20	Head:	NONE	30.00
TROOPER II / 86-87	SWI10123-3	90.05		0.059	0.150	11-554-3				90.05	DIST2:	Skirt:	NONE			
	SWI10123-4	90.30	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-554-4	90.30	DIST3:				
				0.157		0.120										
REFERENCE # 8-94153-966-2		TOP	2ND	OIL						REFERENCE # 8-94438-625-2 8-94439-301-2						
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1988-1992																
AMIGO / 89-92	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-555-0	92.60	TL:	79.00	PL:	72.00	CHK.
PICKUP / 88-92	SWI10144-1	92.85		0.059	0.130	11-555-1				92.85	CH:	36.50	PD:	23.00	DIA	
RODEO / 91-92	SWI10144-2	93.10	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-555-2	93.10	DIST1:	-1.40	Head:	NONE	25.00
TROOPER / 89-91	SWI10144-3	93.35		0.059	0.157	11-555-3				93.35	DIST2:	Skirt:	NONE			
TROOPER II / 88-88	SWI10144-4	93.60	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-555-4	93.60	DIST3:				
				0.157		0.120										
REFERENCE # 8-94405-614-0 8-94405-614-2 8-97037-801-1		TOP	2ND	OIL						REFERENCE # 8-94163-189-3						
2.6L (156CID,2559CC),SOHC,4CYL, 92.600MM (3.646"), 4ZE1 / 1993-1997																
AMIGO / 93-94	SWI10144-0	92.60	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-559-0	92.60	TL:	79.00	PL:	72.00	CHK.
PICKUP / 93-95	SWI10144-1	92.85		0.059	0.130	11-559-1				92.85	CH:	36.50	PD:	23.00	DIA	
RODEO / 93-97	SWI10144-2	93.10	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-559-2	93.10	DIST1:	-4.50	Head:	NONE	25.00
	SWI10144-3	93.35		0.059	0.157	11-559-3				93.35	DIST2:	Skirt:	NONE			
	SWI10144-4	93.60	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-559-4	93.60	DIST3:				
				0.157		0.120										
REFERENCE # 8-94405-614-0 8-94405-614-2 8-97037-801-1		TOP	2ND	OIL						REFERENCE # 8-97037-801-1						
2.8L (173CID,2827CC),OHV,6CYL, 89.000MM (3.504"), LL2 / 1989-1991																
TROOPER / 89-91	SWI10154-0	89.00	Top:	1.500	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWI10154-1	89.25		0.059	0.159											
	SWI10154-2	89.50	2nd:	2.000	X	4.050	T1-RC	CAST IRON	PHOSPHATE							
	SWI10154-3	89.75		0.079	0.159											
	SWI10154-4	90.00	Oil:	4.760	X	3.900	NIFF-S	STEEL	CHROME							
				0.187		0.154										
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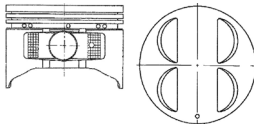
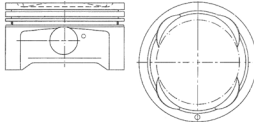


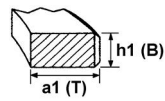
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.9L (178CID,2921CC),DOHC,4CYL, 95.500MM (3.760"), Vortec 2900 LLV / 2007-2008																
i-290 / 07-08	SWG10037-0	95.50	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons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



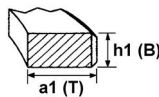
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.2L (193CID,3165CC),DOHC,6CYL, 93.400MM (3.677"), 6VD1 / 1992-2003																
AMIGO / 98-00	SWI10185-0	93.40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

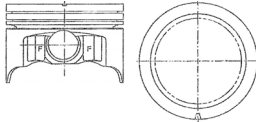
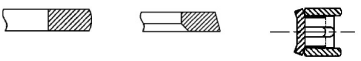
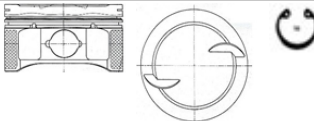


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO											
3.5L (213CID,3494CC),DOHC,6CYL, 93.400MM (3.677"), 6VE1 / 2004-2004																					
RODEO / 04-04	SWI10191-0	93.40	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-764-0	93.40	TL:	57.00	PL:	66.00	CHK.					
	SWI10191-1	93.65		0.059	0.128					11-764-1	93.65	CH:	33.70	PD:	22.00	DIA					
	SWI10191-2	93.90	2nd:	1.500	X	4.000	T1	CAST IRON	PHOSPHATE	11-764-2	93.90	DIST1:	-1.90	Head:	NONE	10.00					
	SWI10191-3	94.15		0.059	0.157				11-764-3	94.15	DIST2:		Skirt:	NONE							
	SWI10191-4	94.40	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-764-4	94.40	DIST3:									
				0.118	0.112																
REFERENCE # 8-97136-135-0		TOP	2ND		OIL		REFERENCE # 8-97172-674-0														
3.7L (223CID,3653CC),DOHC,5CYL, 95.500MM (3.760"), Vortec 3700 LLR / 2007-2008																					
i-370 / 07-08	SWG10036-0	95.50	Top:	1.200	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.											
	SWG10036-1	95.75		0.047	0.130																
	SWG10036-2	96.00	2nd:	1.500	X	3.700	TUC	CAST IRON	PHOSPHATE												
	SWG10036-3	96.25		0.059	0.146																
	SWG10036-4	96.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME												
				0.098	0.112																
REFERENCE # 8-89018-219-0 89018219		TOP	2ND		OIL																
4.3L (262CID,4293CC),OHV,6CYL, 101.600MM (4.000"), Vortec 4300 LF6 / 1997-2000																					
HOMBRE / 97-00	SWI10196-0	89.00	Top:	1.500	X	3.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.											
	SWI10196-1	89.25		0.059	0.144																
	SWI10196-2	89.50	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE												
	SWI10196-3	89.75		0.059	0.165																
	SWI10196-4	90.00	Oil:	3.000	X	3.350	NIFF-S	STEEL	CHROME												
				0.118	0.132																
REFERENCE # 12522848 8-12522-848-0		TOP	2ND		OIL																
5.2L (317CID,5193CC),SOHC,4CYL, 115.000MM (4.528"), 4HK1-TC / 2005-2015																					
NPR - HD DSL / 05-15 NQR / 05-15 NRR / 05-15	SDI10207-0	115.00	Top:	2.948	X	4.150	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.											
	SDI10207-1	115.25		0.116	0.163																
	SDI10207-2	115.50	2nd:	2.000	X	4.300	T1-IB	STEEL	NITRIDED												
	SDI10207-3	115.75		0.079	0.169																
	SDI10207-4	116.00	3rd:	2.500	X	4.800	TUC	CAST IRON	CHROME												
				0.098	0.189																
		Oil:	3.000	X	3.100	E-BC16	STEEL	NITRIDED													
			0.118	0.122																	
REFERENCE # 8-98017-166-0		TOP	2ND		3RD		OIL														



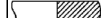
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO											
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 2003-2004																							
ASCENDER / 03-04	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-829-0	96.00	TL:	64.80	PL:	72.00	CHK.							
	SWG10005-1	96.25		0.059		0.130				11-829-1	96.25	CH:	33.70	PD:	24.00	DIA							
	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-829-2	96.50	DIST1:	-1.70	Head:	NONE	16.00							
	SWG10005-3	96.75		0.059		0.157				11-829-3	96.75	DIST2:		Skirt:	MS								
	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-829-4	97.00	DIST3:											
	AM Ring Available			0.118		0.126																	
	REFERENCE #		TOP			2ND			OIL			REFERENCE #											
	12456338											8-88894-397-0											
	19208677											88894397											
	8-12456-338-0																						
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 III / 2005-2006																							
ASCENDER / 05-06	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.													
	SWG10005-1	96.25		0.059		0.130																	
	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE														
	SWG10005-3	96.75		0.059		0.157																	
	SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED														
	AM Ring Available			0.118		0.126																	
	REFERENCE #		TOP			2ND			OIL														
	12456338																						
	19208677																						
	8-12456-338-0																						
6.0L (364CID,5957CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 L96 / 2012-2015																							
NPR - GAS / 12-15	SWG10031-0	101.60	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-889-0	101.60	TL:	57.90	PL:	65.00	CHK.							
	SWG10031-1	101.85		0.047		0.138				11-889-1	101.85	CH:	33.90	PD:	23.96	DIA							
	SWG10031-2	102.10	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE	11-889-2	102.10	DIST1:	-1.40	Head:	NONE	13.00							
	SWG10031-3	102.35		0.059		0.165				11-889-3	102.35	DIST2:		Skirt:	MS								
	SWG10031-4	102.60	Oil:	2.500	X	2.550	NIFF-H	STEEL	CHROME	11-889-4	102.60	DIST3:											
				0.098		0.100																	
	REFERENCE #		TOP			2ND			OIL			REFERENCE #											
	19178307											8-89017-849-0											
	8-89017-484-0											89017849											
	89017484																						

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

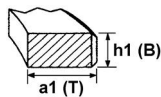


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1.6L (97CID,1591CC),DOHC,4CYL, 77.000MM (3.031"), GAMMA 1.6L, GAMMA G4FJ / 2010-2016

1.6L (97CID,1597CC),DOHC,4CYL, 78.000MM (3.071"), B6 / 1995-1997

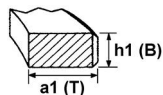
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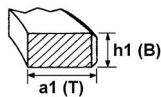
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6 / 1994-1995																	
Sephia / 94-95	SWK30020-0	78.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-786-0	78.00						
	SWK30020-1	78.25		0.059		0.120				DISC-11-786-1	78.25						
	SWK30020-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-786-2	78.50						
	SWK30020-3	78.75		0.059		0.134				DISC-11-786-3	78.75						
	SWK30020-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-786-4	79.00						
		0.157		0.120													
	REFERENCE # K2YA-11-SCO		TOP	2ND		OIL			REFERENCE # B6Y3-11-SA0A K2Y3-11-SAO								
	1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA G4ED,ALPHA II G4ED / 2003-2005																
	RIO / 03-05 RIO CINCO / 03-05	SWG30030-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	DISC-11-819-0	76.50					
SWG30030-1		76.75	0.047		0.112		DISC-11-819-1				76.75						
SWG30030-2		77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-819-2	77.00						
SWG30030-3		77.25		0.047		0.126				DISC-11-819-3	77.25						
SWG30030-4		77.50	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	DISC-11-819-4	77.50						
		0.098		0.112													
REFERENCE # 23040-26101		TOP	2ND		OIL			REFERENCE # 23410-26121 23410-26212									
1.6L (98CID,1599CC),DOHC,4CYL, 76.500MM (3.012"), ALPHA II G4ED / 2006-2011																	
RIO / 06-11 RIO 5 / 06-11		SWG30034-0	76.50	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30034-1	76.75	0.047		0.112												
	SWG30034-2	77.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE								
	SWG30034-3	77.25		0.047		0.126											
	SWG30034-4	77.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED								
		0.079		0.098													
	REFERENCE # 23040-26120 23040-26160		TOP	2ND		OIL											
	1.8L (109CID,1793CC),DOHC,4CYL, 81.000MM (3.189"), FB / 2000-2004																
	Spectra / 00-04	SWG30040-0	81.00	Top:	1.200	X	3.300	BF-IB	STEEL	CHROME	11-841-0	81.00	TL:	50.30	PL:	58.00	CHK.
SWG30040-1		81.25	0.047		0.130		11-841-1				81.25	CH:	30.20	PD:	20.00	DIA	
SWG30040-2		81.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-841-2	81.50	DIST1:	-2.60	Head:	NONE	NONE	
SWG30040-3		81.75		0.047		0.134				11-841-3	81.75	DIST2:		Skirt:	NONE	NONE	
SWG30040-4		82.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-841-4	82.00	DIST3:					
		0.098		0.112													
REFERENCE # 23040-2Y000		TOP	2ND		OIL			REFERENCE # 23410-2Y010									

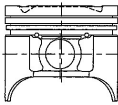
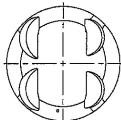
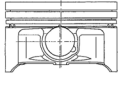
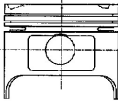
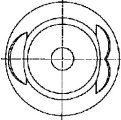


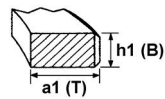
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO					
1.8L (110CID,1797CC),DOHC,4CYL, 81.000MM (3.189"), Nu 1.8L / 2014-2015																
FORTE / 14-15	SWG30059-0	81.00	Top:	1.000	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG30059-1	81.25		0.039		0.106										
	SWG30059-2	81.50	2nd:	1.200	X	3.150	TUC-RB	CAST IRON	PHOSPHATE							
	SWG30059-3	81.75		0.047		0.124										
	SWG30059-4	82.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
	REFERENCE # 23040-2E000		TOP		2ND		OIL									
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP / 1995-2000																
Sephia / 95-00	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-703-0	83.00	TL:	61.50	PL:	70.00	CHK.
	SWT20066-1	83.25		0.059		0.130				11-703-1	83.25	CH:	30.60	PD:	32.00	DIA
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-703-2	83.50	DIST1:	0.50	Head:	NONE	15.00
	SWT20066-3	83.75		0.059		0.142				11-703-3	83.75	DIST2:		Skirt:	NONE	
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-703-4	84.00	DIST3:				
	REFERENCE # BPY0-11-SCO BPY1-11-SC0 BPY3-11-SC0 BPZ0-11-SC0A FOCZ 6149 A		TOP		2ND		OIL				REFERENCE # BPY1-11-SA0A BPY1-11-SAO					
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA G4GF / 2005-2008																
Spectra5 / 05-08 SPORTAGE / 05-06	SWG30028-0	82.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-838-0	82.00	TL:	57.80	PL:	59.00	CHK.
	SWG30028-1	82.25		0.047		0.120				11-838-1	82.25	CH:	31.00	PD:	20.00	DIA
	SWG30028-2	82.50	2nd:	1.200	X	3.500	T1	CAST IRON	PHOSPHATE	11-838-2	82.50	DIST1:	0.30	Head:	NONE	10.00
	SWG30028-3	82.75		0.047		0.138				11-838-3	82.75	DIST2:		Skirt:	NONE	
	SWG30028-4	83.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-838-4	83.00	DIST3:				
	REFERENCE # 23040-23000 23040-23200		TOP		2ND		OIL				REFERENCE # 23410-23711					
2.0L (121CID,1975CC),DOHC,4CYL, 82.000MM (3.228"), BETA II G4JP / 2007-2011																
Soul / 10-11 Spectra / 07-09 Spectra5 / 09-09 SPORTAGE / 07-10	SWG30054-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-901-0	82.00	TL:	57.90	PL:	59.00	CHK.
	SWG30054-1	82.25		0.047		0.112				11-901-1	82.25	CH:	31.10	PD:	20.00	DIA
	SWG30054-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE	11-901-2	82.50	DIST1:	0.30	Head:	NONE	5.00
	SWG30054-3	82.75		0.047		0.120				11-901-3	82.75	DIST2:		Skirt:	GS	
	SWG30054-4	83.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	NITRIDED	11-901-4	83.00	DIST3:				
	REFERENCE # 23040-23300 23040-23400		TOP		2ND		OIL				REFERENCE # 23410-23300 23410-23AA0					

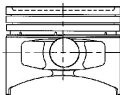
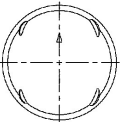
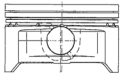
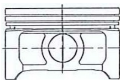


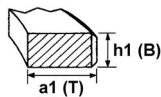
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), FED / 1995-2002																
SPORTAGE / 95-02	SWK30022-0	86.00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



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

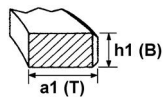
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.7L (162CID,2656CC),DOHC,6CYL, 86.700MM (3.413"), Mu G6A5 / 2006-2010																
OPTIMA / 06-10	SWG30045-0	86.70	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-892-0	86.70	TL:	54.00	PL:	59.00	CHK.
Rondo / 07-10	SWG30045-1	86.95		0.047		0.120				11-892-1	86.95	CH:	30.50	PD:	21.00	DIA
SPORTAGE / 07-10	SWG30045-2	87.20	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-892-2	87.20	DIST1:	-0.60	Head:	NONE	5.00
	SWG30045-3	87.45		0.047		0.142				11-892-3	87.45	DIST2:		Skirt:	MS	
	SWG30045-4	87.70	Oil:	2.000	X	2.650	NIFF-H	STEEL	NITRIDED	11-892-4	87.70	DIST3:				
REFERENCE # 23040-3E001		TOP 2ND OIL 							REFERENCE # 23410-3E001							
3.3L (204CID,3342CC),DOHC,6CYL, 92.000MM (3.622"), LAMBDA G6DB,LAMBDA II G6DG / 2008-2017																
Cadenza / 14-17	SWG30055-0	92.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SEDONA / 14-17	SWG30055-1	92.25		0.047		0.122										
SORENTO / 08-09	SWG30055-2	92.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWG30055-3	92.75		0.047		0.134										
	SWG30055-4	93.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED							
REFERENCE # 23040-3C150		TOP 2ND OIL 														
3.5L (213CID,3497CC),DOHC,6CYL, 93.000MM (3.661"), SIGMA G6AU / 2002-2006																
AMANTI / 04-06	SWG30056-0	93.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
SEDONA / 02-05	SWG30056-1	93.25		0.059		0.130										
SORENTO / 03-06	SWG30056-2	93.50	2nd:	1.500	X	3.900	TUC	CAST IRON	CHROME							
	SWG30056-3	93.75		0.059		0.154										
	SWG30056-4	94.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
REFERENCE # 23040-39800		TOP 2ND OIL 														

LAND ROVER

LAND ROVER

2.0L (122.0 CID, 1,999.0 CC), DOHC, 4CYL, 87.500mm (3.445"), EcoBoost 20T / 2013-2018 TURBO																
DISCOVERY / 17-18	SWF30023-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
DISCOVERY SPORT / 17-18	SWF30023-1	87.75		0.047		0.114										
LR2 / 13-15	SWF30023-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
RANGE ROVER EVOQUE / 13-18	SWF30023-3	88.25		0.047		0.134										
	SWF30023-4	88.50	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED							
				0.079		0.098										
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LAND ROVER

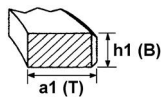
LAND ROVER

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

LEXUS

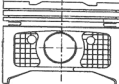
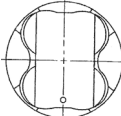
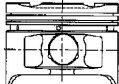
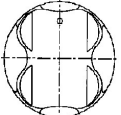
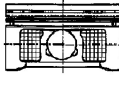
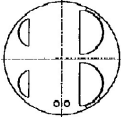
LEXUS

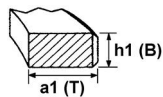
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FXE / 2011-2015										
CT 200 HYBRID / 11-15	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SWT10232-1	80.75		0.039		0.114				
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE	
	SWT10232-3	81.25		0.039		0.098				
	SWT10232-4	81.50	Oil:	1.500	X	1.950	NIFF-H	STEEL	CHROME	
				0.059		0.077				
	REFERENCE #		TOP	2ND		OIL				
	13011-0T010									
	13011-37110									
	19185554									
2.4L (144CID,2355CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FXE / 2010-2012										
HS 250 HYBRID / 10-12	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10200-1	88.75		0.039		0.106				
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	
	SDT10200-3	89.25		0.039		0.106				
	SDT10200-4	89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	
				0.079		0.108				
	REFERENCE #		TOP	2ND		OIL				
	13011-0H031									
	13011-28161									
2.5L (152CID,2499CC),DOHC,6CYL, 83.000MM (3.268"), 4GR-FSE / 2006-2015										
IS 250 / 06-15 IS 250C / 10-15	SDT10225-0	83.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10225-1	83.25		0.047		0.106				
	SDT10225-2	83.50	2nd:	1.200	X	2.700	B1-TUC	STEEL	CHROME	
	SDT10225-3	83.75		0.047		0.106				
	SDT10225-4	84.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	
				0.079		0.108				
	REFERENCE #		TOP	2ND		OIL				
	13011-31220									



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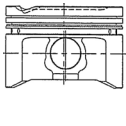
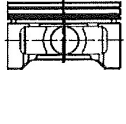
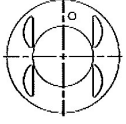
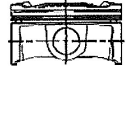
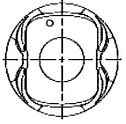
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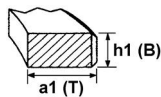
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (153CID,2507CC),DOHC,6CYL, 87.500MM (3.445"), 2VZ-FE / 1990-1991																
ES 250 / 90-91	SWT10148-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-651-0	87.50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



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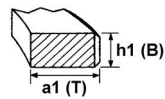
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.0L (183CID,2997CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GE / 1998-2005																	
GS 300 / 98-05	SWT10134-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-851-0	86.00	TL:	59.00	PL:	66.00	CHK.	
IS 300 / 01-05	SWT10134-1	86.25		0.059	0.130	11-851-1				86.25	CH:	34.00	PD:	22.00	DIA		
SC 300 / 98-00	SWT10134-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-851-2	86.50	DIST1:	-2.30	Head:	NONE	10.00	
	SWT10134-3	86.75		0.059	0.150	11-851-3				86.75	DIST2:	Skirt:	MS				
	SWT10134-4	87.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	NITRIDED	11-851-4	87.00	DIST3:					
				0.157		0.114											
REFERENCE #		TOP	2ND	OIL	REFERENCE #			  									
13011-46041					13101-46081												
13011-46051																	
3.3L (202CID,3311CC),DOHC,6CYL, 92.000MM (3.622"), 3MZ-FE,3MZ-FXE / 2004-2008																	
ES 330 / 04-06	SWT10228-0	92.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-867-0	92.00	TL:	54.50	PL:	56.00	CHK.	
RX 330 / 04-06	SWT10228-1	92.25		0.047	0.112	11-867-1				92.25	CH:	31.20	PD:	22.00	DIA		
RX 400 HYBRID / 06-08	SWT10228-2	92.50	2nd:	1.200	X	3.800	TUC	CAST IRON	PHOSPHATE	11-867-2	92.50	DIST1:	-0.60	Head:	AH	9.40	
	SWT10228-3	92.75		0.047	0.150	11-867-3				92.75	DIST2:	Skirt:	MS				
	SWT10228-4	93.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED	11-867-4	93.00	DIST3:					
				0.118		0.100											
REFERENCE #		TOP	2ND	OIL	REFERENCE #			  									
13011-0A030					13101-0A040												
13011-0A031																	
13011-0A040																	
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FE / 2007-2015																	
ES 350 / 07-15	SDT10194-0	94.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-870-0	94.00	TL:	52.50	PL:	56.00	CHK.	
RX 350 / 07-15	SDT10194-1	94.25		0.047	0.114	11-870-1				94.25	CH:	31.30	PD:	22.00	DIA		
	SDT10194-2	94.50	2nd:	1.200	X	2.900	TUC	STEEL	PHOSPHATE	11-870-2	94.50	DIST1:	2.10	Head:	AH	5.50	
	SDT10194-3	94.75		0.047	0.114	11-870-3				94.75	DIST2:	Skirt:	MS				
	SDT10194-4	95.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-870-4	95.00	DIST3:					
				0.079		0.108											
REFERENCE #		TOP	2ND	OIL	REFERENCE #			  									
13011-0P040					13101-0P053												
13011-31130					13101-31090												
13011-31140					13101-31092-A0												
13011-31142					13101-31092-B0												
13011-31160																	
3.5L (211CID,3456CC),DOHC,6CYL, 94.000MM (3.701"), 2GR-FSE,2GR-FXE / 2006-2016																	
GS 350 / 07-15	SDT10194-0	94.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
GS 450 HYBRID / 07-16	SDT10194-1	94.25		0.047	0.114	11-870-1										94.25	
IS 350 / 06-15	SDT10194-2	94.50	2nd:	1.200	X	2.900	TUC	STEEL	PHOSPHATE							11-870-2	94.50
IS 350C / 10-15	SDT10194-3	94.75		0.047	0.114	11-870-3										94.75	
RC 350 / 15-16	SDT10194-4	95.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-870-4	95.00	DIST3:					
RX 450 HYBRID / 10-15				0.079		0.108											
REFERENCE #		TOP	2ND	OIL	REFERENCE #												
13011-0P040					13101-0P053												
13011-31130					13101-31090												
13011-31140					13101-31092-A0												
13011-31142					13101-31092-B0												
13011-31160																	



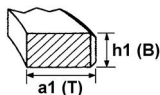
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
4.0L (242CID,3969CC),DOHC,8CYL, 87.500MM (3.445"), 1UZ-FE / 1990-2000																	
GS 400 / 98-00	SWT10147-0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

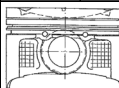
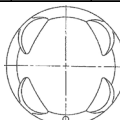


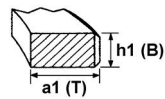
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
4.7L (285CID,4663CC),DOHC,8CYL, 94.000MM (3.701"), 2UZ-FE / 1998-2004																							
GX 470 / 03-04 LX 470 / 98-03	SWT10203-0	94.00	Top:	1.500	X	3.300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

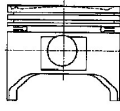
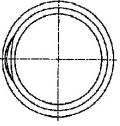


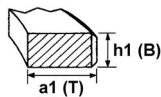
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO					
1.2L (73CID,1200CC),4CYL, 70.000MM (2.756"), TB / 1970-1972																	
1200 / 70-72	SXT20009-0	70.00	Top:	2.000	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-702-0	70.00						
	SXT20009-1	70.25		0.079		0.122				DISC-11-702-1	70.25						
	SXT20009-2	70.50	2nd:	2.000	X	3.100	TUC	CAST IRON	PHOSPHATE	DISC-11-702-2	70.50						
	SXT20009-3	70.75		0.079		0.122				DISC-11-702-3	70.75						
	SXT20009-4	71.00	Oil:	4.000	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-702-4	71.00						
		0.157		0.122													
	REFERENCE # 0271-23-170		TOP		2ND		OIL		REFERENCE # 0271-23-200								
																	
	1.3L (78CID,1272CC),4CYL, 73.000MM (2.874"), TC / 1976-1978																
	808 / 76-77 GLC / 77-78	SWT20026-0	73.00	Top:	2.000	X	3.100	BF	DUCTILE IRON	CHROME	DISC-11-123-0	73.00					
SWT20026-1		73.25	0.079		0.122		DISC-11-123-1				73.25						
SWT20026-2		73.50	2nd:	2.000	X	3.100	TUC	CAST IRON	PHOSPHATE	DISC-11-123-2	73.50						
SWT20026-3		73.75		0.079		0.122				DISC-11-123-3	73.75						
SWT20026-4		74.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	CHROME	DISC-11-123-4	74.00						
		0.157		0.118													
REFERENCE # 0324-23-130		TOP		2ND		OIL		REFERENCE # 0370-23-200									
																	
1.4L (86CID,1415CC),4CYL, 77.000MM (3.031"), UC / 1979-1980																	
GLC / 79-80		SWT20036-0	77.00	Top:	1.500	X	2.850	BF	STEEL	CHROME	DISC-11-125-0	77.00					
	SWT20036-1	77.25	0.059		0.112		DISC-11-125-1				77.25						
	SWT20036-2	77.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-125-2	77.50						
	SWT20036-3	77.75		0.059		0.126				DISC-11-125-3	77.75						
	SWT20036-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-125-4	78.00						
		0.157		0.120													
	REFERENCE # 8569-23-130A		TOP		2ND		OIL		REFERENCE # 8569-23-200								
																	
	1.5L (91CID,1489CC),DOHC,4CYL, 75.300MM (2.965"), Z5 / 1995-1998																
	PROTEGE / 95-98	SWT20074-0	75.30	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-731-0	75.30	TL:	51.80	PL:	61.00	CHK.
SWT20074-1		75.55	0.039		0.106		11-731-1				75.55						
SWT20074-2		75.80	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-731-2	75.80						
SWT20074-3		76.05		0.047		0.126				11-731-3	76.05						
SWT20074-4		76.30	Oil:	2.500	X	2.550	NIFF-S	STEEL	NITRIDED	11-731-4	76.30						
		0.098		0.100													
REFERENCE # Z5Y0-11-SC0		TOP		2ND		OIL		REFERENCE # Z5Y0-11-SA0B									
																	
																	

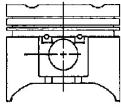
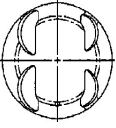


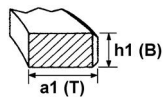
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO										
1.5L (91CID,1490CC),4CYL, 77.000MM (3.031"), E5 / 1981-1985																				
GLC / 81-85	SWT20037-0	77.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	DISC-11-126-0	77.00									
	SWT20037-1	77.25		0.047		0.128				DISC-11-126-1	77.25									
	SWT20037-2	77.50	2nd:	1.500	X	3.200	TUC	CAST IRON	CHROME	DISC-11-126-2	77.50									
	SWT20037-3	77.75		0.059		0.126				DISC-11-126-3	77.75									
	SWT20037-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-126-4	78.00									
REFERENCE # E512-23-130		TOP	2ND	OIL			REFERENCE # E501-23-200													
1.5L (91CID,1490CC),4CYL, 77.000MM (3.031"), E5 / 1983-1985																				
GLC / 83-85	SWT20045-0	77.00	Top:	1.500	X	2.900	BF	STEEL	NITRIDED	11-127-0	77.00	TL:	60.60	PL:	65.00	CHK. DIA 1.00				
	SWT20045-1	77.25		0.059		0.114				11-127-1	77.25	CH:	28.60	PD:	20.00					
	SWT20045-2	77.50	2nd:	2.000	X	3.300	TUC	CAST IRON	PHOSPHATE	11-127-2	77.50	DIST1:	-2.00	Head:	NONE					
	SWT20045-3	77.75		0.079		0.130				11-127-3	77.75	DIST2:		Skirt:	NONE					
	SWT20045-4	78.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-127-4	78.00	DIST3:								
REFERENCE # E302-23-130A		TOP	2ND	OIL			REFERENCE # E502-23-200A			 										
1.5L (91CID,1498CC),DOHC,4CYL, 78.000MM (3.071"), ZY-VE / 2011-2015																				
MAZDA 2 / 11-15	SWT20087-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.										
	SWT20087-1	78.25		0.047		0.096														
	SWT20087-2	78.50	2nd:	1.200	X	3.300	TUC	CAST IRON	PHOSPHATE											
	SWT20087-3	78.75		0.047		0.130														
	SWT20087-4	79.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED											
REFERENCE # ZYY2-11-SC0		TOP	2ND	OIL																
1.6L (97CID,1586CC),SOHC,4CYL, 78.000MM (3.071"), NA / 1972-1977																				
808 / 72-77 B1600 / 72-76	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	DISC-11-128-0	78.00									
	SWT20025-1	78.25		0.059		0.142				DISC-11-128-1	78.25									
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-128-2	78.50									
	SWT20025-3	78.75		0.059		0.142				DISC-11-128-3	78.75									
	SWT20025-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-128-4	79.00									
REFERENCE # 0494-23-130 3763-23-130		TOP	2ND	OIL			REFERENCE # 0305-23-200													



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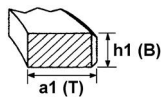
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1597CC),DOHC,4CYL, 78.000MM (3.071"), B6-ZE / 1990-1993																	
Miata / 90-93	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-579-0	78.00	TL:	63.50	PL:	62.00	CHK.	
	SWT20060-1	78.25		0.059		0.122				11-579-1	78.25	CH:	32.30	PD:	20.00	DIA	
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	11-579-2	78.50	DIST1:	-1.30	Head:	NONE	10.00	
	SWT20060-3	78.75		0.059		0.134				11-579-3	78.75	DIST2:		Skirt:	NONE		
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	11-579-4	79.00	DIST3:					
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND		OIL			REFERENCE # B6Z2-11-SA0C		  						
Miata / 90-93	SWT20063-0	78.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	DISC-11-588-0	78.00						
	SWT20063-1	78.25		0.059		0.120				DISC-11-588-1	78.25						
	SWT20063-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	PHOSPHATE	DISC-11-588-2	78.50						
	SWT20063-3	78.75		0.059		0.134				DISC-11-588-3	78.75						
	SWT20063-4	79.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED	DISC-11-588-4	79.00						
	REFERENCE # B6Y3-11-SC0A		TOP	2ND		OIL			REFERENCE # B6Z5-11-SC0								
1.6L (97CID,1597CC),DOHC,4CYL, 78.000MM (3.071"), B6T / 1988-1989 TURBO																	
323 / 88-89	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-578-0	78.00						
	SWT20060-1	78.25		0.059		0.122				DISC-11-578-1	78.25						
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-578-2	78.50						
	SWT20060-3	78.75		0.059		0.134				DISC-11-578-3	78.75						
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-578-4	79.00						
	REFERENCE # B6Y0-11-SC0A B6Y4-11-SC0B B6Y6-11-SC0A E8GY 6149 A		TOP	2ND		OIL			REFERENCE # B6Z0-11-SA0A								
1.6L (97CID,1597CC),DOHC,4CYL, 80.000MM (3.150"), ZL / 1999-2001																	
PROTEGE / 99-01	SWT20080-0	80.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20080-1	80.25		0.047		0.104											
	SWT20080-2	80.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE								
	SWT20080-3	80.75		0.059		0.126											
	SWT20080-4	81.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME								
	REFERENCE # ZLY0-11-SC0		TOP	2ND		OIL											



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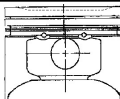
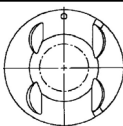
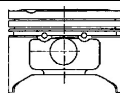
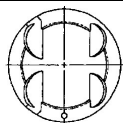
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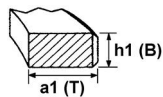
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO															
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6 / 1986-1995																									
323 / 86-95	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-577-0	78.00														
	SWT20060-1	78.25		0.059		0.122				DISC-11-577-1	78.25														
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-577-2	78.50														
	SWT20060-3	78.75		0.059		0.134				DISC-11-577-3	78.75														
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-577-4	79.00														
				0.157		0.118																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																	
	B6Y0-11-SC0A					B6Y0-11-SA0A																			
	B6Y4-11-SC0B					E9GZ 6108 A																			
	B6Y6-11-SC0A																								
E8GY 6149 A																									
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6,B6-ME / 1992-1995																									
323 / 94-95 MX3 / 92-93	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-786-0	78.00														
	SWT20060-1	78.25		0.059		0.122				DISC-11-786-1	78.25														
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	DISC-11-786-2	78.50														
	SWT20060-3	78.75		0.059		0.134				DISC-11-786-3	78.75														
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	DISC-11-786-4	79.00														
				0.157		0.118																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																	
	B6Y0-11-SC0A					B6Y3-11-SA0A																			
	B6Y4-11-SC0B					K2Y3-11-SAO																			
	B6Y6-11-SC0A																								
E8GY 6149 A																									
1.6L (97CID,1597CC),SOHC,4CYL, 78.000MM (3.071"), B6-ME / 1995-1995																									
MX3 / 95-95	SWT20060-0	78.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-794-0	78.00	TL:	62.40	PL:	57.00	CHK.									
	SWT20060-1	78.25		0.059		0.122				11-794-1	78.25	CH:	31.90	PD:	20.00	DIA									
	SWT20060-2	78.50	2nd:	1.500	X	3.400	TUC	CAST IRON	CHROME	11-794-2	78.50	DIST1:	-2.50	Head:	NONE	15.00									
	SWT20060-3	78.75		0.059		0.134				11-794-3	78.75	DIST2:		Skirt:	NONE										
	SWT20060-4	79.00	Oil:	4.000	X	3.000	NIFF-S	STEEL	NITRIDED	11-794-4	79.00	DIST3:													
				0.157		0.118																			
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																	
	B6Y0-11-SC0A					B6Z7-11-SA0																			
	B6Y4-11-SC0B																								
	B6Y6-11-SC0A																								
E8GY 6149 A																									
1.8L (110CID,1796CC),4CYL, 78.000MM (3.071"), VB / 1972-1973																									
618 / 72-73	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.															
	SWT20025-1	78.25		0.059		0.142																			
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE																
	SWT20025-3	78.75		0.059		0.142																			
	SWT20025-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME																
				0.157		0.120																			
	REFERENCE #		TOP	2ND		OIL																			
	0494-23-130																								
	3763-23-130																								



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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (110CID,1797CC),SOHC,4CYL, 78.000MM (3.071"), VB / 1972-1978																	
618 / 72-72 B1800 / 77-78	SWT20025-0	78.00	Top:	1.500	X	3.600	T1	CAST IRON	CHROME	DISC-11-092-0	78.00						
	SWT20025-1	78.25		0.059		0.142				DISC-11-092-1	78.25						
	SWT20025-2	78.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-092-2	78.50						
	SWT20025-3	78.75		0.059		0.142				DISC-11-092-3	78.75						
	SWT20025-4	79.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-092-4	79.00						
				0.157		0.120											
REFERENCE # 0494-23-130 3763-23-130		TOP	2ND		OIL		REFERENCE # 0290-23-200 3879-23-200										
																	
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP01 / 1990-1994																	
PROTEGE / 90-94	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-584-0	83.00	TL:	61.00	PL:	61.00	CHK.	
	SWT20066-1	83.25		0.059		0.130				11-584-1	83.25	CH:	30.70	PD:	20.00	DIA	
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-584-2	83.50	DIST1:	-2.50	Head:	NONE	10.00	
	SWT20066-3	83.75		0.059		0.142				11-584-3	83.75	DIST2:		Skirt:	NONE		
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-584-4	84.00	DIST3:					
				0.118		0.110											
REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A		TOP	2ND		OIL		REFERENCE # BPZ0-11-SA0 BPZ0-11-SA0A				 						
																	
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05,BP05-ZE / 1990-1998																	
Miata / 94-97 PROTEGE / 90-98	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-703-0	83.00	TL:	61.50	PL:	70.00	CHK.	
	SWT20066-1	83.25		0.059		0.130				11-703-1	83.25	CH:	30.60	PD:	32.00	DIA	
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-703-2	83.50	DIST1:	0.50	Head:	NONE	15.00	
	SWT20066-3	83.75		0.059		0.142				11-703-3	83.75	DIST2:		Skirt:	NONE		
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-703-4	84.00	DIST3:					
				0.118		0.110											
REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A		TOP	2ND		OIL		REFERENCE # BPY1-11-SA0A BPY1-11-SAO				  						
																	
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05-4W / 1999-2000																	
Miata / 99-00	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20066-1	83.25		0.059		0.130											
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE								
	SWT20066-3	83.75		0.059		0.142											
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED								
				0.118		0.110											
REFERENCE # BPY0-11-SCO BPY1-11-SCO BPY3-11-SCO BPZ0-11-SC0A FOCZ 6149 A		TOP	2ND		OIL												
																	

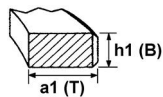


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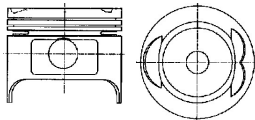
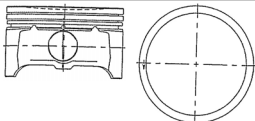
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), BP05-VE / 2001-2005																	
Miata / 01-05	SWT20066-0	83.00	Top:	1.500	X	3.300	BF-IB	STEEL	NITRIDED	11-842-0	83.00	TL:	64.00	PL:	57.00	CHK.	
	SWT20066-1	83.25		0.059		0.130				11-842-1	83.25	CH:	30.70	PD:	20.00	DIA	
	SWT20066-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-842-2	83.50	DIST1:	3.00	Head:	NONE	10.00	
	SWT20066-3	83.75		0.059		0.142				11-842-3	83.75	DIST2:		Skirt:	NONE		
	SWT20066-4	84.00	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-842-4	84.00	DIST3:					
			0.118	0.110													
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	BPY0-11-SCO							BPZ3-11-SA0									
	BPY1-11-SCO																
	BPY3-11-SCO																
	BPZ0-11-SC0A																
	FOCZ 6149 A																
1.8L (112CID,1839CC),DOHC,4CYL, 83.000MM (3.268"), FP / 1999-2000																	
PROTEGE / 99-00	SWT20078-0	83.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	DISC-11-715-0	83.00						
	SWT20078-1	83.25		0.047		0.122				DISC-11-715-1	83.25						
	SWT20078-2	83.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-715-2	83.50						
	SWT20078-3	83.75		0.059		0.142				DISC-11-715-3	83.75						
	SWT20078-4	84.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	DISC-11-715-4	84.00						
			0.118	0.126													
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	FSY2-11-SC0A							FPY1-11-SA0E									
1.8L (113CID,1844CC),DOHC,6CYL, 75.000MM (2.953"), K8-DE / 1992-1994																	
MX3 / 92-94	SWT20067-0	75.00	Top:	1.500	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT20067-1	75.25		0.059		0.106											
	SWT20067-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE								
	SWT20067-3	75.75		0.059		0.126											
	SWT20067-4	76.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	NITRIDED								
			0.118	0.100													
	REFERENCE #		TOP	2ND		OIL											
	K8Y2-11-SC0A																
2.0L (120CID,1970CC),SOHC,4CYL, 80.000MM (3.150"), MA / 1979-1981																	
626 / 79-81 B2000 / 79-81	SWT20031-0	80.00	Top:	1.200	X	3.450	BF	STEEL	CHROME	DISC-11-130-0	80.00						
	SWT20031-1	80.25		0.047		0.136				DISC-11-130-1	80.25						
	SWT20031-2	80.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-130-2	80.50						
	SWT20031-3	80.75		0.059		0.142				DISC-11-130-3	80.75						
	SWT20031-4	81.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-130-4	81.00						
			0.157	0.128													
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
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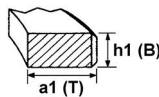
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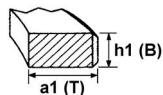
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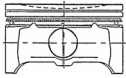
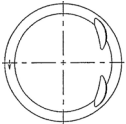
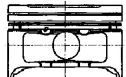
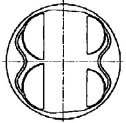
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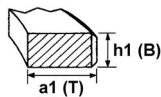
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),SOHC,4CYL, 86.000MM (3.386"), FE / 1983-1987																
626 / 83-87 B2000 / 86-87	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-129-0	86.00	TL:	70.80	PL:	67.00	CHK.
	SWT20048-1	86.25		0.059	0.128	11-129-1				86.25	CH:	34.00	PD:	22.00	DIA	
	SWT20048-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-129-2	86.50	DIST1:	-2.60	Head:	NONE	10.00
	SWT20048-3	86.75		0.059	0.150	11-129-3				86.75	DIST2:		Skirt:	NONE		
	SWT20048-4	87.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-129-4	87.00	DIST3:				
REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP			2ND			OIL			REFERENCE # FE01-23-200 FEY0-11-SAO					
2.0L (122CID,1998CC),SOHC,4CYL, 86.000MM (3.386"), FET / 1986-1987																
626 / 86-87	SWT20048-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	DISC-11-572-0	86.00					
	SWT20048-1	86.25		0.059	0.128	DISC-11-572-1				86.25						
	SWT20048-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	DISC-11-572-2	86.50					
	SWT20048-3	86.75		0.059	0.150	DISC-11-572-3				86.75						
	SWT20048-4	87.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	DISC-11-572-4	87.00					
REFERENCE # E92Z 6149 A F2Y1-11-SC0		TOP			2ND			OIL			REFERENCE # FE30-23-200A					
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), LF-DE / 2004-2005																
MAZDA 3 / 04-05	SWT20089-0	87.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-854-0	87.50	TL:	51.00	PL:	61.50	CHK.
	SWT20089-1	87.75		0.047	0.112	11-854-1				87.75	CH:	28.50	PD:	21.00	DIA	
	SWT20089-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-854-2	88.00	DIST1:	-2.00	Head:	AH	10.00
	SWT20089-3	88.25		0.047	0.134	11-854-3				88.25	DIST2:		Skirt:	MS		
	SWT20089-4	88.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	11-854-4	88.50	DIST3:				
REFERENCE # LFY1-11-SC0A LFY5-11-SC0		TOP			2ND			OIL			REFERENCE # LFY2-11-010					
2.0L (122CID,1999CC),DOHC,4CYL, 87.500MM (3.445"), LF-DE / 2006-2013																
MAZDA 3 / 06-13	SWT20089-0	87.50	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-898-0	87.50	TL:	51.00	PL:	60.00	CHK.
	SWT20089-1	87.75		0.047	0.112	11-898-1				87.75	CH:	28.50	PD:	21.00	DIA	
	SWT20089-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-898-2	88.00	DIST1:	-2.00	Head:	AH	10.00
	SWT20089-3	88.25		0.047	0.134	11-898-3				88.25	DIST2:		Skirt:	MS		
	SWT20089-4	88.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	11-898-4	88.50	DIST3:				
REFERENCE # LFY1-11-SC0A LFY5-11-SC0		TOP			2ND			OIL			REFERENCE # LFY5-11-010					


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


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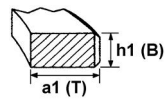
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.3L (138CID,2260CC),DOHC,4CYL, 87.500MM (3.445"), L3-VE / 2005-2009																
MAZDA 3 / 06-09	SWT20090-0	87.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-844-0	87.50	TL:	51.00	PL:	61.50	CHK.
MAZDA 6 / 05-08	SWT20090-1	87.75		0.047		0.106				11-844-1	87.75	CH:	28.50	PD:	21.00	DIA
	SWT20090-2	88.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-844-2	88.00	DIST1:	-3.30	Head:	NONE	10.00
	SWT20090-3	88.25		0.047		0.134				11-844-3	88.25	DIST2:		Skirt:	NONE	
	SWT20090-4	88.50	Oil:	2.500	X	2.600	NIFF-S	STEEL	NITRIDED	11-844-4	88.50	DIST3:				
				0.098		0.102										
REFERENCE # 3S4Z 6148 BA 8S7Z 6312 A L3Y3-11-SC0 L3Y6-11-SC0 LFY7-11-SC0A		TOP			2ND			OIL			REFERENCE # L3YH-11-010		 			
																
2.3L (140CID,2298CC),SOHC,4CYL, 96.000MM (3.780"), A / 1994-1997																
B2300 / 94-97	SWT20071-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20071-1	96.25		0.059		0.157										
	SWT20071-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20071-3	96.75		0.059		0.157										
	SWT20071-4	97.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME							
				0.157		0.128										
REFERENCE # F1ZZ 6148 A ZZM0-23-130 ZZM9-23-130		TOP			2ND			OIL								
																
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-DE / 1993-2002																
626 / 93-97	SWT20073-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-716-0	84.50	TL:	55.90	PL:	61.00	CHK.
MILLENNIA / 95-02	SWT20073-1	84.75		0.059		0.120				11-716-1	84.75	CH:	29.20	PD:	19.98	DIA
MX6 / 93-97	SWT20073-2	85.00	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-716-2	85.00	DIST1:	-1.70	Head:	NONE	11.00
	SWT20073-3	85.25		0.059		0.142				11-716-3	85.25	DIST2:		Skirt:	MS	
	SWT20073-4	85.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-716-4	85.50	DIST3:				
				0.118		0.114										
REFERENCE # E32Z 6149 D E42Z 6149 D KLY2-11-SC0A		TOP			2ND			OIL			REFERENCE # E32Z 6108 D E32Z 6108 G F42Z 6108 D F52Z 6108 A KLY1-11-SL0B KLZ1-11-SA0 KLZ1-11-SL0B		 			
																
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-G4 / 1998-1999																
626 / 98-99	SWT20073-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-766-0	84.50					
	SWT20073-1	84.75		0.059		0.120				DISC-11-766-1	84.75					
	SWT20073-2	85.00	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	DISC-11-766-2	85.00					
	SWT20073-3	85.25		0.059		0.142				DISC-11-766-3	85.25					
	SWT20073-4	85.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	DISC-11-766-4	85.50					
				0.118		0.114										
REFERENCE # E32Z 6149 D E42Z 6149 D KLY2-11-SC0A		TOP			2ND			OIL			REFERENCE # KLY5-11-SA0B					
																

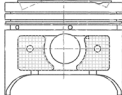
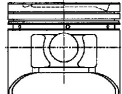
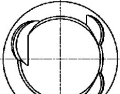
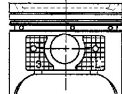
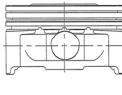


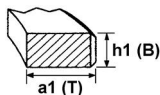
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (153CID,2507CC),DOHC,6CYL, 84.500MM (3.327"), KL-G4 / 2000-2002																
626 / 00-02	SWT20073-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20073-1	84.75		0.059		0.120										
	SWT20073-2	85.00	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWT20073-3	85.25		0.059		0.142										
	SWT20073-4	85.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME							
				0.118		0.114										
REFERENCE #		TOP	2ND	OIL												
E32Z 6149 D																
E42Z 6149 D																
KLY2-11-SC0A																
2.5L (153CID,2507CC),SOHC,4CYL, 96.000MM (3.780"), C / 1998-2001																
B2500 / 98-01	SWT20076-0	96.00	Top:	1.500	X	4.000	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWT20076-1	96.25		0.059		0.157										
	SWT20076-2	96.50	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE							
	SWT20076-3	96.75		0.059		0.157										
	SWT20076-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME							
				0.118		0.136										
REFERENCE #		TOP	2ND	OIL												
F67Z 6148 AA																
F87Z 6148 AA																
ZZP0-23-130																
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), AM1 / 1987-1988																
B2600 / 87-88	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-035-0	91.10	TL:	78.30	PL:	79.00	CHK.
	SWM31039-1	91.35		0.059		0.130				11-035-1	91.35	CH:	36.00	PD:	22.00	DIA
	SWM31039-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-035-2	91.60	DIST1:	0.30	Head:	NONE	25.00
	SWM31039-3	91.85		0.059		0.150				11-035-3	91.85	DIST2:		Skirt:	NONE	
	SWM31039-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-035-4	92.10	DIST3:				
				0.157		0.128										
REFERENCE #		TOP	2ND	OIL					REFERENCE #							
AM15-11-SC0									AM01-11-SA0							
MD061258									AM15-11-SA0							
MD076170									MD071172							
2.6L (159CID,2606CC),SOHC,4CYL, 92.000MM (3.622"), G6 / 1989-1994																
B2600i / 90-93 MPV / 89-94	SWT20064-0	92.00	Top:	1.500	X	3.300	BF-IB	STEEL	CHROME	11-580-0	92.00	TL:	73.70	PL:	63.00	CHK.
	SWT20064-1	92.25		0.059		0.130				11-580-1	92.25	CH:	35.40	PD:	23.00	DIA
	SWT20064-2	92.50	2nd:	1.500	X	4.100	TUC	CAST IRON	PHOSPHATE	11-580-2	92.50	DIST1:	-8.70	Head:	NONE	10.00
	SWT20064-3	92.75		0.059		0.161				11-580-3	92.75	DIST2:		Skirt:	NONE	
	SWT20064-4	93.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-580-4	93.00	DIST3:				
				0.157		0.126										
REFERENCE #		TOP	2ND	OIL					REFERENCE #							
G601-11-SC0A									G602-11-SA0							



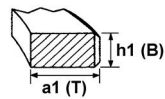
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (180CID,2954CC),DOHC,6CYL, 90.000MM (3.543"), JE48 / 1992-1995																
929 / 92-95	SWT20062-0	90.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-759-0	90.00	TL: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



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



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

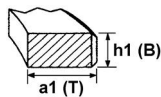
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1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1991-1996																
MIRAGE / 91-96	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-531-0	75.50	TL:	58.00	PL:	56.00	CHK.
	SWM31076-1	75.75		0.047		0.106				11-531-1	75.75	CH:	29.00	PD:	18.00	
	SWM31076-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-531-2	76.00	DIST1:	-0.50	Head:	NONE	19.00
	SWM31076-3	76.25		0.059		0.130				11-531-3	76.25	DIST2:		Skirt:	NONE	
	SWM31076-4	76.50	Oil:	3.000	X	2.800	NIFF-S	STEEL	NITRIDED	11-531-4	76.50	DIST3:				
REFERENCE # MD158549 MD180804			TOP	2ND		OIL		REFERENCE # MD144901 MD320435								

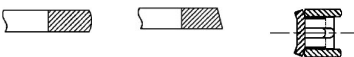
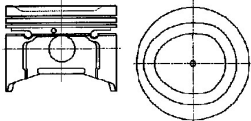
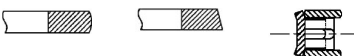
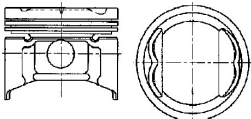
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1995-1996										
MIRAGE / 95-96	SWM31076-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability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

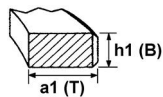
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1997-1999																
MIRAGE / 97-99	SWM31145-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	DISC-11-748-0	75.50					
	SWM31145-1	75.75		0.047	0.106				DISC-11-748-1	75.75						
	SWM31145-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	DISC-11-748-2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



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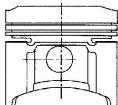
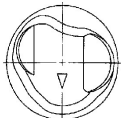
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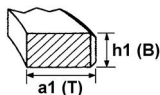
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15 / 1997-2002																
MIRAGE / 97-02	SWM31145-0	75.50	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31145-1	75.75		0.047	0.106											
	SWM31145-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE							
	SWM31145-3	76.25		0.059	0.130											
	SWM31145-4	76.50	Oil:	2.800	X	2.500	NIFF-S	STEEL	CHROME							
		0.110	0.098													
REFERENCE # MD332715		TOP	2ND	OIL												
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), 4G15,G15B,G4DJ / 1987-1994																
MIRAGE / 87-90 PRECIS / 90-94	SWM31063-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-530-0	75.50	TL:	58.60	PL:	60.00	CHK.
	SWM31063-1	75.75		0.059	0.112				11-530-1	75.75	CH:	29.40	PD:	18.00	DIA	
	SWM31063-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-530-2	76.00	DIST1:	-3.60	Head:	NONE	10.00
	SWM31063-3	76.25		0.059	0.130				11-530-3	76.25	DIST2:		Skirt:	NONE		
	SWM31063-4	76.50	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-530-4	76.50	DIST3:				
		0.157	0.128													
REFERENCE # 23040-21210 23040-24200 MD074725 MD156165 MD156169		TOP	2ND	OIL						REFERENCE # 23410-24110 MD099770						
1.5L (90CID,1468CC),SOHC,4CYL, 75.500MM (2.972"), G15B / 1985-1989																
MIRAGE / 85-86 PRECIS / 87-89	SWM31063-0	75.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-529-0	75.50	TL:	58.00	PL:	60.00	CHK.
	SWM31063-1	75.75		0.059	0.112				11-529-1	75.75	CH:	29.00	PD:	18.00	DIA	
	SWM31063-2	76.00	2nd:	1.500	X	3.300	T1	CAST IRON	PHOSPHATE	11-529-2	76.00	DIST1:	-0.70	Head:	NONE	7.00
	SWM31063-3	76.25		0.059	0.130				11-529-3	76.25	DIST2:		Skirt:	NONE		
	SWM31063-4	76.50	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-529-4	76.50	DIST3:				
		0.157	0.128													
REFERENCE # 23040-21210 23040-24200 MD074725 MD156165 MD156169		TOP	2ND	OIL						REFERENCE # 23410-21114 MD074715						
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1989-1989 TURBO																
MIRAGE / 89-89	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31049-1	82.55		0.047	0.122											
	SWM31049-2	82.80	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME							
	SWM31049-3	83.05		0.059	0.150											
	SWM31049-4	83.30	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED							
		0.118	0.112													
REFERENCE # 23040-33030 MD133495		TOP	2ND	OIL												



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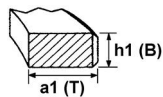
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
1.6L (97CID,1595CC),DOHC,4CYL, 82.300MM (3.240"), 4G61 / 1991-1992																						
MIRAGE / 91-92	SWM31049-0	82.30	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	DISC-11-546-0	82.30											
	SWM31049-1	82.55		0.047		0.122				DISC-11-546-1	82.55											
	SWM31049-2	82.80	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-546-2	82.80											
	SWM31049-3	83.05		0.059		0.150				DISC-11-546-3	83.05											
	SWM31049-4	83.30	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	DISC-11-546-4	83.30											
		0.118		0.112																		
	REFERENCE #		TOP	2ND		OIL			REFERENCE #													
	23040-33030							MD129932														
	MD133495																					
	1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1985-1986 TURBO																					
MIRAGE / 85-86	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-024-0	76.90											
	SWM31043-1	77.15		0.059		0.122				DISC-11-024-1	77.15											
	SWM31043-2	77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-024-2	77.40											
	SWM31043-3	77.65		0.059		0.138				DISC-11-024-3	77.65											
	SWM31043-4	77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-024-4	77.90											
		0.157		0.150																		
	REFERENCE #		TOP	2ND		OIL			REFERENCE #													
	MD012765							MD074471														
	1.6L (97CID,1597CC),SOHC,4CYL, 76.900MM (3.028"), G32B / 1987-1988 TURBO																					
	MIRAGE / 87-88	SWM31043-0	76.90	Top:	1.500	X	3.100	BF	STEEL	CHROME	DISC-11-532-0						76.90					
SWM31043-1		77.15	0.059		0.122		DISC-11-532-1				77.15											
SWM31043-2		77.40	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	DISC-11-532-2	77.40											
SWM31043-3		77.65		0.059		0.138				DISC-11-532-3	77.65											
SWM31043-4		77.90	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME	DISC-11-532-4	77.90											
		0.157		0.150																		
REFERENCE #		TOP	2ND		OIL			REFERENCE #														
MD012765							MD100254															
1.8L (107CID,1755CC),SOHC,4CYL, 80.600MM (3.173"), 4G37 / 1990-1994																						
ECLIPSE / 90-94		SWM31041-0	80.60	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-545-0	80.60	TL:	72.00	PL:	64.00	CHK.					
	SWM31041-1	80.85	0.059		0.136		11-545-1				80.85											
	SWM31041-2	81.10	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-545-2	81.10											
	SWM31041-3	81.35		0.059		0.146				11-545-3	81.35											
	SWM31041-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-545-4	81.60											
		0.157		0.130																		
	REFERENCE #		TOP	2ND		OIL			REFERENCE #													
	MD040465							MD100416		 												



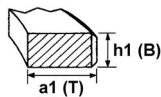
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.8L (110CID,1795CC),SOHC,4CYL, 80.600MM (3.173"), G62B / 1983-1983																
CORDIA / 83-83 TREDIA / 83-83	SWM31040-0	80.60	Top:	2.000	X	3.500	BF	CAST IRON	CHROME	DISC-11-033-0	80.60					
	SWM31040-1	80.85		0.079	0.138				DISC-11-033-1	80.85						
	SWM31040-2	81.10	2nd:	2.000	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-033-2	81.10					
	SWM31040-3	81.35		0.079	0.146				DISC-11-033-3	81.35						
	SWM31040-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-033-4	81.60					
		0.157		0.130												
REFERENCE # MD040610		TOP		2ND		OIL					REFERENCE # MD040571					
1.8L (110CID,1795CC),SOHC,4CYL, 80.600MM (3.173"), G62B / 1984-1988 TURBO																
CORDIA / 84-88 TREDIA / 84-88	SWM31041-0	80.60	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-034-0	80.60					
	SWM31041-1	80.85		0.059	0.136				DISC-11-034-1	80.85						
	SWM31041-2	81.10	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-034-2	81.10					
	SWM31041-3	81.35		0.059	0.146				DISC-11-034-3	81.35						
	SWM31041-4	81.60	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-034-4	81.60					
		0.157		0.130												
REFERENCE # MD040465		TOP		2ND		OIL					REFERENCE # MD074221					
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1993-1996																
MIRAGE / 93-96	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	11-767-0	81.00	TL: CH: DIST1: DIST2: DIST3:	60.00 30.80 0.20	PL: PD: Head: Skirt: NONE	58.00 19.00 NONE NONE	CHK. DIA 10.00
	SWM31079-1	81.25		0.047	0.126				11-767-1	81.25						
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	11-767-2	81.50					
	SWM31079-3	81.75		0.047	0.142				11-767-3	81.75						
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	11-767-4	82.00					
		0.110		0.106												
REFERENCE # MD173206		TOP		2ND		OIL					REFERENCE # MD318097					
1.8L (112CID,1834CC),SOHC,4CYL, 81.000MM (3.189"), 4G93 / 1997-2002																
MIRAGE / 97-02	SWM31079-0	81.00	Top:	1.200	X	3.200	BF	STEEL	CHROME	DISC-11-761-0	81.00					
	SWM31079-1	81.25		0.047	0.126					DISC-11-761-1	81.25					
	SWM31079-2	81.50	2nd:	1.200	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-761-2	81.50					
	SWM31079-3	81.75		0.047	0.142					DISC-11-761-3	81.75					
	SWM31079-4	82.00	Oil:	2.800	X	2.700	NIFF-S	STEEL	CHROME	DISC-11-761-4	82.00					
		0.110		0.106												
REFERENCE # MD173206		TOP		2ND		OIL					REFERENCE # MD314278 MD347630					

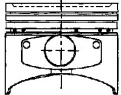
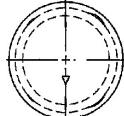
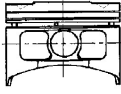
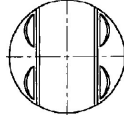
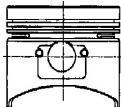
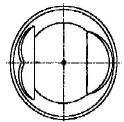

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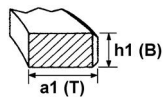
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (122CID,1997CC),DOCH,4CYL, 85.000MM (3.346"), 4G63 / 2003-2006																	
LANCER EVO. / 03-06	SWM31143-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons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



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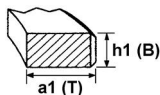
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (122CID,1997CC),DOHC,4CYL, 85.000MM (3.346"), 4G63 / 1995-1998 TURBO																	
ECLIPSE / 95-98	SWM31103-0	85.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-758-0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



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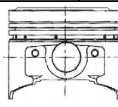
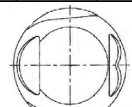
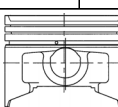
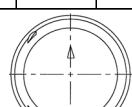
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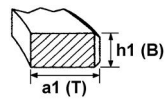
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1997CC),SOHC,4CYL, 85.000MM (3.346"), G63B / 1987-1992																
GALANT / 89-92	SWM31044-0	85.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-539-0	85.00	TL:	72.30	PL:	72.00	CHK.
MIGHTY MAX / 88-89	SWM31044-1	85.25		0.059		0.138				11-539-1	85.25	CH:	35.20	PD:	21.00	DIA
PICKUP / 87-89	SWM31044-2	85.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-539-2	85.50	DIST1:	-5.00	Head:	NONE	17.00
	SWM31044-3	85.75		0.059		0.150				11-539-3	85.75	DIST2:	-7.30	Skirt:	NONE	
	SWM31044-4	86.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-539-4	86.00	DIST3:				
	REFERENCE # MD100467		TOP	2ND		OIL				REFERENCE # MD100372						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 4B11,4B11T / 2008-2017																
LANCER / 08-15	SWG30042-0	86.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
LANCER EVO. / 08-14	SWG30042-1	86.25		0.047		0.120										
LANCER RALLIART / 09-15	SWG30042-2	86.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWG30042-3	86.75		0.047		0.142										
OUTLANDER SPORT / 11-17	SWG30042-4	87.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME							
	REFERENCE # 1110A436 23040-2C400 5191418AB		TOP	2ND		OIL										
2.0L (122CID,1999CC),SOHC,4CYL, 81.500MM (3.209"), 4G94 / 2002-2006																
LANCER / 02-06	SWM31164-0	81.50	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31164-1	81.75		0.047		0.106										
	SWM31164-2	82.00	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWM31164-3	82.25		0.047		0.134										
	SWM31164-4	82.50	Oil:	2.500	X	2.450	NIFF-H	STEEL	CHROME							
	REFERENCE # MD371157 MD371189		TOP	2ND		OIL										
2.3L (143CID,2346CC),SOHC,4CYL, 91.100MM (3.587"), 4D55 / 1983-1985 DIESEL																
PICKUP / 83-85	SDM31038-0	91.10	Top:	2.500	X	3.250	BF-K2	STEEL	CHROME	11-028-0	91.10	TL:	88.70	PL:	75.00	CHK.
	SDM31038-1	91.35		0.098		0.128				11-028-1	91.35	CH:	48.70	PD:	29.00	DIA
	SDM31038-2	91.60	2nd:	2.000	X	3.900	T1-K2	CAST IRON	CHROME	11-028-2	91.60	DIST1:	-2.30	Head:	NONE	10.00
	SDM31038-3	91.85		0.079		0.154				11-028-3	91.85	DIST2:	-2.60	Skirt:	NONE	
	SDM31038-4	92.10	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-028-4	92.10	DIST3:				
	REFERENCE # E5TZ 6149 A MD103391		TOP	2ND		OIL				REFERENCE # MD103308						



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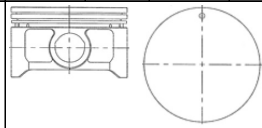
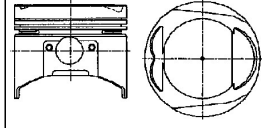
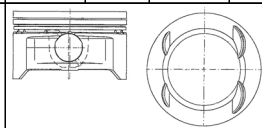
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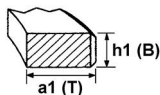
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO														
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1993-1996																								
MIGHTY MAX / 93-96 PICKUP / 93-94	SWM31072-0	86.50	Top:	1.200	X	3.100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



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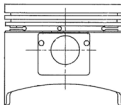
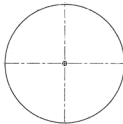
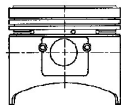
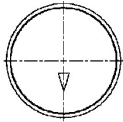
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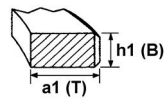
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), 4G64 / 1999-2005																
ECLIPSE / 00-05	SWM31116-0	86.50	Top:	1.200	X	3.100	BF-IB	STEEL	CHROME	11-804-0	86.50	TL:	53.50	PL:	62.00	CHK.
ECLIPSE SPYDER / 01-05	SWM31116-1	86.75		0.047	0.122					11-804-1	86.75	CH:	30.50	PD:	22.00	DIA
GALANT / 99-99	SWM31116-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-804-2	87.00	DIST1:		Head:	NONE	10.00
OUTLANDER / 03-04	SWM31116-3	87.25		0.059	0.150					11-804-3	87.25	DIST2:		Skirt:	MS	
	SWM31116-4	87.50	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-804-4	87.50	DIST3:				
				0.110		0.100										
REFERENCE # MD195828		TOP	2ND	OIL	REFERENCE # MD357066 MD357067											
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G64B / 1984-1986																
GALANT / 84-86	SWM31037-0	86.50	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-537-0	86.50					
	SWM31037-1	86.75		0.059	0.136					DISC-11-537-1	86.75					
	SWM31037-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	DISC-11-537-2	87.00					
	SWM31037-3	87.25		0.059	0.150					DISC-11-537-3	87.25					
	SWM31037-4	87.50	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-537-4	87.50					
				0.157		0.130										
REFERENCE # MD085346		TOP	2ND	OIL	REFERENCE # MD068759											
2.4L (143CID,2350CC),SOHC,4CYL, 86.500MM (3.406"), G64B / 1987-1992																
GALANT / 87-88	SWM31037-0	86.50	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-538-0	86.50	TL:	72.40	PL:	72.00	CHK.
MIGHTY MAX / 90-92	SWM31037-1	86.75		0.059	0.136					11-538-1	86.75	CH:	34.90	PD:	21.00	DIA
VAN / 87-91	SWM31037-2	87.00	2nd:	1.500	X	3.800	TUC	CAST IRON	PHOSPHATE	11-538-2	87.00	DIST1:	0.50	Head:	NONE	15.00
	SWM31037-3	87.25		0.059	0.150					11-538-3	87.25	DIST2:	0.30	Skirt:	NONE	
	SWM31037-4	87.50	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	11-538-4	87.50	DIST3:				
				0.157		0.130										
REFERENCE # MD085346		TOP	2ND	OIL	REFERENCE # 23410-32610 MD105377											
2.4L (144CID,2359CC),DOHC,4CYL, 88.000MM (3.465"), 4B12 / 2008-2017																
LANCER / 09-15	SWG30041-0	88.00	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	11-908-0	88.00	TL:	51.50	PL:	58.00	CHK.
OUTLANDER / 08-13	SWG30041-1	88.25		0.047	0.120					11-908-1	88.25	CH:	27.20	PD:	21.00	DIA
OUTLANDER SPORT / 15-17	SWG30041-2	88.50	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE	11-908-2	88.50	DIST1:	-1.50	Head:	NONE	15.00
	SWG30041-3	88.75		0.047	0.142					11-908-3	88.75	DIST2:	-3.30	Skirt:	MS	
	SWG30041-4	89.00	Oil:	2.000	X	2.450	NIFF-H	STEEL	CHROME	11-908-4	89.00	DIST3:				
				0.079		0.096										
REFERENCE # 1110A822 23040-25200 5191424AA		TOP	2ND	OIL	REFERENCE # 23410-25211 5191340AA											



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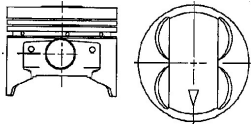
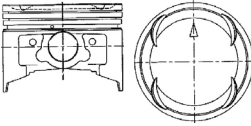
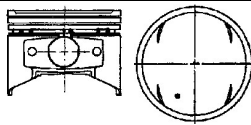
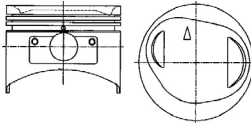
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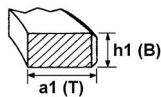
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (145CID,2378CC),SOHC,4CYL, 87.000MM (3.425"), 4G69 / 2004-2012																
ECLIPSE / 06-11 ECLIPSE SPYDER / 06-11 GALANT / 05-12 LANCER / 04-06 OUTLANDER / 04-06	SWM31161-0	87.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWM31161-1	87.25		0.047	0.122											
	SWM31161-2	87.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE							
	SWM31161-3	87.75		0.047	0.134											
	SWM31161-4	88.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED							
REFERENCE # 1110A966		TOP		2ND		OIL										
																
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1983-1985																
MONTERO / 83-83 PICKUP / 83-85	SWM31047-0	91.10	Top:	2.000	X	3.500	BF	DUCTILE IRON	CHROME	11-031-0	91.10	TL:	77.20	PL:	75.00	CHK.
	SWM31047-1	91.35		0.079	0.138	11-031-1				91.35	CH:	35.20	PD:	22.00	DIA	
	SWM31047-2	91.60	2nd:	2.000	X	3.800	T1	CAST IRON	CHROME	11-031-2	91.60	DIST1:		Head:	NONE	37.50
	SWM31047-3	91.85		0.079	0.150	11-031-3				91.85	DIST2:		Skirt:	NONE		
	SWM31047-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-031-4	92.10	DIST3:				
REFERENCE # MD025080 MD026835		TOP		2ND		OIL		REFERENCE # MD026921		 						
																
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1983-1989																
STARION / 83-89	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	DISC-11-544-0	91.10					
	SWM31039-1	91.35		0.059	0.130	DISC-11-544-1				91.35						
	SWM31039-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-544-2	91.60					
	SWM31039-3	91.85		0.059	0.150	DISC-11-544-3				91.85						
	SWM31039-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	DISC-11-544-4	92.10					
REFERENCE # AM15-11-SC0 MD061258 MD076170		TOP		2ND		OIL		REFERENCE # MD128450								
																
2.6L (156CID,2555CC),SOHC,4CYL, 91.100MM (3.587"), G54B / 1984-1989																
MIGHTY MAX / 88-89 MONTERO / 84-89 PICKUP / 86-89	SWM31039-0	91.10	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-035-0	91.10	TL:	78.30	PL:	79.00	CHK.
	SWM31039-1	91.35		0.059	0.130	11-035-1				91.35	CH:	36.00	PD:	22.00	DIA	
	SWM31039-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-035-2	91.60	DIST1:	0.30	Head:	NONE	25.00
	SWM31039-3	91.85		0.059	0.150	11-035-3				91.85	DIST2:		Skirt:	NONE		
	SWM31039-4	92.10	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-035-4	92.10	DIST3:				
REFERENCE # AM15-11-SC0 MD061258 MD076170		TOP		2ND		OIL		REFERENCE # AM01-11-SA0 AM15-11-SA0 MD071172		 						
																



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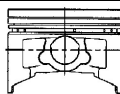
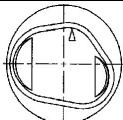
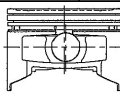
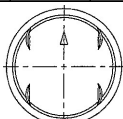
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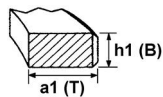
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72 / 1991-1999																
3000GT / 91-99 DIAMANTE / 92-95	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-543-0	91.10	TL:	66.50	PL:	64.00	CHK. DIA 15.00
	SWM31078-1	91.35		0.047		0.130				11-543-1	91.35	CH:	32.00	PD:	22.00	
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-543-2	91.60	DIST1:	0.50	Head:	NONE	
	SWM31078-3	91.85		0.059		0.150				11-543-3	91.85	DIST2:	Skirt:	NONE		
	SWM31078-4	92.10		Oil:		3.000				2.900	11-543-4	92.10	DIST3:			
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
MD158334							MD307958									
MD301716																
MD329755																
MD334192																
3.0L (181CID,2972CC),DOHC,6CYL, 91.100MM (3.587"), 6G72T / 1991-1999																
3000GT / 91-99	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-547-0	91.10	TL:	65.90	PL:	64.00	CHK. DIA 15.00
	SWM31078-1	91.35		0.047		0.130				11-547-1	91.35	CH:	31.90	PD:	22.00	
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-547-2	91.60	DIST1:	-3.40	Head:	NONE	
	SWM31078-3	91.85		0.059		0.150				11-547-3	91.85	DIST2:	Skirt:	NONE		
	SWM31078-4	92.10		Oil:		3.000				2.900	11-547-4	92.10	DIST3:			
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
MD158334							MD307972									
MD301716																
MD329755																
MD334192																
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 4G72,6G72 / 1995-1998 TURBO																
MONTERO / 95-96 MONTERO SPORT / 97-98	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-762-0	91.10	TL:	65.80	PL:	64.00	CHK. DIA 20.00
	SWM31078-1	91.35		0.047		0.130				11-762-1	91.35	CH:	31.80	PD:	22.00	
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-762-2	91.60	DIST1:	-3.20	Head:	NONE	
	SWM31078-3	91.85		0.059		0.150				11-762-3	91.85	DIST2:	Skirt:	NONE		
	SWM31078-4	92.10		Oil:		3.000				2.900	11-762-4	92.10	DIST3:			
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
MD158334							MD318501									
MD301716																
MD329755																
MD334192																
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1988-1993																
GALANT SIGMA / 88-90 MIGHTY MAX / 90-93 MONTERO / 89-93 PICKUP / 90-93 SIGMA / 89-90	SWM31080-0	91.10	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-549-0	91.10	TL:	68.20	PL:	64.00	CHK. DIA 8.00
	SWM31080-1	91.35		0.059		0.128				11-549-1	91.35	CH:	32.20	PD:	22.00	
	SWM31080-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-549-2	91.60	DIST1:	-3.00	Head:	NONE	
	SWM31080-3	91.85		0.059		0.150				11-549-3	91.85	DIST2:	Skirt:	NONE		
	SWM31080-4	92.10		Oil:		4.000				3.250	11-549-4	92.10	DIST3:			
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
23040-35010							23410-35114									
23040-35500							23410-35144									
MD104936							23410-35214									
MD104939							23410-35244									
							MD119671									
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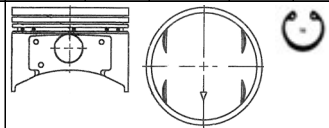
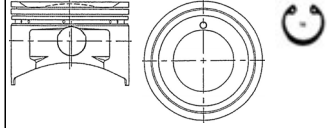
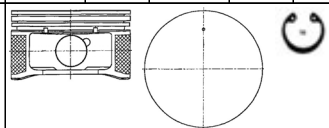
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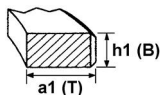
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO																						
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1992-1996																																
DIAMANTE / 92-96	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-542-0	91.10																					
	SWM31078-1	91.35		0.047	0.130	DISC-11-542-1				91.35																						
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	DISC-11-542-2	91.60																					
	SWM31078-3	91.85		0.059	0.150	DISC-11-542-3				91.85																						
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	DISC-11-542-4	92.10																					
		0.118		0.114																												
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																								
	MD158334								MD307944																							
	MD301716																															
	MD329755																															
MD334192																																
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1994-1999																																
3000GT / 97-99 MONTERO / 94-94 PICKUP / 94-94	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-707 -0	91.10	TL:	66.00	PL:	64.00	CHK.																
	SWM31078-1	91.35		0.047	0.130	11-707 -1				91.35																						
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-707 -2	91.60						CH:	32.00	PD:	22.00	DIA											
	SWM31078-3	91.85		0.059	0.150	11-707 -3				91.85																						
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-707 -4	92.10											DIST1:	-2.30	Head:	NONE	16.00						
		0.118		0.114	DIST2:	-7.10				Skirt:	NONE																					
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																								
	MD158334								MD197808																		 					
	MD301716																															
	MD329755																															
MD334192																																
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 1999-1999																																
GALANT / 99-99	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME			Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.																				
	SWM31078-1	91.35		0.047	0.130																											
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME																							
	SWM31078-3	91.85		0.059	0.150																											
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME																							
		0.118		0.114																												
	REFERENCE #		TOP	2ND		OIL																										
	MD158334																															
	MD301716																															
	MD329755																															
MD334192																																
3.0L (181CID,2972CC),SOHC,6CYL, 91.100MM (3.587"), 6G72 / 2000-2005																																
ECLIPSE / 00-05 ECLIPSE SPYDER / 01-05 GALANT / 00-03 MONTERO SPORT / 00-03	SWM31078-0	91.10	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-817-0	91.10	TL:	64.20	PL:	64.00	CHK.																
	SWM31078-1	91.35		0.047	0.130	11-817-1				91.35																						
	SWM31078-2	91.60	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-817-2	91.60						CH:	30.20	PD:	22.00	DIA											
	SWM31078-3	91.85		0.059	0.150	11-817-3				91.85																						
	SWM31078-4	92.10	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-817-4	92.10											DIST1:	-1.30	Head:	NONE	15.00						
		0.118		0.114	DIST2:					Skirt:	NONE																					
	REFERENCE #		TOP	2ND		OIL		REFERENCE #																								
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	MD301716																															
	MD329755																															
MD334192																																



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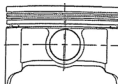
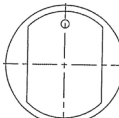
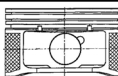
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.5L (213CID,3496CC),DOHC,6CYL, 93.000MM (3.661"), 6G74 / 1994-1996																	
MONTERO / 94-96	SWM31121-0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



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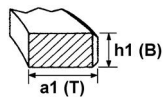
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.8L (234CID,3828CC),SOHC,6CYL, 95.000MM (3.740"), 6G75 / 2003-2011																
ECLIPSE / 06-11	SWM31148-0	95.00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

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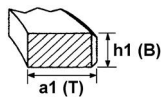
1.2L (75CID,1237CC),4CYL, 75.000MM (2.953"), A12A / 1980-1981																
210 / 80-81	SWN30073-0	75.00	Top:	2.000	X	3.200	T1	DUCTILE IRON	CHROME	DISC-11-037-0	75.00					
	SWN30073-1	75.25		0.079		0.126				DISC-11-037-1	75.25					
	SWN30073-2	75.50	2nd:	2.000	X	3.200	T1	CAST IRON	PHOSPHATE	DISC-11-037-2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



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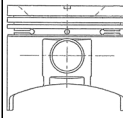
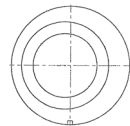
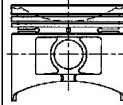
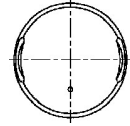
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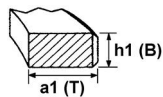
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (79CID,1288CC),4CYL, 73.000MM (2.874"), A13 / 1974-1974																
B210 / 74-74	SWN30026-0	73.00	Top:	2.000	X	3.000	T1	CAST IRON	CHROME	DISC-11-041-0	73.00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



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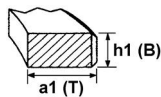
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.5L (91CID,1488CC),4CYL, 76.000MM (2.992"), A15 / 1979-1980																	
210 / 79-80	SWN30052-0	76.00	Top:	1.200	X	3.050	BF	STEEL	CHROME	DISC-11-048-0	76.00			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



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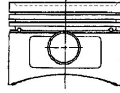
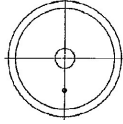
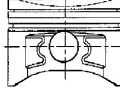
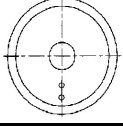
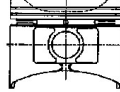
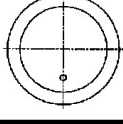
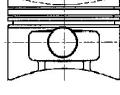
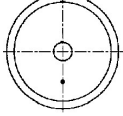
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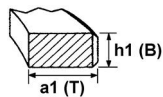
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.6L (97CID,1595CC),4CYL, 83.000MM (3.268"), L16 / 1973-1973																
620 / 73-73	SWN30014-0	83.00	Top:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-054-0	83.00	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



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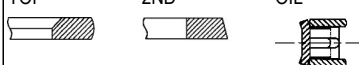
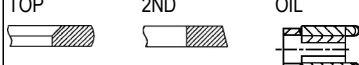
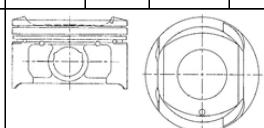
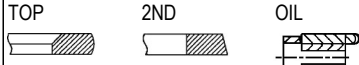
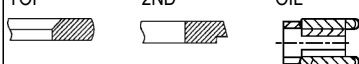
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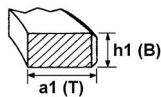
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.6L (97CID,1597CC),DOHC,4CYL, 76.000MM (2.992"), GA16DE / 1991-1994																	
NX / 91-93 SENTRA / 91-94	SWN30104-0	76.00	Top:	1.500	X	3.300	BF	DUCTILE IRON	CHROME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



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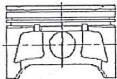
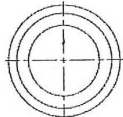
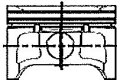
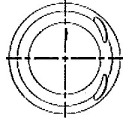
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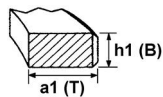
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), CA16DE / 1987-1987																
PULSAR / 87-87	SWN30111-0	78.00	Top:	1.500	X	2.900	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30111-1	78.25		0.059		0.114										
	SWN30111-2	78.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE							
	SWN30111-3	78.75		0.059		0.134										
	SWN30111-4	79.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	CHROME							
REFERENCE # 12033-55M00		TOP 2ND OIL														
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), HR16DE / 2009-2012																
VERSA / 09-12	SWN30196-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME	11-893-0	78.00	TL:	46.80	PL:	53.50	CHK.
	SWN30196-1	78.25		0.047		0.096				11-893-1	78.25	CH:	28.50	PD:	19.00	DIA
	SWN30196-2	78.50	2nd:	1.200	X	2.700	T1	CAST IRON	PHOSPHATE	11-893-2	78.50	DIST1:	-4.50	Head:	AH	8.00
	SWN30196-3	78.75		0.047		0.106				11-893-3	78.75	DIST2:		Skirt:	MS	
	SWN30196-4	79.00	Oil:	2.000	X	2.300	NIFF-H	STEEL	CHROME	11-893-4	79.00	DIST3:				
REFERENCE # 12033-EE000		TOP 2ND OIL						REFERENCE # A2010-ED500								
1.6L (98CID,1598CC),DOHC,4CYL, 78.000MM (3.071"), HR16DE / 2013-2017																
VERSA / 13-17	SWN30196-0	78.00	Top:	1.200	X	2.450	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30196-1	78.25		0.047		0.096										
	SWN30196-2	78.50	2nd:	1.200	X	2.700	T1	CAST IRON	PHOSPHATE							
	SWN30196-3	78.75		0.047		0.106										
	SWN30196-4	79.00	Oil:	2.000	X	2.300	NIFF-H	STEEL	CHROME							
REFERENCE # 12033-EE000		TOP 2ND OIL														
1.6L (99CID,1618CC),DOHC,4CYL, 79.700MM (3.138"), MR16DDT / 2011-2015 TURBO																
JUKE / 11-15	SWN30186-0	79.70	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30186-1	79.95		0.047		0.098										
	SWN30186-2	80.20	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE							
	SWN30186-3	80.45		0.039		0.106										
	SWN30186-4	80.70	Oil:	2.000	X	2.400	NIFF-H	STEEL	NITRIDED							
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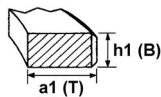
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.7L (103CID,1680CC),4CYL, 80.000MM (3.150"), CD17 / 1983-1986 DIESEL																
SENTRA / 83-86	SDN30088-0	80.00	Top:	1.750	X	2.850	BF-IB	STEEL	CHROME	DISC-11-056-0	80.00					
	SDN30088-1	80.25		0.069		0.112				DISC-11-056-1	80.25					
	SDN30088-2	80.50	2nd:	2.000	X	3.300	T1-IC	CAST IRON	CHROME	DISC-11-056-2	80.50					
	SDN30088-3	80.75		0.079		0.130				DISC-11-056-3	80.75					
	SDN30088-4	81.00	Oil:	3.000	X	3.250	E-BC16	STEEL	NITRIDED	DISC-11-056-4	81.00					
				0.118		0.128										
REFERENCE # 12033-16A10		TOP	2ND			OIL			REFERENCE # 12010-17A02							
																
1.8L (108CID,1769CC),DOHC,4CYL, 80.000MM (3.150"), QG18DE / 2000-2002																
SENTRA / 00-02	SWN30142-0	80.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-869-0	80.00	TL:	53.70	PL:	51.50	CHK.
	SWN30142-1	80.25		0.047		0.112				11-869-1	80.25	CH:	29.10	PD:	19.00	DIA
	SWN30142-2	80.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-869-2	80.50	DIST1:	-4.70	Head:	AH	12.50
	SWN30142-3	80.75		0.047		0.134				11-869-3	80.75	DIST2:		Skirt:	NONE	
	SWN30142-4	81.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-869-4	81.00	DIST3:				
				0.098		0.102										
REFERENCE # 12033-5M001 12033-5M060		TOP	2ND			OIL			REFERENCE # A2010-5M010							
																
1.8L (108CID,1769CC),DOHC,4CYL, 80.000MM (3.150"), QG18DE / 2003-2006																
SENTRA / 03-06	SWN30142-0	80.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-876-0	80.00	TL:	53.70	PL:	52.00	CHK.
	SWN30142-1	80.25		0.047		0.112				11-876-1	80.25	CH:	29.20	PD:	18.99	DIA
	SWN30142-2	80.50	2nd:	1.200	X	3.400	T1	CAST IRON	PHOSPHATE	11-876-2	80.50	DIST1:	-4.80	Head:	ARL	10.00
	SWN30142-3	80.75		0.047		0.134				11-876-3	80.75	DIST2:		Skirt:	NONE	
	SWN30142-4	81.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-876-4	81.00	DIST3:				
				0.098		0.102										
REFERENCE # 12033-5M001 12033-5M060		TOP	2ND			OIL			REFERENCE # A2010-F4670							
																
1.8L (108CID,1770CC),SOHC,4CYL, 85.000MM (3.346"), L18 / 1973-1974																
610 / 73-73 620 / 74-74 710 / 74-74	SWN30020-0	85.00	Top:	2.000	X	3.050	BF	STEEL	CHROME	DISC-11-057-0	85.00					
	SWN30020-1	85.25		0.079		0.120				DISC-11-057-1	85.25					
	SWN30020-2	85.50	2nd:	2.000	X	4.200	T1	CAST IRON	PHOSPHATE	DISC-11-057-2	85.50					
	SWN30020-3	85.75		0.079		0.165				DISC-11-057-3	85.75					
	SWN30020-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-057-4	86.00					
				0.157		0.128										
REFERENCE # 12033-A8702		TOP	2ND			OIL			REFERENCE # 12010-U2001							
																



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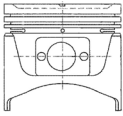
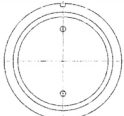
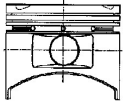
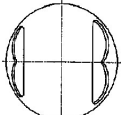
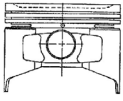
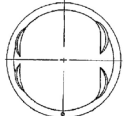
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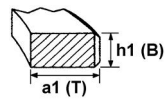
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (110CID,1797CC),DOHC,4CYL, 84.000MM (3.307"), MR18DE / 2007-2014																
Cube / 09-14 VERSA / 07-12	SWN30154-0	84.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-849-0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



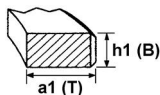
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), L20B / 1980-1980																
720 / 80-80 PICKUP / 80-80	SWN30048-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	11-060-0	85.00	TL:	78.00	PL:	72.00	CHK.
	SWN30048-1	85.25		0.079		0.154				11-060-1	85.25	CH:	38.00	PD:	21.00	DIA
	SWN30048-2	85.50	2nd:	2.000	X	4.200	T1	CAST IRON	PHOSPHATE	11-060-2	85.50	DIST1:	-3.00	Head:	NONE	15.00
	SWN30048-3	85.75		0.079		0.165				11-060-3	85.75	DIST2:		Skirt:	NONE	
	SWN30048-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-060-4	86.00	DIST3:				
		0.157	0.128													
REFERENCE # 12033-U6001 12033-W0815		TOP 2ND OIL   								REFERENCE # 12010-04W11	 					
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), Z20 / 1983-1986																
720 / 83-86 PICKUP / 83-86	SWN30086-0	85.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-066-0	85.00					
	SWN30086-1	85.25		0.059		0.120				DISC-11-066-1	85.25					
	SWN30086-2	85.50	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	DISC-11-066-2	85.50					
	SWN30086-3	85.75		0.059		0.146				DISC-11-066-3	85.75					
	SWN30086-4	86.00	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	DISC-11-066-4	86.00					
		0.157	0.124													
REFERENCE # 12033-N8510 12033-N8520		TOP 2ND OIL   								REFERENCE # 12010-82W11 12010-W4001						
2.0L (119CID,1952CC),SOHC,4CYL, 85.000MM (3.346"), Z20E,Z20S / 1980-1981																
200SX / 80-81 510 / 80-81	SWN30086-0	85.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-064-0	85.00	TL:	67.00	PL:	72.00	CHK.
	SWN30086-1	85.25		0.059		0.120				11-064-1	85.25	CH:	32.00	PD:	21.00	DIA
	SWN30086-2	85.50	2nd:	1.500	X	3.700	T1	CAST IRON	PHOSPHATE	11-064-2	85.50	DIST1:	-1.50	Head:	NONE	20.00
	SWN30086-3	85.75		0.059		0.146				11-064-3	85.75	DIST2:	-2.50	Skirt:	NONE	
	SWN30086-4	86.00	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	11-064-4	86.00	DIST3:				
		0.157	0.124													
REFERENCE # 12033-N8510 12033-N8520		TOP 2ND OIL   								REFERENCE # 12010-N8701	 					
2.0L (120CID,1974CC),SOHC,4CYL, 84.500MM (3.327"), CA20E / 1984-1989																
200SX / 84-88 STANZA / 84-89	SWN30053-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-062-0	84.50	TL:	65.00	PL:	61.00	CHK.
	SWN30053-1	84.75		0.059		0.120				11-062-1	84.75	CH:	30.00	PD:	20.00	DIA
	SWN30053-2	85.00	2nd:	1.500	X	3.700	T1	CAST IRON	CHROME	11-062-2	85.00	DIST1:	-2.20	Head:	NONE	30.00
	SWN30053-3	85.25		0.059		0.146				11-062-3	85.25	DIST2:		Skirt:	NONE	
	SWN30053-4	85.50	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-062-4	85.50	DIST3:				
		0.157	0.120													
REFERENCE # 12033-04E10		TOP 2ND OIL   								REFERENCE # 12010-10F11	 					



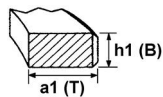
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.0L (120CID,1974CC),SOHC,4CYL, 84.500MM (3.327"), CA20S / 1982-1983																	
STANZA / 82-83	SWN30053-0	84.50	Top:	1.500	X	3.050	BF	STEEL	CHROME	DISC-11-063-0	84.50						
	SWN30053-1	84.75		0.059		0.120				DISC-11-063-1	84.75						
	SWN30053-2	85.00	2nd:	1.500	X	3.700	T1	CAST IRON	CHROME	DISC-11-063-2	85.00						
	SWN30053-3	85.25		0.059		0.146				DISC-11-063-3	85.25						
	SWN30053-4	85.50	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-063-4	85.50						
		0.157		0.120													
	REFERENCE # 12033-04E10		TOP	2ND		OIL			REFERENCE # 12010-D1811								
2.0L (121CID,1982CC),OHV,4CYL, 87.200MM (3.433"), U20 / 1967-1970																	
SRL 311 / 67-70	SWN30024-0	87.20	Top:	2.000	X	4.050	BF	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30024-1	87.45		0.079		0.159											
	SWN30024-2	87.70	2nd:	2.000	X	4.050	ES-TUC	CAST IRON	PHOSPHATE								
	SWN30024-3	87.95		0.079		0.159											
	SWN30024-4	88.20	Oil:	4.000	X	3.800	NIFF-S	STEEL	CHROME								
		0.157		0.150													
	REFERENCE # 12033-25502		TOP	2ND		OIL											
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1991-1998																	
200SX / 95-98 NX / 91-93 SENTRA / 91-94	SWN30102-0	86.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-602-0	86.00	TL:	63.00	PL:	60.00	CHK.	
	SWN30102-1	86.25		0.059		0.120				11-602-1	86.25	CH:	32.00	PD:	22.00	DIA	
	SWN30102-2	86.50	2nd:	1.500	X	3.650	T1	CAST IRON	CHROME	11-602-2	86.50	DIST1:	-0.90	Head:	NONE	10.00	
	SWN30102-3	86.75		0.059		0.144				11-602-3	86.75	DIST2:		Skirt:	NONE		
	SWN30102-4	87.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	11-602-4	87.00	DIST3:					
		0.118		0.118													
	REFERENCE # 12033-53J01 12033-53J10		TOP	2ND		OIL			REFERENCE # A2010-63J00 A3020-63J00								
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), SR20DE / 1998-2001																	
SENTRA / 98-01	SWN30123-0	86.00	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWN30123-1	86.25		0.047		0.122											
	SWN30123-2	86.50	2nd:	1.200	X	3.700	T1	CAST IRON	CHROME								
	SWN30123-3	86.75		0.047		0.146											
	SWN30123-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED								
		0.098		0.112													
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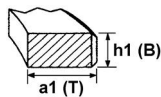
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1999CC),DOCH,4CYL, 84.000MM (3.307"), MR20DE / 2013-2017																
NV200 / 13-17 NV200 TAXI / 14-17	SWN30154-0	84.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30154-1	84.25		0.047		0.104										
	SWN30154-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE							
	SWN30154-3	84.75		0.047		0.118										
	SWN30154-4	85.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME							
		0.079		0.100												
REFERENCE #		TOP	2ND	OIL												
12033-EN200																
12033-EN20A																
2.0L (122CID,1999CC),DOHC,4CYL, 84.000MM (3.307"), MR20DE / 2007-2012																
SENTRA / 07-12	SWN30154-0	84.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30154-1	84.25		0.047		0.104										
	SWN30154-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	PHOSPHATE							
	SWN30154-3	84.75		0.047		0.118										
	SWN30154-4	85.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	CHROME							
		0.079		0.100												
REFERENCE #		TOP	2ND	OIL												
12033-EN200																
12033-EN20A																
2.2L (132CID,2164CC),4CYL, 83.000MM (3.268"), SD22 / 1981-1982 DIESEL																
720 / 81-82 PICKUP / 81-82	SDN31027-0	83.00	Top:	2.500	X	3.500	BF	DUCTILE IRON	CHROME	11-068-0	83.00	TL:	90.00	PL:	71.00	CHK.
	SDN31027-1	83.25		0.098		0.138				11-068-1	83.25	CH:	48.00	PD:	26.00	DIA
	SDN31027-2	83.50	2nd:	2.000	X	3.400	T1-IC	DUCTILE IRON	CHROME	11-068-2	83.50	DIST1:	-2.00	Head:	NONE	15.00
	SDN31027-3	83.75		0.079		0.134				11-068-3	83.75	DIST2:	-0.50	Skirt:	NONE	
	SDN31027-4	84.00	Oil:	4.500	X	3.900	E-BC3	CAST IRON	CHROME	11-068-4	84.00	DIST3:				
		0.177		0.154												
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
12033-R8112					12010-36W10											
2.2L (133CID,2181CC),SOHC,4CYL, 87.000MM (3.425"), Z22 / 1981-1982																
720 / 81-82 PICKUP / 81-82	SWN30054-0	87.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-069-0	87.00	TL:	72.00	PL:	64.00	CHK.
	SWN30054-1	87.25		0.059		0.120				11-069-1	87.25	CH:	32.00	PD:	21.00	DIA
	SWN30054-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-069-2	87.50	DIST1:	-2.50	Head:	NONE	10.00
	SWN30054-3	87.75		0.059		0.150				11-069-3	87.75	DIST2:		Skirt:	NONE	
	SWN30054-4	88.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-069-4	88.00	DIST3:				
		0.157		0.120												
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
12033-06W20					12010-06W21											



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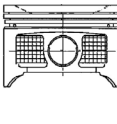
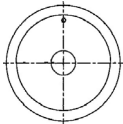
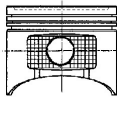
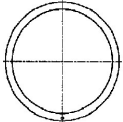
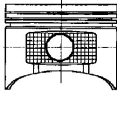
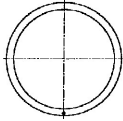
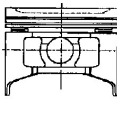
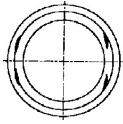
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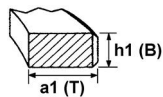
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO																		
2.2L (133CID,2181CC),SOHC,4CYL, 87.000MM (3.425"), Z22E / 1982-1983																												
200SX / 82-83	SWN30054-0	87.00	Top:	1.500	X	3.050	BF	STEEL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



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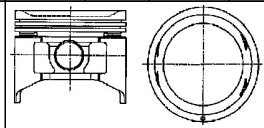
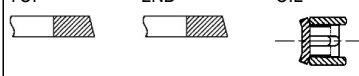
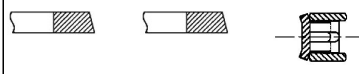
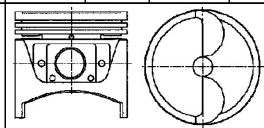
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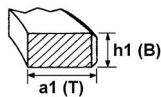
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (146CID,2389CC),DOHC,4CYL, 89.000MM (3.504"), KA24DE / 1998-2004																
ALTIMA / 98-01	SWN30143-0	89.00	Top:	1.200	X	3.250	BF-IB	STEEL	CHROME	11-755-0	89.00	TL:	60.90	PL:	57.00	CHK.
FRONTIER / 98-04	SWN30143-1	89.25		0.047	0.128	T1	CAST IRON	CHROME	11-755-1	89.25	CH:	34.00	PD:	20.99	DIA	
XTERRA / 00-04	SWN30143-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-755-2	89.50	DIST1:	-6.40	Head:	AH	10.00
	SWN30143-3	89.75		0.047	0.150	11-755-3				89.75	DIST2:	-6.50	Skirt:	NONE		
	SWN30143-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME	11-755-4	90.00	DIST3:				
				0.098		0.112										
REFERENCE #		TOP	2ND		OIL		REFERENCE #				  					
12033-0Z810					A2010-1Z102											
12033-9E000					A2010-8Z310											
					A2010-9E000											
					A2010-9E001											
					A2010-9E002											
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), KA24E / 1989-1992																
240SX / 89-90	SWN30096-0	89.00	Top:	1.500	X	3.270	BF-IB	STEEL	CHROME	11-600-0	89.00	TL:	68.30	PL:	59.00	CHK.
AXXESS / 90-90	SWN30096-1	89.25		0.059	0.129	T1	CAST IRON	CHROME	11-600-1	89.25	CH:	34.00	PD:	21.00	DIA	
STANZA / 90-92	SWN30096-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-600-2	89.50	DIST1:	-0.50	Head:	NONE	5.00
	SWN30096-3	89.75		0.059	0.154	11-600-3				89.75	DIST2:		Skirt:	NONE		
	SWN30096-4	90.00	Oil:	2.800	X	3.150	NIFF-S	STEEL	CHROME	11-600-4	90.00	DIST3:				
				0.110		0.124										
REFERENCE #		TOP	2ND		OIL		REFERENCE #				  					
12033-53F01					12010-40F10											
12033-70F00					A2010-30R10											
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), KA24E / 1990-1999																
PICKUP / 90-99	SWN30118-0	89.00	Top:	1.500	X	3.050	BF-IB	STEEL	CHROME	11-676-0	89.00	TL:	68.30	PL:	66.50	CHK.
	SWN30118-1	89.25		0.059	0.120	T1	CAST IRON	CHROME	11-676-1	89.25	CH:	34.00	PD:	21.00	DIA	
	SWN30118-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-676-2	89.50	DIST1:	-0.60	Head:	NONE	10.00
	SWN30118-3	89.75		0.059	0.154	11-676-3				89.75	DIST2:		Skirt:	NONE		
	SWN30118-4	90.00	Oil:	2.800	X	3.150	NIFF-S	STEEL	CHROME	11-676-4	90.00	DIST3:				
				0.110		0.124										
REFERENCE #		TOP	2ND		OIL		REFERENCE #				  					
12033-4E100					12010-86G20											
12033-86G00																
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), Z24 / 1983-1984																
720 / 83-84	SWN30059-0	89.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-070-0	89.00	TL:	72.00	PL:	72.00	CHK.
PICKUP / 83-84	SWN30059-1	89.25		0.059	0.128	T1	CAST IRON	CHROME	11-070-1	89.25	CH:	34.00	PD:	21.00	DIA	
	SWN30059-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	CHROME	11-070-2	89.50	DIST1:	-4.00	Head:	NONE	30.00
	SWN30059-3	89.75		0.059	0.154	11-070-3				89.75	DIST2:		Skirt:	NONE		
	SWN30059-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-070-4	90.00	DIST3:				
				0.157		0.126										
REFERENCE #		TOP	2ND		OIL		REFERENCE #				  					
12033-30W10					12010-30W11											



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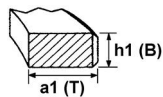
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (146CID,2389CC),SOHC,4CYL, 89.000MM (3.504"), Z24, Z24i / 1985-1989																
720 / 85-86	SWN30085-0	89.00	Top:	2.000	X	3.050	BF	STEEL	CHROME	11-238-0	89.00	TL:	70.40	PL:	66.50	CHK.
PATHFINDER / 87-87	SWN30085-1	89.25		0.079		0.120				11-238-1	89.25	CH:	33.80	PD:	21.00	DIA
PICKUP / 85-89	SWN30085-2	89.50	2nd:	1.500	X	3.900	T1	CAST IRON	PHOSPHATE	11-238-2	89.50	DIST1:	-4.00	Head:	NONE	10.00
VAN / 87-88	SWN30085-3	89.75		0.059		0.154				11-238-3	89.75	DIST2:		Skirt:	NONE	
	SWN30085-4	90.00	Oil:	4.000	X	3.200	NIFF-S	STEEL	CHROME	11-238-4	90.00	DIST3:				
				0.157		0.126										
REFERENCE # 12033-21G00 12033-21G10		TOP 2ND OIL			REFERENCE # 12010-83W11											
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1982-1984																
MAXIMA / 82-84	SWN30065-0	83.00	Top:	1.500	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-078-0	83.00					
	SWN30065-1	83.25		0.059		0.142				DISC-11-078-1	83.25					
	SWN30065-2	83.50	2nd:	1.500	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-078-2	83.50					
	SWN30065-3	83.75		0.059		0.142				DISC-11-078-3	83.75					
	SWN30065-4	84.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	DISC-11-078-4	84.00					
				0.157		0.120										
REFERENCE # 12033-W3100		TOP 2ND OIL			REFERENCE # 12010-51L01											
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1977-1978																
810 / 77-78	SWN30034-0	83.00	Top:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-073-0	83.00					
	SWN30034-1	83.25		0.079		0.150				DISC-11-073-1	83.25					
	SWN30034-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-073-2	83.50					
	SWN30034-3	83.75		0.079		0.150				DISC-11-073-3	83.75					
	SWN30034-4	84.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-073-4	84.00					
				0.157		0.154										
REFERENCE # 12033-A8600 12033-E3100		TOP 2ND OIL			REFERENCE # 12010-A8601											
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1979-1980																
810 / 79-80	SWN30034-0	83.00	Top:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	11-076-0	83.00	TL:	78.00	PL:	72.00	CHK.
	SWN30034-1	83.25		0.079		0.150				11-076-1	83.25	CH:	38.00	PD:	21.00	DIA
	SWN30034-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	11-076-2	83.50	DIST1:	-0.80	Head:	NONE	12.00
	SWN30034-3	83.75		0.079		0.150				11-076-3	83.75	DIST2:		Skirt:	NONE	
	SWN30034-4	84.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	11-076-4	84.00	DIST3:				
				0.157		0.154										
REFERENCE # 12033-A8600 12033-E3100		TOP 2ND OIL			REFERENCE # 12010-H2501											



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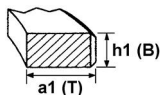
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO													
2.4L (146CID,2393CC),6CYL, 83.000MM (3.268"), L24E / 1981-1981																							
810 / 81-81 MAXIMA / 81-81	SWN30064-0	83.00	Top:	1.500	3.600	T1	CAST IRON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



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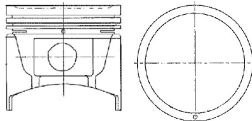
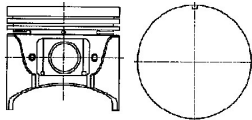
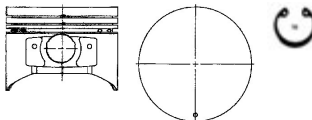
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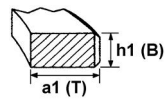
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2007-2013																
ALTIMA / 07-12	SWN30189-0	89.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-894-0	89.00	TL:	53.50	PL:	57.00	CHK.
ALTIMA HYBRID / 07-11	SWN30189-1	89.25		0.047	X	0.114				11-894-1	89.25	CH:	32.40	PD:	20.00	DIA
ROGUE / 08-13	SWN30189-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	PHOSPHATE	11-894-2	89.50	DIST1:	-6.60	Head:	AH	10.00
SENTRA SE-R / 07-12	SWN30189-3	89.75		0.047	X	0.150				11-894-3	89.75	DIST2:		Skirt:	MS	
	SWN30189-4	90.00	Oil:	2.000	X	2.250	NIFF-H	STEEL	NITRIDED	11-894-4	90.00	DIST3:				
				0.079	X	0.089										
REFERENCE # 12033-ET80B 12033-JA00B 12033-JG30A		TOP 2ND OIL								REFERENCE # A2010-JA00C						
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2013-2017																
ALTIMA / 13-17	SWN30189-0	89.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
ROGUE / 14-17	SWN30189-1	89.25		0.047	X	0.114										
	SWN30189-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	PHOSPHATE							
	SWN30189-3	89.75		0.047	X	0.150										
	SWN30189-4	90.00	Oil:	2.000	X	2.250	NIFF-H	STEEL	NITRIDED							
				0.079	X	0.089										
REFERENCE # 12033-ET80B 12033-JA00B 12033-JG30A		TOP 2ND OIL														
2.8L (168CID,2753CC),6CYL, 84.500MM (3.327"), LD28 / 1981-1983 DIESEL																
810 / 81-81	SDN30067-0	84.50	Top:	2.000	X	3.500	BF-IB	DUCTILE IRON	CHROME	DISC-11-086-0	84.50					
MAXIMA / 81-83	SDN30067-1	84.75		0.079	X	0.138				DISC-11-086-1	84.75					
	SDN30067-2	85.00	2nd:	2.000	X	3.500	T1-IC	CAST IRON	PHOSPHATE	DISC-11-086-2	85.00					
	SDN30067-3	85.25		0.079	X	0.138				DISC-11-086-3	85.25					
	SDN30067-4	85.50	Oil:	4.000	X	4.100	E-BC16	CAST IRON	CHROME	DISC-11-086-4	85.50					
				0.157	X	0.161										
REFERENCE # 12033-60L00		TOP 2ND OIL								REFERENCE # 12010-W2502						
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1975-1979																
280Z / 75-78	SWN30047-0	86.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	11-081-0	86.00	TL:	78.30	PL:	72.00	CHK.
280ZX / 79-79	SWN30047-1	86.25		0.079	X	0.154				11-081-1	86.25	CH:	38.00	PD:	21.00	DIA
	SWN30047-2	86.50	2nd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-081-2	86.50	DIST1:	-3.00	Head:	NONE	15.00
	SWN30047-3	86.75		0.079	X	0.159				11-081-3	86.75	DIST2:		Skirt:	NONE	
	SWN30047-4	87.00	3rd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-081-4	87.00	DIST3:				
			Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME							
				0.157	X	0.128										
REFERENCE # 12033-N4200 12033-P8370		TOP 2ND 3RD OIL								REFERENCE # 12010-Y4111 12010-Y4131						

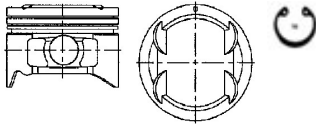


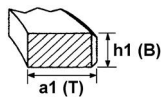
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1980-1980																	
280ZX / 80-80	SWN30047-0	86.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	11-082-0	86.00	TL:	78.20	PL:	72.00	CHK.	
	SWN30047-1	86.25		0.079		0.154				11-082-1	86.25	CH:	38.00	PD:	21.00		DIA
	SWN30047-2	86.50	2nd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-082-2	86.50	DIST1:	-2.00	Head:	NONE		
	SWN30047-3	86.75		0.079		0.159				11-082-3	86.75	DIST2:		Skirt:	NONE		
	SWN30047-4	87.00	3rd:	2.000	X	4.050	T1	CAST IRON	PHOSPHATE	11-082-4	87.00	DIST3:					
			Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME								
				0.157		0.128											
	REFERENCE #		TOP	2ND		3RD		OIL		REFERENCE #							
	12033-N4200									12010-Y8621							
	12033-P8370																
2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28E / 1981-1983																	
280ZX / 81-83	SWN30066-0	86.00	Top:	1.500	X	3.600	BF	DUCTILE IRON	CHROME	11-084-0	86.00	TL:	78.80	PL:	72.00	CHK.	
	SWN30066-1	86.25		0.059		0.142				11-084-1	86.25	CH:	38.50	PD:	21.00		DIA
	SWN30066-2	86.50	2nd:	2.000	X	4.050	TUC	CAST IRON	PHOSPHATE	11-084-2	86.50	DIST1:		Head:	NONE		
	SWN30066-3	86.75		0.079		0.159				11-084-3	86.75	DIST2:		Skirt:	NONE		
	SWN30066-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-084-4	87.00	DIST3:					
				0.157		0.128											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	12033-P7910									12010-P7912							
	12033-P9010																
	2.8L (168CID,2753CC),SOHC,6CYL, 86.000MM (3.386"), L28ET / 1981-1983 TURBO																
280ZX / 81-83	SWN30066-0	86.00	Top:	1.500	X	3.600	BF	DUCTILE IRON	CHROME	DISC-11-085-0	86.00						
	SWN30066-1	86.25		0.059		0.142				DISC-11-085-1	86.25						
	SWN30066-2	86.50	2nd:	2.000	X	4.050	TUC	CAST IRON	PHOSPHATE	DISC-11-085-2	86.50						
	SWN30066-3	86.75		0.079		0.159				DISC-11-085-3	86.75						
	SWN30066-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-085-4	87.00						
				0.157		0.128											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	12033-P7910									12010-P9012							
	12033-P9010																
	3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VE30DE / 1992-1994																
MAXIMA / 92-94	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-675-0	87.00	TL:	64.50	PL:	67.00	CHK.	
	SWN30058-1	87.25		0.059		0.122				11-675-1	87.25	CH:	32.00	PD:	22.00		DIA
	SWN30058-2	87.50	2nd:	1.500	X	3.800	T1	CAST IRON	CHROME	11-675-2	87.50	DIST1:		Head:	NONE		
	SWN30058-3	87.75		0.059		0.150				11-675-3	87.75	DIST2:		Skirt:	NONE		
	SWN30058-4	88.00	Oil:	2.800	X	3.000	NIFF-S	STEEL	NITRIDED	11-675-4	88.00	DIST3:					
				0.110		0.118											
	REFERENCE #		TOP	2ND		OIL		REFERENCE #									
	12033-17V01									A2010-96E00							
	12033-21V01																
	12033-96E01																
12033-F6511																	
F6XZ 6148 AA																	



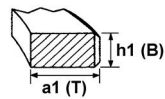
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2960CC),DOHC,6CYL, 87.000MM (3.425"), VG30DE / 1990-1996																
300ZX / 90-96	SWN30058-0	87.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-727-0	87.00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



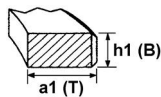
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2960CC),SOHC,6CYL, 87.000MM (3.425"), VG30E / 1987-1995																
200SX / 87-88	SWN30058-0	87.00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



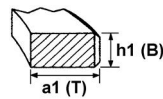
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO											
3.0L (182CID,2987CC),DOHC,6CYL, 93.000MM (3.661"), VQ30DE / 1995-2001																					
MAXIMA / 95-01	SWN30115-0	93.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	11-711-0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



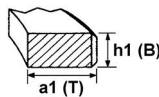
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2002-2009																
350Z ROADSTER / 03-06	SWN30131-0	95.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	11-860-0	95.50	TL:	53.90	PL:	58.00	CHK.
ALTIMA / 02-06	SWN30131-1	95.75		0.047	0.136	T1	CAST IRON	PHOSPHATE	11-860-1	95.75	CH:	29.50	PD:	22.00	DIA	
ALTIMA SE-R / 05-06	SWN30131-2	96.00	2nd:	1.200	X	4.100	T1	CAST IRON	PHOSPHATE	11-860-2	96.00	DIST1:	0.80	Head:	AH	6.00
MAXIMA / 02-08	SWN30131-3	96.25		0.047	0.161	NIFF-S	STEEL	CHROME	11-860-3	96.25	DIST2:		Skirt:	MS		
MURANO / 03-07	SWN30131-4	96.50	Oil:	2.500	X	2.750	NIFF-S	STEEL	CHROME	11-860-4	96.50	DIST3:				
QUEST / 04-09				0.098	0.108											
	REFERENCE #	TOP	2ND		OIL		REFERENCE #									
	12033-4W001						A2010-7Y001									
	12033-4W005						A2010-8J110									
	12033-8J100															
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2007-2017																
ALTIMA / 07-15	SWN30191-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	11-907-0	95.50	TL:	49.60	PL:	54.00	CHK.
MAXIMA / 09-17	SWN30191-1	95.75		0.047	0.122	TUC	CAST IRON	PHOSPHATE	11-907-1	95.75	CH:	29.00	PD:	22.00	DIA	
MURANO / 08-15	SWN30191-2	96.00	2nd:	1.200	X	4.100	TUC	CAST IRON	PHOSPHATE	11-907-2	96.00	DIST1:	-2.20	Head:	AH	10.00
QUEST / 11-15	SWN30191-3	96.25		0.047	0.161	NIFF-H	STEEL	NITRIDED	11-907-3	96.25	DIST2:		Skirt:	MS		
	SWN30191-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED	11-907-4	96.50	DIST3:				
				0.079	0.102											
	REFERENCE #	TOP	2ND		OIL		REFERENCE #									
	12033-JA10D						12010-9N00B									
	12033-JP00A						12010-9N00C									
	12033-JP10D						A2010-JA10A									
	12035-1EA0B						A2010-JA11B									
							A2010-JP00C									
							A2010-JP00D									
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35DE / 2013-2015																
PATHFINDER / 13-15	SWN30191-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30191-1	95.75		0.047	0.122	TUC	CAST IRON	PHOSPHATE								
	SWN30191-2	96.00	2nd:	1.200	X	4.100	TUC	CAST IRON	PHOSPHATE							
	SWN30191-3	96.25		0.047	0.161	NIFF-H	STEEL	NITRIDED								
	SWN30191-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
				0.079	0.102											
	REFERENCE #	TOP	2ND		OIL											
	12033-JA10D															
	12033-JP00A															
	12033-JP10D															
	12035-1EA0B															
3.5L (213CID,3498CC),DOHC,6CYL, 95.500MM (3.760"), VQ35HR / 2007-2008																
350Z ROADSTER / 07-08	SWN30162-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30162-1	95.75		0.047	0.122	TUC	CAST IRON	PHOSPHATE								
	SWN30162-2	96.00	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE							
	SWN30162-3	96.25		0.047	0.146	NIFF-H	STEEL	NITRIDED								
	SWN30162-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
				0.079	0.102											
	REFERENCE #	TOP	2ND		OIL											
	12033-JK20A															
	12033-JK20B															
	12033-JK20C															



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.7L (226CID,3696CC),DOHC,6CYL, 95.500MM (3.760"), VQ37VHR / 2009-2017																
370Z / 09-17	SWN30162-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30162-1	95.75		0.047		0.122										
	SWN30162-2	96.00	2nd:	1.200	X	3.700	TUC	CAST IRON	PHOSPHATE							
	SWN30162-3	96.25		0.047		0.146										
	SWN30162-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
		0.079		0.102												
REFERENCE #		TOP	2ND	OIL												
12033-JK20A																
12033-JK20B																
12033-JK20C																
4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2005-2011																
FRONTIER / 05-11	SWN30131-0	95.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	11-878-0	95.50	TL:	55.10	PL:	58.00	CHK.
PATHFINDER / 05-11	SWN30131-1	95.75		0.047		0.136				11-878-1	95.75	CH:	31.60	PD:	21.99	DIA
XTERRA / 05-11	SWN30131-2	96.00	2nd:	1.200	X	4.100	T1	CAST IRON	PHOSPHATE	11-878-2	96.00	DIST1:	-3.00	Head:	AH	6.00
	SWN30131-3	96.25		0.047		0.161				11-878-3	96.25	DIST2:		Skirt:	MS	
	SWN30131-4	96.50	Oil:	2.500	X	2.750	NIFF-S	STEEL	CHROME	11-878-4	96.50	DIST3:				
				0.098	0.108											
REFERENCE #		TOP	2ND	OIL		REFERENCE #										
12033-4W001						12010-EA200										
12033-4W005						12010-EA20B										
12033-8J100																
4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2012-2015																
FRONTIER / 12-15	SWN30191-0	95.50	Top:	1.200	X	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
NV1500 / 12-15	SWN30191-1	95.75		0.047		0.122										
NV2500HD / 12-15	SWN30191-2	96.00	2nd:	1.200	X	4.100	TUC	CAST IRON	PHOSPHATE							
PATHFINDER / 12-12	SWN30191-3	96.25		0.047		0.161										
XTERRA / 12-15	SWN30191-4	96.50	Oil:	2.000	X	2.600	NIFF-H	STEEL	NITRIDED							
				0.079		0.102										
REFERENCE #		TOP	2ND	OIL												
12033-JA10D																
12033-JP00A																
12033-JP10D																
12035-1EA0B																
5.6L (339CID,5552CC),DOHC,8CYL, 98.000MM (3.858"), VK56DE / 2004-2009																
ARMADA / 05-07	SWN30149-0	98.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-879-0	98.00	TL:	52.00	PL:	59.60	CHK.
PATHFINDER / 08-09	SWN30149-1	98.25		0.059		0.136				11-879-1	98.25	CH:	31.60	PD:	22.00	DIA
TITAN / 04-09	SWN30149-2	98.50	2nd:	1.500	X	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	Head:	AH	6.00
	SWN30149-3	98.75		0.059		0.169				11-879-3	98.75	DIST2:		Skirt:	MS	
	SWN30149-4	99.00	Oil:	2.500	X	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:				
				0.098	0.102											
REFERENCE #		TOP	2ND	OIL		REFERENCE #										
12033-7S001						A2010-7S000										
12033-7S01B																
12033-ZE00A																



NISSAN

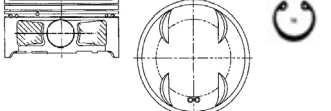
NISSAN

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

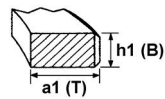
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SAAB

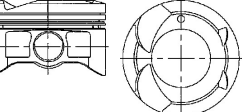
2.0L (122CID,1994CC),DOHC,4CYL, 92.000MM (3.622"), EJ20 / 2005-2005										
9-2X / 05-05	SWF20060-0	92.00	Top:	1.200	X	3.300	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability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

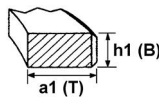
2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ253 / 2005-2006																
9-2X / 05-06	SWF20066-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-788-0	99.50	TL:	50.00	PL:	64.00	CHK.
	SWF20066-1	99.75		0.047	0.136	11-788-1				99.75	CH:	29.50	PD:	23.00	DIA	
	SWF20066-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-788-2	100.00	DIST1:	-1.70	Head:	NONE	10.00
	SWF20066-3	100.25		0.047	0.157	11-788-3				100.25	DIST2:	Skirt:	MS			
	SWF20066-4	100.50		Oil:	2.500	X				2.800	NIFF-S	STEEL	CHROME	11-788-4	100.50	DIST3:
REFERENCE #			TOP	2ND		OIL			REFERENCE #							
12033AB010									12006AB470							
12033AB250									12006AC070							

2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ255 / 2006-2006																
9-2X / 06-06	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-910-0	99.50	TL:	51.30	PL:	64.00	CHK.
	SWF20068-1	99.75		0.047	0.136	11-910-1				99.75	CH:	30.40	PD:	23.00	DIA	
	SWF20068-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-910-2	100.00	DIST1:	-3.20	Head:	AH	13.00
	SWF20068-3	100.25		0.047	0.157	11-910-3				100.25	DIST2:	-4.70	Skirt:	MS		
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-910-4	100.50	DIST3:	-5.40			
	REFERENCE #		TOP	2ND		OIL			REFERENCE #		  					
	12033AB340								12006AD210							
	12033AC000								12006AD810							



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2962CC),DOHC,6CYL, 86.000MM (3.386"), ELLESMERE L81 / 1999-2003																
9-5 / 00-03	SWG10016-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: <u>www.npramerica.com</u> for the latest product availability information.						
9-5 Sportcombi / 99-99	SWG10016-1	86.25		0.047	0.114											
	SWG10016-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWG10016-3	86.75		0.059	0.138											
	SWG10016-4	87.00	Oil:	3.000	X	3.050	NIFF-S	STEEL	NITRIDED							
	AM Ring Available			0.118	0.120											
	REFERENCE #		TOP	2ND	OIL											
	88 22 413															
	9118853															
5.3L (325CID,5328CC),OHV,8CYL, 96.000MM (3.780"), Vortec 5300 IV / 2005-2009																
9-7X / 05-09	SWG10005-0	96.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-899-0	96.00	TL:	59.30	PL:	65.00	CHK.
	SWG10005-1	96.25		0.059	0.130					11-899-1	96.25	CH:	33.60	PD:	23.96	DIA
	SWG10005-2	96.50	2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-899-2	96.50	DIST1:		Head:	AH	16.00
	SWG10005-3	96.75		0.059	0.157				11-899-3	96.75	DIST2:		Skirt:	MS		
		SWG10005-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-899-4	97.00	DIST3:			
	AM Ring Available			0.118	0.126											
	REFERENCE #		TOP	2ND	OIL						REFERENCE #					
	12456338										89017577					
	19208677															
	8-12456-338-0															
6.0L (364CID,5957CC),OHV,8CYL, 101.600MM (4.000"), Vortec 6000 LS2 / 2008-2009																
9-7X / 08-09	SWG10031-0	101.60	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: <u>www.npramerica.com</u> for the latest product availability information.						
	SWG10031-1	101.85		0.047	0.138											
	SWG10031-2	102.10	2nd:	1.500	X	4.200	TUC	CAST IRON	PHOSPHATE							
	SWG10031-3	102.35		0.059	0.165											
	SWG10031-4	102.60	Oil:	2.500	X	2.550	NIFF-H	STEEL	CHROME							
				0.098	0.100											
	REFERENCE #		TOP	2ND	OIL											
	19178307															
	8-89017-484-0															
	89017484															

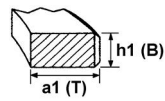
1.5L (91CID,1497CC),DOHC,4CYL, 75.000MM (2.953"), 1NZ-FE / 2004-2006																
xA / 04-06 xB / 04-06	SWT10192-0	75.00	Top:	1.200	X	2.500	BF	STEEL	NITRIDED	11-776-0	75.00	TL:	49.00	PL:	53.00	CHK.
	SWT10192-1	75.25		0.047		0.098				11-776-1	75.25	CH:	30.10	PD:	18.00	DIA
	SWT10192-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE	11-776-2	75.50	DIST1:	-6.20	Head:	NONE	10.00
	SWT10192-3	75.75		0.047		0.110				11-776-3	75.75	DIST2:	-2.20	Skirt:	NONE	
	SWT10192-4	76.00	Oil:	2.000	X	2.200	NIFF-H	STEEL	NITRIDED	11-776-4	76.00	DIST3:				
	REFERENCE #		TOP	2ND		OIL		REFERENCE #								
	13011-21041							13101-21030								
	13011-21120							13101-21160								



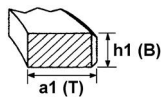
SCION

SCION

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FE / 2008-2014																	
xD / 08-14	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
	SWT10232-1	80.75		0.039		0.114											
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE								
	SWT10232-3	81.25		0.039		0.098											
	SWT10232-4	81.50	Oil:	1.500	X	1.950	NIFF-H	STEEL	CHROME		0.059	0.077					
REFERENCE #		TOP	2ND		OIL												
13011-0T010																	
13011-37110																	
19185554																	
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2005-2006																	
tC / 05-06	SWT10182-0	88.50	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-792-0	88.50	TL:	55.80	PL:	56.00	CHK.	
	SWT10182-1	88.75		0.047		0.106				11-792-1	88.75	CH:	33.70	PD:	22.00	DIA	
	SWT10182-2	89.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-792-2	89.00	DIST1:	-6.40	Head:	AH	4.00	
	SWT10182-3	89.25		0.047		0.126				11-792-3	89.25	DIST2:		Skirt:	MS		
	SWT10182-4	89.50	Oil:	2.000	X	2.450	NIFF-H	STEEL	NITRIDED	11-792-4	89.50	DIST3:					
				0.079		0.096											
REFERENCE #		TOP	2ND		OIL		REFERENCE #										
13011-23100								13211-28030-A0									
13011-28102								13211-28031-A0									
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2007-2015																	
tC / 07-10 xB / 08-15	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-896-0	88.50	TL:	55.80	PL:	56.00	CHK.	
	SDT10200-1	88.75		0.039		0.106				11-896-1	88.75	CH:	35.80	PD:	22.00	DIA	
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	11-896-2	89.00	DIST1:	-7.80	Head:	AH	6.00	
	SDT10200-3	89.25		0.039		0.106				11-896-3	89.25	DIST2:		Skirt:	MS		
	SDT10200-4	89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-896-4	89.50	DIST3:					
				0.079		0.108											
REFERENCE #		TOP	2ND		OIL		REFERENCE #										
13011-0H031								13211-28112-A0									
13011-28161																	
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE / 2011-2015																	
tC / 11-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	11-897-0	90.00	TL:	53.30	PL:	56.00	CHK.	
	SDT10226-1	90.25		0.039		0.114				11-897-1	90.25	CH:	34.80	PD:	22.00	DIA	
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE	11-897-2	90.50	DIST1:	3.70	Head:	AH	10.00	
	SDT10226-3	90.75		0.039		0.106				11-897-3	90.75	DIST2:	-4.40	Skirt:	MS		
	SDT10226-4	91.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-897-4	91.00	DIST3:					
				0.079		0.108											
REFERENCE #		TOP	2ND		OIL		REFERENCE #										
13011-36020								13211-0V011-A0									
								13211-0V012-B0									
								13211-36032-C0									



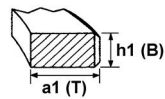
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.2L (73CID,1189CC),SOHC,3CYL, 78.000MM (3.071"), EF12 / 1987-1994																
JUSTY / 87-94	SWF20054-0	78.00	Top:	1.200	X	3.000	BF	STEEL	CHROME	DISC-11-620-0	78.00					
	SWF20054-1	78.25		0.047		0.118				DISC-11-620-1	78.25					
	SWF20054-2	78.50	2nd:	1.500	X	3.300	T1	CAST IRON	CHROME	DISC-11-620-2	78.50					
	SWF20054-3	78.75		0.059		0.130				DISC-11-620-3	78.75					
	SWF20054-4	79.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	DISC-11-620-4	79.00					
		0.110		0.110												
	REFERENCE # 12033KA151 480035800		TOP	2ND		OIL			REFERENCE # 12006KA062							
1.4L (83CID,1361CC),OHV,4CYL, 85.000MM (3.346"), EA63 / 1973-1974																
LEONE 1400 / 73-74	SWF20014-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-135-0	85.00					
	SWF20014-1	85.25		0.079		0.154				DISC-11-135-1	85.25					
	SWF20014-2	85.50	2nd:	2.000	X	3.900	T1	CAST IRON	PHOSPHATE	DISC-11-135-2	85.50					
	SWF20014-3	85.75		0.079		0.154				DISC-11-135-3	85.75					
	SWF20014-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-135-4	86.00					
		0.157		0.128												
	REFERENCE # 380030100		TOP	2ND		OIL			REFERENCE # 380050100							
1.4L (83CID,1361CC),OHV,4CYL, 85.000MM (3.346"), EA63 / 1976-1976																
LEONE 1600 / 76-76	SWF20014-0	85.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-136-0	85.00					
	SWF20014-1	85.25		0.079		0.154				DISC-11-136-1	85.25					
	SWF20014-2	85.50	2nd:	2.000	X	3.900	T1	CAST IRON	PHOSPHATE	DISC-11-136-2	85.50					
	SWF20014-3	85.75		0.079		0.154				DISC-11-136-3	85.75					
	SWF20014-4	86.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-136-4	86.00					
		0.157		0.128												
	REFERENCE # 380030100		TOP	2ND		OIL			REFERENCE # 380057000							
1.6L (97CID,1595CC),OHV,4CYL, 92.000MM (3.622"), EA71 / 1976-1984																
BRAT / 78-80 DL SEDAN / 78-81 FE / 79-79 GF / 78-79 GL SEDAN / 79-80 GLF / 80-80 LEONE 1600 / 76-84	SWF20017-0	92.00	Top:	2.000	X	4.000	BF	CAST IRON	CHROME	DISC-11-137-0	92.00					
	SWF20017-1	92.25		0.079		0.157				DISC-11-137-1	92.25					
	SWF20017-2	92.50	2nd:	2.000	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-137-2	92.50					
	SWF20017-3	92.75		0.079		0.157				DISC-11-137-3	92.75					
	SWF20017-4	93.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-137-4	93.00					
		0.157		0.154												
	REFERENCE # 380034310 380034320		TOP	2ND		OIL			REFERENCE # 380054300 380054320							



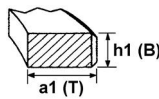
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (109CID,1781CC),OHV,4CYL, 92.000MM (3.622"), EA81 / 1980-1986																
BRAT / 81-86	SWF20057-0	92.00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

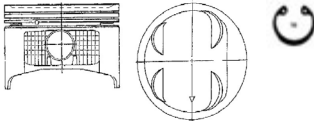


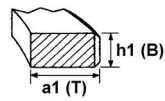
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.8L (109CID,1781CC),SOHC,4CYL, 92.000MM (3.622"), EA82 / 1987-1990																
GL MFI / 87-88	SWF20057-0	92.00	Top:	1.200	X	3.300	BF	STEEL	CHROME	DISC-11-712-0	92.00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

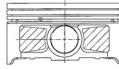
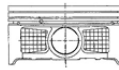


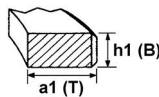
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1995CC),DOHC,4CYL, 84.000MM (3.307"), FB20 / 2012-2017																
IMPREZA / 12-15	SWF20073-0	84.00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

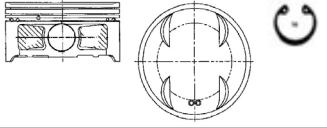
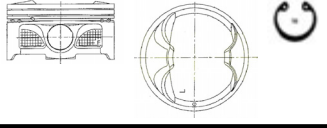


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ255 / 2004-2012																
BAJA / 04-06 Forester / 04-12 IMPREZA / 06-12 IMPREZA WRX / 07-12 LEGACY / 05-12 OUTBACK H4 / 05-09	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-910-0	99.50	TL:	51.30	PL:	64.00	CHK.
	SWF20068-1	99.75		0.047		0.136				11-910-1	99.75	CH:	30.40	PD:	23.00	DIA
	SWF20068-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-910-2	100.00	DIST1:	-3.20	Head:	AH	13.00
	SWF20068-3	100.25		0.047		0.157				11-910-3	100.25	DIST2:	-4.70	Skirt:	MS	
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-910-4	100.50	DIST3:	-5.40			
		0.079	0.106													
REFERENCE # 12033AB340 12033AC000		TOP			2ND			OIL			REFERENCE # 12006AD210 12006AD810		  			
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ257 / 2004-2010																
IMPREZA WRX STi / 04-10	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-911-0	99.50	TL:	51.40	PL:	64.00	CHK.
	SWF20068-1	99.75		0.047		0.136				11-911-1	99.75	CH:	30.70	PD:	22.99	DIA
	SWF20068-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-911-2	100.00	DIST1:	-2.00	Head:	AH	15.00
	SWF20068-3	100.25		0.047		0.157				11-911-3	100.25	DIST2:	-5.10	Skirt:	MS	
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-911-4	100.50	DIST3:	-5.40			
		0.079	0.106													
REFERENCE # 12033AB340 12033AC000		TOP			2ND			OIL			REFERENCE # 12006AC390		  			
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ25D / 1996-1996																
LEGACY / 96-96	SWF20064-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	DISC-11-789-0	99.50					
	SWF20064-1	99.75		0.047		0.136				DISC-11-789-1	99.75					
	SWF20064-2	100.00	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	DISC-11-789-2	100.00					
	SWF20064-3	100.25		0.059		0.157				DISC-11-789-3	100.25					
	SWF20064-4	100.50	Oil:	2.800	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-789-4	100.50					
		0.110	0.122													
REFERENCE # 12033AA760		TOP			2ND			OIL			REFERENCE # 12013AB020 12018AB020					
2.5L (150CID,2457CC),DOHC,4CYL, 99.500MM (3.917"), EJ25D / 1997-1999																
Forester / 98-98 IMPREZA / 98-98 LEGACY / 97-99	SWF20064-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	DISC-11-787-0	99.50					
	SWF20064-1	99.75		0.047		0.136				DISC-11-787-1	99.75					
	SWF20064-2	100.00	2nd:	1.500	X	4.000	TUC	CAST IRON	PHOSPHATE	DISC-11-787-2	100.00					
	SWF20064-3	100.25		0.059		0.157				DISC-11-787-3	100.25					
	SWF20064-4	100.50	Oil:	2.800	X	3.100	NIFF-S	STEEL	CHROME	DISC-11-787-4	100.50					
		0.110	0.122													
REFERENCE # 12033AA760		TOP			2ND			OIL			REFERENCE # 12006AA410					

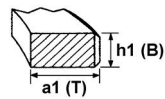


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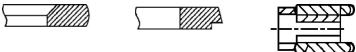
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ251,EJ252,EJ259 / 2000-2006																
BAJA / 03-06	SWF20066-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-788-0	99.50	TL:	50.00	PL:	64.00	CHK.
Forester / 00-03	SWF20066-1	99.75		0.047	0.136					11-788-1	99.75	CH:	29.50	PD:	23.00	DIA
IMPREZA / 00-02	SWF20066-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-788-2	100.00	DIST1:	-1.70	Head:	NONE	10.00
LEGACY / 00-04	SWF20066-3	100.25		0.047	0.157					11-788-3	100.25	DIST2:		Skirt:	MS	
OUTBACK H4 / 00-04	SWF20066-4	100.50	Oil:	2.500	X	2.800	NIFF-S	STEEL	CHROME	11-788-4	100.50	DIST3:				
				0.098		0.110										
REFERENCE # 12033AB010 12033AB250		TOP	2ND	OIL	REFERENCE # 12006AB470 12006AC070											
2.5L (150CID,2457CC),SOHC,4CYL, 99.500MM (3.917"), EJ253 / 2006-2011																
IMPREZA / 06-11	SWF20068-0	99.50	Top:	1.200	X	3.450	BF-IB	STEEL	CHROME	11-921-0	99.50	TL:	51.50	PL:	64.00	CHK.
LEGACY / 06-09	SWF20068-1	99.75		0.047	0.136					11-921-1	99.75	CH:	30.70	PD:	23.00	DIA
OUTBACK H4 / 06-09	SWF20068-2	100.00	2nd:	1.200	X	4.000	TUC	CAST IRON	PHOSPHATE	11-921-2	100.00	DIST1:	3.30	Head:	NONE	10.00
	SWF20068-3	100.25		0.047	0.157					11-921-3	100.25	DIST2:	-3.50	Skirt:	MS	
	SWF20068-4	100.50	Oil:	2.000	X	2.700	NIFF-H	STEEL	CHROME	11-921-4	100.50	DIST3:				
				0.079		0.106										
REFERENCE # 12033AB340 12033AC000		TOP	2ND	OIL	REFERENCE # 12013AB250 12018AB250											
3.0L (183CID,2999CC),DOHC,6CYL, 89.200MM (3.512"), EZ30,EZ30D / 2001-2009																
B9 TRIBECA / 06-07	SWF20070-0	89.20	Top:	1.200	X	3.050	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
LEGACY / 08-09	SWF20070-1	89.45		0.047	0.120											
OUTBACK H6 / 01-09	SWF20070-2	89.70	2nd:	1.200	X	3.600	TUC	CAST IRON	PHOSPHATE							
	SWF20070-3	89.95		0.047	0.142											
	SWF20070-4	90.20	Oil:	2.500	X	2.900	NIFF-H	STEEL	CHROME							
				0.098		0.114										
REFERENCE # 12033AB130		TOP	2ND	OIL												
3.3L (202CID,3318CC),DOHC,6CYL, 96.900MM (3.815"), EG33 / 1992-1997																
SVX / 92-97	SWF20067-0	96.90	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWF20067-1	97.15		0.059	0.128											
	SWF20067-2	97.40	2nd:	1.500	X	3.900	TUC	CAST IRON	PHOSPHATE							
	SWF20067-3	97.65		0.059	0.154											
	SWF20067-4	97.90	Oil:	3.000	X	3.300	NIFF-S	STEEL	CHROME							
				0.118		0.130										
REFERENCE # 12033AA390 12033AA450		TOP	2ND	OIL												

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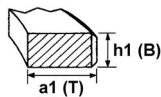
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO
3.6L (221CID,3629CC),DOHC,6CYL, 92.000MM (3.622"), EZ36 / 2008-2015										
B9 TRIBECA / 08-14	SWF20069-0	92.00	Top: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

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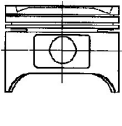
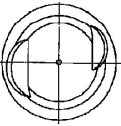
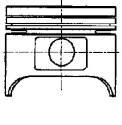
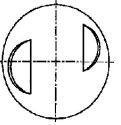
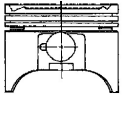
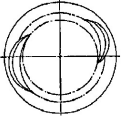
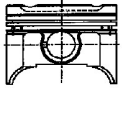
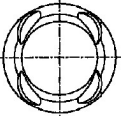
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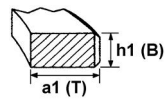
1.3L (79CID,1298CC),DOHC,4CYL, 74.000MM (2.913"), G13K / 1989-1994																
SWIFT / 89-94	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-627-0	74.00	TL:	56.20	PL:	61.00	CHK.
	SWS20143-1	74.25		0.047		0.112				11-627-1	74.25	CH:	29.20	PD:	19.00	DIA
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-627-2	74.50	DIST1:		Head:	NONE	14.00
	SWS20143-3	74.75		0.059		0.126			11-627-3	74.75	DIST2:		Skirt:	NONE		
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-627-4	75.00	DIST3:				
	REFERENCE #		TOP	2ND			OIL			REFERENCE #						
	12140-82X50									12111-86501-0A0						
	91173873															
	96068389															
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BA / 1989-1997																
SAMURAI / 90-92 SWIFT / 89-97	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-626-0	74.00	TL:	56.20	PL:	65.00	CHK.
	SWS20143-1	74.25		0.047		0.112				11-626-1	74.25	CH:	29.30	PD:	17.00	DIA
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-626-2	74.50	DIST1:	-4.80	Head:	NONE	12.00
	SWS20143-3	74.75		0.059		0.126			11-626-3	74.75	DIST2:		Skirt:	NONE		
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-626-4	75.00	DIST3:				
	REFERENCE #		TOP	2ND			OIL			REFERENCE #						
	12140-82X50									12100-61840-0A0						
	91173873									12100-63850-0A0						
	96068389															
1.3L (79CID,1298CC),SOHC,4CYL, 74.000MM (2.913"), G13BB / 1998-2001																
SWIFT / 98-01	SWS20186-0	74.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-769-0	74.00	TL:	56.00	PL:	61.50	CHK.
	SWS20186-1	74.25		0.047		0.106				11-769-1	74.25	CH:	29.00	PD:	19.00	DIA
	SWS20186-2	74.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-769-2	74.50	DIST1:	-1.80	Head:	NONE	10.00
	SWS20186-3	74.75		0.047		0.126			11-769-3	74.75	DIST2:		Skirt:	NONE		
	SWS20186-4	75.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-769-4	75.00	DIST3:				
	REFERENCE #		TOP	2ND			OIL			REFERENCE #						
	12140-63E50									12111-63E10-0A0						



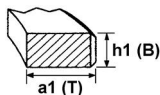
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (81CID,1324CC),SOHC,4CYL, 74.000MM (2.913"), G13A / 1986-1988																
SAMURAI / 86-88	SWS20141-0	74.00	Top:	1.200	X	2.800	BF	STEEL	CHROME	11-625-0	74.00	TL:	55.30	PL:	65.00	CHK.
	SWS20141-1	74.25		0.047		0.110				11-625-1	74.25	CH:	28.40	PD:	17.00	DIA
	SWS20141-2	74.50	2nd:	1.500	X	3.200	T1	CAST IRON	PHOSPHATE	11-625-2	74.50	DIST1:	-1.30	Head:	NONE	10.00
	SWS20141-3	74.75		0.059		0.126				11-625-3	74.75	DIST2:		Skirt:	NONE	
	SWS20141-4	75.00	Oil:	2.800	X	2.800	MIFF-S	STEEL	CHROME	11-625-4	75.00	DIST3:				
	REFERENCE # 12140-82X50		TOP	2ND				OIL		REFERENCE # 12111-83000-0A0 96066387						
1.3L (81CID,1324CC),SOHC,4CYL, 74.000MM (2.913"), G13A / 1989-1989																
SIDEKICK / 89-89	SWS20143-0	74.00	Top:	1.200	X	2.850	BF-IB	STEEL	CHROME	11-628-0	74.00	TL:	55.30	PL:	62.00	CHK.
	SWS20143-1	74.25		0.047		0.112				11-628-1	74.25	CH:	28.30	PD:	17.00	DIA
	SWS20143-2	74.50	2nd:	1.500	X	3.200	T1-IB	CAST IRON	PHOSPHATE	11-628-2	74.50	DIST1:		Head:	NONE	7.50
	SWS20143-3	74.75		0.059		0.126				11-628-3	74.75	DIST2:		Skirt:	NONE	
	SWS20143-4	75.00	Oil:	2.800	X	2.550	NIFF-S	STEEL	CHROME	11-628-4	75.00	DIST3:				
	REFERENCE # 12140-82X50 91173873 96068389		TOP	2ND				OIL		REFERENCE # 12111-82010-0A0						
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), G16A / 1989-1995																
SIDEKICK / 89-95	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-629-0	75.00	TL:	58.20	PL:	63.00	CHK.
	SWS20142-1	75.25		0.047		0.106				11-629-1	75.25	CH:	28.50	PD:	19.00	DIA
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-629-2	75.50	DIST1:	-3.30	Head:	NONE	10.00
	SWS20142-3	75.75		0.059		0.126				11-629-3	75.75	DIST2:	-4.70	Skirt:	NONE	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-629-4	76.00	DIST3:				
	REFERENCE # 12140-60A50 91173290 96067669		TOP	2ND				OIL		REFERENCE # 12111-60A02-0A0 96067795						
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), G16KV / 1992-1997																
SIDEKICK / 92-97	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	11-630-0	75.00	TL:	55.20	PL:	61.50	CHK.
	SWS20142-1	75.25		0.047		0.106				11-630-1	75.25	CH:	28.20	PD:	19.00	DIA
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	11-630-2	75.50	DIST1:	-4.10	Head:	NONE	21.00
	SWS20142-3	75.75		0.059		0.126				11-630-3	75.75	DIST2:		Skirt:	NONE	
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	11-630-4	76.00	DIST3:				
	REFERENCE # 12140-60A50 91173290 96067669		TOP	2ND				OIL		REFERENCE # 12100-71820-0A0 96068583						

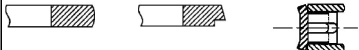
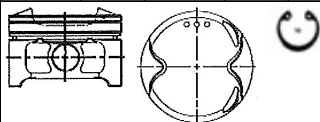


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO									
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), G16KV / 1996-1998																			
X-90 / 96-98	SWS20142-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	DISC-11-805-0	75.00								
	SWS20142-1	75.25		0.047		0.106				DISC-11-805-1	75.25								
	SWS20142-2	75.50	2nd:	1.500	X	3.200	TUC	CAST IRON	PHOSPHATE	DISC-11-805-2	75.50								
	SWS20142-3	75.75		0.059		0.126				DISC-11-805-3	75.75								
	SWS20142-4	76.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	NITRIDED	DISC-11-805-4	76.00								
		0.110		0.110															
REFERENCE # 12140-60A50 91173290 96067669		TOP			2ND			OIL			REFERENCE # 12100-61850-0B0								
1.6L (97CID,1590CC),SOHC,4CYL, 75.000MM (2.953"), G16S / 1995-2001																			
ESTEEM / 95-01 SIDEKICK / 98-98 VITARA / 99-01	SWS20190-0	75.00	Top:	1.200	X	2.700	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.									
	SWS20190-1	75.25		0.047		0.106													
	SWS20190-2	75.50	2nd:	1.200	X	2.800	TUC	CAST IRON	PHOSPHATE										
	SWS20190-3	75.75		0.047		0.110													
	SWS20190-4	76.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED										
		0.098		0.096															
REFERENCE # 12140-61G00 12140-61G50		TOP			2ND			OIL											
1.8L (112CID,1840CC),DOHC,4CYL, 84.000MM (3.307"), J18A / 1996-2002																			
ESTEEM / 99-02 SIDEKICK / 96-98	SWS20178-0	84.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-775-0	84.00	TL:	58.90	PL:	58.00	CHK.	10.00		
	SWS20178-1	84.25		0.047		0.114				11-775-1	84.25	CH:	29.40	PD:	21.00	DIA			
	SWS20178-2	84.50	2nd:	1.500	X	3.550	TUC	CAST IRON	CHROME	11-775-2	84.50	DIST1:	-4.90	Head:	NONE				
	SWS20178-3	84.75		0.059		0.140				11-775-3	84.75	DIST2:		Skirt:	NONE				
	SWS20178-4	85.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-775-4	85.00	DIST3:							
		0.098		0.112															
REFERENCE # 12140-86FA0 91174392		TOP			2ND			OIL			REFERENCE # 12100-65810-0A0 12100-86830-0A0								
2.0L (122CID,1995CC),DOHC,4CYL, 84.000MM (3.307"), J20A / 1999-2003																			
AERIO / 02-03 VITARA / 99-03	SWS20178-0	84.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-775-0	84.00	TL:	58.90	PL:	58.00	CHK.	10.00		
	SWS20178-1	84.25		0.047		0.114				11-775-1	84.25	CH:	29.40	PD:	21.00	DIA			
	SWS20178-2	84.50	2nd:	1.500	X	3.550	TUC	CAST IRON	CHROME	11-775-2	84.50	DIST1:	-4.90	Head:	NONE				
	SWS20178-3	84.75		0.059		0.140				11-775-3	84.75	DIST2:		Skirt:	NONE				
	SWS20178-4	85.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-775-4	85.00	DIST3:							
		0.098		0.112															
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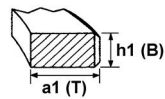


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1995CC),DOHC,4CYL, 84.000MM (3.307"), J20B / 2007-2012																
SX-4 / 07-12 SX-4 CROSSOVER / 07-12	SWS20216-0	84.00	Top:	1.200	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20216-1	84.25		0.047	0.098											
	SWS20216-2	84.50	2nd:	1.200	X	3.000	TUC	CAST IRON	CHROME							
	SWS20216-3	84.75		0.047	0.118											
	SWS20216-4	85.00	Oil:	2.500	X	2.450	NIFF-H	STEEL	NITRIDED							
REFERENCE # 12140-65J00		TOP	2ND	OIL												
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), KL5J / 2004-2008																
FORENZA / 04-08 RENO / 05-08	SWG10019-0	86.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWG10019-1	86.25		0.047	0.114											
	SWG10019-2	86.50	2nd:	1.500	X	3.500	TUC	CAST IRON	PHOSPHATE							
	SWG10019-3	86.75		0.059	0.138											
	SWG10019-4	87.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	CHROME							
REFERENCE # 12140-85Z00 21018813 96180138		TOP	2ND	OIL												
2.4L (146CID,2393CC),DOHC,4CYL, 92.000MM (3.622"), J24B / 2009-2012																
GRAND VITARA / 09-12 KIZASHI / 10-12	SWS20215-0	92.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20215-1	92.25		0.047	0.122											
	SWS20215-2	92.50	2nd:	1.000	X	3.100	TUC	DUCTILE IRON	PHOSPHATE							
	SWS20215-3	92.75		0.039	0.122											
	SWS20215-4	93.00	Oil:	2.000	X	2.550	NIFF-H	STEEL	NITRIDED							
REFERENCE # 12140-78K00		TOP	2ND	OIL												
2.5L (152CID,2488CC),DOHC,4CYL, 89.000MM (3.504"), QR25DE / 2009-2012																
EQUATOR / 09-12	SWN30140-0	89.00	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	11-881-0	89.00	TL:	61.50	PL:	57.00	CHK.
	SWN30140-1	89.25		0.047	0.122					11-881-1	89.25	CH:	32.90	PD:	19.99	DIA
	SWN30140-2	89.50	2nd:	1.200	X	3.800	T1	CAST IRON	CHROME	11-881-2	89.50	DIST1:	5.90	Head:	ARL	9.50
	SWN30140-3	89.75		0.047	0.150					11-881-3	89.75	DIST2:		Skirt:	MS	
	SWN30140-4	90.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-881-4	90.00	DIST3:				
REFERENCE # 12033-8H301 12033-8J000 12033-EA000 12033-EA00B		TOP	2ND	OIL				REFERENCE # A2010-EA000 A2010-EA001								

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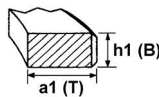
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (152CID,2494CC),DOHC,6CYL, 84.000MM (3.307"), H25A / 1999-2005																
GRAND VITARA / 99-05	SWS20207-0	84.00	Top:	1.200	X	2.900	BF-IB	STEEL	NITRIDED	11-883-0	84.00	TL:	58.90	PL:	58.00	CHK.
	SWS20207-1	84.25		0.047	0.114	11-883-1				84.25	CH:	29.40	PD:	21.00	DIA	
	SWS20207-2	84.50	2nd:	1.500	X	3.550	TUC	CAST IRON	CHROME	11-883-2	84.50	DIST1:	-4.90	Head:	NONE	10.00
	SWS20207-3	84.75		0.059	0.140	11-883-3				84.75	DIST2:	Skirt:	NONE			
	SWS20207-4	85.00	Oil:	2.500	X	2.850	NIFF-S	STEEL	NITRIDED	11-883-4	85.00	DIST3:				
		0.098	0.112													
REFERENCE # 12140-86FA0		TOP 2ND OIL 							REFERENCE # 12100-86831-0A0							
2.7L (167CID,2736CC),DOHC,6CYL, 88.000MM (3.465"), H27A / 2006-2008																
GRAND VITARA / 07-08 XL-7 / 06-06	SWS20210-0	88.00	Top:	1.200	X	3.300	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWS20210-1	88.25		0.047	0.130											
	SWS20210-2	88.50	2nd:	1.500	X	3.300	TUC	CAST IRON	CHROME							
	SWS20210-3	88.75		0.059	0.130											
	SWS20210-4	89.00	Oil:	2.800	X	2.850	NIFF-S	STEEL	NITRIDED							
		0.110	0.112													
REFERENCE # 12140-52D00		TOP 2ND OIL 														
4.0L (241CID,3954CC),DOHC,6CYL, 95.500MM (3.760"), VQ40DE / 2009-2012																
EQUATOR / 09-12	SWN30131-0	95.50	Top:	1.200	X	3.450	BF	STEEL	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWN30131-1	95.75		0.047	0.136											
	SWN30131-2	96.00	2nd:	1.200	X	4.100	T1	CAST IRON	PHOSPHATE							
	SWN30131-3	96.25		0.047	0.161											
	SWN30131-4	96.50	Oil:	2.500	X	2.750	NIFF-S	STEEL	CHROME							
		0.098	0.108													
REFERENCE # 12033-4W001 12033-4W005 12033-8J100		TOP 2ND OIL 														

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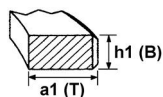
1.2L (71CID,1166CC), OHV, 4CYL, 75.000MM (2.953"), 3K-C / 1973-1979													
COROLLA / 73-79	SWT10052-0	75.00	Top: 2.000	X	3.600	BF	STEEL	CHROME	11-140-0	75.00	TL: 75.00	PL: 61.00	CHK.
	SWT10052-1	75.25	0.079		0.142				11-140-1	75.25	CH: 36.00	PD: 18.00	DIA
	SWT10052-2	75.50	2nd: 2.000	X	3.600	T1	CAST IRON	PHOSPHATE	11-140-2	75.50	DIST1:	Head: NONE	12.00
	SWT10052-3	75.75	0.079		0.142				11-140-3	75.75	DIST2:	Skirt: NONE	
	SWT10052-4	76.00	Oil: 4.000	X	3.050	NIFF-S	STEEL	CHROME	11-140-4	76.00	DIST3:		
	0.157				0.120								
REFERENCE # 13011-13030 13011-24011		TOP	2ND	OIL	REFERENCE # 13101-24010 13101-24011-02								



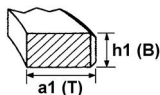
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.3L (79CID,1290CC),OHV,4CYL, 75.000MM (2.953"), 4K-C / 1981-1982																
STARLET / 81-82	SWT10052-0	75.00	Top:	2.000	X	3.600	BF	STEEL	CHROME	11-140-0	75.00	TL:	75.00	PL:	61.00	CHK.
	SWT10052-1	75.25		0.079		0.142				11-140-1	75.25	CH:	36.00	PD:	18.00	DIA
	SWT10052-2	75.50	2nd:	2.000	X	3.600	T1	CAST IRON	PHOSPHATE	11-140-2	75.50	DIST1:		Head:	NONE	12.00
	SWT10052-3	75.75		0.079		0.142				11-140-3	75.75	DIST2:		Skirt:	NONE	
	SWT10052-4	76.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	CHROME	11-140-4	76.00	DIST3:				
			0.157	0.120												
	REFERENCE #		TOP	2ND	OIL		REFERENCE #									
	13011-13030						13101-24010									
	13011-24011						13101-24011-02									
	1.3L (79CID,1290CC),SOHC,4CYL, 75.000MM (2.953"), 4K-E / 1983-1984															
STARLET / 83-84	SWT10109-0	75.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-141-0	75.00	TL:	69.00	PL:	61.00	CHK.
	SWT10109-1	75.25		0.059		0.120				11-141-1	75.25	CH:	36.00	PD:	18.00	DIA
	SWT10109-2	75.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-141-2	75.50	DIST1:	-4.00	Head:	NONE	10.00
	SWT10109-3	75.75		0.059		0.134				11-141-3	75.75	DIST2:	-6.70	Skirt:	NONE	
	SWT10109-4	76.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-141-4	76.00	DIST3:				
			0.157	0.120												
	REFERENCE #		TOP	2ND	OIL		REFERENCE #									
	13011-13010						13101-13021									
	1.5L (89CID,1452CC),SOHC,4CYL, 77.500MM (3.051"), 1A-C / 1980-1980															
	TERCEL / 80-80	SWT10078-0	77.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-142-0	77.50	TL:	61.00	PL:	61.00
SWT10078-1		77.75	0.059		0.112		11-142-1				77.75	CH:	31.00	PD:	18.00	DIA
SWT10078-2		78.00	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-142-2	78.00	DIST1:	-3.20	Head:	NONE	10.00
SWT10078-3		78.25		0.059		0.134				11-142-3	78.25	DIST2:		Skirt:	NONE	
SWT10078-4		78.50	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-142-4	78.50	DIST3:				
			0.110	0.110												
REFERENCE #		TOP	2ND	OIL		REFERENCE #										
13011-15011						13101-15010										
1.5L (89CID,1452CC),SOHC,4CYL, 77.500MM (3.051"), 3A-C / 1982-1988																
TERCEL / 82-88		SWT10078-0	77.50	Top:	1.500	X	2.850	BF	STEEL	CHROME	11-143-0	77.50	TL:	61.00	PL:	61.00
	SWT10078-1	77.75	0.059		0.112		11-143-1				77.75	CH:	31.00	PD:	18.00	DIA
	SWT10078-2	78.00	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-143-2	78.00	DIST1:	-3.00	Head:	NONE	10.00
	SWT10078-3	78.25		0.059		0.134				11-143-3	78.25	DIST2:		Skirt:	NONE	
	SWT10078-4	78.50	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-143-4	78.50	DIST3:				
			0.110	0.110												
	REFERENCE #		TOP	2ND	OIL		REFERENCE #									
	13011-15011						13101-15020-02									



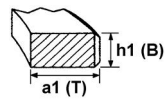
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.5L (89CID,1456CC),DOHC,4CYL, 74.000MM (2.913"), 5E-FE / 1992-1998																
PASEO / 92-95 TERCEL / 95-98	SWT10128-0	74.00	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-656-0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

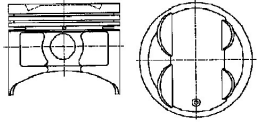
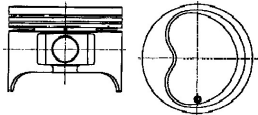


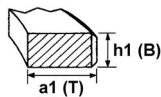
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
1.5L (91CID,1497CC),DOHC,4CYL, 75.000MM (2.953"), 1NZ-FXE / 2005-2015																	
PRIUS HYBRID / 05-09	SWT10229-0	75.00	Top:	0.800	X	2.500	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.							
PRIUS HYBRID C / 12-15	SWT10229-1	75.25		0.031	0.098												
	SWT10229-2	75.50	2nd:	1.000	X	2.300	T1	STEEL	PHOSPHATE								
	SWT10229-3	75.75		0.039	0.091												
	SWT10229-4	76.00	Oil:	1.500	X	2.100	NIFF-H	STEEL	CHROME								
				0.059	0.083												
REFERENCE #		TOP	2ND	OIL													
13011-21100																	
13011-21110																	
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-F,4A-FE / 1988-1992																	
CELICA / 90-92	SWT10142-0	81.00	Top:	1.500	X	2.700	BF	STEEL	NITRIDED	11-649-0	81.00	TL:	61.10	PL:	61.00	CHK.	
COROLLA / 88-92	SWT10142-1	81.25		0.059	0.106					11-649-1	81.25	CH:	30.60	PD:	18.00	DIA	
	SWT10142-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-649-2	81.50	DIST1:	-3.00	Head:	NONE	10.00	
	SWT10142-3	81.75		0.059	0.134					11-649-3	81.75	DIST2:	-2.80	Skirt:	NONE		
	SWT10142-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-649-4	82.00	DIST3:					
				0.118	0.112												
REFERENCE #		TOP	2ND	OIL							REFERENCE #						
13011-16130											13101-16090-01						
94847305											94847306						
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-FE / 1993-1997																	
COROLLA / 93-97	SWT10156-0	81.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-714-0	81.00	TL:	55.60	PL:	56.00	CHK.	
	SWT10156-1	81.25		0.047	0.114					11-714-1	81.25	CH:	30.50	PD:	20.00	DIA	
	SWT10156-2	81.50	2nd:	1.500	X	3.400	T1	CAST IRON	PHOSPHATE	11-714-2	81.50	DIST1:	-2.50	Head:	NONE	15.00	
	SWT10156-3	81.75		0.059	0.134					11-714-3	81.75	DIST2:		Skirt:	NONE		
	SWT10156-4	82.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-714-4	82.00	DIST3:					
				0.118	0.112												
REFERENCE #		TOP	2ND	OIL							REFERENCE #						
13011-16300											13101-16160-01						
13011-16340											94853590						
94854159																	
94855500																	
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GE,4A-GELC / 1988-1990																	
COROLLA / 88-90	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL	CHROME	11-660-0	81.00	TL:	64.50	PL:	61.00	CHK.	
MR2 / 88-89	SWT10108-1	81.25		0.059	0.122					11-660-1	81.25	CH:	30.50	PD:	20.00	DIA	
	SWT10108-2	81.50	2nd:	1.500	X	3.500	T1	CAST IRON	PHOSPHATE	11-660-2	81.50	DIST1:	0.30	Head:	NONE	10.00	
	SWT10108-3	81.75		0.059	0.138					11-660-3	81.75	DIST2:		Skirt:	NONE		
	SWT10108-4	82.00	Oil:	2.800	X	2.800	NIFF-S	STEEL	CHROME	11-660-4	82.00	DIST3:					
				0.110	0.110												
REFERENCE #		TOP	2ND	OIL							REFERENCE #						
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13011-16170											94844692						
94840036																	
94845462																	

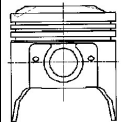
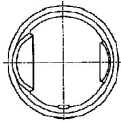
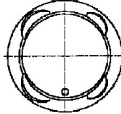


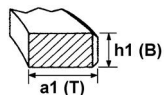
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.6L (97CID,1587CC),DOHC,4CYL, 81.000MM (3.189"), 4A-GEC,4A-GELC / 1985-1987																
COROLLA / 85-87 MR2 / 85-87	SWT10108-0	81.00	Top:	1.500	X	3.100	BF	STEEL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

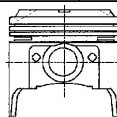
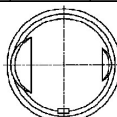
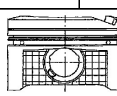
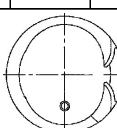


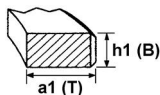
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.6L (97CID,1588CC),OHV,4CYL, 85.000MM (3.346"), 2T-C / 1972-1977																
CARINA / 72-73 COROLLA / 73-77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

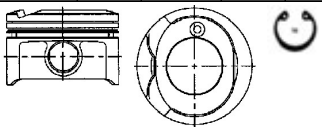
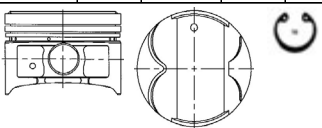


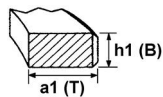
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
1.8L (108CID,1770CC),OHV,4CYL, 85.000MM (3.346"), 3T-C / 1980-1982																
COROLLA / 80-82	SWT10059-0	85.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-149-0	85.00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



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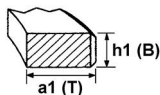
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO										
1.8L (109CID,1794CC),DOHC,4CYL, 79.000MM (3.110"), 1ZZ-FE / 2000-2008																						
COROLLA / 00-08	SWT10183-0	79.00	Top:	1.200	X	2.650	BF	STEEL	CHROME	11-777-0	79.00	TL:	51.70	PL:	50.00	CHK.						
	SWT10183-1	79.25		0.047	0.104	11-777-1				79.25	CH:	29.80	PD:	20.01	DIA							
	SWT10183-2	79.50	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-777-2	79.50	DIST1:	2.40	Head:	AH	19.50						
	SWT10183-3	79.75		0.047	0.126	11-777-3				79.75	DIST2:		Skirt:	MS								
	SWT10183-4	80.00	Oil:	3.000	X	2.550	NIFF-S	STEEL	CHROME	11-777-4	80.00	DIST3:										
			0.118	0.100																		
	REFERENCE #		TOP	2ND		OIL		REFERENCE #														
	13011-0D010								13101-0D040													
	13011-22040								13101-22140													
	13011-22150								88969051													
	88972331								88972330													
	94856686								94859420													
	94859421																					
1.8L (110CID,1796CC),DOHC,4CYL, 82.000MM (3.228"), 2ZZ-EE,2ZZ-GE / 2000-2006																						
CELICA / 00-05 MATRIX / 03-06	SWT10196-0	82.00	Top:	1.200	X	2.850	BF	STEEL	CHROME	11-802-0	82.00	TL:	57.70	PL:	56.58	CHK.						
	SWT10196-1	82.25		0.047	0.112	11-802-1				82.25	CH:	31.30	PD:	20.01	DIA							
	SWT10196-2	82.50	2nd:	1.200	X	3.050	TUC	CAST IRON	PHOSPHATE	11-802-2	82.50	DIST1:	1.40	Head:	NONE	25.00						
	SWT10196-3	82.75		0.047	0.120	11-802-3				82.75	DIST2:		Skirt:	NONE								
	SWT10196-4	83.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	CHROME	11-802-4	83.00	DIST3:										
			0.118	0.126																		
	REFERENCE #		TOP	2ND		OIL		REFERENCE #														
	13011-88601								13101-88601													
	88969557																					
	1.8L (110CID,1798CC),DOHC,4CYL, 80.500MM (3.169"), 2ZR-FE,2ZR-FXE / 2009-2015																					
COROLLA / 09-15 MATRIX / 09-13 PRIUS HYBRID / 10-15 PRIUS HYBRID V / 12-15	SWT10232-0	80.50	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
	SWT10232-1	80.75		0.039	0.114																	
	SWT10232-2	81.00	2nd:	1.000	X	2.500	TUC	STEEL	PHOSPHATE													
	SWT10232-3	81.25		0.039	0.098																	
	SWT10232-4	81.50	Oil:	1.500	X	1.950	NIFF-H	STEEL	CHROME													
			0.059	0.077																		
	REFERENCE #		TOP	2ND		OIL																
	13011-0T010																					
	13011-37110																					
	19185554																					
	1.8L (112CID,1839CC),4CYL, 83.000MM (3.268"), 1CL-LC,1CL-LTC / 1984-1985																					
CAMRY / 84-85 COROLLA / 84-85	SDT10081-0	83.00	Top:	2.000	X	3.050	BF-K2	STEEL	CHROME	DISC-11-150-0	83.00											
	SDT10081-1	83.25		0.079	0.120	DISC-11-150-1				83.25												
	SDT10081-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	CHROME	DISC-11-150-2	83.50											
	SDT10081-3	83.75		0.079	0.150	DISC-11-150-3				83.75												
	SDT10081-4	84.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	DISC-11-150-4	84.00											
			0.157	0.171																		
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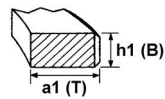
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
1.9L (113CID,1858CC),4CYL, 86.000MM (3.386"), 8R-C / 1970-1971																
CELICA / 71-71 CORONA / 70-71	SWT10019-0	86.00	Top:	2.000	X	3.900	T1	CAST IRON	CHROME	DISC-11-151-0	86.00					
	SWT10019-1	86.25		0.079		0.154				DISC-11-151-1	86.25					
	SWT10019-2	86.50	2nd:	2.500	X	3.900	T1	CAST IRON	CHROME	DISC-11-151-2	86.50					
	SWT10019-3	86.75		0.098		0.154				DISC-11-151-3	86.75					
	SWT10019-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-151-4	87.00					
	REFERENCE # 13011-33022	TOP	2ND	OIL			REFERENCE # 13101-33010									
1.9L (116CID,1897CC),4CYL, 88.000MM (3.465"), 3R-C / 1968-1969																
CORONA / 68-69	SWT10022-0	88.00	Top:	2.500	X	4.100	T1	CAST IRON	CHROME	DISC-11-152-0	88.00					
	SWT10022-1	88.25		0.098		0.161				DISC-11-152-1	88.25					
	SWT10022-2	88.50	2nd:	2.500	X	4.100	TUC	CAST IRON	PHOSPHATE	DISC-11-152-2	88.50					
	SWT10022-3	88.75		0.098		0.161				DISC-11-152-3	88.75					
	SWT10022-4	89.00	Oil:	5.000	X	4.050	BC3	STEEL	CHROME	DISC-11-152-4	89.00					
	REFERENCE # 13011-40010	TOP	2ND	OIL			REFERENCE # 13101-40010									
2.0L (120CID,1968CC),4CYL, 88.500MM (3.484"), 18R-C / 1972-1974																
CELICA / 72-74 CORONA / 73-74 PICKUP / 72-74	SWT10043-0	88.50	Top:	2.000	X	4.200	BF	CAST IRON	CHROME	11-153-0	88.50	TL:	84.80	PL:	75.00	CHK.
	SWT10043-1	88.75		0.079		0.165				11-153-1	88.75	CH:	39.80	PD:	22.00	DIA
	SWT10043-2	89.00	2nd:	2.500	X	4.200	T1	CAST IRON	CHROME	11-153-2	89.00	DIST1:		Head:	NONE	20.00
	SWT10043-3	89.25		0.098		0.165				11-153-3	89.25	DIST2:		Skirt:	NONE	
	SWT10043-4	89.50	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	11-153-4	89.50	DIST3:				
	REFERENCE # 13011-38020	TOP	2ND	OIL			REFERENCE # 13101-34030									
2.0L (120CID,1974CC),4CYL, 86.000MM (3.386"), 2CT-LC / 1986-1986																
CAMRY / 86-86	SDT10096-0	86.00	Top:	2.000	X	3.050	BF-K2	STEEL	CHROME	DISC-11-655-0	86.00					
	SDT10096-1	86.25		0.079		0.120				DISC-11-655-1	86.25					
	SDT10096-2	86.50	2nd:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-655-2	86.50					
	SDT10096-3	86.75		0.079		0.142				DISC-11-655-3	86.75					
	SDT10096-4	87.00	Oil:	4.000	X	4.000	E-BC16	STEEL	NITRIDED	DISC-11-655-4	87.00					
	REFERENCE # 13011-64150	TOP	2ND	OIL			REFERENCE # 13101-64070-02									



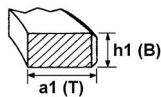
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1995CC),SOHC,4CYL, 84.000MM (3.307"), 2SE-LC / 1983-1986																
CAMRY / 83-86 CELICA / 86-86	SWT10088-0	84.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	DISC-11-154-0	84.00					
	SWT10088-1	84.25		0.059	0.136	DISC-11-154-1				84.25						
	SWT10088-2	84.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-154-2	84.50					
	SWT10088-3	84.75		0.059	0.150	DISC-11-154-3				84.75						
	SWT10088-4	85.00	Oil:	4.000	X	3.300	NIFF-S	STEEL	CHROME	DISC-11-154-4	85.00					
REFERENCE # 13011-74021		TOP			2ND			OIL			REFERENCE # 13101-74010					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 1AZ-FE / 2001-2003																
RAV4 / 01-03	SWT10186-0	86.00	Top:	1.200	X	2.700	BF	STEEL	NITRIDED	11-850-0	86.00	TL:	60.80	PL:	56.00	CHK.
	SWT10186-1	86.25		0.047	0.106	11-850-1				86.25	CH:	40.80	PD:	22.00	DIA	
	SWT10186-2	86.50	2nd:	1.200	X	3.100	TUC	CAST IRON	PHOSPHATE	11-850-2	86.50	DIST1:	-5.80	Head:	NONE	10.00
	SWT10186-3	86.75		0.047	0.122	11-850-3				86.75	DIST2:	-2.15	Skirt:	MS		
	SWT10186-4	87.00	Oil:	2.000	X	2.500	NIFF-H	STEEL	NITRIDED	11-850-4	87.00	DIST3:				
REFERENCE # 13011-28120		TOP			2ND			OIL			REFERENCE # 13211-28060-A0					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3S-FE / 1987-1991																
CAMRY / 87-91 CELICA / 87-89	SWT10119-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-644-0	86.00	TL:	68.40	PL:	66.00	CHK.
	SWT10119-1	86.25		0.059	0.128	11-644-1				86.25	CH:	35.00	PD:	20.01	DIA	
	SWT10119-2	86.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-644-2	86.50	DIST1:	-3.90	Head:	NONE	7.00
	SWT10119-3	86.75		0.059	0.150	11-644-3				86.75	DIST2:		Skirt:	NONE		
	SWT10119-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-644-4	87.00	DIST3:				
REFERENCE # 13011-74072		TOP			2ND			OIL			REFERENCE # 13101-74112-02					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3S-FE / 1996-1997																
RAV4 / 96-97	SWT10119-0	86.00	Top:	1.500	X	3.250	BF	STEEL	CHROME	11-723-0	86.00	TL:	67.90	PL:	66.00	CHK.
	SWT10119-1	86.25		0.059	0.128	11-723-1				86.25	CH:	35.00	PD:	22.00	DIA	
	SWT10119-2	86.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-723-2	86.50	DIST1:	-5.00	Head:	NONE	20.00
	SWT10119-3	86.75		0.059	0.150	11-723-3				86.75	DIST2:		Skirt:	NONE		
	SWT10119-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-723-4	87.00	DIST3:				
REFERENCE # 13011-74072		TOP			2ND			OIL			REFERENCE # 13101-74100-01					



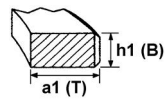
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3S-FE / 1998-2000																
RAV4 / 98-00	SWT10162-0	86.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-795-0	86.00	TL:	59.10	PL:	56.00	CHK.
	SWT10162-1	86.25		0.047		0.114				11-795-1	86.25	CH:	35.00	PD:	22.00	DIA
	SWT10162-2	86.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-795-2	86.50	DIST1:	-3.90	Head:	NONE	15.00
	SWT10162-3	86.75		0.047		0.134				11-795-3	86.75	DIST2:		Skirt:	NONE	
	SWT10162-4	87.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-795-4	87.00	DIST3:				
			0.118	0.112												
	REFERENCE # 13011-74361		TOP			2ND			OIL		REFERENCE # 13101-74191-01					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3SG-ELC / 1986-1989																
CELICA / 86-89	SWT10141-0	86.00	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-648-0	86.00	TL:	67.10	PL:	66.00	CHK.
	SWT10141-1	86.25		0.047		0.130				11-648-1	86.25	CH:	35.10	PD:	22.00	DIA
	SWT10141-2	86.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-648-2	86.50	DIST1:	-5.00	Head:	NONE	10.00
	SWT10141-3	86.75		0.059		0.142				11-648-3	86.75	DIST2:		Skirt:	NONE	
	SWT10141-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-648-4	87.00	DIST3:				
			0.157	0.128												
	REFERENCE # 13011-88363 13011-88380 13011-88381		TOP			2ND			OIL		REFERENCE # 13101-74032-02					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3SG-TE / 1988-1989 TURBO																
CELICA / 88-89	SWT10141-0	86.00	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-646-0	86.00	TL:	67.10	PL:	66.00	CHK.
	SWT10141-1	86.25		0.047		0.130				11-646-1	86.25	CH:	35.00	PD:	22.00	DIA
	SWT10141-2	86.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-646-2	86.50	DIST1:	-1.60	Head:	NONE	5.00
	SWT10141-3	86.75		0.059		0.142				11-646-3	86.75	DIST2:	-5.10	Skirt:	NONE	
	SWT10141-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-646-4	87.00	DIST3:				
			0.157	0.128												
	REFERENCE # 13011-88363 13011-88380 13011-88381		TOP			2ND			OIL		REFERENCE # 13101-88380-01					
2.0L (122CID,1998CC),DOHC,4CYL, 86.000MM (3.386"), 3SG-TE / 1990-1995 TURBO																
CELICA / 90-93 MR2 / 91-95	SWT10141-0	86.00	Top:	1.200	X	3.300	BF	STEEL	CHROME	11-647-0	86.00	TL:	62.10	PL:	66.00	CHK.
	SWT10141-1	86.25		0.047		0.130				11-647-1	86.25	CH:	35.10	PD:	22.00	DIA
	SWT10141-2	86.50	2nd:	1.500	X	3.600	TUC	CAST IRON	PHOSPHATE	11-647-2	86.50	DIST1:	-0.80	Head:	NONE	11.00
	SWT10141-3	86.75		0.059		0.142				11-647-3	86.75	DIST2:		Skirt:	NONE	
	SWT10141-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-647-4	87.00	DIST3:				
			0.157	0.128												
	REFERENCE # 13011-88363 13011-88380 13011-88381		TOP			2ND			OIL		REFERENCE # 13101-88381-01					



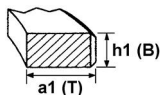
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.0L (122CID,1998CC),OHV,4CYL, 86.000MM (3.386"), 3Y-EC / 1984-1985																
VAN / 84-85	SWT10090-0	86.00	Top:	1.500	X	3.450	BF	STEEL	CHROME	11-155-0	86.00	TL:	70.00	PL:	66.00	CHK.
	SWT10090-1	86.25		0.059	0.136	11-155-1				86.25	CH:	35.00	PD:	22.00	DIA	
	SWT10090-2	86.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-155-2	86.50	DIST1:	-5.00	Head:	NONE	0.00
	SWT10090-3	86.75		0.059	0.157	11-155-3				86.75	DIST2:		Skirt:	NONE		
	SWT10090-4	87.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-155-4	87.00	DIST3:				
REFERENCE # 13011-71012		TOP	2ND	OIL						REFERENCE # 13101-43051-02 13101-73010-02						
2.2L (132CID,2164CC),DOHC,4CYL, 87.000MM (3.425"), 5S-FE / 1990-1991																
CELICA / 90-91 MR2 / 91-91	SWT10149-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-657-0	87.00	TL:	63.00	PL:	66.00	CHK.
	SWT10149-1	87.25		0.059	0.138	11-657-1				87.25	CH:	32.60	PD:	22.00	DIA	
	SWT10149-2	87.50	2nd:	1.500	X	3.600	T1	CAST IRON	CHROME	11-657-2	87.50	DIST1:	-5.00	Head:	NONE	10.00
	SWT10149-3	87.75		0.059	0.142	11-657-3				87.75	DIST2:		Skirt:	NONE		
	SWT10149-4	88.00	Oil:	3.000	X	2.850	NIFF-S	STEEL	CHROME	11-657-4	88.00	DIST3:				
REFERENCE # 13011-74150		TOP	2ND	OIL						REFERENCE # 13101-74080-01						
2.2L (132CID,2164CC),DOHC,4CYL, 87.000MM (3.425"), 5S-FE / 1990-1999																
CAMRY / 92-97 CELICA / 90-99 MR2 / 91-95	SWT10133-0	87.00	Top:	1.500	X	3.500	BF	STEEL	CHROME	11-654-0	87.00	TL:	63.00	PL:	66.00	CHK.
	SWT10133-1	87.25		0.059	0.138	11-654-1				87.25	CH:	32.50	PD:	22.00	DIA	
	SWT10133-2	87.50	2nd:	1.500	X	3.600	T1	CAST IRON	CHROME	11-654-2	87.50	DIST1:	-4.70	Head:	NONE	10.00
	SWT10133-3	87.75		0.059	0.142	11-654-3				87.75	DIST2:		Skirt:	NONE		
	SWT10133-4	88.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-654-4	88.00	DIST3:				
REFERENCE # 13011-74290		TOP	2ND	OIL						REFERENCE # 13101-74130-01						
2.2L (132CID,2164CC),DOHC,4CYL, 87.000MM (3.425"), 5S-FE / 1998-2001																
CAMRY / 98-01 CAMRY SOLARA / 98-01	SWT10166-0	87.00	Top:	1.200	X	2.900	BF	STEEL	CHROME	11-750-0	87.00	TL:	56.50	PL:	66.00	CHK.
	SWT10166-1	87.25		0.047	0.114	11-750-1				87.25	CH:	32.50	PD:	22.00	DIA	
	SWT10166-2	87.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-750-2	87.50	DIST1:	-4.50	Head:	NONE	15.00
	SWT10166-3	87.75		0.047	0.134	11-750-3				87.75	DIST2:		Skirt:	NONE		
	SWT10166-4	88.00	Oil:	3.000	X	2.750	NIFF-S	STEEL	NITRIDED	11-750-4	88.00	DIST3:				
REFERENCE # 13011-74370		TOP	2ND	OIL						REFERENCE # 13101-03060						

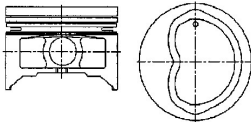
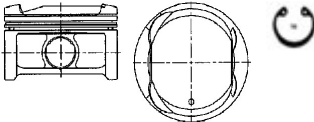
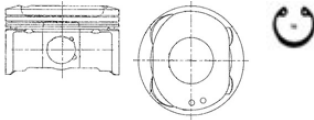


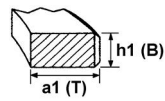
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.2L (134CID,2188CC),4CYL, 90.000MM (3.543"), L / 1981-1981																
PICKUP / 81-81	SDT10066-0	90.00	Top:	2.500	X	3.800	BF	DUCTILE IRON	CHROME	DISC-11-633-0	90.00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



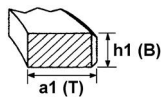
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO					
2.2L (137CID,2237CC),OHV,4CYL, 91.000MM (3.583"), 4Y-EC / 1986-1989																	
VAN / 86-89	SWT10111-0	91.00	Top:	1.500	X	3.250	BF-IB	STEEL	CHROME	11-637-0	91.00	TL:	65.00	PL:	66.00	CHK.	
	SWT10111-1	91.25		0.059	0.128	11-637-1				91.25	CH:	35.00	PD:	22.00	DIA		
	SWT10111-2	91.50	2nd:	1.500	X	3.950	TUC	CAST IRON	CHROME	11-637-2	91.50	DIST1:	-6.20	Head:	NONE	25.00	
	SWT10111-3	91.75		0.059	0.156	11-637-3				91.75	DIST2:		Skirt:	NONE			
	SWT10111-4	92.00	Oil:	4.000	X	3.100	NIFF-S	STEEL	CHROME	11-637-4	92.00	DIST3:					
			0.157	0.122													
	REFERENCE # 13011-73032		TOP			2ND			OIL			REFERENCE # 13101-73031-01 13101-76012-71					
																	
	2.3L (137CID,2253CC),6CYL, 75.000MM (2.953"), 2M / 1972-1972																
	CORONA / 72-72	SXT10004-0	75.00	Top:	2.000	X	3.600	T1	CAST IRON	CHROME	DISC-11-161-0	75.00					
SXT10004-1		75.25	0.079		0.142	DISC-11-161-1	75.25										
SXT10004-2		75.50	2nd:	2.000	X	3.600	T1	CAST IRON	PHOSPHATE	DISC-11-161-2	75.50						
SXT10004-3		75.75		0.079	0.142	DISC-11-161-3				75.75							
SXT10004-4		76.00	Oil:	4.000	X	3.150	NIFF-S	STEEL	CHROME	DISC-11-161-4	76.00						
			0.157	0.124													
REFERENCE # 13011-41015		TOP			2ND			OIL			REFERENCE # 13101-42020						
																	
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2001-2007																	
CAMRY / 02-06 CAMRY SOLARA / 02-06 HIGHLANDER / 01-07 RAV4 / 04-05		SWT10182-0	88.50	Top:	1.200	X	2.700	BF	STEEL	CHROME	11-792-0	88.50	TL:	55.80	PL:	56.00	CHK.
	SWT10182-1	88.75	0.047		0.106	11-792-1	88.75				CH:	33.70	PD:	22.00	DIA		
	SWT10182-2	89.00	2nd:	1.200	X	3.200	TUC	CAST IRON	PHOSPHATE	11-792-2	89.00	DIST1:	-6.40	Head:	AH	4.00	
	SWT10182-3	89.25		0.047	0.126	11-792-3				89.25	DIST2:		Skirt:	MS			
	SWT10182-4	89.50	Oil:	2.000	X	2.450	NIFF-H	STEEL	NITRIDED	11-792-4	89.50	DIST3:					
			0.079	0.096													
	REFERENCE # 13011-23100 13011-28102		TOP			2ND			OIL			REFERENCE # 13211-28030-A0 13211-28031-A0					
																	
	2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FE / 2006-2013																
	CAMRY / 07-09 CAMRY SOLARA / 07-08 COROLLA / 09-10 MATRIX / 09-13 RAV4 / 06-08	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	11-896-0	88.50	TL:	55.80	PL:	56.00	CHK.
SDT10200-1		88.75	0.039		0.106	11-896-1	88.75				CH:	35.80	PD:	22.00	DIA		
SDT10200-2		89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE	11-896-2	89.00	DIST1:	-7.80	Head:	AH	6.00	
SDT10200-3		89.25		0.039	0.106	11-896-3				89.25	DIST2:		Skirt:	MS			
SDT10200-4		89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-896-4	89.50	DIST3:					
			0.079	0.108													
REFERENCE # 13011-0H031 13011-28161		TOP			2ND			OIL			REFERENCE # 13211-28112-A0						
																	



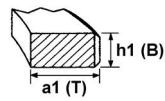
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (144CID,2362CC),DOHC,4CYL, 88.500MM (3.484"), 2AZ-FXE / 2007-2011																
CAMRY HYBRID / 07-11	SDT10200-0	88.50	Top:	1.000	X	2.700	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDT10200-1	88.75		0.039		0.106										
	SDT10200-2	89.00	2nd:	1.000	X	2.700	TUC	CAST IRON	PHOSPHATE							
	SDT10200-3	89.25		0.039		0.106										
	SDT10200-4	89.50	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED							
		0.079	0.108													
REFERENCE #		TOP	2ND	OIL												
13011-0H031																
13011-28161																
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 20R,22R,22R-EC / 1981-1985																
4 RUNNER / 84-85	SWT10077-0	92.00	Top:	2.000	X	3.450	BF	STEEL	CHROME	11-241-0	92.00	TL:	92.50	PL:	75.00	CHK.
CELICA / 81-85	SWT10077-1	92.25		0.079		0.136				11-241-1	92.25	CH:	39.00	PD:	22.00	DIA
CORONA / 81-82	SWT10077-2	92.50	2nd:	2.500	X	4.200	T1	CAST IRON	PHOSPHATE	11-241-2	92.50	DIST1:	1.50	Head:	NONE	32.00
PICKUP / 81-85	SWT10077-3	92.75		0.098		0.165				11-241-3	92.75	DIST2:	6.50	Skirt:	NONE	
	SWT10077-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	11-241-4	93.00	DIST3:				
	AM Ring Available		0.157	0.128												
REFERENCE #		TOP	2ND	OIL						REFERENCE #						
13011-35020										13101-35020						
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 22R,22R-E,22R-EC / 1986-1995																
4 RUNNER / 86-95	SWT10103-0	92.00	Top:	1.500	X	3.300	BF	STEEL	CHROME	11-239-0	92.00	TL:	63.40	PL:	70.00	CHK.
PICKUP / 86-95	SWT10103-1	92.25		0.059		0.130				11-239-1	92.25	CH:	34.40	PD:	22.00	DIA
	SWT10103-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-239-2	92.50	DIST1:	-1.60	Head:	NONE	26.00
	SWT10103-3	92.75		0.059		0.157				11-239-3	92.75	DIST2:		Skirt:	NONE	
	SWT10103-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-239-4	93.00	DIST3:				
	AM Ring Available		0.157	0.128												
REFERENCE #		TOP	2ND	OIL						REFERENCE #						
13011-35041										13101-35032-01						
13011-35052										13101-35032-02						
2.4L (144CID,2366CC),SOHC,4CYL, 92.000MM (3.622"), 22R-TEC / 1985-1988																
4 RUNNER / 86-87	SWT10103-0	92.00	Top:	1.500	X	3.300	BF	STEEL	CHROME	11-677-0	92.00	TL:	63.80	PL:	73.00	CHK.
PICKUP / 85-88	SWT10103-1	92.25		0.059		0.130				11-677-1	92.25	CH:	34.80	PD:	22.00	DIA
	SWT10103-2	92.50	2nd:	1.500	X	4.000	T1	CAST IRON	CHROME	11-677-2	92.50	DIST1:	-5.30	Head:	NONE	10.00
	SWT10103-3	92.75		0.059		0.157				11-677-3	92.75	DIST2:	-5.60	Skirt:	NONE	
	SWT10103-4	93.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-677-4	93.00	DIST3:				
	AM Ring Available		0.157	0.128												
REFERENCE #		TOP	2ND	OIL						REFERENCE #						
13011-35041										13101-35050-02						
13011-35052																



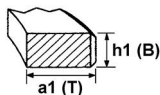
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2RZ-FE / 1995-2004																
TACOMA / 95-04	SWT10139-0	95.00	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-745-0	95.00	TL:	59.00	PL:	70.00	CHK.
	SWT10139-1	95.25		0.059	0.138				11-745-1	95.25	CH:	35.60	PD:	24.00	DIA	
	SWT10139-2	95.50	2nd:	1.500	X	3.450	TUC	STEEL	CHROME	11-745-2	95.50	DIST1:	-0.90	Head:	AH	7.00
	SWT10139-3	95.75		0.059	0.136				11-745-3	95.75	DIST2:		Skirt:	MS		
	SWT10139-4	96.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-745-4	96.00	DIST3:				
			0.157	0.120												
REFERENCE # 13011-75040 13011-75041		TOP	2ND	OIL	REFERENCE # 13101-75071											
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2TZ-FE / 1991-1995																
PREVIA / 91-95	SWT10127-0	95.00	Top:	1.750	X	3.650	BF	STEEL	CHROME	11-636-0	95.00	TL:	67.50	PL:	70.00	CHK.
	SWT10127-1	95.25		0.069	0.144				11-636-1	95.25	CH:	35.50	PD:	24.00	DIA	
	SWT10127-2	95.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-636-2	95.50	DIST1:	-2.20	Head:	NONE	15.00
	SWT10127-3	95.75		0.059	0.150				11-636-3	95.75	DIST2:	-2.50	Skirt:	NONE		
	SWT10127-4	96.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-636-4	96.00	DIST3:				
			0.157	0.128												
REFERENCE # 13011-76050		TOP	2ND	OIL	REFERENCE # 13101-76041											
2.4L (149CID,2438CC),DOHC,4CYL, 95.000MM (3.740"), 2TZ-FZE / 1995-1997																
PREVIA / 95-97	SWT10127-0	95.00	Top:	1.750	X	3.650	BF	STEEL	CHROME	11-725-0	95.00	TL:	67.50	PL:	70.00	CHK.
	SWT10127-1	95.25		0.069	0.144				11-725-1	95.25	CH:	35.50	PD:	24.00	DIA	
	SWT10127-2	95.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-725-2	95.50	DIST1:	-2.00	Head:	AH	15.00
	SWT10127-3	95.75		0.059	0.150				11-725-3	95.75	DIST2:		Skirt:	NONE		
	SWT10127-4	96.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	NITRIDED	11-725-4	96.00	DIST3:				
			0.157	0.128												
REFERENCE # 13011-76050		TOP	2ND	OIL	REFERENCE # 13101-76050											
2.4L (149CID,2446CC),4CYL, 92.000MM (3.622"), 2L / 1984-1985 DIESEL																
PICKUP / 84-85	SDT10089-0	92.00	Top:	2.000	X	3.350	BF-K2	STEEL	NITRIDED	11-632-0	92.00	TL:	86.20	PL:	74.00	CHK.
	SDT10089-1	92.25		0.079	0.132				11-632-1	92.25	CH:	49.20	PD:	27.00	DIA	
	SDT10089-2	92.50	2nd:	2.000	X	3.300	T1	STEEL	NITRIDED	11-632-2	92.50	DIST1:	-1.30	Head:	NONE	10.00
	SDT10089-3	92.75		0.079	0.130				11-632-3	92.75	DIST2:		Skirt:	NONE		
	SDT10089-4	93.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-632-4	93.00	DIST3:				
			0.157	0.171												
REFERENCE # 13011-54062		TOP	2ND	OIL	REFERENCE # 13101-54060-02											

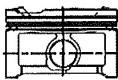
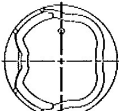


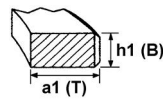
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO												
2.4L (149CID,2446CC),4CYL, 92.000MM (3.622"), 2L-T / 1985-1985 DIESEL, TURBO																						
PICKUP / 85-85	SDT10089-0	92.00	Top:	2.000	X	3.350	BF-K2	STEEL	NITRIDED	11-631-0	92.00	TL:	86.20	PL:	74.00	CHK.						
	SDT10089-1	92.25		0.079		0.132				11-631-1	92.25	CH:	49.20	PD:	29.00	DIA						
	SDT10089-2	92.50	2nd:	2.000	X	3.300	T1	STEEL	NITRIDED	11-631-2	92.50	DIST1:	-2.40	Head:	NONE	15.00						
	SDT10089-3	92.75		0.079		0.130				11-631-3	92.75	DIST2:		Skirt:	NONE							
	SDT10089-4	93.00	Oil:	4.000	X	4.350	E-BC16	STEEL	NITRIDED	11-631-4	93.00	DIST3:										
REFERENCE # 13011-54062		TOP			2ND			OIL			REFERENCE # 13101-54050-02											
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE / 2009-2017																						
CAMRY / 10-17 RAV4 / 09-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	11-897-0	90.00	TL:	53.30	PL:	56.00	CHK.						
	SDT10226-1	90.25		0.039		0.114				11-897-1	90.25	CH:	34.80	PD:	22.00	DIA						
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE	11-897-2	90.50	DIST1:	3.70	Head:	AH	10.00						
	SDT10226-3	90.75		0.039		0.106				11-897-3	90.75	DIST2:	-4.40	Skirt:	MS							
	SDT10226-4	91.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-897-4	91.00	DIST3:										
REFERENCE # 13011-36020		TOP			2ND			OIL			REFERENCE # 13211-0V011-A0 13211-0V012-B0 13211-36032-C0											
2.5L (152CID,2494CC),DOHC,4CYL, 90.000MM (3.543"), 2AR-FE,2AR-FXE / 2010-2017																						
AVALON HYBRID / 13-15 CAMRY / 10-17 CAMRY HYBRID / 12-17 RAV4 HYBRID / 16-17	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.												
	SDT10226-1	90.25		0.039		0.114																
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE													
	SDT10226-3	90.75		0.039		0.106																
	SDT10226-4	91.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED													
REFERENCE # 13011-36020		TOP			2ND			OIL														
2.5L (153CID,2507CC),DOHC,6CYL, 87.500MM (3.445"), 2VZ-FE / 1988-1991																						
CAMRY / 88-91	SWT10148-0	87.50	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-651-0	87.50	TL:	65.20	PL:	63.00	CHK.						
	SWT10148-1	87.75		0.059		0.130				11-651-1	87.75	CH:	32.30	PD:	21.00	DIA						
	SWT10148-2	88.00	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-651-2	88.00	DIST1:	-2.20	Head:	AH	10.00						
	SWT10148-3	88.25		0.059		0.150				11-651-3	88.25	DIST2:		Skirt:	NONE							
	SWT10148-4	88.50	Oil:	3.000	X	2.900	NIFF-S	STEEL	CHROME	11-651-4	88.50	DIST3:										
REFERENCE # 13011-62040		TOP			2ND			OIL			REFERENCE # 13101-62020-01											

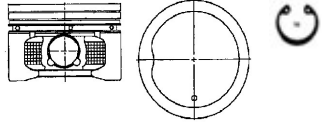
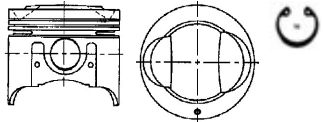


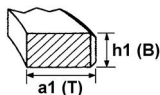
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
2.6L (156CID,2563CC),SOHC,6CYL, 80.000MM (3.150"), 4M / 1973-1973																
CORONA / 73-73	SXT10041-0	80.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-166-0	80.00					
	SXT10041-1	80.25		0.079		0.150				DISC-11-166-1	80.25					
	SXT10041-2	80.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-166-2	80.50					
	SXT10041-3	80.75		0.079		0.150				DISC-11-166-3	80.75					
	SXT10041-4	81.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	DISC-11-166-4	81.00					
				0.157		0.152										
REFERENCE # 13011-45021		TOP		2ND		OIL		REFERENCE # 13101-45011								
2.6L (156CID,2563CC),SOHC,6CYL, 80.000MM (3.150"), 4M, 4M-E / 1978-1980																
CRESSIDA / 78-79 SUPRA / 79-80	SXT10041-0	80.00	Top:	2.000	X	3.800	BF	CAST IRON	CHROME	DISC-11-167-0	80.00					
	SXT10041-1	80.25		0.079		0.150				DISC-11-167-1	80.25					
	SXT10041-2	80.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-167-2	80.50					
	SXT10041-3	80.75		0.079		0.150				DISC-11-167-3	80.75					
	SXT10041-4	81.00	Oil:	4.000	X	3.850	NIFF-S	STEEL	CHROME	DISC-11-167-4	81.00					
				0.157		0.152										
REFERENCE # 13011-45021		TOP		2ND		OIL		REFERENCE # 13101-45021								
2.7L (163CID,2672CC),DOHC,4CYL, 90.000MM (3.543"), 1AR-FE / 2009-2015																
HIGHLANDER / 09-15 SIENNA / 11-12 VENZA / 09-15	SDT10226-0	90.00	Top:	1.000	X	2.900	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDT10226-1	90.25		0.039		0.114										
	SDT10226-2	90.50	2nd:	1.000	X	2.700	TUC	STEEL	PHOSPHATE							
	SDT10226-3	90.75		0.039		0.106										
	SDT10226-4	91.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED							
				0.079		0.108										
REFERENCE # 13011-36020		TOP		2ND		OIL										
2.7L (164CID,2693CC),DOHC,4CYL, 95.000MM (3.740"), 2TR-FE / 2005-2015																
4 RUNNER / 10-10 TACOMA / 05-15	SDT10193-0	95.00	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-880-0	95.00	TL:	59.30	PL:	62.00	CHK. DIA 10.00
	SDT10193-1	95.25		0.047		0.114				11-880-1	95.25	CH:	39.30	PD:	22.00	
	SDT10193-2	95.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-880-2	95.50	DIST1:	-8.60	Head:	AH	
	SDT10193-3	95.75		0.047		0.134				11-880-3	95.75	DIST2:	-4.50	Skirt:	MS	
	SDT10193-4	96.00	Oil:	2.000	X	2.750	E-BC16	STEEL	NITRIDED	11-880-4	96.00	DIST3:	-2.22			
				0.079		0.108										
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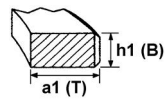
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.7L (164CID,2693CC),DOHC,4CYL, 95.000MM (3.740"), 3RZ-FE / 1994-2004																
4 RUNNER / 96-00 T100 / 94-98 TACOMA / 95-04	SWT10139-0	95.00	Top:	1.500	X	3.500	BF	STEEL	NITRIDED	11-724-0	95.00	TL:	61.00	PL:	70.00	CHK.
	SWT10139-1	95.25		0.059	0.138	11-724-1				95.25	CH:	37.20	PD:	24.00	DIA	
	SWT10139-2	95.50	2nd:	1.500	X	3.450	TUC	STEEL	CHROME	11-724-2	95.50	DIST1:	-2.60	Head:	AH	10.00
	SWT10139-3	95.75		0.059	0.136	11-724-3				95.75	DIST2:	Skirt:	MS			
	SWT10139-4	96.00	Oil:	4.000	X	3.050	NIFF-S	STEEL	NITRIDED	11-724-4	96.00	DIST3:				
REFERENCE # 13011-75040 13011-75041		TOP	2ND	OIL			REFERENCE # 13101-75040 13101-75041									
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-E / 1981-1982																
CRESSIDA / 81-82	SWT10072-0	83.00	Top:	2.000	X	3.050	BF	STEEL	CHROME	DISC-11-168-0	83.00					
	SWT10072-1	83.25		0.079	0.120	DISC-11-168-1				83.25						
	SWT10072-2	83.50	2nd:	2.000	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-168-2	83.50					
	SWT10072-3	83.75		0.079	0.150	DISC-11-168-3				83.75						
	SWT10072-4	84.00	Oil:	4.000	X	3.250	NIFF-S	STEEL	CHROME	DISC-11-168-4	84.00					
REFERENCE # 13011-43010 13011-43031		TOP	2ND	OIL			REFERENCE # 13101-43011-02									
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-GE / 1982-1983																
CRESSIDA / 83-83 SUPRA / 82-83	SWT10079-0	83.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	DISC-11-169-0	83.00					
	SWT10079-1	83.25		0.059	0.122	DISC-11-169-1				83.25						
	SWT10079-2	83.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	DISC-11-169-2	83.50					
	SWT10079-3	83.75		0.059	0.150	DISC-11-169-3				83.75						
	SWT10079-4	84.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	CHROME	DISC-11-169-4	84.00					
REFERENCE # 13011-42060		TOP	2ND	OIL			REFERENCE # 13101-43041-02									
2.8L (168CID,2759CC),DOHC,6CYL, 83.000MM (3.268"), 5M-GE / 1984-1988																
CRESSIDA / 84-88	SWT10079-0	83.00	Top:	1.500	X	3.100	BF	STEEL	NITRIDED	11-641-0	83.00	TL:	74.10	PL:	66.00	CHK.
	SWT10079-1	83.25		0.059	0.122	11-641-1				83.25	CH:	32.90	PD:	22.00	DIA	
	SWT10079-2	83.50	2nd:	1.500	X	3.800	T1	CAST IRON	PHOSPHATE	11-641-2	83.50	DIST1:	3.30	Head:	NONE	15.00
	SWT10079-3	83.75		0.059	0.150	11-641-3				83.75	DIST2:	Skirt:	NONE			
	SWT10079-4	84.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	CHROME	11-641-4	84.00	DIST3:				
REFERENCE # 13011-42060		TOP	2ND	OIL			REFERENCE # 13101-43051-02									

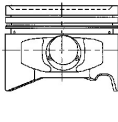
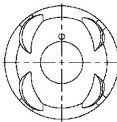
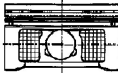
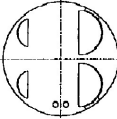
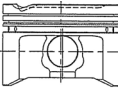


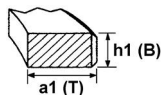
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER		MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER		MEMO				
3.0L (180CID,2954CC),DOHC,6CYL, 83.000MM (3.268"), 7M-GE / 1986-1992																
CRESSIDA / 89-92 SUPRA / 86-92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



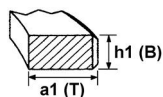
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.0L (181CID,2959CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GTE / 1993-1998 TURBO																
SUPRA / 93-98	SWT10134-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-778-0	86.00	TL:	65.00	PL:	66.00	CHK.
	SWT10134-1	86.25		0.059		0.130				11-778-1	86.25	CH:	34.00	PD:	22.00	DIA
	SWT10134-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-778-2	86.50	DIST1:	-3.80	Head:	AH	12.30
	SWT10134-3	86.75		0.059		0.150				11-778-3	86.75	DIST2:		Skirt:	MS	
	SWT10134-4	87.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	NITRIDED	11-778-4	87.00	DIST3:				
		0.157	0.114													
REFERENCE #		TOP	2ND		OIL		REFERENCE #			  						
13011-46041							13101-46091									
13011-46051																
3.0L (183CID,2995CC),DOHC,6CYL, 87.500MM (3.445"), 1MZ-FE / 1994-2006																
AVALON / 95-04 CAMRY / 94-06 CAMRY SOLARA / 98-03 HIGHLANDER / 01-03 SIENNA / 98-03	SWT10177-0	87.50	Top:	1.200	X	2.900	BF	STEEL	NITRIDED	11-720-0	87.50	TL:	51.00	PL:	54.00	CHK.
	SWT10177-1	87.75		0.047		0.114				11-720-1	87.75	CH:	31.20	PD:	22.00	DIA
	SWT10177-2	88.00	2nd:	1.200	X	3.300	T1	CAST IRON	PHOSPHATE	11-720-2	88.00	DIST1:		Head:	AH	10.00
	SWT10177-3	88.25		0.047		0.130				11-720-3	88.25	DIST2:		Skirt:	MS	
	SWT10177-4	88.50	Oil:	3.000	X	2.850	NIFF-S	STEEL	NITRIDED	11-720-4	88.50	DIST3:				
		0.118	0.112													
REFERENCE #		TOP	2ND		OIL		REFERENCE #			  						
13011-0A020							13101-0A020									
13011-20022							13101-20030									
							13301-0A020									
							13301-20020									
3.0L (183CID,2997CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GE / 1993-1998																
SUPRA / 93-98	SWT10134-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	DISC-11-770-0	86.00					
	SWT10134-1	86.25		0.059		0.130				DISC-11-770-1	86.25					
	SWT10134-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	DISC-11-770-2	86.50					
	SWT10134-3	86.75		0.059		0.150				DISC-11-770-3	86.75					
	SWT10134-4	87.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	NITRIDED	DISC-11-770-4	87.00					
		0.157	0.114													
REFERENCE #		TOP	2ND		OIL		REFERENCE #									
13011-46041							13101-46031									
13011-46051																
3.0L (183CID,2997CC),DOHC,6CYL, 86.000MM (3.386"), 2JZ-GE / 1998-1998																
SUPRA / 98-98	SWT10134-0	86.00	Top:	1.500	X	3.300	BF	STEEL	NITRIDED	11-851-0	86.00	TL:	59.00	PL:	66.00	CHK.
	SWT10134-1	86.25		0.059		0.130				11-851-1	86.25	CH:	34.00	PD:	22.00	DIA
	SWT10134-2	86.50	2nd:	1.500	X	3.800	TUC	CAST IRON	CHROME	11-851-2	86.50	DIST1:	-2.30	Head:	NONE	10.00
	SWT10134-3	86.75		0.059		0.150				11-851-3	86.75	DIST2:		Skirt:	MS	
	SWT10134-4	87.00	Oil:	4.000	X	2.900	NIFF-S	STEEL	NITRIDED	11-851-4	87.00	DIST3:				
		0.157	0.114													
REFERENCE #		TOP	2ND		OIL		REFERENCE #			  						
13011-46041							13101-46081									
13011-46051																



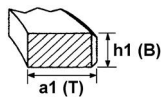
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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO							
3.3L (202CID,3311CC),DOHC,6CYL, 92.000MM (3.622"), 3MZ-FE,3MZ-FXE / 2004-2010																	
CAMRY / 04-06	SWT10228-0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



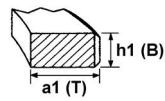
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1971-1971																
LAND CRUISER / 71-71	SWT10026-0	90.00	Top:	3.000	X	3.700	T1	CAST IRON	CHROME	11-171-0	90.00	TL:	95.50	PL:	80.00	CHK.
	SWT10026-1	90.25		0.118	0.146				11-171-1	90.25	CH:	47.50	PD:	25.15	DIA	
	SWT10026-2	90.50	2nd:	3.000	X	3.700	T1	CAST IRON	PHOSPHATE	11-171-2	90.50	DIST1:		Head:	NONE	0.00
	SWT10026-3	90.75		0.118	0.146				11-171-3	90.75	DIST2:		Skirt:	NONE		
	SWT10026-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	11-171-4	91.00	DIST3:				
			Oil2:	4.000	X	3.700	C1	CAST IRON	PHOSPHATE							
				0.157		0.154										
				0.157		0.146										
	REFERENCE #	TOP	2ND	OIL	OIL2				REFERENCE #							
	13011-60011								13101-60011							
3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1972-1972																
LAND CRUISER / 72-72	SWT10044-0	90.00	Top:	2.000	X	4.000	T1	CAST IRON	CHROME	DISC-11-172-0	90.00					
	SWT10044-1	90.25		0.079	0.157				DISC-11-172-1	90.25						
	SWT10044-2	90.50	2nd:	2.500	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-172-2	90.50					
	SWT10044-3	90.75		0.098	0.157				DISC-11-172-3	90.75						
	SWT10044-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-172-4	91.00					
			Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE							
				0.157		0.157										
	REFERENCE #	TOP	2ND	OIL	OIL2				REFERENCE #							
	13011-60040								13101-60020							
	3.9L (237CID,3878CC),6CYL, 90.000MM (3.543"), F / 1973-1974															
LAND CRUISER / 73-74	SWT10044-0	90.00	Top:	2.000	X	4.000	T1	CAST IRON	CHROME	DISC-11-173-0	90.00					
	SWT10044-1	90.25		0.079	0.157				DISC-11-173-1	90.25						
	SWT10044-2	90.50	2nd:	2.500	X	4.000	T1	CAST IRON	PHOSPHATE	DISC-11-173-2	90.50					
	SWT10044-3	90.75		0.098	0.157				DISC-11-173-3	90.75						
	SWT10044-4	91.00	Oil:	4.000	X	3.900	NIFF-S	STEEL	CHROME	DISC-11-173-4	91.00					
			Oil2:	4.000	X	4.000	BC3	CAST IRON	PHOSPHATE							
				0.157		0.157										
	REFERENCE #	TOP	2ND	OIL	OIL2				REFERENCE #							
	13011-60040								13101-60030							
	4.0L (241CID,3955CC),DOHC,6CYL, 94.000MM (3.701"), 1GR-FE / 2003-2015															
4 RUNNER / 03-15 FJ CRUISER / 07-14 TACOMA / 05-15 TACOMA X-RUNNER / 05-13 TUNDRA / 05-14	SWT10195-0	94.00	Top:	1.200	X	3.250	BF	STEEL	CHROME	11-871-0	94.00	TL:	56.50	PL:	62.00	CHK.
	SWT10195-1	94.25		0.047	0.128				11-871-1	94.25	CH:	32.70	PD:	22.00	DIA	
	SWT10195-2	94.50	2nd:	1.200	X	3.400	TUC	CAST IRON	PHOSPHATE	11-871-2	94.50	DIST1:	2.80	Head:	AH	8.00
	SWT10195-3	94.75		0.047	0.134				11-871-3	94.75	DIST2:		Skirt:	MS		
	SWT10195-4	95.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-871-4	95.00	DIST3:				
				0.079		0.110										
	REFERENCE #	TOP	2ND	OIL				REFERENCE #								
	13011-0P020							13101-0P020								
	13011-31100							13101-31030								
	13011-31210							13101-31120-A0								

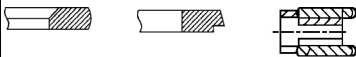
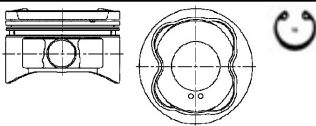
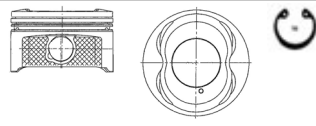


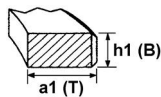
TOYOTA

TOYOTA

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



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



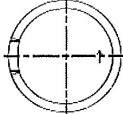
UD TRUCKS

UD TRUCKS

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

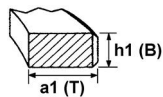
VOLKSWAGEN

VOLKSWAGEN

1.8L (109CID,1781CC),DOHC,4CYL, 81.000MM (3.189"), AEB, AWM, ATW, AWP / 1998-2005																
JETTA / 00-04 NEW BEETLE / 99-05 PASSAT / 98-05	SWL03456-0	81.00	Top:	1.500	X	3.050	BF	STEEL	CHROME	11-872-0	81.00	TL:	53.70	PL:	50.00	CHK.
	SWL03456-1	81.25		0.059		0.120				11-872-1	81.25	CH:	32.70	PD:	19.00	DIA
	SWL03456-2	81.50	2nd:	1.750	X	3.450	TUC	CAST IRON	PHOSPHATE	11-872-2	81.50	DIST1:	-1.90	Head:	AH	8.00
	SWL03456-3	81.75		0.069		0.136				11-872-3	81.75	DIST2:		Skirt:	MS	
	SWL03456-4	82.00	Oil:	2.000	X	2.800	NIFF-H	STEEL	NITRIDED	11-872-4	82.00	DIST3:				
				0.079		0.110										
	REFERENCE # 058 198 151 B 06B 198 151 B		TOP	2ND		OIL				REFERENCE # 058 107 065 F 06B 107 065 N		  				

1.8L (109CID,1786CC),DOHC,4CYL, 81.000MM (3.189"), PL / 1986-1989										
JETTA / 88-89	SWL02405-0	81.00	Top:	1.500	X	3.350	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
SCIROCCO / 86-88	SWL02405-1	81.25		0.059		0.132				
	SWL02405-2	81.50	2nd:	1.750	X	3.350	TUC	CAST IRON	PHOSPHATE	
	SWL02405-3	81.75		0.069		0.132				
	SWL02405-4	82.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	
				0.118		0.118				
	REFERENCE # 026 198 151 A		TOP			2ND			OIL	

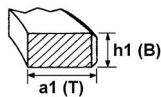
1.8L (109CID,1786CC),SOHC,4CYL, 81.000MM (3.189"), 2H,PG,RD / 1985-1993										
CABRIOLET / 90-93	SWL02405-0	81.00	Top:	1.500	X	3.350	BF-IB	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
CORRADO / 90-92	SWL02405-1	81.25		0.059		0.132				
GOLF / 88-92	SWL02405-2	81.50	2nd:	1.750	X	3.350	TUC	CAST IRON	PHOSPHATE	
JETTA / 85-88	SWL02405-3	81.75		0.069		0.132				
	SWL02405-4	82.00	Oil:	3.000	X	3.000	NIFF-S	STEEL	CHROME	
				0.118		0.118				
	REFERENCE # 026 198 151 A		TOP			2ND			OIL	



VOLKSWAGEN

VOLKSWAGEN

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



VOLKSWAGEN

VOLKSWAGEN

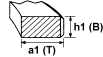
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	X	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT	PISTON PART NUMBER	MEMO						
2.5L (151CID,2480CC),DOHC,5CYL, 82.500MM (3.248"), BGP, BGQ, BPR, BPS,CBTA, CBUA / 2005-2012																
GOLF / 10-12	SWL03296-0 5	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
JETTA / 05-12	SWL03296-1 5	82.75		0.047	0.122											
JETTA SPORTWAGON / 09-12	SWL03296-2 5	83.00		2nd:	1.500	X	3.450	TUC	CAST IRON		CHROME					
	SWL03296-3 5	83.25	0.059	0.136												
NEW BEETLE / 06-10	SWL03296-4 5	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED							
RABBIT / 06-09				0.079	0.110											
REFERENCE #		TOP	2ND	OIL												
06D 198 151 C																
06F 198 151 A																
2.8L (169CID,2771CC),DOHC,6CYL, 82.500MM (3.248"), AHA, ATQ / 2000-2005																
PASSAT / 00-05	SWL03296-0 6	82.50	Top:	1.200	X	3.100	BF-IB	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWL03296-1 6	82.75		0.047	0.122											
	SWL03296-2 6	83.00		2nd:	1.500	X	3.450	TUC	CAST IRON		CHROME					
	SWL03296-3 6	83.25	0.059	0.136												
	SWL03296-4 6	83.50	Oil:	2.000	X	2.800	NIFF-S	STEEL	NITRIDED							
				0.079	0.110											
REFERENCE #		TOP	2ND	OIL												
06A 198 151 C																
06C 198 151 B																
3.8L (231CID,3778CC),OHV,6CYL, 96.000MM (3.780"), EGH / 2009-2010																
ROUTAN / 09-10	SWC10015-0	96.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	11-864-0	96.00	TL:	54.10	PL:	71.50	CHK.
	SWC10015-1	96.25		0.047	0.138				11-864-1	96.25	CH:	32.30	PD:	22.89	DIA	
	SWC10015-2	96.50		2nd:	1.500	X	4.000	T1-RB	CAST IRON	PHOSPHATE	11-864-2	96.50	DIST1:	-2.30	Head:	NONE
	SWC10015-3	96.75	0.059	0.157				11-864-3	96.75	DIST2:		Skirt:	MS			
	SWC10015-4	97.00	Oil:	3.000	X	3.200	NIFF-S	STEEL	NITRIDED	11-864-4	97.00	DIST3:				
				0.118	0.126											
REFERENCE #		TOP	2ND	OIL	REFERENCE #											
4773023					4666129AA											
68001386AA					5019338AA											
4.0L (241CID,3952CC),SOHC,6CYL, 96.000MM (3.780"), EGQ & EGS / 2009-2010																
ROUTAN / 09-10	SWC10013-0	96.00	Top:	1.200	X	3.500	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SWC10013-1	96.25		0.047	0.138											
	SWC10013-2	96.50		2nd:	1.500	X	4.000	TUC	CAST IRON		PHOSPHATE					
	SWC10013-3	96.75	0.059	0.157												
	SWC10013-4	97.00	Oil:	3.000	X	3.450	NIFF-S	STEEL	CHROME							
				0.118	0.136											
REFERENCE #		TOP	2ND	OIL												
4897035AA																
4897035AB																

ADDITIONS

[illegible]

COMMERCIAL VEHICLE APPLICATIONS

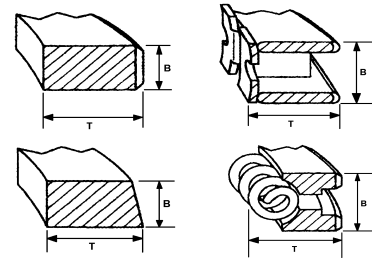
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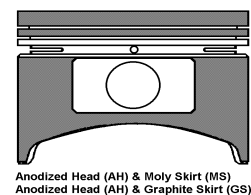
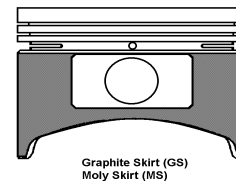
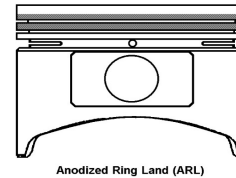
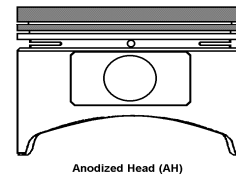
MAKER NAME

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

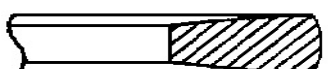
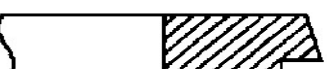
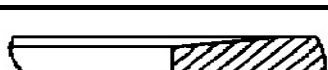
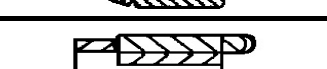
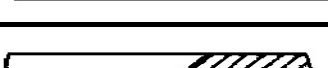
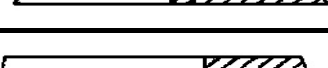
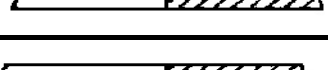
- 1 : ENGINE by FUEL TYPE
- 2 : PISTON RING PART NUMBER
- 3 : DIAMETER (mm)
- 4 : REFERENCE NUMBER for PISTON RINGS
- 5 : TOP RING WIDTH (mm)
- 6 : TOP RING WIDTH (inch)
- 7 : TOP RING RADIAL WALL THICKNESS (mm)
- 8 : TOP RING RADIAL WALL THICKNESS (inch)
- 9 : TOP RING SHAPE CODE
- 10 : TOP RING MATERIAL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



B: WIDTH
T: RADIAL WALL THICKNESS



PISTON RING SHAPE

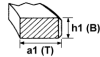
	BF		T1-K1
	Barrel Face		Taper Face Double Keystone
	BF-IB		T1-K2
	Barrel Face Inner Bevel		Taper Face Single Keystone
	BF-K1		TUC
	Barrel Face Double Keystone		Taper Under Cut
	BF-K1-IB		TUC-RB
	Barrel Face Double Keystone Inner Bevel		Taper Under Cut Reverse Bevel
	BF-K2		TUH
	Barrel Face Single Keystone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

JOINT SHAPE

	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		

COMMERCIAL VEHICLE APPLICATIONS

CHRYSLER

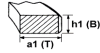


CHRYSLER

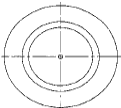
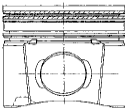
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
3.6L (220.0 CID, 3,604.0 CC), DOHC, 6CYL, 24VALVE, 96.00mm (3.780"), PENTASTAR 3.6																	
GASOLINE ENGINE	SWC10025-0	96.00	TOP:	1.500	x	3.500	BF	STEEL	NITRIDED	11-916-0	96.00	TL:	51.80	PL:	52.00	CHK. DIA	
	SWC10025-1	96.25		0.059		0.138				11-916-1	96.25	CH:	28.70	PD:	22.00		
	SWC10025-2	96.50	2ND:	1.500	x	4.700	TUC	CAST IRON	PHOSPHATE	11-916-2	96.50	DIST1:	-0.30	HEAD:	AH		
	SWC10025-3	96.75		0.059		0.185				11-916-3	96.75	DIST2:		SKIRT:	MS		
	SWC10025-4	97.00	OIL:	2.500	x	2.850	NIFF-H	STEEL	NITRIDED	11-916-4	97.00	DIST3:					
					0.098		0.112										
	REFERENCE #:	68078776AA	TOP	2ND	OIL	REFERENCE #:						5018018AB					
	5.2L (318.0 CID, 5,211.0 CC), DOHC, 8CYL, 16VALVE, 99.31mm (3.910"), MAGNUM 5.2																
	GASOLINE ENGINE	SWC10019-0	99.31	TOP:	1.980	x	4.500	BF-IB	DUCTILE IRON	NITRIDED	11-821-0	99.31	TL:	86.40	PL:	76.00	CHK. DIA
		SWC10019-1	99.56		0.078	x	0.177				11-821-1	99.56	CH:	43.80	PD:	22.00	
SWC10019-2		99.81	2ND:	1.980	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-821-2	99.81	DIST1:		HEAD:	NONE		
SWC10019-3		100.06		0.078	x	0.177				11-821-3	100.06	DIST2:		SKIRT:	NONE		
SWC10019-4		100.31	OIL:	4.760	x	4.200	NIFF-S	STEEL	NITRIDED	11-821-4	100.31	DIST3:					
					0.187	x	0.165										
REFERENCE #:		2808550	TOP	2ND	OIL	REFERENCE #:						4397779					
2808553																	
3780007																	
5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.917"), HEMI 5.7																	
GASOLINE ENGINE	SWC10016-0	99.50	TOP:	1.500	x	3.500	BF	STEEL	NITRIDED	11-873-0	99.50	TL:	58.70	PL:	71.00	CHK. DIA	
	SWC10016-1	99.75		0.059	x	0.138				11-873-1	99.75	CH:	30.70	PD:	24.00		
	SWC10016-2	100.00	2ND:	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-873-2	100.00	DIST1:	4.00	HEAD:	AH		
	SWC10016-3	100.25		0.059	x	0.177				11-873-3	100.25	DIST2:		SKIRT:	MS		
	SWC10016-4	100.50	OIL:	3.000	x	2.850	NIFF-S	STEEL	NITRIDED	11-873-4	100.50	DIST3:					
					0.118	x	0.112										
	REFERENCE #:	5086002AA	TOP	2ND	OIL	REFERENCE #:						5086010AB (LEFT)					
	5086002AA									5086011AB (RIGHT)							
	5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.917"), HEMI 5.7																
	GASOLINE ENGINE	SWC10016-0	99.50	TOP:	1.500	x	3.500	BF	STEEL	NITRIDED	11-861-0	99.50	TL:	59.00	PL:	71.00	CHK. DIA
SWC10016-1		99.75		0.059	x	0.138				11-861-1	99.75	CH:	31.00	PD:	24.00		
SWC10016-2		100.00	2ND:	1.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-861-2	100.00	DIST1:	4.00	HEAD:	AH		
SWC10016-3		100.25		0.059	x	0.177				11-861-3	100.25	DIST2:		SKIRT:	MS		
SWC10016-4		100.50	OIL:	3.000	x	2.850	NIFF-S	STEEL	NITRIDED	11-861-4	100.50	DIST3:					
					0.118	x	0.112										
REFERENCE #:		5086002AA	TOP	2ND	OIL	REFERENCE #:						53021539AD (LEFT)					
5086002AA										53021538AD (RIGHT)							
5.7L (345.0 CID, 5,654.0 CC), OHV, 8CYL, 16VALVE, 99.50mm (3.910"), HEMI 5.7																	
GASOLINE ENGINE		SWC10024-0	99.50	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	11-913-0	99.50	TL:	53.30	PL:	75.00	CHK. DIA
	SWC10024-1	99.75		0.047	x	0.122				11-913-1	99.75	CH:	30.00	PD:	24.00		
	SWC10024-2	100.00	2ND:	1.200	x	4.000	TUC	CAST IRON	PHOSPHATE	11-913-2	100.00	DIST1:	2.30	HEAD:	AH		
	SWC10024-3	100.25		0.047	x	0.157				11-913-3	100.25	DIST2:		SKIRT:	MS		
	SWC10024-4	100.50	OIL:	2.000	x	2.700	NIFF-H	STEEL	NITRIDED	11-913-4	100.50	DIST3:					
					0.079	x	0.106										
	REFERENCE #:	68046210AB	TOP	2ND	OIL	REFERENCE #:						53022257AE (LEFT)					
	68046210AB									53022257AE (RIGHT)							
	5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 24VALVE, 102.00mm (4.016"), ISB 5.9																
	DIESEL ENGINE	SDC10022-0	102.00	TOP:	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	11-856-0	102.00	TL:	105.20	PL:	83.00	CHK. DIA
SDC10022-1		102.25		0.112	x	0.165				11-856-1	102.25	CH:	71.40	PD:	40.00		
SDC10022-2		102.50	2ND:	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE	11-856-2	102.50	DIST1:	-12.50	HEAD:	NONE		
SDC10022-3		102.75		0.094	x	0.169				11-856-3	102.75	DIST2:		SKIRT:	NONE		
SDC10022-4		103.00	OIL:	4.000	x	4.300	E-BC16	CAST IRON	CHROME	11-856-4	103.00	DIST3:					
					0.157	x	0.169										
REFERENCE #:		4089258	TOP	2ND	OIL	REFERENCE #:						3970192					
4089258																	

COMMERCIAL VEHICLE APPLICATIONS

CHRYSLER



CHRYSLER

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 24VALVE, 102.00mm (4.016"), 6BT									TURBO							
DIESEL ENGINE	SDC10022-0	102.00	TOP:	2.840	x	4.200	BF-K1	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDC10022-1	102.25		0.112	x	0.165										
	SDC10022-2	102.50	2ND:	2.385	x	4.300	T1-RB	CAST IRON	PHOSPHATE							
	SDC10022-3	102.75		0.094	x	0.169										
	SDC10022-4	103.00	OIL:	4.000	x	4.300	E-BC16	CAST IRON	CHROME							
				0.157	x	0.169										
	REFERENCE #: 4089258		TOP	2ND			OIL									
																
6.7L (408.0 CID, 6,690.0 CC), OHV, 6CYL, 24VALVE, 107.00mm (4.213"), ISB 5.9									TURBO							
DIESEL ENGINE	SDC10023-0	107.00	TOP:	2.750	x	4.400	BF-K1	DUCTILE IRON	CHROME	11-885-0	107.00	TL:	103.20	PL:	90.50	CHK. DIA
	SDC10023-1	107.25		0.108	x	0.173				11-885-1	107.25	CH:	69.40	PD:	40.00	
	SDC10023-2	107.50	2ND:	2.500	x	4.500	T1-RB	CAST IRON	PHOSPHATE	11-885-2	107.50	DIST1:	-22.00	HEAD:	NONE	
	SDC10023-3	107.75		0.098	x	0.177				11-885-3	107.75	DIST2:		SKIRT:	NONE	
	SDC10023-4	108.00	OIL:	3.500	x	4.150	E-BC16	CAST IRON	CHROME	11-885-4	108.00	DIST3:				
				0.138	x	0.163										
	REFERENCE #: 4955366		TOP	2ND			OIL			REFERENCE #: 4955365						
																

COMMERCIAL VEHICLE APPLICATIONS

FORD

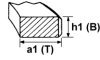


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
4.2L (256.0 CID, 4,195.0 CC), OHV, 6CYL, 12VALVE, 96.80mm (3.811"), ESSEX 42																
GASOLINE ENGINE	SWF30004-0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

COMMERCIAL VEHICLE APPLICATIONS

FORD

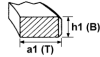


FORD

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

COMMERCIAL VEHICLE APPLICATIONS

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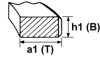


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
4.8L (294.0 CID, 4,818.0 CC), OHV, 8CYL, 16VALVE, 96.00mm (3.780"), Vortec 4800 LY2										
GASOLINE ENGINE	SWG10005-0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

COMMERCIAL VEHICLE APPLICATIONS

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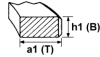


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LB7, LLY										TURBO						
DIESEL ENGINE	SDI10183-0	103.00	TOP:	2.948	x	3.900	BF-K1	STEEL	NITRIDED	11-884-0	103.00	TL:	89.82	PL:	81.00	CHK. DIA 20.00
	SDI10183-1	103.25		0.116	x	0.154				11-884-1	103.25	CH:	49.82	PD:	34.50	
	SDI10183-2	103.50	2ND:	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE	11-884-2	103.50	DIST1:	-15.20	HEAD:	NONE	
	SDI10183-3	103.75		0.079	x	0.173				11-884-3	103.75	DIST2:		SKIRT:	MS	
	SDI10183-4	104.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED	11-884-4	104.00	DIST3:				
				0.118	x	0.118										
	REFERENCE #:		TOP	2ND	OIL				REFERENCE #:							
	88894243								97303756 (LEFT)							
									97303755 (RIGHT)							
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LBZ, LMM, LGH										TURBO						
DIESEL ENGINE	SDI10183-0	103.00	TOP:	2.948	x	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDI10183-1	103.25		0.116	x	0.154										
	SDI10183-2	103.50	2ND:	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE							
	SDI10183-3	103.75		0.079	x	0.173										
	SDI10183-4	104.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED							
				0.118	x	0.118										
	REFERENCE #:		TOP	2ND	OIL											
	88894243															
6.6L (403.0 CID, 6,599.0 CC), OHV, 8CYL, 32VALVE, 103.0mm (4.055"), DURAMAX LML										TURBO						
DIESEL ENGINE	SDI10183-0	103.00	TOP:	2.948	x	3.900	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDI10183-1	103.25		0.116	x	0.154										
	SDI10183-2	103.50	2ND:	2.000	x	4.400	T1-IC	CAST IRON	PHOSPHATE							
	SDI10183-3	103.75		0.079	x	0.173										
	SDI10183-4	104.00	OIL:	3.000	x	3.000	E-BC16	STEEL	NITRIDED							
				0.118	x	0.118										
	REFERENCE #:		TOP	2ND	OIL											
	88894243															
7.8L (475.0 CID, 7,785.0 CC), SOHC, 6CYL, 24VALVE, 115.0mm (4.528"), DURAMAX LG4										TURBO						
DIESEL ENGINE	SDI10178-0	115.00	TOP:	2.948	x	4.100	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SDI10178-1	115.25		0.116	x	0.161										
	SDI10178-2	115.50	2ND:	2.000	x	4.300	T1-IB	STEEL	NITRIDED							
	SDI10178-3	115.75		0.079	x	0.169										
	SDI10178-4	116.00	3RD:	2.500	x	4.800	TUC	CAST IRON	CHROME							
			OIL:	3.000	x	3.100	E-BC16	STEEL	NITRIDED							
				0.118	x	0.122										
	REFERENCE #:		TOP	2ND	3RD	OIL										
	94391502															

COMMERCIAL VEHICLE APPLICATIONS

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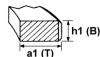


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
5.1L (313.0 CID, 5,123.0 CC), 4CYL, 112.0mm (4.409"), J05E										
DIESEL ENGINE	SDH20108-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20108-1	112.25		0.098	x	0.163				
	SDH20108-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH20108-3	112.75		0.079	x	0.169				
	SDH20108-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-E0350		TOP	2ND	OIL						
5.3L (330.0 CID, 5,307.0 CC), 4CYL, 114.0mm (4.488"), J05C										
DIESEL ENGINE	SDH20081-0	114.00	TOP:	3.000	x	4.500	BF	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20081-1	114.25		0.118	x	0.177				
	SDH20081-2	114.50	2ND:	2.000	x	4.300	T1-IB	STEEL	NITRIDED	
	SDH20081-3	114.75		0.079	x	0.169				
	SDH20081-4	115.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-3391B 13011-1380A		TOP	2ND	OIL						
5.3L (330.0 CID, 5,307.0 CC), 4CYL, 114.0mm (4.488"), J05C										
DIESEL ENGINE	SDH20086-0	114.00	TOP:	2.500	x	4.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20086-1	114.25		0.098	x	0.169				
	SDH20086-2	114.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH20086-3	114.75		0.079	x	0.169				
	SDH20086-4	115.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-3880A 13011-3940A 13011-3221A		TOP	2ND	OIL						
6.4L (391.0 CID, 6,403.0 CC), 5CYL, 112.0mm (4.409"), J07E										
DIESEL ENGINE	SDH30104-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30104-1	112.25		0.098	x	0.163				
	SDH30104-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH30104-3	112.75		0.079	x	0.169				
	SDH30104-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-4050A		TOP	2ND	OIL						
6.4L (391.0 CID, 6,403.0 CC), 5CYL, 112.0mm (4.409"), J07E										
DIESEL ENGINE	SDH30109-0	112.00	TOP:	2.948	x	4.100	BF-K1	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH30109-1	112.25		0.116	x	0.161				
	SDH30109-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH30109-3	112.75		0.079	x	0.169				
	SDH30109-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-E0370		TOP	2ND	OIL						
6.6L (405.0 CID, 6,634.0 CC), 5CYL, 114.0mm (4.488"), J07C										
DIESEL ENGINE	SDH20087-0	114.00	TOP:	2.500	x	4.300	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDH20087-1	114.25		0.098	x	0.169				
	SDH20087-2	114.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED	
	SDH20087-3	114.75		0.079	x	0.169				
	SDH20087-4	115.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED	
				0.157	x	0.171				
REFERENCE #: 13011-3660A 13011-3900A		TOP	2ND	OIL						

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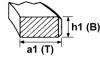


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
6.6L (405.0 CID, 6,634.0 CC), 5CYL, 114.0mm (4.488"), J07C											
DIESEL ENGINE	SDH20082-0	114.00	TOP:	3.000	x	4.500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

COMMERCIAL VEHICLE APPLICATIONS

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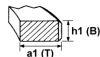


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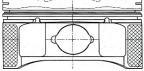
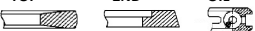
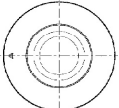
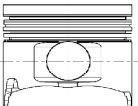
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO		
2.4L (145.0 CID, 2,369.0 CC), 4CYL, 86.00mm (3.386"), C240												
DIESEL ENGINE	SDI10051-0	86.00	TOP:	2.000	x	3.500	T1	DUCTILE IRON	PHOSPHATE	Pistons for this application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

COMMERCIAL VEHICLE APPLICATIONS

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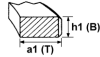


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
6.0L (364.0 CID, 5,967.0 CC), OHV, 8CYL, 16VALVE, 101.60mm (4.000"), Vortec 6000 L96																	
GASOLINE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

COMMERCIAL VEHICLE APPLICATIONS

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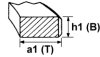


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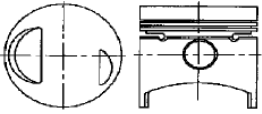
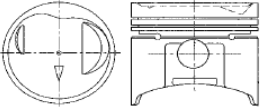
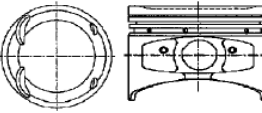
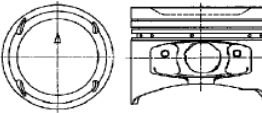
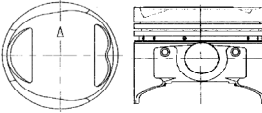
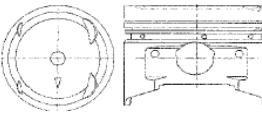
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
1.5L (91.0 CID, 1,484.0 CC), 4CYL, 75.00mm (2.953"), UA																
GASOLINE ENGINE	SCT20010-0	75.00	TOP:	2.500	x	3.300	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SCT20010-1	75.25		0.098	x	0.130										
	SCT20010-2	75.50	2ND:	2.500	x	3.300	TUC	CAST IRON	PHOSPHATE							
	SCT20010-3	75.75		0.098	x	0.130										
	SCT20010-4	76.00	OIL:	4.000	x	3.300	BC1	CAST IRON	CHROME							
				0.157	x	0.130										
REFERENCE #: 0107-11-999		TOP	2ND	OIL												
2.0L (121.0 CID, 1,985.0 CC), 4CYL, 82.00mm (3.228"), VA																
GASOLINE ENGINE	SCT20012-0	82.00	TOP:	2.500	x	3.600	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.						
	SCT20012-1	82.25		0.098	x	0.142										
	SCT20012-2	82.50	2ND:	2.500	x	3.600	T1	CAST IRON	PHOSPHATE							
	SCT20012-3	82.75		0.098	x	0.142										
	SCT20012-4	83.00	OIL:	4.500	x	3.600	BC16	CAST IRON	CHROME							
				0.177	x	0.142										
REFERENCE #: 0164-11-999		TOP	2ND	OIL												
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-582-0	86.00	TL:	71.50	PL:	66.00	CHK. DIA 15.00
	SWT20048-1	86.25		0.059	x	0.128				11-582-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-582-2	86.50	DIST1:	-7.00	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-582-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-582-4	87.00	DIST3:				
				0.157	x	0.126										
REFERENCE #: F2Y1-11-SC0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F2Y2-11-SA0A						
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-583-0	86.00	TL:	71.00	PL:	67.00	CHK. DIA 10.00
	SWT20048-1	86.25		0.059	x	0.128				11-583-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-583-2	86.50	DIST1:	-5.40	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-583-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-583-4	87.00	DIST3:				
				0.157	x	0.126										
REFERENCE #: F2Y1-11-SC0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F2Y4-11-SA0A						
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), F2																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-573-0	86.00	TL:	71.40	PL:	67.00	CHK. DIA 15.00
	SWT20048-1	86.25		0.059	x	0.128				11-573-1	86.25	CH:	36.50	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-573-2	86.50	DIST1:	-9.50	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-573-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-573-4	87.00	DIST3:				
				0.157	x	0.126										
REFERENCE #: F2Y1-11-SC0 F801-23-130		TOP	2ND	OIL						REFERENCE #: F220-11-SA0						
2.2L (133.0 CID, 2,184.0 CC), SOHC, 4CYL, 16VALVE, 86.00mm (3.386"), FE																
GASOLINE ENGINE	SWT20048-0	86.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-129-0	86.00	TL:	70.80	PL:	67.00	CHK. DIA 10.00
	SWT20048-1	86.25		0.059	x	0.128				11-129-1	86.25	CH:	34.00	PD:	22.00	
	SWT20048-2	86.50	2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-129-2	86.50	DIST1:	-2.60	HEAD:	NONE	
	SWT20048-3	86.75		0.059	x	0.150				11-129-3	86.75	DIST2:		SKIRT:	NONE	
	SWT20048-4	87.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-129-4	87.00	DIST3:				
				0.157	x	0.126										
REFERENCE #: F2Y1-11-SC0 F801-23-130		TOP	2ND	OIL						REFERENCE #: FE01-23-200						

COMMERCIAL VEHICLE APPLICATIONS

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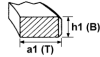


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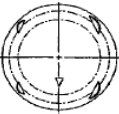
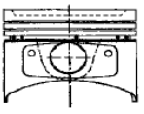
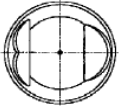
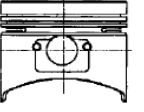
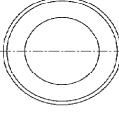
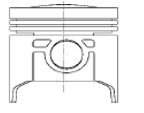
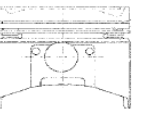
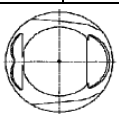
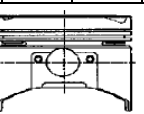
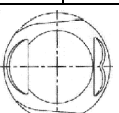
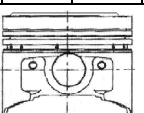
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
1.2L (76.0 CID, 1,238.0 CC), SOHC, 4CYL, 8VALVE, 73.00mm (2.784"), 4G33																	
GASOLINE ENGINE	SWM31016-0	73.00	TOP:	1.500	x	3.300	BF	STEEL	CHROME	11-249-0	73.00	TL:	70.00	PL:	64.00	CHK. DIA 20.00	
	SWM31016-1	73.25		0.059	x	0.130				11-249-1	73.25	CH:		32.70	PD:		19.00
	SWM31016-2	73.50		2ND:	1.500	x	3.300	T1	CAST IRON	PHOSPHATE	11-249-2	73.50	DIST1:	HEAD:	NONE		
	SWM31016-3	73.75			0.059	x	0.130				11-249-3	73.75	DIST2:				NONE
	SWM31016-4	74.00		OIL:	4.000	x	3.000	NIFF-S	STEEL	CHROME	11-249-4	74.00	DIST3:	SKIRT:	NONE		
				0.157	x	0.118											
	REFERENCE #: MD009625 MD115500		TOP			2ND		OIL		REFERENCE #: MD009580 MD009581							
	1.6L (97.0 CID, 1,597.0 CC), SOHC, 4CYL, 8VALVE, 76.90mm (3.028"), 4G32																
	GASOLINE ENGINE	SWM31043-0	76.90	TOP:	1.500	x	3.100	BF	STEEL	CHROME	11-3024-0	76.90	TL:	68.00	PL:	64.00	CHK. DIA 16.00
		SWM31043-1	77.15		0.059	x	0.122				11-3024-1	77.15	CH:		34.00	PD:	
SWM31043-2		77.40	2ND:		1.500	x	3.500	T1	CAST IRON	PHOSPHATE	11-3024-2	77.40	DIST1:	HEAD:	NONE		
SWM31043-3		77.65			0.059	x	0.138				11-3024-3	77.65	DIST2:			SKIRT:	
SWM31043-4		77.90	OIL:		4.000	x	3.800	NIFF-S	STEEL	CHROME	11-3024-4	77.90	DIST3:				
				0.157	x	0.150											
REFERENCE #: MD012765 MD062387		TOP			2ND		OIL		REFERENCE #: MD105495								
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63																	
GASOLINE ENGINE		SWM31048-0	85.00	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	11-540-0	85.00	TL:	67.00	PL:	66.00	CHK. DIA 10.00
		SWM31048-1	85.25		0.047	x	0.122				11-540-1	85.25	CH:		35.00	PD:	
	SWM31048-2	85.50	2ND:		1.500	x	3.800	TUC	CAST IRON	CHROME	11-540-2	85.50	DIST1:	HEAD:	NONE		
	SWM31048-3	85.75			0.059	x	0.150				11-540-3	85.75	DIST2:			SKIRT:	
	SWM31048-4	86.00	OIL:		3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-540-4	86.00	DIST3:				
				0.118	x	0.100											
	REFERENCE #: MD133485		TOP			2ND		OIL		REFERENCE #: MD1292242							
	2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63																
	GASOLINE ENGINE	SWM31048-0	85.00	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	11-546-0	85.00	TL:	67.00	PL:	66.00	CHK. DIA 26.00
		SWM31048-1	85.25		0.047	x	0.122				11-546-1	85.25	CH:		35.00	PD:	
SWM31048-2		85.50	2ND:		1.500	x	3.800	TUC	CAST IRON	CHROME	11-546-2	85.50	DIST1:	HEAD:	AH		
SWM31048-3		85.75			0.059	x	0.150				11-546-3	85.75	DIST2:			SKIRT:	
SWM31048-4		86.00	OIL:		3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-D807-4	86.00	DIST3:				
				0.118	x	0.100											
REFERENCE #: MD133485		TOP			2ND		OIL		REFERENCE #: MD129232								
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), MAGNUM 5.9 / 1994-2003																	
GASOLINE ENGINE		SWM31048-0	85.00	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	11-3045-0	85.00	TL:	67.50	PL:	62.00	CHK. DIA 10.00
		SWM31048-1	85.25		0.047	x	0.122				11-3045-1	85.25	CH:		35.50	PD:	
	SWM31048-2	85.50	2ND:		1.500	x	3.800	TUC	CAST IRON	CHROME	11-3045-2	85.50	DIST1:	HEAD:	NONE		
	SWM31048-3	85.75			0.059	x	0.150				11-3045-3	85.75	DIST2:			SKIRT:	
	SWM31048-4	86.00	OIL:		3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-3045-4	86.00	DIST3:				
				0.118	x	0.100											
	REFERENCE #: MD133485		TOP			2ND		OIL		REFERENCE #: MD188289							
	2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63																
	GASOLINE ENGINE	SWM31071-0	85.00	TOP:	1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-718-0	85.00	TL:	67.00	PL:	62.00	CHK. DIA 10.00
		SWM31071-1	85.25		0.047	x	0.122				11-718-1	85.25	CH:		35.00	PD:	
SWM31071-2		85.50	2ND:		1.500	x	3.800	TUC	CAST IRON	CHROME	11-718-2	85.50	DIST1:	HEAD:	NONE		
SWM31071-3		85.75			0.059	x	0.150				11-718-3	85.75	DIST2:			SKIRT:	
SWM31071-4		86.00	OIL:		3.000	x	2.550	NIFF-S	STEEL	NITRIDED	11-718-4	86.00	DIST3:				
				0.118	x	0.100											
REFERENCE #: MD195850		TOP			2ND		OIL		REFERENCE #: MD190262								

COMMERCIAL VEHICLE APPLICATIONS

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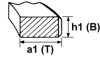


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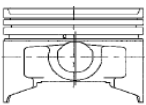
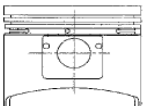
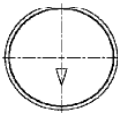
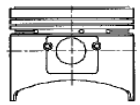
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), 4G63																	
GASOLINE ENGINE	SWM31071-0	85.00	TOP:	1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-719-0	85.00	TL:	67.00	PL:	62.00	CHK. DIA 10.00	
	SWM31071-1	85.25		0.047	x	0.122				11-719-1	85.25	CH:	35.00	PD:	22.00		
	SWM31071-2	85.50		2ND:	1.500	x	3.800	TUC	CAST IRON	CHROME	11-719-2	85.50	DIST1:	-5.40	HEAD:		AH
	SWM31071-3	85.75			0.059	x	0.150				11-719-3	85.75	DIST2:		SKIRT:		NONE
	SWM31071-4	86.00			3.000	x	2.550				11-719-4	86.00	DIST3:				
			OIL:	0.118	x	0.100	NIFF-S	STEEL	NITRIDED								
	REFERENCE #: MD195850		TOP	2ND	OIL	REFERENCE #: MD308200											
	2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), G63B																
	GASOLINE ENGINE	SWM31013-0	85.00	TOP:	2.000	x	3.100	BF	STEEL	NITRIDED	11-027-0	85.00	TL:	72.20	PL:	72.00	CHK. DIA 30.00
		SWM31013-1	85.25		0.079	x	0.122				11-027-1	85.25	CH:	35.20	PD:	21.00	
SWM31013-2		85.50	2ND:		2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-027-2	85.50	DIST1:	-5.20	HEAD:	NONE	
SWM31013-3		85.75			0.079	x	0.146				11-027-3	85.75	DIST2:	-7.70	SKIRT:	NONE	
SWM31013-4		86.00			4.000	x	3.250				11-027-4	86.00	DIST3:				
			OIL:	0.157	x	0.128	NIFF-S	STEEL	CHROME								
REFERENCE #: MD040640 MD040840 MD042580			TOP	2ND	OIL	REFERENCE #: MD040591											
2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), G63B																	
GASOLINE ENGINE		SWM31013-0	85.00	TOP:	2.000	x	3.100	BF	STEEL	NITRIDED	11-3042-0	85.00	TL:	74.00	PL:	72.00	CHK. DIA 22.00
		SWM31013-1	85.25		0.079	x	0.122				11-3042-1	85.25	CH:	35.20	PD:	21.00	
	SWM31013-2	85.50	2ND:		2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-3042-2	85.50	DIST1:	2.00	HEAD:	NONE	
	SWM31013-3	85.75			0.079	x	0.146				11-3042-3	85.75	DIST2:		SKIRT:	NONE	
	SWM31013-4	86.00			4.000	x	3.250				11-3042-4	86.00	DIST3:				
			OIL:	0.157	x	0.128	NIFF-S	STEEL	CHROME								
	REFERENCE #: MD040640 MD040840 MD042580		TOP	2ND	OIL	REFERENCE #: MD040821											
	2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), G63B																
	GASOLINE ENGINE	SWM31034-0	85.00	TOP:	1.500	x	3.050	BF	STEEL	CHROME	11-539-0	85.00	TL:	72.30	PL:	72.00	CHK. DIA 17.00
		SWM31034-1	85.25		0.059	x	0.120				11-539-1	85.25	CH:	35.20	PD:	21.00	
SWM31034-2		85.50	2ND:		1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-539-2	85.50	DIST1:	-5.00	HEAD:	NONE	
SWM31034-3		85.75			0.059	x	0.150				11-539-3	85.75	DIST2:	-7.30	SKIRT:	NONE	
SWM31034-4		86.00			4.000	x	3.150				11-539-4	86.00	DIST3:				
			OIL:	0.157	x	0.124	NIFF-S	STEEL	CHROME								
REFERENCE #: MD100467			TOP	2ND	OIL	REFERENCE #: MD100372											
2.4L (143.0 CID, 2,350.0 CC), SOHC, 4CYL, 12VALVE, 86.50mm (3.406"), 4G64																	
GASOLINE ENGINE		SWM31037-0	86.50	TOP:	1.500	x	3.050	BF	STEEL	CHROME	11-538-0	86.50	TL:	72.40	PL:	72.00	CHK. DIA 15.00
		SWM31037-1	86.75		0.059	x	0.120				11-538-1	86.75	CH:	34.90	PD:	21.00	
	SWM31037-2	87.00	2ND:		1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-538-2	87.00	DIST1:	0.50	HEAD:	NONE	
	SWM31037-3	87.25			0.059	x	0.150				11-538-3	87.25	DIST2:	0.30	SKIRT:	NONE	
	SWM31037-4	87.50			4.000	x	3.150				11-538-4	87.50	DIST3:				
			OIL:	0.157	x	0.124	NIFF-S	STEEL	CHROME								
	REFERENCE #: MD085346		TOP	2ND	OIL	REFERENCE #: MD105377											
	2.4L (143.0 CID, 2,350.0 CC), SOHC, 4CYL, 12VALVE, 86.50mm (3.406"), 4G64																
	GASOLINE ENGINE	SWM31072-0	86.50	TOP:	1.500	x	3.050	BF-IB	STEEL	CHROME	11-536-0	86.50	TL:	67.40	PL:	62.00	CHK. DIA 10.00
		SWM31072-1	86.75		0.059	x	0.120				11-536-1	86.75	CH:	35.00	PD:	22.00	
SWM31072-2		87.00	2ND:		1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-536-2	87.00	DIST1:	0.30	HEAD:	NONE	
SWM31072-3		87.25			0.059	x	0.150				11-536-3	87.25	DIST2:	0.40	SKIRT:	NONE	
SWM31072-4		87.50			4.000	x	3.150				11-536-4	87.50	DIST3:				
			OIL:	0.157	x	0.124	NIFF-S	STEEL	CHROME								
REFERENCE #: MD195872			TOP	2ND	OIL	REFERENCE #: MD1988998											

COMMERCIAL VEHICLE APPLICATIONS

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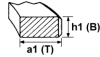


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
2.4L (143.0 CID, 2,350.0 CC), SOHC, 4CYL, 12VALVE, 86.50mm (3.406"), 4G64																	
GASOLINE ENGINE	SWM31116-0	86.50	TOP:	1.200	x	3.100	BF-IB	STEEL	CHROME	11-709-0	86.50	TL:	67.10	PL:	62.00	CHK. DIA 12.00	
	SWM31116-1	86.75		0.047	0.122	11-709-1				86.75	CH:	65.00	PD:	22.00			
	SWM31116-2	87.00		2ND:	1.500	x	3.800	TUC	CAST IRON	PHOSPHATE	11-709-2	87.00	DIST1:	-4.30	HEAD:		NONE
	SWM31116-3	87.25			0.059	0.150	11-709-3				87.25	DIST2:	SKIRT:	NONE			
	SWM31116-4	87.50			OIL:	2.800	x				2.550	11-709-4	87.50	DIST3:			
			0.110	0.100	NIFF-S	STEEL	CHROME										
	REFERENCE #: MD195828 MD194597		TOP	2ND	OIL	REFERENCE #: MD303071											
	2.6L (156.0 CID, 2,555.0 CC), SOHC, 4CYL, 12VALVE, 91.10mm (3.587"), G54B																
	GASOLINE ENGINE	SWM31047-0	91.10	TOP:	1.200	x	3.100	BF	DUCTILE IRON	CHROME	11-031-0	91.10	TL:	77.20	PL:	75.00	CHK. DIA 37.50
		SWM31047-1	91.35		0.047	0.122	11-031-1				91.35	CH:	35.20	PD:	22.00		
SWM31047-2		91.60	2ND:		1.500	x	3.800	T1	CAST IRON	CHROME	11-031-2	91.60	DIST1:	HEAD:	NONE		
SWM31047-3		91.85			0.059	0.150	11-031-3				91.85	DIST2:	SKIRT:	NONE			
SWM31047-4		92.10			OIL:	2.800	x				2.550	11-031-4	92.10	DIST3:			
			0.110	0.100	NIFF-S	STEEL	CHROME										
REFERENCE #: MD025089 MD026835 MD026920			TOP	2ND	OIL	REFERENCE #: MD026921											
2.6L (156.0 CID, 2,555.0 CC), SOHC, 4CYL, 12VALVE, 91.10mm (3.587"), G54B																	
GASOLINE ENGINE		SWM31039-0	91.10	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	11-035-0	91.10	TL:	78.30	PL:	79.00	CHK. DIA 25.00
		SWM31039-1	91.35		0.047	0.122	11-035-1				91.35	CH:	36.00	PD:	22.00		
	SWM31039-2	91.60	2ND:		1.500	x	3.800	T1	CAST IRON	PHOSPHATE	11-035-2	91.60	DIST1:	0.30	HEAD:	NONE	
	SWM31039-3	91.85			0.059	0.150	11-035-3				91.85	DIST2:	SKIRT:	NONE			
	SWM31039-4	92.10			OIL:	2.800	x				2.550	11-035-4	92.10	DIST3:			
			0.110	0.100	NIFF-S	STEEL	NITRIDED										
	REFERENCE #: MD061258 MD076170 MD101895		TOP	2ND	OIL	REFERENCE #: MD071172											

COMMERCIAL VEHICLE APPLICATIONS

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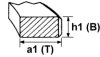


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
1.5L (91.0 CID, 1,487.0 CC), SOHC, 4CYL, 8VALVE, 76.00mm (2.992"), A15																
GASOLINE ENGINE	SWN30052-0	76.00	TOP:	1.200	x	3.050	BF	STEEL	CHROME	11-049-0	76.00	TL:	65.00	PL:	63.00	CHK. DIA 10.00
	SWN30052-1	76.25		0.047		0.120				11-049-1	76.25	CH:	30.00	PD:	19.00	
	SWN30052-2	76.50	2ND:	2.000	x	3.400	TUC	CAST IRON	PHOSPHATE	11-049-2	76.50	DIST1:	-6.50	HEAD:	NONE	
	SWN30052-3	76.75		0.079		0.134				11-049-3	76.75	DIST2:		SKIRT:	NONE	
	SWN30052-4	77.00	OIL:	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-049-4	77.00	DIST3:				
				0.157		0.128										
	REFERENCE #:		TOP	2ND	OIL					REFERENCE #:						
	12033-H7680									12010-H9802						
	12033-H9800															
	12033-H9810															
2.0L (121.0 CID, 1,982.0 CC), OHV, 4CYL, 87.20mm (3.433"), H20																
GASOLINE ENGINE	SWN30052-0	76.00	TOP:	1.200	x	3.050	BF	STEEL	CHROME	11-3208-0	76.00	TL:	65.00	PL:	63.00	CHK. DIA 10.00
	SWN30052-1	76.25		0.047		0.120				11-3208-1	76.25	CH:	30.00	PD:	19.00	
	SWN30052-2	76.50	2ND:	2.000	x	3.400	TUC	CAST IRON	PHOSPHATE	11-3208-2	76.50	DIST1:	-2.80	HEAD:	NONE	
	SWN30052-3	76.75		0.079		0.134				11-3208-3	76.75	DIST2:		SKIRT:	NONE	
	SWN30052-4	77.00	OIL:	4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3208-4	77.00	DIST3:				
				0.157		0.128										
	REFERENCE #:		TOP	2ND	OIL					REFERENCE #:						
	12033-H7680									12010-H9704						
	12033-H9800															
	12033-H9810															
2.0L (121.0 CID, 1,982.0 CC), OHV, 4CYL, 87.20mm (3.433"), H20																
GASOLINE ENGINE	SWN30069-0	87.20	TOP:	2.000	x	4.050	BF	CAST IRON	CHROME	11-247-0	87.20	TL:	84.00	PL:	73.00	CHK. DIA 0.00
	SWN30069-1	87.45		0.079		0.159				11-247-1	87.45	CH:	41.00	PD:	22.00	
	SWN30069-2	87.70	2ND:	2.500	x	4.050	TUC	CAST IRON	PHOSPHATE	11-247-2	87.70	DIST1:	-1.60	HEAD:	NONE	
	SWN30069-3	87.95		0.098		0.159				11-247-3	87.95	DIST2:		SKIRT:	NONE	
	SWN30069-4	88.20	OIL:	4.000	x	3.800	NIFF-S	STEEL	CHROME	11-247-4	88.20	DIST3:				
				0.157		0.150										
	REFERENCE #:		TOP	2ND	OIL					REFERENCE #:						
	12033-R9000									12010-74001						
	12033-Y4460									12010-R9001						
	12033-R9023															
2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22																
DIESEL ENGINE	Piston Rings for this application are not currently available Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information. Piston Ring: 83.00mm x 2.25mm x 2.00mm x 2.00mm x 4.00mm								11-3249-0	83.00	TL:	90.00	PL:	71.00	CHK. DIA 16.00	
									11-3249-1	83.25	CH:	48.00	PD:	26.00		
									11-3249-2	83.50	DIST1:	-0.60	HEAD:	NONE		
									11-3249-3	83.75	DIST2:	-2.00	SKIRT:	NONE		
									11-3249-4	84.00	DIST3:					
									REFERENCE #:							
									12010-R8110							
2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22																
DIESEL ENGINE	SDN31027-0	83.00	TOP:	2.500	x	3.500	BF	DUCTILE IRON	MOLY	11-068-0	83.00	TL:	90.00	PL:	71.00	CHK. DIA 15.00
	SDN31027-1	83.25		0.098		0.138				11-068-1	83.25	CH:	48.00	PD:	26.00	
	SDN31027-2	83.50	2ND:	2.500	x	3.400	T1-IC	CAST IRON	PHOSPHATE	11-068-2	83.50	DIST1:	-2.00	HEAD:	NONE	
	SDN31027-3	83.75		0.098		0.134				11-068-3	83.75	DIST2:	-0.50	SKIRT:	NONE	
	SDN31027-4	84.00	OIL:	4.500	x	3.900	E-BC3	CAST IRON	CHROME	11-068-4	84.00	DIST3:				
				0.177		0.154										
	REFERENCE #:		TOP	2ND	OIL					REFERENCE #:						
	12033-R8100									12010-36W10						
	12033-R8103									12010-R8111						
	12033-R8104															
2.4L (146.0 CID, 2,389.0 CC), SOHC, 4CYL, 8VALVE, 89.00mm (3.504"), Z24																
GASOLINE ENGINE	SWN30059-0	89.00	TOP:	1.500	x	3.250	BF	STEEL	CHROME	11-070-0	89.00	TL:	72.00	PL:	72.00	CHK. DIA 30.00
	SWN30059-1	89.25		0.059		0.128				11-070-1	89.25	CH:	34.00	PD:	21.00	
	SWN30059-2	89.50	2ND:	1.500	x	3.900	T1	CAST IRON	CHROME	11-070-2	89.50	DIST1:	-4.00	HEAD:	NONE	
	SWN30059-3	89.75		0.059		0.154				11-070-3	89.75	DIST2:		SKIRT:	NONE	
	SWN30059-4	90.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-070-4	90.00	DIST3:				
				0.157		0.126										
	REFERENCE #:		TOP	2ND	OIL					REFERENCE #:						
	12033-10W00									12010-30W01						
	12033-10W10									12010-30W11						

COMMERCIAL VEHICLE APPLICATIONS

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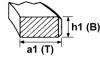


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
2.4L (146.0 CID, 2,389.0 CC), SOHC, 4CYL, 8VALVE, 89.00mm (3.504"), Z24i											
GASOLINE ENGINE	SWN30085-0	89.00	TOP:	2.000	x	3.080	BF-IB	STEEL	CHROME	11-238-0	89.00 TL: 70.40 PL: 66.50
	SWN30085-1	89.25		0.079	x	0.121				11-238-1	89.25 CH: 33.80 PD: 21.00
	SWN30085-2	89.50	2ND:	1.500	x	3.900	T1	CAST IRON	PHOSPHATE	11-238-2	89.50 DIST1: -4.00 HEAD: NONE
	SWN30085-3	89.75		0.059	x	0.154				11-238-3	89.75 DIST2: SKIRT: NONE
	SWN30085-4	90.00	OIL:	4.000	x	3.200	NIFF-S	STEEL	CHROME	11-238-4	90.00 DIST3:
				0.157	x	0.126					
	REFERENCE #:		TOP	2ND	OIL				REFERENCE #:		
	12033-83W00								12010-83W01		
	12033-13G10								12010-83W11		
											CHK. DIA 10.00
2.5L (151.0 CID, 2,472.0 CC), OHV, 4CYL, 92.00mm (3.622"), H25											
GASOLINE ENGINE	Piston Rings for this application are not currently available Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information. Piston Ring: 83.00mm x 2.25mm x 2.00mm x 2.00mm x 4.00mm								11-251-0	92.00 TL: 71.00 PL: 72.00	
									11-251-1	92.25 CH: 36.00 PD: 21.00	
									11-251-2	92.50 DIST1: -7.30 HEAD: NONE	
									11-251-3	92.75 DIST2: SKIRT: NONE	
									11-251-4	93.00 DIST3:	
											CHK. DIA 27.00
	REFERENCE #:								REFERENCE #:		
	12010-60K00								12010-60K00		
2.5L (152.0 CID, 2,488.0 CC), DOHC, 4CYL, 16VALVE, 89.00mm (3.504"), QR25DE											
GASOLINE ENGINE	SWN30140-0	89.00	TOP:	1.200	x	3.100	BF-IB	STEEL	NITRIDED	11-881-0	89.00 TL: 61.50 PL: 57.00
	SWN30140-1	89.25		0.047	x	0.122				11-881-1	89.25 CH: 32.90 PD: 19.99
	SWN30140-2	89.50	2ND:	1.200	x	3.800	T1	CAST IRON	CHROME	11-881-2	89.50 DIST1: 5.90 HEAD: ARL
	SWN30140-3	89.75		0.047	x	0.150				11-881-3	89.75 DIST2: SKIRT: MS
	SWN30140-4	90.00	OIL:	2.500	x	2.850	NIFF-S	STEEL	NITRIDED	11-881-4	90.00 DIST3:
				0.098	x	0.112					
	REFERENCE #:		TOP	2ND	OIL				REFERENCE #:		
	12033-EA000								A2010-EA000		
	12033-EA00B								A2010-EA001		
											CHK. DIA 9.50
3.2L (198.0 CID, 3,268.0 CC), 6CYL, 83.00mm (3.268"), SD33T											
DIESEL ENGINE	SDN31028-0	83.00	TOP:	2.500	x	3.500	BF-K2	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDN31028-1	83.25		0.098	x	0.138					
	SDN31028-2	83.50	2ND:	2.000	x	3.400	T1-IC	DUCTILE IRON	CHROME		
	SDN31028-3	83.75		0.079	x	0.134					
	SDN31028-4	84.00	OIL:	4.000	x	4.000	E-BC3	CAST IRON	CHROME		
				0.157	x	0.157					
	REFERENCE #:		TOP	2ND	OIL						
	12033-C8704										
4.0L (241.0 CID, 3,954.0 CC), DOHC, 6CYL, 24VALVE, 95.50mm (3.760"), VQ40DE											
GASOLINE ENGINE	SWN30131-0	95.50	TOP:	1.200	x	3.450	BF	STEEL	CHROME	11-878-0	95.50 TL: 55.10 PL: 58.00
	SWN30131-1	95.75		0.047	x	0.136				11-878-1	95.75 CH: 31.60 PD: 21.99
	SWN30131-2	96.00	2ND:	1.200	x	4.100	T1	CAST IRON	PHOSPHATE	11-878-2	96.00 DIST1: -3.00 HEAD: AH
	SWN30131-3	96.25		0.047	x	0.161				11-878-3	96.25 DIST2: SKIRT: MS
	SWN30131-4	96.50	OIL:	2.500	x	2.750	NIFF-S	STEEL	CHROME	11-878-4	96.50 DIST3:
				0.098	x	0.108					
	REFERENCE #:		TOP	2ND	OIL				REFERENCE #:		
	12033-8J100								12010-EA200		
									12010-EA20B		
											CHK. DIA 6.00
4.0L (241.0 CID, 3,954.0 CC), DOHC, 6CYL, 24VALVE, 95.50mm (3.760"), VQ40DE											
GASOLINE ENGINE	SWN30191-0	95.50	TOP:	1.200	x	3.100	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWN30191-1	95.75		0.047	x	0.122					
	SWN30191-2	96.00	2ND:	1.200	x	3.800	TUC	CAST IRON	CHROME		
	SWN30191-3	96.25		0.047	x	0.150					
	SWN30191-4	96.50	OIL:	2.500	x	2.850	NIFF-H	STEEL	NITRIDED		
				0.098	x	0.112					
	REFERENCE #:		TOP	2ND	OIL						
	12033-JP00A										

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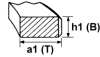


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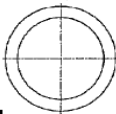
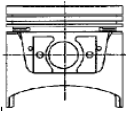
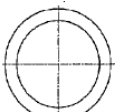
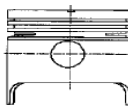
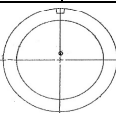
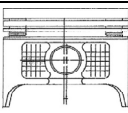
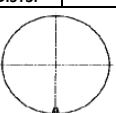
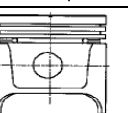
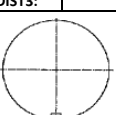
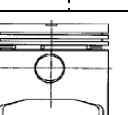
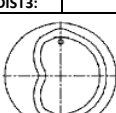
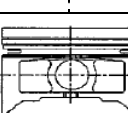
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
4.2L (254.0 CID, 4,169.0 CC), OHV, 6CYL, 96.00mm (3.780"), TB42																	
GASOLINE ENGINE	SWN30122-0	96.00	TOP:	2.000	x	3.300	BF	STEEL	NITRIDED	11-3299-0	96.00	TL:	55.40	PL:	59.00	CHK. DIA	
	SWN30122-1	96.25		0.079	0.130	11-3299-1				96.25	CH:	33.50	PD:	24.02			
	SWN30122-2	96.50	2ND:	2.000	x	4.200	T1	CAST IRON	PHOSPHATE	11-3299-2	96.50	DIST1:	2.00	HEAD:	NONE	10.00	
	SWN30122-3	96.75		0.079	0.165	11-3299-3				96.75	DIST2:		SKIRT:	MS			
	SWN30122-4	97.00	OIL:	4.000	x	3.250	NIFF-S	STEEL	NITRIDED	11-3299-4	97.00	DIST3:					
				0.157	0.128												
		REFERENCE #: 12033-03J00		TOP			2ND			OIL							
																	
5.6L (339.0 CID, 5,552.0 CC), DOHC, 8CYL, 32VALVE, 98.00mm (3.858"), VK56DE																	
GASOLINE ENGINE	SWN30149-0	98.00	TOP:	1.500	x	3.450	BF	STEEL	CHROME	11-879-0	98.00	TL:	52.00	PL:	59.60	CHK. DIA	
	SWN30149-1	98.25		0.059	0.136	11-879-1				98.25	CH:	31.60	PD:	22.00			
	SWN30149-2	98.50	2ND:	1.500	x	4.300	TUC	CAST IRON	PHOSPHATE	11-879-2	98.50	DIST1:	-4.20	HEAD:	AH	6.00	
	SWN30149-3	98.75		0.059	0.169	11-879-3				98.75	DIST2:		SKIRT:	MS			
	SWN30149-4	99.00	OIL:	2.500	x	2.600	NIFF-S	STEEL	CHROME	11-879-4	99.00	DIST3:					
				0.098	0.102												
		REFERENCE #: 12033-7S001 12033-EZ00A		TOP			2ND			OIL							
																	

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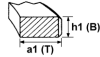


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
1.3L (82.0 CID, 1,345.0 CC), OHV, 4CYL, 76.60mm (3.016"), 3P																	
GASOLINE ENGINE	SWT10009-0	76.60	TOP:	2.000	x	3.500	T1	CAST IRON	CHROME	11-244-0	76.60	TL:	84.00	PL:	65.00	CHK. DIA 13.50	
	SWT10009-1	76.85		0.079	x	0.138				11-244-1	76.85	CH:	41.00	PD:	20.00		
	SWT10009-2	77.10	2ND:	2.000	x	3.500	T1	CAST IRON	PHOSPHATE	11-244-2	77.10	DIST1:		HEAD:	NONE		
	SWT10009-3	77.35		0.079	x	0.138				11-244-3	77.35	DIST2:		SKIRT:	NONE		
	SWT10009-4	77.60	OIL:	4.000	x	3.300	NIFF-S	STEEL	CHROME	11-244-4	77.60	DIST3:					
	REFERENCE #: 13011-23030		TOP 2ND OIL   						REFERENCE #: 13011-23010 13011-23011		  						
	1.3L (82.0 CID, 1,345.0 CC), OHV, 4CYL, 76.60mm (3.016"), 4P																
	GASOLINE ENGINE	SWT10009-0	76.60	TOP:	2.000	x	3.500	T1	CAST IRON	CHROME	11-245-0	76.60	TL:	84.00	PL:	65.00	CHK. DIA 13.50
		SWT10009-1	76.85		0.079	x	0.138				11-245-1	76.85	CH:	41.00	PD:	20.00	
		SWT10009-2	77.10	2ND:	2.000	x	3.500	T1	CAST IRON	PHOSPHATE	11-245-2	77.10	DIST1:		HEAD:	NONE	
SWT10009-3		77.35		0.079	x	0.138				11-245-3	77.35	DIST2:		SKIRT:	NONE		
SWT10009-4		77.60	OIL:	4.000	x	3.300	NIFF-S	STEEL	CHROME	11-245-4	77.60	DIST3:					
REFERENCE #: 13011-23030		TOP 2ND OIL   						REFERENCE #: 13011-78001 13011-96001		  							
1.5L (91.0 CID, 1,486.0 CC), OHV, 4CYL, 80.50mm (3.169"), 5K																	
GASOLINE ENGINE		SWT10099-0	80.50	TOP:	1.500	x	3.100	BF	STEEL	NITRIDED	11-3729-0	80.50	TL:	80.50	PL:	61.00	CHK. DIA 13.50
		SWT10099-1	80.75		0.059	x	0.122				11-3729-1	80.75	CH:	36.00	PD:	18.00	
		SWT10099-2	81.00	2ND:	1.500	x	3.650	T1	CAST IRON	PHOSPHATE	11-3729-2	81.00	DIST1:	-3.00	HEAD:	NONE	
	SWT10099-3	81.25		0.059	x	0.144				11-3729-3	81.25	DIST2:		SKIRT:	NONE		
	SWT10099-4	81.50	OIL:	4.000	x	3.250	NIFF-S	STEEL	NITRIDED	11-3729-4	81.50	DIST3:					
	REFERENCE #: 13011-13040 13011-13050 13011-13090		TOP 2ND OIL   						REFERENCE #: 13011-13040		  						
	1.5L (91.0 CID, 1,490.0 CC), OHV, 4CYL, 78.00mm (3.071"), 2R																
	GASOLINE ENGINE	SWT10014-0	78.00	TOP:	2.000	x	3.700	T1	CAST IRON	CHROME	11-243-0	78.00	TL:	78.00	PL:	75.00	CHK. DIA 0.00
		SWT10014-1	78.25		0.079	x	0.146				11-243-1	78.25	CH:	39.00	PD:	22.00	
		SWT10014-2	78.50	2ND:	2.500	x	3.600	TUC	CAST IRON	CHROME	11-243-2	78.50	DIST1:		HEAD:	NONE	
SWT10014-3		78.75		0.098	x	0.142				11-243-3	78.75	DIST2:		SKIRT:	NONE		
SWT10014-4		79.00	OIL:	4.000	x	3.050	NIFF-S	STEEL	CHROME	11-243-4	79.00	DIST3:					
REFERENCE #: 13011-31010 13011-31030 13011-31040		TOP 2ND OIL   						REFERENCE #: 13011-31010 13011-31011		  							
1.9L (119.0 CID, 1,944.0 CC), OHV, 4CYL, 88.00mm (3.465"), 5R																	
GASOLINE ENGINE		SWT10069-0	88.00	TOP:	2.000	x	3.700	T1	CAST IRON	CHROME	11-246-0	88.00	TL:	85.40	PL:	75.00	CHK. DIA 0.00
		SWT10069-1	88.25		0.079	x	0.146				11-246-1	88.25	CH:	39.00	PD:	22.00	
		SWT10069-2	88.50	2ND:	2.500	x	3.600	TUC	CAST IRON	CHROME	11-246-2	88.50	DIST1:		HEAD:	NONE	
	SWT10069-3	88.75		0.098	x	0.142				11-246-3	88.75	DIST2:		SKIRT:	NONE		
	SWT10069-4	89.00	OIL:	4.000	x	3.050	NIFF-S	STEEL	CHROME	11-246-4	89.00	DIST3:					
	REFERENCE #: 13011-44043		TOP 2ND OIL   						REFERENCE #: 13011-44015 13011-44016		  						
	2.2L (137.0 CID, 2,237.0 CC), OHV, 4CYL, 8VALVE, 91.00mm (3.583"), 4Y																
	GASOLINE ENGINE	SWT10111-0	91.00	TOP:	1.500	x	3.250	BF-IB	STEEL	CHROME	11-637-0	91.00	TL:	65.00	PL:	66.00	CHK. DIA 25.00
		SWT10111-1	91.25		0.059	x	0.128				11-637-1	91.25	CH:	35.00	PD:	22.00	
		SWT10111-2	91.50	2ND:	1.500	x	3.950	TUC	CAST IRON	PHOSPHATE	11-637-2	91.50	DIST1:	-6.20	HEAD:	NONE	
SWT10111-3		91.75		0.059	x	0.156				11-637-3	91.75	DIST2:		SKIRT:	NONE		
SWT10111-4		92.00	OIL:	4.000	x	3.100	NIFF-S	STEEL	CHROME	11-637-4	92.00	DIST3:					
REFERENCE #: 13011-73020 13011-73030 13011-73040		TOP 2ND OIL   						REFERENCE #: 13011-73030		  							

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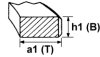


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ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
2.5L (151.0 CID, 2,481.0 CC), 4CYL, 88.00mm (3.465"), 2J											
DIESEL ENGINE	SDT10050-0	101.60	TOP:	2.540	x	3.800	BF-K3	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDT10050-1	101.85		0.100	x	0.150					
	SDT10050-2	102.10		2ND:	2.500	x					3.800
	SDT10050-3	102.35			0.098	x					0.150
	SDT10050-4	102.60			OIL:	4.000					x
			0.157	x	0.165	E-BC3	CAST IRON	CHROME			
REFERENCE #: 13011-48022 13011-48023 13011-48030		TOP 2ND OIL									
2.5L (152.0 CID, 2,494.0 CC), 4CYL, 92.00mm (3.622"), 2KD											
DIESEL ENGINE	SDT10180-0	92.00	TOP:	2.000	x	2.900	BF	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10180-1	92.25		0.079	x	0.114					
	SDT10180-2	92.50		2ND:	1.500	x				2.900	
	SDT10180-3	92.75			0.059	x				0.114	
	SDT10180-4	93.00			OIL:	3.000				x	
			0.118	x	0.118	E-BC16	STEEL	NITRIDED			
REFERENCE #: 13011-30030 13011-30031 13011-30060		TOP 2ND OIL									
2.7L (164.0 CID, 2,693.0 CC), DOHC, 4CYL, 16VALVE, 95.00mm (3.740"), 2TR-FE											
GASOLINE ENGINE	SDT10193-0	95.00	TOP:	1.200	x	2.900	BF	STEEL	NITRIDED	11-880-0 95.00 TL: 59.30 PL: 62.00 11-880-1 95.25 CH: 39.30 PD: 22.00 11-880-2 95.50 DIST1: -8.60 HEAD: AH 11-880-3 95.75 DIST2: -4.50 SKIRT: MS 11-880-4 96.00 DIST3: -2.22	
	SDT10193-1	95.25		0.047	x	0.114					
	SDT10193-2	95.50		2ND:	1.200	x					3.400
	SDT10193-3	95.75			0.047	x					0.134
	SDT10193-4	96.00			OIL:	2.000					x
			0.079	x	0.108	E-BC16	STEEL	NITRIDED			
REFERENCE #: 13011-75110		TOP 2ND OIL					REFERENCE #: 13101-75130				
3.0L (182.0 CID, 2,982.0 CC), 4CYL, 96.00mm (3.780"), 1KD											
DIESEL ENGINE	SDT10175-0	96.00	TOP:	2.000	x	3.350	BF-K2	STEEL	NITRIDED		Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.
	SDT10175-1	96.25		0.079	x	0.132					
	SDT10175-2	96.50		2ND:	1.500	x				3.300	
	SDT10175-3	96.75			0.059	x				0.130	
	SDT10175-4	97.00			OIL:	3.000				x	
			0.118	x	0.118	E-BC16	STEEL	NITRIDED			
REFERENCE #: 13011-30020 13011-30021 13011-30022		TOP 2ND OIL									
3.0L (182.0 CID, 2,985.0 CC), 4CYL, 99.50mm (3.917"), 5L											
DIESEL ENGINE	SDT10167-0	99.50	TOP:	2.000	x	3.600	BF-K2	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDT10167-1	99.75		0.079	x	0.142					
	SDT10167-2	100.00		2ND:	1.500	x					3.700
	SDT10167-3	100.25			0.059	x					0.146
	SDT10167-4	100.50			OIL:	3.000					x
			0.118	x	0.171	E-BC16	STEEL	NITRIDED			
REFERENCE #: 13011-54130		TOP 2ND OIL									
3.9L (237.0 CID, 3,878.0 CC), 6CYL, 90.00mm (3.543"), F											
GASOLINE ENGINE	SWT10026-0	90.00	TOP:	3.000	x	3.700	T1	CAST IRON	CHROME		11-171-0 90.00 TL: 95.50 PL: 80.00 11-171-1 90.25 CH: 47.50 PD: 25.15 11-171-2 90.50 DIST1: HEAD: NONE 11-171-3 90.75 DIST2: SKIRT: NONE 11-171-4 91.00 DIST3:
	SWT10026-1	90.25		0.118	x	0.146					
	SWT10026-2	90.50		2ND:	3.000	x				3.700	
	SWT10026-3	90.75			0.118	x				0.146	
	SWT10026-4	91.00			OIL1:	4.000				x	
			0.157	x	0.154	NIFF-S	STEEL	CHROME			
			OIL2:	4.000	x	3.700	C1	CAST IRON	PHOSPHATE		
			0.157	x	0.146						
REFERENCE #: 13011-69021		TOP 2ND OIL1 OIL2					REFERENCE #: 13101-60011				

COMMERCIAL VEHICLE APPLICATIONS

TOYOTA

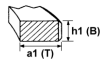


TOYOTA

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
3.0L (182.0 CID, 2,982.0 CC), 4CYL, 96.00mm (3.780"), 1KD										
GASOLINE ENGINE	SWT10044-0	96.00	TOP: 2.000 0.079 2ND: 2.500 0.098 OIL1: 4.000 0.157 OIL2: 4.000 0.157	x	a1 0.157 4.000 0.157 3.900 0.154 4.000 0.157	T1	CAST IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SWT10044-1	96.25				T1	CAST IRON	PHOSPHATE		
	SWT10044-2	96.50				T1	CAST IRON	PHOSPHATE		
	SWT10044-3	96.75				NIFF-S	STEEL	CHROME		
	SWT10044-4	97.00				NIFF-S	STEEL	CHROME		
	REFERENCE #: 13011-60040	TOP				2ND	OIL1	OIL2		
4.0L (243.0 CID, 3,980.0 CC), 6CYL, 91.00mm (3.583"), 2H										
DIESEL ENGINE	SDT10075-0	91.00	TOP: 2.540 0.100 2ND: 2.500 0.098 OIL: 4.000 0.157	x	a1 0.157 4.000 0.157 4.350 0.171	BF-K3	DUCTILE IRON	CHROME	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDT10075-1	91.25				T1	CAST IRON	CHROME		
	SDT10075-2	91.50				T1	CAST IRON	CHROME		
	SDT10075-3	91.75				T1	CAST IRON	CHROME		
	SDT10075-4	92.00				E-BC16	STEEL	NITRIDED		
	REFERENCE #: 13011-68010 13011-68020 13011-96601	TOP				2ND	OIL			
4.2L (258.0 CID, 4,230.0 CC), 4CYL, 94.00mm (3.701"), 2F										
GASOLINE ENGINE	SWT10049-0	94.00	TOP: 2.000 0.079 2ND: 2.500 0.098 OIL: 4.000 0.157	x	a1 0.165 4.200 0.165 3.850 0.152	BF	CAST IRON	CHROME	11-174-0 94.00 TL: 95.50 PL: 72.00 11-174-1 94.25 CH: 47.22 PD: 25.15 11-174-2 94.50 DIST1: 6.50 HEAD: NONE 11-174-3 94.75 DIST2: SKIRT: NONE 11-174-4 95.00 DIST3: 15.00	
	SWT10049-1	94.25				T1	CAST IRON	CHROME		
	SWT10049-2	94.50				T1	CAST IRON	CHROME		
	SWT10049-3	94.75				NIFF-S	CAST IRON	CHROME		
	SWT10049-4	95.00				NIFF-S	CAST IRON	CHROME		
	REFERENCE #: 13011-61010	TOP				2ND	OIL			
4.2L (258.0 CID, 4,230.0 CC), 4CYL, 94.00mm (3.701"), 2F										
DAKOTA / 98-03	SWT10049-0	94.00	TOP: 2.000 0.079 2ND: 2.500 0.098 OIL: 4.000 0.157	x	a1 0.165 4.200 0.165 3.850 0.152	BF	CAST IRON	CHROME	11-175-0 94.00 TL: 95.80 PL: 72.00 11-175-1 94.25 CH: 47.58 PD: 25.15 11-175-2 94.50 DIST1: 0.30 HEAD: NONE 11-175-3 94.75 DIST2: SKIRT: NONE 11-175-4 95.00 DIST3: 15.00	
	SWT10049-1	94.25				T1	CAST IRON	CHROME		
	SWT10049-2	94.50				T1	CAST IRON	CHROME		
	SWT10049-3	94.75				NIFF-S	CAST IRON	CHROME		
	SWT10049-4	95.00				NIFF-S	CAST IRON	CHROME		
	REFERENCE #: 13011-61010	TOP				2ND	OIL			

COMMERCIAL VEHICLE APPLICATIONS

UD TRUCKS



UD TRUCKS

ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO	
5.9L (360.0 CID, 5,899.0 CC), OHV, 8CYL, 16VALVE, 101.60MM (4.000"), MAGNUM 5.9 / 1994-2003											
DIESEL ENGINE	SDH20108-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDC20108-1	112.25		0.098	x	0.163					
	SDC20108-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED		
	SDC20108-3	112.75		0.079	x	0.169					
	SDC20108-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED		
				0.157	x	0.171					
	REFERENCE #: 13011-E0350		TOP	2ND	OIL						
7.7L (469.0 CID, 7,684.0 CC), 6CYL, 112.0mm (4.409"), J08E											
DIESEL ENGINE	SDH30102-0	112.00	TOP:	2.500	x	4.150	BF	STEEL	NITRIDED	Pistons for this application are not currently available. Refer to the NPR of America online catalog at: www.npramerica.com for the latest product availability information.	
	SDH30102-1	112.25		0.098	x	0.163					
	SDH30102-2	112.50	2ND:	2.000	x	4.300	T1	STEEL	NITRIDED		
	SDH30102-3	112.75		0.079	x	0.169					
	SDH30102-4	113.00	OIL:	4.000	x	4.350	E-BC16	STEEL	NITRIDED		
				0.157	x	0.171					
	REFERENCE #: 13011-4040A		TOP	2ND	OIL						

ADDITIONS

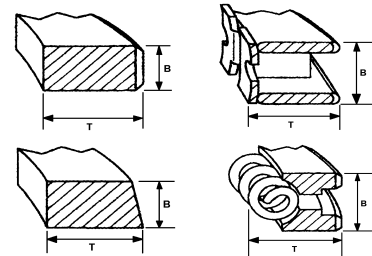
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PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA

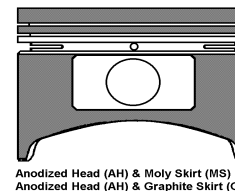
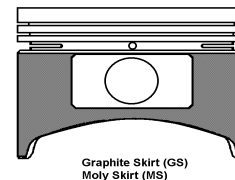
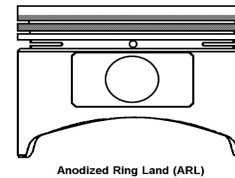
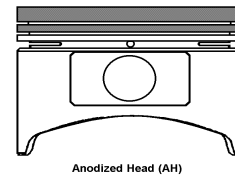


ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO							
GENERAL ENGINE INFORMATION																	
1	2	3	TOP:	5	x	7	9	10	11	27	28	TL:	30	PL:	35	CHK. DIA	
			6	x	8	16	17	18	CH:			31	PD:	36			
			2ND:	12	x	14	23	24	DIST1: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

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

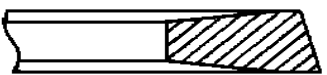
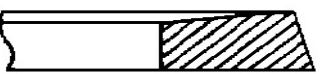
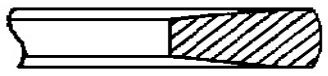
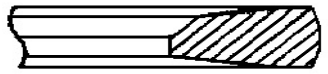
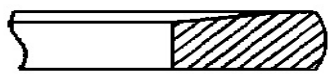
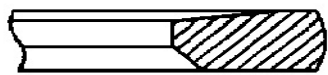
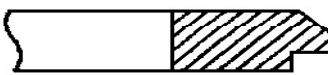
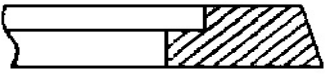
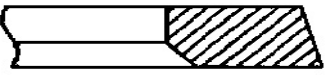


B: WIDTH
T: RADIAL WALL THICKNESS



Anodized Head (AH) & Graphite Skirt (GS)

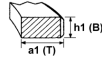
PISTON RING SHAPE

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

JOINT SHAPE

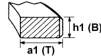
	INTERNAL NOTCH		STRAIGHT
	SIDE NOTCH		

PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



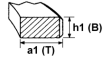
ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO
DAEWOO: 1.0L (61.0 CID, 995.0 CC), SOHC, 4CYL, 8VALVE, 68.50mm (2.697"), S-TEC II										
GASOLINE ENGINE	SWD20011-0	68.50	TOP: 1.200	x	2.650	BF-IB	STEEL	CHROME	11-8002-0	68.50 TL: 52.30 PL: 53.00
	SWD20011-1	68.75	0.047	x	0.104				11-8002-1	68.75 CH: 25.30 PD: 17.00
	SWD20011-2	69.00	2ND: 1.200	x	2.800	T1	CAST IRON	PHOSPHATE	11-8002-2	69.00 DIST1: -3.20 HEAD: NONE
	SWD20011-3	69.25	0.047	x	0.110				11-8002-3	69.25 DIST2: SKIRT: NONE
	SWD20011-4	69.50	OIL: 2.500	x	2.800	NIFF-S	STEEL	CHROME	11-8002-4	69.50 DIST3:
	0.098		0.110							
	REFERENCE #:		TOP 2ND OIL						REFERENCE #:	
	96325192								96325189	
									96325191	
									96567383	
HYUNDAI: 1.0L (61.0 CID, 999.0 CC), SOHC, 4CYL, 66.00mm (2.598"), G4HC										
GASOLINE ENGINE	SWG30018-0	66.00	TOP: 1.200	x	2.250	BF	STEEL	CHROME	11-8504-0	66.00 TL: 48.00 PL: 60.00
	SWG30018-1	66.25	0.047	x	0.089				11-8504-1	66.25 CH: 25.00 PD: 17.00
	SWG30018-2	66.50	2ND: 1.200	x	2.900	T1	CAST IRON	PHOSPHATE	11-8504-2	66.50 DIST1: -4.00 HEAD: NONE
	SWG30018-3	66.75	0.047	x	0.114				11-8504-3	66.75 DIST2: -4.50 SKIRT: NONE
	SWG30018-4	67.00	OIL: 2.500	x	2.750	NIFF-S	STEEL	CHROME	11-8504-4	67.00 DIST3:
	0.098		0.108							
	REFERENCE #:		TOP 2ND OIL						REFERENCE #:	
	23040-02700								23410-02700	
									23410-02710	
									23410-02720	
MITSUBISHI: 2.0L (122.0 CID, 1,997.0 CC), DOHC, 4CYL, 16VALVE, 85.00mm (3.346"), G63B										
GASOLINE ENGINE	SWM31013-0	85.00	TOP: 2.000	x	3.100	BF	STEEL	NITRIDED	11-3042-0	85.00 TL: 74.00 PL: 72.00
	SWM31013-1	85.25	0.079	x	0.122				11-3042-1	85.25 CH: 35.20 PD: 21.00
	SWM31013-2	85.50	2ND: 2.000	x	3.700	T1	CAST IRON	PHOSPHATE	11-3042-2	85.50 DIST1: 2.00 HEAD: NONE
	SWM31013-3	85.75	0.079	x	0.146				11-3042-3	85.75 DIST2: SKIRT: NONE
	SWM31013-4	86.00	OIL: 4.000	x	3.250	NIFF-S	STEEL	CHROME	11-3042-4	86.00 DIST3:
	0.157		0.128							
	REFERENCE #:		TOP 2ND OIL						REFERENCE #:	
	MD040640								MD040821	
	MD040840									
	MD042580									
MITSUBISHI: 2.4L (143.0 CID, 3,537.0 CC), 4CYL, 91.10mm (3.587"), 4D55T										
DIESEL ENGINE	SDM31055-0	91.10	TOP: 2.500	x	3.500	BF	DUCTILE IRON	CHROME	11-3048-0	91.10 TL: 88.70 PL: 75.00
	SDM31055-1	91.35	0.098	x	0.138				11-3048-1	91.35 CH: 48.70 PD: 29.00
	SDM31055-2	91.60	2ND: 2.500	x	3.400	T1	DUCTILE IRON	CHROME	11-3048-2	91.60 DIST1: -2.30 HEAD: NONE
	SDM31055-3	91.85	0.098	x	0.134				11-3048-3	91.85 DIST2: -2.60 SKIRT: NONE
	SDM31055-4	92.10	OIL: 4.500	x	3.900	E-BC16	STEEL	CHROME	11-3048-4	92.10 DIST3: -3.00
	0.177		0.154							
	REFERENCE #:		TOP 2ND OIL						REFERENCE #:	
	MD050395								MD050011	
NISSAN: 1.5L (91.0 CID, 1,487.0 CC), SOHC, 4CYL, 8VALVE, 76.00mm (2.992"), A15										
GASOLINE ENGINE	SWN30052-0	76.00	TOP: 1.20	x	3.05	BF	STEEL	CHROME	11-3208-0	76.00 TL: 65.00 PL: 63.00
	SWN30052-1	76.25	0.047	x	0.120				11-3208-1	76.25 CH: 30.00 PD: 19.00
	SWN30052-2	76.50	2ND: 2.00	x	3.40	TUC	CAST IRON	PHOSPHATE	11-3208-2	76.50 DIST1: -2.80 HEAD: NONE
	SWN30052-3	76.75	0.079	x	0.134				11-3208-3	76.75 DIST2: SKIRT: NONE
	SWN30052-4	77.00	OIL: 4.00	x	3.25	NIFF-S	STEEL	CHROME	11-3208-4	77.00 DIST3:
	0.157		0.128							
	REFERENCE #:		TOP 2ND OIL						REFERENCE #:	
	12033-H7680								12010-H9704	
	12033-H9800									
	12033-H9810									
NISSAN: 2.2L (132.0 CID, 2,164.0 CC), 4CYL, 83.00mm (3.268"), SD22										
DIESEL ENGINE	SJN31003-0	83.00	TOP: 2.500	x	3.500	BF	CAST IRON	CHROME	11-3249-0	83.00 TL: 90.00 PL: 71.00
	SJN31003-1	83.25	0.098	x	0.138				11-3249-1	83.25 CH: 48.00 PD: 26.00
	SJN31003-2	83.50	2ND: 2.000	x	3.400	T1	CAST IRON	CHROME	11-3249-2	83.50 DIST1: -0.60 HEAD: NONE
	SJN31003-3	83.75	0.079	x	0.134				11-3249-3	83.75 DIST2: -2.00 SKIRT: NONE
	SJN31003-4	84.00	3RD: 2.000	x	3.400	T1	CAST IRON	CHROME	11-3249-4	84.00 DIST3:
	0.079		0.134							
	OIL1: 4.500	x	3.900			E-BC3	CAST IRON	CHROME	REFERENCE #:	
	0.177	x	0.154						12010-J5310	
	OIL2: 4.500	x	3.400			BC3	CAST IRON	CHROME	12010-Y1411	
	0.177	x	0.134						12010-Y5210	
	REFERENCE #:		TOP 2ND 3RD OIL1 OIL2							
	12033-37500									
	12033-76201									

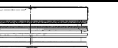
PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



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

PISTONS & RINGS USED IN APPLICATIONS OUTSIDE OF USA



ENGINE MODEL APPLICATION	PISTON RING PART NUMBER	MEMO	h1 (B)	x	a1 (T)	RING SHAPE	RING MAT.	SURFACE TREAT.	PISTON PART NUMBER	MEMO						
TOYOTA: 3.2L (182.0 CID, 2,977.0 CC), 4CYL, 95.00mm (3.740"), B																
DIESEL ENGINE	SJT10070-0	95.00	TOP:	2.540	x	4.100	BF-K3	DUCTILE IRON	CHROME	11-3799-0	95.00	TL:	101.30	PL:	79.00	CHK. DIA 33.00
	SJT10070-1	95.25		0.100		0.161				11-3799-1	95.25	CH:	52.30	PD:	29.00	
	SJT10070-2	95.50	2ND:	2.500		4.300	T1	CAST IRON	CHROME	11-3799-2	95.50	DIST1:	-2.50	HEAD:	NONE	
	SJT10070-3	95.75		0.098		0.169				11-3799-3	95.75	DIST2:	-3.60	SKIRT:	NONE	
	SJT10070-4	96.00	OIL:	4.500	x	4.400	E-BC3	CAST IRON	CHROME	11-3799-4	96.00	DIST3:				
				0.177		0.173										
	REFERENCE #:		TOP	2ND		OIL		REFERENCE #:		  						
	13011-56012							13101-56020								
	13011-56013							13101-56030								
	13011-56021															

ADDITIONS

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.

ADDITIONS

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

ADDITIONS

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