



Fabricando desde 2004

CATÁLOGO 2020



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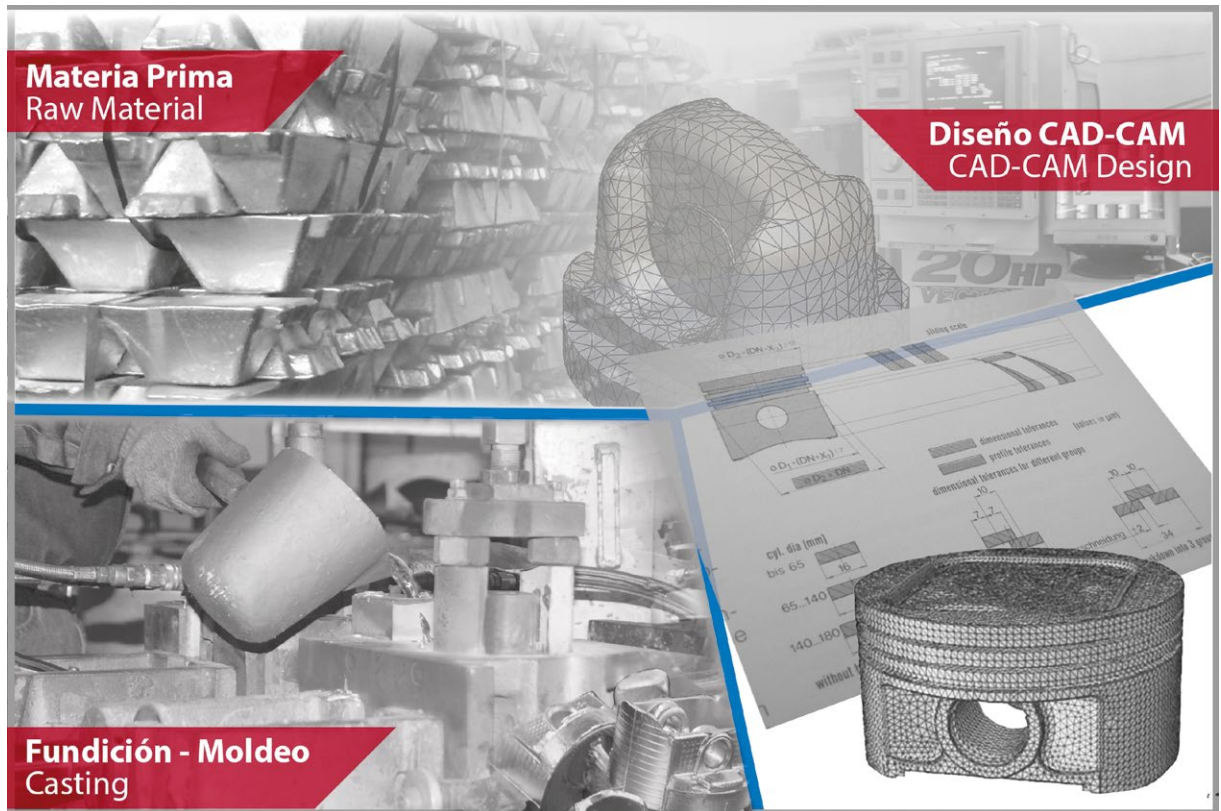
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Información General

General Information



Materia Prima

Los pistones **DC** son fabricados con las aleaciones de aluminio establecidas para cumplir con los requerimientos de los motores actuales a nivel Internacional.

Raw Material

DC Pistons are made from appropriate aluminium alloys to meet demands of today's engines, including Hypereutectic alloy.

En **DC** se utilizan dos aleaciones para cubrir estos requerimientos:

- 1) Aleación Eutéctica AlSi 12 CuMgNi.**
- 2) Aleación Hipereutéctica AlSi 17 CuMgNi.**

DC Manufacture is based in 2 alloys in order to Fulfill those requirments

- 1) Eutectic alloy AlSi 12 CuMgNi.**
- 2) Hypereutectic alloy AlSi 17 CuMgNi.**

Estas Aleaciones son adquiridas de proveedores certificados por la Industria de Equipo original.

These alloys are obtained from OEMS suppliers.

Diseño CAD-CAM

Los pistones **DC** son generados de una imagen digital en 3D con dimensiones precisas a partir de la cual se manufacturan los herramientales de producción pasando la información directamente a los equipos de producción con lo cual se garantiza una manufactura consistente de piezas.

CAD-CAM Design

Design of new products and manufacturing of tooling are generated from CAD CAM tools to assure consistent quality parts along all production process.

Información General

General Information



Procesos de Manufactura-Moldeo

Los pistones DC son fundidos con procesos de moldeo semiautomáticos, usando moldes permanentes y vaciados por gravedad, utilizando la nueva tecnología de molde monolítico desarrollada para los pistones de equipo original mas recientes.

Esta tecnología le brinda a los pistones una mayor resistencia como resultado de una estructura mas parecida a la de los pistones forjados.

Tratamientos Térmicos

Con el fin de asegurar las condiciones de resistencia y expansión térmica apropiadas, nuestros pistones son tratados térmicamente con los procesos establecidos en temperatura y tiempo para cada tipo de aleación, cumpliendo con ello los requisitos establecidos por el mercado. Estrictos sistemas de Calidad son llevados a cabo durante los procesos de manufactura, para asegurar en todo tiempo la Calidad de los productos.

Foundry & Heat Treatment

DC Pistons are permanent mold casting in semi-automatic machines with strong process on all parameters to get quality consistency.

DC Pistons are heat treated according materials used and the process characteristics established to assure a correct performance of the parts during the thermal expansion caused by high temperatures in operation.

Our mono-core mold design leads to an internal shape similar to the forge ones which gives the part a better strenght resistance.

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Maquinado Final

El terminado de los pistones DC se lleva a cabo en maquinaria CNC diseñadas específicamente para este propósito, utilizando herramientas de diamante para asegurar las geometrías de falda mas precisas con un acabado superficial brillante característico del aluminio y las tolerancias establecidas con lo cual se logra una lubricación adecuada entre el pistón y el cilindro lo cual elimina el uso del recubrimiento de estaño en las piezas.

Finish - machining of DC Pistons

Is performed on special CNC machines with diamond tools achieving a high degree of accuracy and surface quality.

Barrel skirt pistons are produced on CAMLESS turning lathes with a high ability to control skirt finish and shape creating a hydrodynamic oil film eliminating the use of tin coating.

Recubrimientos Superficiales

En DC contamos con la capacidad y habilidad para manufacturar pistones con recubrimiento de Molibdeno de acuerdo a los requerimientos del mercado. Este recubrimiento reduce la fricción entre el pistón y las paredes del cilindro además de proveer un mejor sello que ayuda a reducir el consumo del aceite y mejora la estabilidad del pistón dentro del motor.

Surface Treatment

Late model manufacturers add anti friction coating to the piston skirt. DC offers the graphite coating to meet the specifications of each engine.

These coating graphite base is know for its sliding properties as well is oil adhesion when is applied to the piston surface by special fixing agents.

Nomenclatura de los Pistones

Piston Features



Características críticas

Key Characteristics

Diámetro de la Falda - *Skirt Diameter*

Diámetro del Barreno para Perno - *Wrist Pin Bore*

Distancia de Compresión - *Compression Height*

Altura del pistón - *Total Length*

Nota: Distancia de Compresión = Distancia del centro del Barreno para Perno al borde plano de la cabeza.
Note: Compression height = Distance from the center of the wrist pin bore to the flat edge of the head (Crown)

Relación por Fabricante

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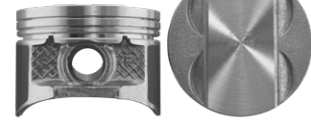
Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.8L (1796cc) L4 DOHC 16 Val.	91-95	1			
2.5L (2494cc) L6 DOHC 24 Val.	95-06	2			
3.0L (2997cc) V8 DOHC 32 Val.	92-96	3			

BMW

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
1	1.8L (1796cc) L4 DOHC 16V. BMW 318	91-95	BM1800 STD .020/0.50 .030/0.75 .040/1.00	84.0 mm (3.307")	28.4 mm (1.1180")	1-1.2mm 1-1.5mm 1-2.0mm		22.0 mm (0.866") 
2	2.5L (2494cc) L6 DOHC 24V. BMW 323, 325, 328, 523, 525, X3, Z3, Z4	95-06	BM2500 STD .020/0.50 .030/0.75 .040/1.00	84.0 mm (3.307")	28.4 mm (1.1180")	1-1.2mm 1-1.5mm 1-2.0mm		22.0 mm (0.866") 
3	3.0L (2997cc) V8. DOHC 32V. BMW 530, 730	92-96	BM3000 STD .020/0.50 .030/0.75 .040/1.00	84.0 mm (3.307")	28.4 mm (1.1180")	1-1.2mm 1-1.5mm 1-2.0mm		22.0 mm (0.866") 
4								
5								
6								

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.0L (61) L4 SOHC 12 val	00-04	1	2.5L (151) L4 OHV 8 Val.	83-02	12
1.1L (66) L4 SOHC 12 Val.	05-11	2	2.5L (151) L4 OHV 8 Val.	96-06	13
1.1L (66) L4 SOHC 8 Val.	05-11	3	2.5L (153) L4 SOHC 8 Val.	89-95	14
1.1L (61) L4 SOHC 12 Val.	11-13	4	2.5L (153) L4 SOHC 8 Val.	89-95	15
1.8L(1798cc)/2.0L(1998cc) L4 DOHC 16V	07-11	5	3.3L (201) V6 OHV 12 Val.	88-97	16
2.0L (122) L4 DOHC 16Val.	96-00	6	3.3L (201) V6 OHV 12 Val.	98-07	17
2.0L (122) L4 SOHC 16 Val.	95-06	7	3.7L (226) V6 SOHC 12 Val.	95-06	18
2.4 (2360cc) L4 DOHC 16 Val.	07-13	8	3.7L (226) V6 SOHC 12 Val.	02-11	19
2.4L (148) L4 DOHC 16 Val.	95-00	9	3.9L (2300) V6 OHV 12 Val.	92-03	20
2.4L (148) L4 DOHC 16 Val.	82-09	10	3.9L (239) V6 OHV 12V	92-03	21
2.4L (148) L4 DOHC 16 Val.	00-09	11	4.0L (242) L6 OHV 12 Val.	87-95	22

CHRYSLER - DODGE - JEEP - PLYMOUTH

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.0L (61) L4 SOHC 12V. G4HC Hyundai Atos	00-04	CH61 STD .020/0.50 .030/0.75	66.0 mm (2.598")	25.0 mm (0.984")	2-1.2 mm 1-2.5mm		17.0 mm (0.669")	1
1.1L (66) L4 SOHC 12V. G4HG Hyundai Atos	05-11	CH66 STD .020/0.50 .030/0.75	67.0 mm (2.638")	24.5 mm (0.964")	2-1.2 mm 1-2.0mm		17.0 mm (0.669")	2
1.1L (66) L4 SOHC 8V. Vin K Hyundai Atos	05-11	CH66-1 STD .020/0.50 .030/0.75 .040/1.0	67.0 mm (2.638")	24.5 mm (0.964")	2-1.2 mm 1-2.5mm		17.0 mm (0.669")	3
1.1L (66) L4 SOHC 12V. Hyundai, Epsilon, i10	11-13	CH66-2 STD .020/0.50 .030/0.75 .040/1.0	67.0mm (2.638")	24.38mm (.959")	2-1.2mm 1-2.0mm		17.0mm (.669")	4
1.8L(1798cc)/2.0L (1998cc) L4 DOHC 16V. GEMA Hyundai XD Accent, Attitude, Caliber, Verna	07-11	CH110 STD .020/0.50 .030/0.75 .040/1.0	86.00mm (3.386")	27.25mm (1.073")	2 -1.20mm 1 -2.00mm		21.00mm (0.827")	5
2.0L (122) L4 DOHC 16V. VIN Y Avenger, Breeze, Cirus, Neon, Eclipse, Stratus.	96-00	CH122 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	32.3 mm (1.274")	2-1.2mm 1-3.0mm		21.0 mm (0.826")	6



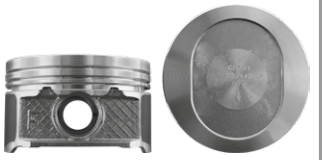
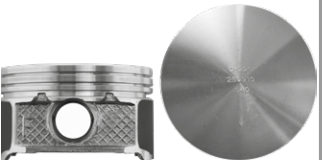
Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
4.0L (242) L6 OHV 12 Val.	96-06	23			
4.7L (287) V8 SOHC 16 Val.	00-09	24			
4.7L (287) V8 SOHC 16V	00-07	25			
5.2L (318) V8 OHV 12 Val.	87-95	26			
5.2L (318) V8 OHV 16V	87-03	27			
5.7L (345) V8 OHV 16 Val.	03-10	28			
5.7L (345) V8 OHV 16V	09-13	29			
5.7L (345) V8 OHV 16V	09-13	30			
5.9L (360) V8 OHV 16Val.	71-94	31			
5.9L (360) V8 OHV 12 Val.	79-95	32			
6.1L(370)V8 OHV 16V	05-10	33			

CHRYSLER - DODGE - JEEP - PLYMOUTH

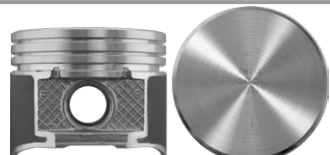
	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
7	2.0L (122) L4 SOHC 16V. VIN C Neón, Stratus	95-06	CH122-1 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	31.5 mm (1.240")	2-1.2 mm 1-3.0mm		21.0 mm (0.826")
8	2.4L (2360cc) L4 DOHC 16V. Avenger, Caliber, Journey, Compass, Patriot.	07-13	CH144 STD .020/.50 .030/.75	88.0mm (3.465")	27.6mm (1.087")	2-1.2mm 1-2.0mm		21.0mm (0.8263")
9	2.4L (148) L4 DOHC 16 V. VIN B Breeze, Cirrus, Stra- tus, Sebring.	95-00	CH148 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	30.4 mm (1.197")	1-1.2 mm 1-1.5mm 1-3.0mm		22.0 mm (0.866")
10	2.4L (148) L4 DOHC 16 V. EDZ PT Cruiser, Stratus, Caravan, Voyager.	02-09	CH148-1 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	30.2 mm (1.189")	2-1.5 mm 1-3.0mm		22.0 mm (0.866")
11	2.4L (148) L4 DOHC 16 V. VIN E, G Turbo PT Cruiser R/T, Neon SRT, Stratus R/T	00-09	CH148-2 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	28.0 mm (1.102")	1-1.2 mm 1-1.5mm 1-2.5mm		22.0 mm (0.866")
12	2.5L (151) L4 OHV 8 V. VIN E, H, P Cherokee, Comanche, Wagoner, Wrangler	83-02	CH151 STD .020/0.50 .030/0.75 .040/1.00	98.4 mm (3.874")	40.2 mm (1.582")	2-5/64 mm 1-3/16mm		23.64 mm (0.930")

* En desarrollo

CHRYSLER - DODGE - JEEP - PLYMOUTH

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
2.5L (151) L4 OHV 8 V VIN E, H, P Dakota, Cherokee, Wrangler, Sahara	96-06	CH151-1 STD .020/0.50 .030/0.75 .040/1.00	98.4 mm (3.874")	40.4 mm (1.590")	2-1.5mm 1-4.0mm		23.64 mm (0.930")	13
2.5L (153) L4 SOHC 8V. VIN K Phantom, New Yorker, Shadow, Spirit	89-95	CH153 STD .020/0.50 .030/0.75 .040/1.0	87.5 mm (3.445")	34.48 mm (1.357")	2-1.5 mm 1-4.0 mm		22.88 mm (0.901")	14
2.5L (153) L4 SOHC 8V. VIN J TURBO Phantom, New Yorker, Shadow GTS, Spirit	89-95	CH153-1 STD .020/0.50 .030/0.75 .040/1.0	87.5 mm (3.445")	34.50 mm (1.358")	2 - 1.5 mm 1 - 4.0 mm		22.88 mm (0.901")	15
3.3L (201) V6 OHV 12V Vin. R, T, U. Caravan, Grand Caravan, Grand Voyager, Voyager Town & Country	88-97	CH201 STD .020/0.50 .030/0.75 .040/1.0	93.0mm (3.661")	31.78mm (1.251")	2-1.5mm 1-3.0mm		22.88mm (.901")	16
3.3L (201) V6 OHV 12V Vin. R, T, U. Caravan, Grand Caravan, Grand Boyager, Voyager, Town & Country	98-07	CH201-1 STD .020/0.50 .030/0.75 .040/1.0	93.0mm (3.661")	30.02mm (1.182")	2-1.5mm 1-3.0mm		22.88mm (.901")	17
3.7L (226) V6 SOHC 12 V. VIN K Commander, Dakota, Durango, Liberty	02-11	CH226 STD .020/0.50 .030/0.75 .040/1.00	93.0 mm (3.661")	31.8 mm (1.252")	2-1.5 mm 1-3.0mm		24.0 mm (0.945")	18
3.7L (226) V6 SOHC 12V MAGNUM VIN K Commander, Dakota, Du- rango, Grand Cherokee, Liberty, Nitro, Ram 1500	95-06	CH226-1 STD .020/0.50 .030/0.75 .040/1.0	93.0mm (3.661")	31.8mm (1.251")	2 - 1.5mm 1 - 3.0mm		24.0mm (0.945")	19
3.9L (239) V6 DOHC 16V Pick Up Dakota, Ram 1500, Club Cab 1500	92-03	CH239 STD .020/0.50 .030/0.75 .040/1.00	99.3 mm (3.910")	44.8 mm (1.765")	2-5/64" 1-5/32"		25.0 mm (0.984")	20

CHRYSLER - DODGE - JEEP - PLYMOUTH

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
21	3.9L (239) V6 OHV 12V Club Cab 1500, Dakota, Ram Van, Ram 1500, 2500	92-03	CH239-1 STD .020/0.50 .030/0.75 .040/1.0	99.3mm (3.909")	43.7mm (1.720")	2 - 5/64" 1 - 3/16"		24.99mm (0.984")
22	4.0L (242) L6 OHV 12V VIN S Grand Cherokee, Sahara, Wrangler	87-95	CH242 STD .020/0.50 .030/0.75 .040/1.00	98.4 mm (3.875")	40.2 mm (1.582")	2-5/64 1-3/16		23.65 mm (0.931")
23	4.0L(242) L6 OHV 12V VIN S Grand Cherokee, Sahara, Wrangler	96-06	CH242-1 STD .020/0.50 .030/0.75 .040/1.00	98.4 mm (3.875")	40.6 mm (1.598")	2-1.5mm 1-4.0mm		23.65 mm (0.931")
24	4.7L (287) V8 SOHC 16V VIN N Aspen, Commander, Dakota, Durango, Grand Cherokee	00-09	CH287 STD .020/0.50 .030/0.75 .040/1.00	93.0 mm (3.661")	31.8 mm (1.252")	2-1.5 mm 1-3.0mm		24.0 mm (0.945")
25	4.7L (287) V8 SOHC 16V MAGNUM VIN J, N, P Aspen, Commander, Dakota, Durango, Grand Cherokee, Ram 1500, 2500	00-07	CH287-1 STD .020/0.50 .030/0.75 .040/1.0	93.0mm (3.661")	31.8mm (1.251")	2 - 1.5mm 1 - 3.0mm		24.0mm (0.945") 
26	5.2L (318) V8 OHV 16V Durango, Grand Cherokee, Ram Wagon, Ram 2500	87-03	CH318 STD .020/0.50 .030/0.75 .040/1.00	99.3 mm (3.910")	44.8 mm (1.765")	2-5/64" 1-5/32"		25.0 mm (0.984")
27	5.2L (318) V8 OHV 16V Durango, Grand Cherokee, Ram 2500, Ram Wagon	87-03	CH318-1 STD .020/0.50 .030/0.75 .040/1.0	99.3mm (3.909")	43.7mm (1.720")	2 - 5/64" 1 - 3/16"		25.0mm (0.984")
28	5.7L (345) V8 OHV 16V HEMI Aspen, Durango, Ram 1500, 2500, 3500	03-10	CH345 STD .020/.50 .030/.75	99.5mm (3.917")	30.8mm (1.211")	2-1.5mm 1-3.0mm		24.0mm 0.9449"

* En desarrollo

CHRYSLER - DODGE - JEEP - PLYMOUTH

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
5.7L (345) V8 OHV 16V HEMI VIN D, H, T, 2 Aspen, Challenger, Du- rango, Ram 1500, 2500, 3500, 4000	09-13	CH345-1 STD .020/0.50 .030/0.75 .040/1.0	99.5mm (3.917")	30.0mm (1.181")	2 - 1.2mm 1 - 2.0mm		24.0mm (0.945") 	29
5.7L (345) V8 OHV 16V HEMI VIN D, H, T, 2 Aspen, Challenger, Durango, Ram 1500, 2500, 3500, 4000	09-13	CH345-2 STD .020/0.50 .030/0.75 .040/1.0	99.5mm (3.917")	30.0mm (1.181")	2 - 1.2mm 1 - 2.0mm		24.0mm (0.945")	30
5.9L (360) V8 OHV 16V Cordoba, Magnum, Monaco, LeBaron, Super Bee, Dart	71-94	CH360 STD .020/0.50 .030/0.75 .040/1.0 .060/1.50	101.6 mm (4.000")	40.4 mm (1.576")	2-5/64 1-3/16		25.0 mm (0.984")	31
5.9L (360) V8 D250, D350, D600, Pick Up, Ram Charger	79-95	CH360-1 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	40.5 mm (1.596")	2-5/64 1-3/16		25.0 mm (0.984")	32
6.1L(370)V8 OHV 16V HEMI VIN 3, W Challenger, Charger, Grand Cherokee, 300C, Magnum	05-10	CH370 STD .020/0.50 .030/0.75	103.00mm (4.055")	30.2mm (1.189")	2-1.50mm 1-3.00mm		25.00mm (0.984")	33
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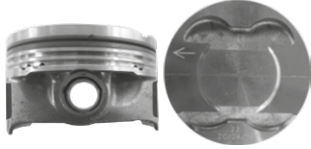
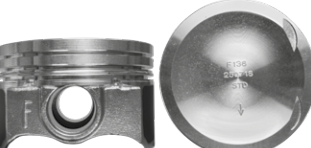
Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.2L (1242cc) SOHC 8V.	01-13	1			
1.4L (1368cc) DOHC 16 V.	08-14	2			
1.6L (1581cc) DOHC 16V L4	04-17	3			
1.6L (1596cc) DOHC 16V	04-17	4			
1.8L (1796cc) SOHC 8V	04-13	5			

FIAT

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
1	1.2L (1242cc) SOHC 8V L4 Palio, Panda, Strada	01-13	FI1200*				ND	
2	1.4L (1368cc) DOHC 16 V Multiair Aspiración Natural 500 Sport, Lounge, Cabrio, Pop, Abarth	08-14	FI1400* STD .020/0.50 .030/0.75	72.00mm (2.834")	26.00mm (1.023")	1-1.00mm 1-1.20mm. 1-2.00mm.	ND	18.00mm (0.709") 
3	1.6L (1581cc) DOHC 16V L4 Palio, Adventure, Strada	04-17	FI1600*				ND	
4	1.6L (1596cc) DOHC 16V L4 E-TORQ. Palio, Adventure, RAM700, Visión	04-17	FI1600-1*				ND	
5	1.8L (1796cc) SOHC 8V L4 Powertrain Albea, Idea, Palio, Stilo, Strada, Adventure	04-13	FI1800*				ND	
6								

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.5L (1498cc) L4 DOHC 16V	15-16	1	2.3L DOHC 16 Val.	01-08	12
1.6L (98) L4 SOHC 8 Val.	00-09	2	2.3L (140) L4 SOHC 8V	79-95	13
1.6L (98) L4 SOHC 8 Val.	01-09	3	2.5L SOHC 8 Val.	98-01	14
1.6L (1596cc) L4 DOHC 16V	11-15	4	2.5L L4 DOCH 16V	09-12	15
2.0L (1999cc) L4 DOHC 16Val.	00-10	5	2.9L (177) V6 OHV 12V	86-92	16
2.3L (140) L4 DOCH	00-10	6	3.0L (183) V6 OHV 12V	86-89	17
2.3L (140) L4 OHV 8 Val.	83 - 94	7	3.0L V6 DOHC 24V	01-10	18
2.3L (140) L4 SOHC 8 Val.	95-97	8	3.5L (213) V6 DOHC 24V	07-10	19
2.3L (140) L4 SOHC 8 Val.	74-93	9	3.8L (232) V6 OHV 12 Val.	83-89	20
2.3L (140) L4	83-94	10	3.8L (232) V6 OHV 12 Val.	90-95	21
2.3L DOHC 16 Val.	03-07	11	4.0L (244) V6 OHV 12 Val.	90-94	22

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MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.5L (1498cc) L4 DOHC 16V Figo	15-16	F92 * STD .020/0.50 .030/0.75	79.00mm (3.110")	28.25mm (1.112")	2 -1.20mm 1 -2.50mm		20.00mm (0.787") 	1
1.6L (98) L4 SOHC 8 V ZETEC Escort, Fiesta, Ikon, KA	00-09	F98 STD .020/0.50 .030/0.75 .040/1.00	82.05 mm (3.230")	24.9 mm (0.980")	1-1.2 mm 1-1.5 mm 1-2.0 mm		18.03 mm (0.710")	2
1.6L (98) L4 SOHC 8 V ZETEC Courier, Ecosport, Escort, Fiesta, Ikon, KA	01-09	F98-1 STD .020/0.50 .030/0.75 .040/1.00	82.05 mm (3.230")	24.9 mm (0.980")	1-1.2 mm 1-1.5 mm 1-2.0 mm		18.03 mm (0.710")	3
1.6L (1596cc) L4 DOHC 16V Duratec 16HDEX Fiesta, Figo	11-15	F98-2* STD .020/0.50 .030/0.75	79.00mm (3.110")	24.84mm (0.978")	1 -1.20mm 1 -1.50mm 1 -2.00mm		18.00mm (0.709")	4
2.0L (1999cc) L4 DOHC 16V. CJBA, Ecosport, Mondeo, Focus	00-10	F122-5 STD .020/.50 .030/.75	87.5mm (3.445")	28.5mm (1.122")	2- 1.2 mm 1- 2.5 mm		21.0mm (0.8263") 	5
2.3L (2261cc) L4 DOHC 16V DURATEC 23EW CX-7, MAZDA 3, 6	06-12	F138 STD .020/0.50 .030/0.75 .040/1.0	87.50mm. (3.445")	32.11mm. (1.264")	2-1.50mm. 1-2.0mm.		22.47mm. (0.885") 	6

* En desarrollo



Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
4.0L (245) V6 OHV 12 Val.	95-01	23	5.0L (302) V8 OHV 16 Val.	94-00	34
4.0L (245) V6 SOHV 12 Val.	97-10	24	5.0L (302) V8 OHV 16 Val.	63-80	35
4.2L (256) V6 OHV 12 Val.	97-09	25	5.0L (302) V8 OHV 16 Val.	79-86	36
4.6L (281) V8 SOHC 16 Val.	91-06	26	5.0L V8 OHV 16 Val.	87-95	37
4.6L V8 DOHC 32 Val.	99-03	27	5.0L V8 OHV 16 Val.	96-00	38
4.6L (281) V8 SOHC 16 Val.	99-03	28	5.0L (302) V8 OHV 16 Val.	81-93	39
4.6L (281) V8 SOHC 24V	05-10	29	5.4L (330) V8 SOHC 16 Val.	97-06	40
4.9L (300) L6 OHV 12 Val.	77-86	30	5.4L (330) V8 SOHC 16 Val.	97-10	41
4.9L (300) L6 OHV 12 Val.	75-76	31	5.4L (330) V8 SOHC 16 Val.	97-10	42
4.9L (300) L6 OHV 12 Val.	69-78	32	5.4L (330) V8 DOCH 32V	97-10	43
4.9L (300) L6 OHV 12 Val.	96-97	33	5.4L (330) V8 DOCH 32V	99-06	44

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	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
7	2.3L (140) L4 OHV 8V Topaz GS, GLX, Guía	83 - 94	F140 STD, .020, .030, .040	93.50mm (3.681")	38.61mm (1.520")	2-2.0 mm 1-4.75 mm		23.17mm (.912")
8	2.3L (140) L4 SOHC 8V VIN A Ranger USA	95-97	F140-1 STD .020/0.50 .030/0.75 .040/1.00	96.0 mm (3.780")	33.9 mm (1.335")	2-1.5 mm 1-3.0 mm		23.17 mm (0.912")
9	2.3L (140) L4 SOHC 8V (Asp. Nat & Turbo) Mustang II, Thunderbird,Pinto, Courier	74-93	F140-2 STD .020/0.50 .030/0.75 .040/1.00	96.0 mm (3.780")	40.2 mm (1.583")	2-5/64 1-3/16		23.17 mm (0.912")
10	Ford 2.3L (140) OHV 8 V. HSC Topaz GS, GLX Ghia '91	83-94	F140-3 STD .020/0.50 .030/0.75 .040/1.0 .060/1.50	93.5mm (3.681")	38.61mm (1.520")	2-2.0mm 1-4.75mm		23.17 mm (0.9122")
11	2.3L DOHC 16V Escape, Focus, Mariner, Ranger, Mazda B2300.	03-07	F140-4 STD .020/.50 .030/.75	87.5mm (3.445")	28.5mm (1.122")	2- 1.2mm 1- 2.5mm		21.0mm (0.8263")
12	2.3L DOHC 16V Focus, Ranger, Fusion, Mazda 3,5,6 Milan.	01-08	F140-5 STD .020/.50 .030/.75	87.5mm (3.445")	28.5mm (1.122")	2-1.2mm 1-2.5mm		21.0mm (0.8263")

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
5.8L (351) V8 OHV 16 Val.	76-93	45			
5.8L (351) V8 OHV 16 Val.	69-76	46			
5.8L (351) V8 OHV 16 Val.	94-98	47			
5.8L (351) V8 OHV 16 Val.	77-90	48			
6.2L V8 SOCH 16V	10-13	49			
6.8L (415) V10 SOHC 16 Val.	97-06	50			
6.8L (415) V10 SOHC 20 Val.	99-09	51			
6.8L (415) SOHC 30 Vál.	05-11	52			

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MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESION / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
2.3L (140) L4 SOHC 8V USA Asp. Natural y Turbo Courier, Mustang II, Pinto, Thunderbird	79-95	F140-6 STD .020/0.50 .030/0.75	96.0mm (3.780")	40.08mm (1.578")	2 - 1.5mm 1 - 4.0mm		23.17mm (0.912")	13
2.5L (153) SOHC 8 V. VIN A, C B2500, Ford, Ranger	98-01	F153 STD .020/.50 .030/.75	96.0mm (3.780")	30.2mm (1.190")	2-1.5mm 1-3.0mm		23.17mm 0.912"	14
2.5L (2488cc) L4 DOHC 16V VIN 7, 6, 3,A, M, H Escape, Fusion,Mariner,Milan, Mazda3, 5, 6,CX-7	09-12	F153-1 .020/.50 .030/.75	89.00mm (3.504")	28.25mm (1.112")	2 - 1.20mm 1-2.50mm		20.00mm (0.787")	15
2.9L (177) V6 OHV 12V VIN T Borncó II, Explorer, Escorpio, Merkur, Ranger	86-92	F177 .020/.50 .030/.75	93.00mm (3.661")	38.78mm (1.527")	1-1.60mm 1-1.75mm 1-3.5mm		24.00mm (0.945")	16
3.0L (183) V6 OHV 12V Vulcan VIN U, V, 1, 2 Aerostar, Ghia, Mazda B3000, Sable, Taurus, Ranger, Windstar	86-99	F183 STD .020/0.50 .030/0.75 .040/1.0	89.0mm (3.504")	39.0mm (1.535")	2 - 1.5mm 1 - 4.0mm		23.17mm (0.912")	17
3.0L (183) V6 DOHC 24V Duratec VIN S, G, 1 Escape, Five Hundred, Fusion, Mariner, Milan, Sable	01-10	F183-1 * STD .020/0.50 .030/0.75 .040/1.0	89.00mm (3.504")	30.0mm (1.181")	1 - 1.20mm 1-1.50mm 1 - 2.5mm		21.00mm (0.827")	18

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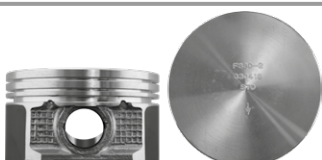
	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
19	3.5L (213) V6 DOHC 24V Duratec VIN C, T, W, 8 CX-9, Edge, Fusion, Lincoln MKZ, MKX, Sable, Taurus	07-10	F213 STD .020/0.50 .030/0.75 .040/1.0	92.5mm (3.642")	31.25mm (1.230")	1 - 1.2mm 1 - 1.5mm 1 - 2.5mm		23.0mm (0.906")
20	3.8L (232) V6 OHV 12 V Cougar, Thunderbird, Taurus, F150	83-89	F232 STD .020/0.50 .030/0.75 .040/1.00	96.8 mm (3.811")	40.7 mm (1.602")	2-2.0 mm 1-4.0 mm		23.17 mm (0.912")
21	3.8L (232) V6 OHV 12 V Aerostar, F150, Cougar, Taurus, Windstar.	90-95	F232-1 STD .020/0.50 .030/0.75 .040/1.00	96.8 mm (3.811")	41.3 mm (1.627")	2-1.5 mm 1-4.0 mm		23.17 mm (0.912")
22	4.0L (244) V6 OHV 12V VIN X Aerostar, Explorer, Maz- da B4000.	90-94	F244 STD .020/0.50 .030/0.75 .040/1.00	100.4 mm (3.952")	37.1 mm (1.461")	1-1.6mm 1-1.75mm 1-3.5mm		24.0 mm (0.945")
23	4.0L (245) V6 OHV 12V IN X Explorer, Ranger. Mazda B4000.	95-01	F245-1 STD .020/0.50 .030/0.75 .040/1.00	100.4 mm (3.952")	36.8 mm (1.450")	1-1.6mm 1-1.75mm 1-3.5mm		24.0 mm (0.945")
24	4.0L (245) V6 SOHV 12V VIN E, K, N Explorer, STrac Moun- taineer, Land RarLR3, Mazda B4000	97-10	F245-2 STD .020/0.50 .030/0.75	100.4 mm (3.982")	36.2 mm (1.425")	1-1.6mm 1-1.75mm 1-3.5mm		24.0 mm (0.945")
25	4.2L (256) V6 OHV 12 V VIN 2 Econoline, F150, Club Wagon, Freestar	97-09	F256 STD .020/0.50 .030/0.75 .040/1.00	96.8 mm (3.811")	31.8 mm (1.254")	2-1.5mm 1-3.0mm		23.0 mm (0.905")
26	4.6L (281) V8 SOHC 16V VIN W Lincoln Town Car, Grand Marquis, Mustang, Expedition, E250.	91-06	F281 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.551")	30.4 mm (1.200")	2-1.5mm 1-3.0mm		22.0 mm (0.966")

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4.6L V8 DOHC 32 V Ford Tritón, F150, E150, Expedition, Explorer, Mustang.	99-03	F281-1 STD .020/.50 .030/.75	90.2mm (3.551")	30.98mm (1.220")	2-1.5mm 1-3.0mm		21.99mm (0.866")	27
4.6L (281) V8 SOHC 16V VIN 6, 9, W F150, E150, Expedition, Explorer, Mutang, Mountainer.	01-04	F281-2 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.551")	30.9 mm (1.220")	2-1.5mm 1-3.0mm		22.0 mm (0.966")	28
4.6L (281) V8 SOHC 24V Tritón VIN H, 8 Explorer, Explorer Spot Trac, F150, Mountainer	05-10	F281-3* STD .020/0.50 .030/0.75	90.20mm (3.551")	31.0mm (1.220")	2 - 1.50mm 1 - 3.00mm		22.00mm (0.866")	29
4.9L (300) L6 OHV 12 V F150, F250, XL Econoline, Club Wagon, Bronco	77-86	F300 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	44.9 mm (1.768")	2-5/64 1 3/16		24.76 mm (0.975")	30
4.9L (300) L6 OHV 12 V E100, F100	75-76	F300-1 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.03 mm (1.576")	2 -5/64 1 3/16		24.76 mm (0.975")	31
4.9L (300) L6 OHV 12 V F100, F150, Econoline, Bronco	69-87	F300-2 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	44.2 mm (1.739")	2- 5/64 1 3/16		24.76 mm (0.975")	32
4.9L (300) L6 OHV 12 V	96-97	F300-3 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	44.9 mm (1.767")	2-2.0mm 1-4.0mm		24.76 mm (0.975")	33
5.0L (302) V8 OHV 16 V Explorer, Camioneta 4 x 4 Bronco, E150, F150	92-01	F302 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	41.1 mm (1.619")	2-1/16 1-5/32		23.17 mm (0.912")	34

* En desarrollo

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35	5.0L (302) V8 OHV 16 V Maverick, Mustang, Fairmont, Galaxie	63-80	F302-1 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.2 mm (1.585")	2-5/64 1-3/16		23.17 mm (0.912")
36	5.0L (302) V8 OHV 16 V USA, Bronco, F150, F250, Fairmont, Mave- rick.	79-86	F302-2 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.2 mm (1.585")	2-5/64 1-3/16		23.17 mm (0.912")
37	5.0L V8 OHV 16 V. Camionetas Ford	87-95	F302-3 STD .020/.50 .030/.75 .040/1.00 .060/1.50	101.6mm (4.000")	40.64mm (1.600")	2-5/64 1-3/16		23.17mm (0.9122")
38	5.0L V8 OHV 16 V. Camionetas Ford	96-00	F302-4 STD .020/.50 .030/.75 .040/1.00 .060/1.50	101.6mm (4.000")	40.51mm (1.594")	2-1.5mm 1-4.0mm		23.17mm (0.9122")
39	5.0L (302) V8 OHV 16 V. F250, Lobo, B100, 150 F100, 150, 350	81-93	F302-5 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.7 mm (1.605")	2-5/64 1-3/16		23.17 mm (0.912")
40	5.4L (330) V8 SOHC 16 V VIN L TRITON Navigator, Blackwood	99-06	F330 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	30.07 mm (1.211")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 
41	5.4L (330) V8 SOHC 16V VIN L TRITON Excursion, Expedition, F150, F250, F350, Mark LT, Navigator	97-10	F330-1 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	30.7 mm (1.211")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 
42	5.4L (330) V8 SOHC 16 V. VIN L TRITON Excursion, Expedition, F150, F250, F350, Mark LT, Navigator	97-07	F330-2 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	30.7 mm (1.211")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 

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5.4L (330) V8 DOCH 32V VIN A, R, Trion, Lincoln	97-10	F330-1-P STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	30.7 mm (1.211")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 	43
5.4L (330) V8 DOCH 32V VIN A, R, Trion, Lincoln	99-06	F330-P STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	30.07 mm (1.211")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 	44
5.8L (351) V8 OHV 16 V. Grand Marquis, Crown Victoria, Galaxie, F250, F350	76-93	F351 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	44.2 mm (1.739")	2-5/64 1-3/16		23.17 mm (0.912")	45
5.8L (351) V8 OHV 16 V Grand Marquis, Crown Victoria, Galaxie, F250, F350	69-76	F351-W STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	44.5 mm (1.752")	2-5/64 1-3/16		23.17 mm (0.912")	46
5.8L (351) V8 OHV 16 V Camionetas Ford	94-98	F351-1 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	45.6 mm (1.795")	2-1.5mm 1-4.0mm		23.17 mm (0.912")	47
5.8L (351) V8 OHV 16 V Grand Marquis, Crown Victoria, Galaxie, F250, F350	77-90	F351-2 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	44.5 mm (1.752")	2-5/64 1-3/16		23.17 mm (0.912")	48
6.2L (379) V8 SOHC 16V VCT, Romeo VIN 6 F150 SVT Raptor, Series Super Duty	10-13	F379 * STD .020/0.50 .030/0.75	102.00mm (4.106")	33.25mm (1.309")	2-1.50mm 1-2.50mm		24.00mm (0.944") 	49
6.8L (415) V10 SOHC 16 V VIN S TRITON Excursion, F450, F550	97-06	F415 STD .020/0.50 .030/0.75 .040/1.00	90.2 mm (3.552")	31.0 mm (1.220")	2-1.5mm 1-3.0mm		22.0 mm (0.866") 	50

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51	6.8L (415) V10 SOHC 20V Triton Power Improved, VIN S Series Super Duty: F-250, F-350, F-450, F-550, E-350, E-450, E-550, E-550, Econoline, Excursion, Club Wagon	99 -10	F415-1 STD .020/0.50 .030/0.75 .040/1.0	90.2mm (3.551")	30.75mm (1.211")	2-1.5 mm 1-3.0 mm		22.00 mm (.866") 	51
52	6.8L (415) SOHC 30 V Triton VIN Y Super Duty Series F250, 350, 450, 550	05-11	F415-2 STD .020/0.50 .030/0.75 .040/1.0	90.20 mm (3.551")	30.75 mm (1.211")	2 -1.50mm 1 -3.0mm		22.00mm (0.866") 	52
37									37
38									38
39									39
40									40
41									41
42									42

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.0L (995cc) L4 SOHC 8Val.	04-11	1	2.2L (134) L4 OHV 8 Val.	94-98	12
1.2L (73) L4 DOHC 16 Val.	11-12	2	2.2L (134) L4 OHV 8Val.	98-03	13
1.4L (85) L4 SOHC 8Val.	94-03	3	2.2L (2189cc) L4 DOHC 16Val.	00-10	14
1.4L (85) L4 DOHC 16 Val.	02-05	4	2.4L (146) L4 DOHC 16 Val.	95-05	15
1.6L (98) L4 SOHC 8 Val.	11-15	5	2.4L L4 DOHC 16 Val.	03-08	16
1.6L (98) L4 SOHC 8 Val.	96-09	6	2.4L (2384cc) L4 DOHC 16 Val.	06-10	17
1.6L (98) L4 DOHC 16 Val.	04-10	7	2.5L (151) L4 OHV 8Val.	77-78	18
1.8L (1796cc) L4 DOHC 16Val.	00-06	8	2.5L (151) L4 OHV 8Val.	79-93	19
1.8L (1796cc) L4 SOHC 8Val.	03-11	9	2.5L (151) L4 OHV 8Val.	82-86	20
1.8L (1796cc) L4 SOHC 16Val.	10-13	10	2.8L (169) L4 DOHC 16V	04-06	21
1.8L (1796cc) L4 SOHC 8Val.	10-16	11	2.8L (173) V6 OHV 12V	82-93	22

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MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.0L (995cc) L4 SOHC 8V Matiz, Pontiac G2	04-11	GM61 STD .020/.50 .030/.75	68.5mm (2.697")	25.2mm (0.992")	2-1.2mm 1-2.5mm		17.0mm (0.669") 	1
1.2L (73) L4 DOHC 16V MFI S-Tec II SPARK	11-12	GM73 STD .020/0.50 .030/0.75 .040/1.0	69.7 mm (2.744")	22.10 mm (.870")	2-1.2 mm 1-2.0 mm		17.0 mm (.669") 	2
1.4L (85) L4 SOHC 8V. Chevy Joy, Swing	94-03	GM85 STD .020 / 0.50 .030 / 0.75 .040 / 1.00	77.6 mm (3.055")	32.0 mm (1.262")	2-1.5mm 1-3.0mm		18.0 mm (0.708")	3
1.4L (85) L4 DOHC 16 V X14XE, Z14XE Corsa, Tigra	02-05	GM85-1 STD .020 / 0.50 .030 / 0.75	77.6 mm (3.055")	31.3 mm (1.232")	1-1.2mm 1-1.5mm 1-2.0mm		18.0 mm (0.708")	4
1.4L (1364cc) DOHC 16 V Ecotec LUV, LUJ, DCVCP, Turbo Cruze, Votl	11-15	GM85-2* STD .020/ 0.50 .030 / 0.75	72.50mm (2.854")	25.90mm (1.019")	2 -1.20mm 1 -2.00mm		18.00mm (0.709") 	5
1.6L (98) L4 SOHC 8 V Chevy Joy, Swing, Monza	96-09	GM98 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	79.0 mm (3.110")	28.0 mm (1.102")	1-1.2mm 1-1.5mm 1-3.0mm		18.0 mm (0.708") 	6



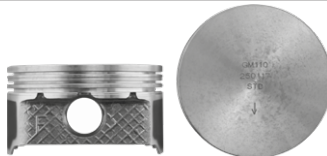
Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
3.0L (181) L4 OHV 8 Val.	90-94	23	4.8L V8 OHV 16Val.	99-09	34
3.5L (211) L5 DOHC 20V	04-06	24	4.8L (293) V8 OHV 16V	10-15	35
4.1L L6 OHV 12V	67-89	25	5.0L V8 OHV 16 Val.	76-93	36
4.2L (256) L6 DOHC 24V	02-06	26	5.0L (305) V8 OHV 16 Val.	96-01	37
4.2L (256) L6 DOHC 24V	06-10	27	5.0L (305) V8 OHV 16 Val.	82-86	38
4.3L V6 OHV 12Val.	92-97	28	5.3L V8 OHV 16 Val.	99-03	39
4.3L (262) V6 OHV 12Val.	85-95	29	5.3L V8 OHV 16 Val.	04-09	40
4.3L (262) V6 OHV 12Val.	85-96	30	5.7L (350) V8 OHV 16 Val.	92-97	41
4.3L (262) V6 OHV 12Val.	96-07	31	5.7L (350) V8 OHV 16 Val.	73-91	42
4.8L L6 OHV 12Val.	63-91	32	5.7L (350) V8 OHV 16 Val.	86-09	43
4.8L V8 OHV 16Val.	99-04	33	5.7L (350) V8 OHV 16 Val.	99-09	44

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	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
7	1.6L (98) L4 DOHC 16 V VIN 6, E Aveo, Pontiac G3	04-10	GM98-1 STD .020 / 0.50 .030 / 0.75	79.0 mm (3.110")	27.5 mm (1.084")	1-1.2mm 1-1.5mm 1-3.0mm		18.0 mm (0.708")
8	1.8L (1796cc) L4 DOHC 16V X18XE Astra, Zafira	00-06	GM110 STD .020/.50 .030/.75	80.5mm (3.169")	24.1mm (0.949")	2-1.2mm 1-2.0mm		18.0mm (0.708")
9	1.8L (1796cc) L4 SOHC 8V C18N2 Corsa, Tornado, Meriva	03-11	GM110-1 STD .020/.50 .030/.75	80.5mm (3.169")	24.1mm (0.949")	2-1.2mm 1-2.0mm		18.0mm (0.708")
10	1.8L (1796cc) L4 DOHC 16V Ecotec LUW Cruze, Trax, Sonic	10-13	GM110-2 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	80.50mm. (3.169")	25.40mm. (1.000")	2-1.20mm 1-2.0mm		19.00mm. (0.748")
11	1.8L (1796cc) L4 SOHC 8V N18XFH Tornado	10-16	GM110-3 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	80.50mm. (3.169")	24.10mm. (0.949")	2-1.20mm 1-2.0mm		18.00mm (0.709")
12	2.2L (134) L4 OHV 8 V Cavalier, Sunfire, S-10, Pick Up	94-98	GM134 STD .020/0.50 .030/0.75 .040/1.00	89.0 mm (3.505")	30.1 mm (1.185")	2-1.5mm 1-3.0mm		20.3 mm (0.800")

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
5.7L (350) V8 OHV 16 Val.	90-97	45			
5.7L V8 OHV 16 Val	92-96	46			
6.0L V8 OHV 16 Val.	99-03	47			
6.0L V8 OHV 16 Val.	03-09	48			
6.0 V8 OHV16 Val.	02-08	49			
6.0L V8 OHV16 Val.	05-08	50			
6.0L (364) V8 OHV 16V.	06-08	51			
6.0L (364) V8 OHV 16V.	02-09	52			
6.2L (376) V8 OHV 16Val.	07-11	53			
6.2L (376) V8 OHV 16Val.	07-12	54			
6.2L (379) V8 OHV 16Val.	82-93	55			

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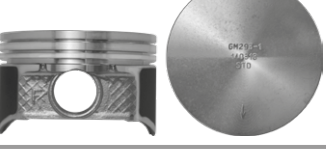
MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
2.2L (134) L4 OHV 8V Cavalier, S-10, Pick Up	98-03	GM134-1 STD .020/0.50 .030/0.75 .040/1.00	89.0 mm (3.505")	30.5 mm (1.200")	2-1.5mm 1-3.0mm		20.3 mm (0.800")	13
2.2L (2189cc) L4 DOHC 16V Z22SE Astra, Cavalier, Vectra, Zafira	00-10	GM134-4 STD .020/.50 .030/.75	86.0mm (3.386")	26.75mm (1.053")	1.2mm 1.5mm 2.5mm		20.0mm (0.7870") 	14
2.4L (146) L4 DOHC 16 V Cavalier, Z24, Sunfire, Malibú	96-02	GM146 STD .020/0.50 .030/0.75 .040/1.00	90.0 mm (3.543")	29.8 mm (1.173")	1-1.2mm 1-1.5mm 1-3.0mm		22.0 mm (0.866") 	15
2.4L L4 DOHC 16 V LD9 Z24XE ASTRA.	03-08	GM146-1 STD .020/.50 .030/.75	87.5mm (3.445")	26.9mm (1.059")	1.2mm 1.5mm 2.5mm		21.0mm (0.8263")	16
2.4L (2384cc) L4 DOHC 16V ECOTEC LE5, LE9 CAPTIVA, HHR, MALIBU, SOLSTICE, G5, G6	06-10	GM146-2 STD .020/.50 .030/.75	88.00mm. (3.464")	27.70mm. (1.090")	1-1.20mm. 1-1.50mm. 1-2.0mm.		20.00mm (0.787") 	17
2.5L (151) L4 OHV 8V VIN V, 9, 1	77-78	GM151 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.0mm (1.575")	2-5/64" 1-3/16"		23.55 mm (0.9273")	18

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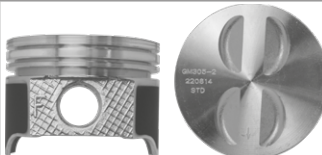
	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
19	2.5L (151) L4 OHV 8V Astro, Blazer, Bravada, Jimmy, S-10, Pick Up	79-93	GM151-1 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	39.8 mm (1.568")	1-1/16" 1-5/64" 1-3/16"		23.55 mm (0.927")
20	2.5L (151) L4 OHV 8V Firebird, Phoenix	82-86	GM151-2 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.0mm (1.575")	1-1/16" 1-5/64" 1-3/16"		23.55 mm (0.927")
21	2.8L (169) L4 DOHC 16V VORTEC LK5 VIN 8 Canyon, Colorado, Isuzu I-280	04-06	GM169 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	93.0mm (3.661")	27.9mm (1.099")	1 - 1.2mm 1 - 1.5mm 1 - 2.5mm		23.0mm (0.906") 
22	2.8L (173) V6 OHV 12V VIN S, R, X, Z, 1 Camaro, Celebrity, Century, Citation, Cutlass, S-10	82-93	GM173 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	89.0mm (3.504")	40.6mm (1.598")	1 - 1.5mm 1 - 2.0mm 1 - 4.75mm		22.99mm (0.905")
23	3.0L (181) L4 OHV 8V Mercruiser	90-94	GM181-1 STD .020/0.50 .030/0.75 .040/1.00	101.6 mm (4.000")	40.9 mm (1.610")	2-5/64" 1-3/16"		23.55 mm (0.927")
24	3.5L (211) L5 DOHC 20V VORTEC L52 VIN 6 Canyon, Colorado, Hummer H3, Isuzu I-350	04-06	GM211 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	93.0mm (3.661")	27.9mm (1.099")	1 - 1.2mm 1 - 1.5mm 1 - 2.5mm		23.0mm (0.906") 
25	4.1L (250) L6 OHV 12V Chevelle, Chevy nova, Landau, Malibú	67-89	GM250 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	98.43mm (3.875")	41.66mm (1.640")	2- 5/64 1 - 3/16		23.55mm (0.927")
26	4.2L (256) L6 DOHC 24V VORTEC LL8 VIN S Bravada, Envoy, Rainier, Trail Blazer, Isuzu Ascender	02-06	GM256 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	93.0mm (3.661")	27.9mm (1.099")	1 - 1.2mm 1 - 1.5mm 1 - 2.5mm		23.0mm (0.906") 

* En desarrollo

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4.2L (256) L6 DOHC 24V VORTEC LL8 VIN S Envoy, Rainier, Trail Blazer, Isuzu Ascender	06-10	GM256-1 STD .020/ 0.50 .030 / 0.75 .040 / 1.00	93.0mm (3.661")	28.4mm (1.119")	1 - 1.2mm 1 - 1.5mm 1 - 2.5mm		23.5mm (0.925") 
4.3L V6 OHV 12V Vortec Silverado, Cheyenne	92-97	GM262 STD .020/.50 .030/.75 .040/1.00	101.6mm (4.000")	39.11mm (1.540")	2-5/64 1-3/16		23.55mm (0.927")
4.3L (262) V6 OHV 12V VIN V, W Blazer, Silverado, Pick Up, Cargo Van	85-95	GM262-1 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.1 mm (1.540")	2-5/64 1-3/16		23.55 mm (0.927")
4.3L (262) V6 OHV 12V. TBI Silverado, Suburban, Cheyenne, Pick Up,	85-96	GM262-2 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.6 mm (1.560")	2-5/64 1-3/16		23.55 mm (0.927")
4.3L (262) V6 OHV 12V. VIN V, W Blazer, Silverado, Pick Up, Cargo Van	96-07	GM262-3 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.6 mm (1.560")	2-1.5mm 1-3.0mm		23.55 mm (0.927")
4.8L (292) L6 OHV 12V Series C10, C15, C20, C30, G20, G30, K10, K20, K30, P10, P20, P30	63-91	CH292 STD .020/0.50 .030/0.75 .040/1.0 .060/1.50	98.43mm (3.875")	48.72mm (1.918")	2 - 3/32 1 - 3/16		23.55mm (0.927")
4.8L (293) V8 OHV 16V Vortec Avalanche, Cheyenne, Tahoe, Sierra, Yukon	99-04	GM293 STD .020/.50 .030/.75 .040/1.00	96.01mm (3.780")	34.0mm (1.338")	2-1.5mm 1-3.0mm		24.0mm (0.945")
4.8L V8 OHV 16V. Vortec, Avalanche Silverado, Cheyenne, Tahoe, Sierra, Yukon	05-09	GM293-1 STD .020/.50 .030/.75 .040/1.00	96.01mm (3.780")	33.6mm (1.323")	2-1.5mm 1-3.0mm		24.0mm (0.945") 

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35	4.8L (293) V8 OHV 16V Flex fuel Vortec Express 2500, 3500, Savana 2500, 3500, Silverado 1500, Sierra 1500	10-15	GM293-2* STD .020/.50 .030/.75	96.01mm (3.780")	34.00mm (1.339")	2-1.50mm 1-3.00mm		24.00mm (0.944") 
36	5.7L (350) V8 OHV 16V Vortec Camaro, Ccaprice, Corbette, Impala.	76-93	GM305 STD .020/.50 .030/.75 .040/1.00 .060/1.50	94.9mm (3.736")	39.1mm (1.540")	2-5/64 1-3/16		23.55mm (0.9273")
37	5.0L (305) V8 OHV 16V USA, Buik, Oldsmobile, Pontiac	96-01	GM305-1 STD .020 / .030 .040 / .060	94.9 mm (3.736")	39.1 mm (1.540")	2 - 5/64 1 - 3/16		23.55 mm (.9272")
38	5.0L (305) V8 OHV 16V USA, Buik, Oldsmobile, Pontiac	82-86	GM305-2 STD .020 / .030 .040 / .060	94.9 mm (3.736")	39.1 mm (1.540")	2 - 5/64 1 - 3/16		23.55 mm (.9272")
39	5.3L V8 OHV 16V Vortec Avalanche, Silverado 2500, Cheyenne, Tahoe Envoy, Sierra, Yukon	99-03	GM325 STD .020 / .50 .030 / .75 .040 / 1.00	96.01mm (3.780")	34.0mm (1.338")	2-1.5mm 1-3.0mm		24.0mm (0.945")
40	5.3L V8 OHV 16V Vortec Avalanche, Silverado 2500, Cheyenne, Tahoe Envoy, Sierra, Yukon.	04-09	GM325-1 STD .020 / .50 .030 / .75 .040 / 1.00	96.01mm (3.780")	33.8mm (1.331")	2-1.5mm 1-3.0mm		24.0mm (0.945") 
41	5.7L (350) V8 OHV 16 V VIN P, 7, 8 Camaro, Caprice, Corvet- te, Impala	92-97	GM350 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.4 mm (1.551")	2-5/64 1-3/16		23.55 mm (0.927")
42	5.7L (350) V8 OHV 16 V Caprice, Concours, Chevy Nova, Malibu, Cheyenne, Suburban	73-91	GM350-1 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.1 mm (1.540")	2-5/64 1-3/16		23.55 mm (0.927")

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5.7L (350) V8 OHV 16 V TBI Blazer, Cheyenne, Silverado, Suburban	86-09	GM350-2 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.6 mm (1.560")	2-5/64 1-3/16		23.55 mm (0.927")	43
5.7L (350) V8 OHV 16 V Silverado, Sonora, Suburban, Pick Up, C3500, P30	99-09	GM350-3 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.6 mm (1.560")	2-1.5mm 1-3.0mm		23.55 mm (0.927")	44
6.0L (364) V8 OHV 16V VORTEC VIN 5, N, U Cargo, Van, Passenger Van, Silverado, Suburban, Tahoe, Trailblazer	90-97	GM 350-4 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6mm (4.000")	39.2mm (1.540")	1- 2.0mm 1- 1.5mm 1- 4.0mm		23.55mm (0.9275")	45
6.0L (364) V8 OHV 16V Vortec Silverado, Suburban, Sierra, Yukon, Trailblazer, Corvette, CTS, Escalade	92-96	GM 350-5 STD .020/0.50 .030/0.75 .040/1.00 .060/1.50	101.6 mm (4.000")	39.2 (1.540")	1- 2.0mm 1- 1.5mm 1- 4.0mm		23.55mm (0.9273")	46
6.0L V8 OHV 16 V Vortec Express, Silverado 1500, 2500, 3500, Suburban, Tahoe	99-03	GM364 STD .020/.50 .030/.75 .040/1.00	101.6mm (4.0080")	33.7mm (1.326")	2-1.5mm 1-3.0mm		24.0mm (0.945")	47
6.0L V8 OHV 16 V Vortec Express, Silverado 1500, 2500, 3500, Suburban, Tahoe	03-09	GM364-1 STD .020/.50 .030/.75 .040/1.00	101.6mm (4.0080")	33.7mm (1.326") 2Cav	2-1.5mm 1-3.0mm		24.0mm (0.945") 	48
6.0 V8 OHV16 V LQ9, L52 VIN N, V Escalade, Corvette, GTO, SSR, CTS-V	02-08	GM364-2 STD .020/.50 .030/.75	101.6mm (4.0080")	33.7mm (1.326") 2Cav	2-1.5mm 1-3.0mm		24.0mm (0.945") 	49
6.0L V8 OHV16 V Vortec VIN 5, H, N, V Express cargo, Van, Silverado 1500, 2500, 3500, Tahoe, Trailblazer	05-08	GM364-3 STD .020/.50 .030/.75	101.6mm (4.0080")	33.7mm (1.326") 2Cav	1-1.2mm. 1-1.5mm. 1-2.5mm.		24.0mm (0.945") 	50

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51	6.0L (364) V8 OHV 16V VORTEC VIN 5, N, U Cargo, Van, Passenger Van, Silverado, Suburban, Tahoe, Trailblazer	06-08	GM364-4 STD .020/0.50 .030/0.75	101.60 mm (4.000")	34.00 mm (1.339")	2 -1.50mm 1 -3.00mm		23.95mm. (0.943") 
52	6.0L (364) V8 OHV 16V Vortec Silverado, Suburban, Sierra, Yukon, Trailblazer, Cor- vette, CTS, Escalade	02-09	GM364-5 STD .020/0.50 .030/0.75	101.60 mm (4.000")	34.00 mm (1.339")	1 -1.20mm 1 -1.50mm 1 -2.50mm		23.95mm. (0.943") 
53	6.2L (376) V8 OHV 16V Vortec VIN 2, 8 Escalade, Hummer H2, Sierra, Denali, Yukon	07-11	GM376 STD .040/1.00 .060/1.50	103.25mm. (4.065")	33.78mm. (1.330")	2-1.50mm. 1-2.50mm.		23.95mm. (0.943") 
54	6.2L (376) V8 OHV 16V L99, L94, L92 Vortec Camaro, Escalade, Hummer H2, Sierra, Yukon 2007-12	07-12	GM376-1 STD .040/1.00 .060/1.50	103.25mm. (4.065")	33.78mm. (1.330")	2-1.50mm. 1-2.50mm.		23.95mm. (0.943") 
55	6.2L (379) V8 OHV 16V Vin J Suburban, 1500, 2500, 3500, V10, V20, V30	82-93	GM379D STD .020/.50 .030/.75	101.0 mm (3.9764")	53.82 (2.119")	1- 3.0 K mm 1- 2.0mm 1- 4.0mm		31.0 (1.220") 
56								
57								
58								

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.5L (1496cc) L4 SOHC 16V	06-08	1	2.4L (2354cc) L4 DOHC 16V	03-08	6
1.5L 1497cc L15A1/ L15A7 VTEC SOHC 16V.	09-14	2	2.4L (2354cc) L4 DOHC 16V	11-16	7
1.8L (1799cc) L4 SOHC 16V	06-11	3	3.5L V6 SOHC 24V	08-17	8
2.0L (1997cc) L4	01-05	4	3.5L(3474cc) V6 SOHC 24V	08-17	9
2.4L (2354cc) L4 DOHC 16V	02-06	5			

HONDA - ACURA

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.5L (1496cc) L4 SOHC 16V L15A1 Civic, Fit	06-08	H1500* STD .020/0.50 .030/0.75	73.00mm (2.874")	26.30mm (1.035")	1-1.00mm 1-1.20mm 1-2.00mm		18.00mm (0.709")	01
L4 (1.5) 1497cc L15A1/ L15A7 VTEC SOHC 16V. CITY	09-14	H1500-1* STD .020/0.50 .030/0.75	73.00mm (2.874")	26.30mm (1.035")	2 -1.00mm 1 -2.00mm		18.00mm (0.709")	02
1.8L (1799cc) L4 SOHC 16V R18A1 Civic	06-11	H1800 STD .020/0.50 .030/0.75	81.0mm (3.189")	28.9mm (1.138")	2 - 1.2mm 1 - 2.0mm		19.96mm (0.786")	03
2.0L (1997cc) L4 SOHC 16V I-VTEC R20A1 Accord, Civic, CR-V	07-12	H2000 STD .020/0.50 .030/0.75 .040/1.0	81.00mm. (3.189")	28.82mm. (1.135")	2-1.20mm. 1-2.0mm.		19.964mm. (0.786")	04
2.4L (2354cc) L4 DOHC 16V K24A1 CR-V	02-06	H2400* STD .020/0.50 .030/0.75	87.00mm (3.425")	29.6mm (1.165")	2-1.20mm 1-2.00mm		21.96mm (0.865")	05
2.4L (2354cc) L4 DOHC 16V K24A4 CR-V	03-08	H2400-1* STD .020/0.50 .030/0.75	87.00mm (3.425")	29.5mm (1.161")	2-1.20mm 1-2.00mm		21.96mm (0.865")	06
2.4L (2354cc) L4 DOHC 16V K24Z6, K24Z7, K24Y2 CR-V, Civic, Crosstour	11-16	H2400-2* STD .020/0.50 .030/0.75	87.00mm (3.425")	29.22mm (1.150")	1-1.20mm 1-1.00mm 1-2.0mm		21.96mm (0.865")	07
3.5L(3474cc) V6 SOHC 24V J35A1, J35A3 Odyssey, Acura MDX, Pilot	99-07	H3500 STD .020/0.50 .030/0.75	89.00mm (3.504")	30.00mm (1.181")	2 -1.20mm 1 - 2.8mm		21.96mm (0.865")	08
3.5L(3474cc) V6 SOHC 24V J35A6, J35Z2 Accord, Crosstour, Odyssey, Pilot	08-17	H3500-1 STD .020/0.50 .030/0.75	89.00mm (3.504")	30.00mm (1.181")	2 -1.20mm 1 - 2.8mm		21.96mm (0.865")	09



Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.0L (61) L4SOHC 12 V.	00-04	1	1.8L(1798cc)/2.0L (1998cc) L4 DOHC 16V.	07-11	6
1.1L (66) L4 SOHC 12 V. G4HG	05-11	2	2.0L (122) L4 DOHC 16V.	96-00	7
1.1L (66) L4 SOHC 8 V	05-11	3			
1.1L (66) L4 SOHC 12 V.	11-13	4			
1.6L (1591cc) L4 DOHC 16V	10-16	5			

HYUNDAI - KIA

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
01	1.0L (61) L4 SOHC 12 V. G4HC Hyundai Atos	00-04	CH61 STD .020/0.50 .030/0.75	66.0 mm (2.598")	25.0 mm (0.984")	2-1.2 mm 1-2.5mm		17.0 mm (0.669")
02	1.1L (66) L4 SOHC 12 V. G4HG Hyundai Atos	05-11	CH66 STD .020/0.50 .030/0.75	67.0 mm (2.638")	24.5 mm (0.964")	2-1.2 mm 1-2.0mm		17.0 mm (0.669")
03	1.1L (66) L4 SOHC 8 V. Vin K Hyundai Atos	05-11	CH66-1 STD .020/0.50 .030/0.75 .040/1.0	67.0 mm (2.638")	24.5 mm (0.964")	2-1.2 mm 1-2.5mm		17.0 mm (0.669")
04	1.1L (66) L4 SOHC 12 V. Hyundai, Epsilon, i10	11-13	CH66-2 STD .020/0.50 .030/0.75 .040/1.0	67.0mm (2.638")	24.38mm (.959")	2-1.2mm 1-2.0mm		17.0mm (.669")
05	1.6L (1591cc) L4 DOHC 16V G4FC Gamma Accent, Attitude, Forte, Rio, Soul, Veloster	10-16	K1600* STD .020/0.50 .030/0.75	77.00mm (3.031")	26.20mm (1.031")	2-1.20mm 1-2.00mm		18.00mm (0.709")
06	1.8L(1798cc)/2.0L (1998cc) L4 DOHC 16V. GEMA Hyundai XD Accent, Attitude, Caliber, Verna	07-11	CH110 STD .020/0.50 .030/0.75 .040/1.0	86.00mm (3.386")	27.25mm (1.073")	2 -1.20mm 1 -2.00mm		21.00mm (0.827")
07	2.0L (122) L4 DOHC 16V. VIN Y Avenger, Breeze, Cirus, Neon, Eclipse, Stratus.	96-00	CH122 STD .020/0.50 .030/0.75 .040/1.00	87.5 mm (3.445")	32.3 mm (1.274")	2-1.2mm 1-3.0mm		21.0 mm (0.826")

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
2.4L (2378cc) L4 SOHC 16Val.	03-07	1			
3.0L (2972cc) V6 SOHC 12Val.	94-00	2			
3.0L (2979cc) V6 SOHC 12Val.	88-95	3			

MITSUBISHI

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
2.4L (2378cc) L4 SOHC 16V. 4G69 Galant, Lancer Eclipse, Outlander.	03-07	M2400-4 STD .020/.50 .030/.75	87.0mm (3.425")	28.0mm (1.102")	2-1.2mm 1-2.0mm		22.0mm (0.866")	1
3.0L (2972cc) V6 SOHC 12V 6G72 Caravan, Daytona, Shadow, Voyager	94-00	M3000 STD .020/.50 .030/.75	91.1mm (2.586")	32.0mm (1.260")	1.2mm 1.5mm 3.0mm		22.0mm (0.866")	2
3.0L (2979cc) V6 SOHC 12V 6G72 FI Garant, Montero, Pick Up	88-95	M3000-2 STD .020/0.50 .030/0.75 .040/1.00	91.1 mm (3.586")	32.0 mm (1.260")	2-1.5mm 1-4.0mm		22.0 mm (0.866")	3
								4
								5
								6



Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.6L (1600cc) L4 SOHC 8 Val.	87-93	1	2.4L (2400cc) L4 SOHC 12Val.	91-95	12
1.6L (1600cc) L4 DOHC 16 Val.	93-09	2	2.4L (2400cc) L4 DOHC 16 Val.	93-97	13
1.6L (1600cc) L4 DOHC 16 Val.	00-10	3	2.4L (2389cc) L4 SOHC 16Val.	83-92	14
1.6L (1600cc) L4 SOHC 8 Val.	86-92	4	2.4L (2389cc) L4 DOHC 16V.	99-09	15
1.6L (1598cc) L4 DOHC 16 Val.	11-13	5	2.5L (2489cc) L4 DOHC 16V	01-07	16
1.8L (1800cc) L4 SOHC 8 Val.	81-93	6	2.5L(2489cc) L4 DOHC 16V	08-11	17
1.8L (1768cc) L4 DOHC 16 Val.	00-06	7	2.5L(2489cc) L4 DOHC 16V	04-18	18
1.8L (1768cc) L4 DOHC 16 Val.	07-13	8	3.0L (2960cc) V6 SOHC 12V	84-95	19
1.8L (1798cc) L4 DOHC 16V	13-15	9	3.3L (3275cc) V6 SOHC 12V	96-04	20
2.0L (2000cc) L4 SOHC 8V	74-81	10			
2.0L (1997cc) L4 DOHC 16V	07-12	11			

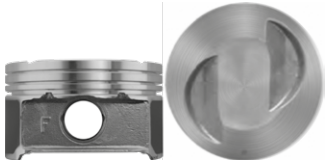
NISSAN - INFINITI

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
1	1.6L (1600cc) L4 SOHC 8V E16 Turbo Tsuru, Hikari, Samurai	87-93	N1600-1 STD .020/0.50 .030/0.75 .040/1.00	76.0 mm (2.992")	32.5 mm (1.279")	2-1.5mm 1-4.0mm		19.0 mm (0.748")
2	1.6L (1600cc) L4 DOHC 16V GA16DE Tsuru, Sentra, Lucino, Tsubame	93-09	N1600-2 STD .020/0.50 .030/0.75 .040/1.00	76.0 mm (2.992")	29.5 mm (1.161")	2-1.5mm 1-2.8mm		19.0 mm (0.748")
3	1.6L (1600cc) L4 DOHC 16V K4M Aprio, Platina, Clio, Kangoo	00-10	N1600-3 STD .020/0.50 .030/0.75	79.5 mm (3.130")	31.7 mm (1.248")	1-1.2mm 1-1.5mm 1-2.5mm		20.0 mm (0.787")
4	1.6L (1600cc) L4 SOHC 8V. E16 Tsuru, Hikari, Ninja, Samurai	86-92	N1600-4 STD .020/0.50 .030/0.75 .040/1.00	76.0 mm (2.992")	32.5 mm (1.279")	2-1.5mm 1-4.0mm		19.0 mm (0.748")
5	1.6L (1598cc) L4 DOHC 16V HR16DE March, Tiida, Versa	11-13	N1600-5 STD .020/0.50 .030/0.75	78.0mm (3.071")	28.65mm (1.128")	2-1.2mm 1-2.0mm		18.99mm (0.748")
6	1.8L (1800cc) L4 SOHC 8V J15 Ichivan, Pick Up, Sakura, Samurai	81-93	N1800 STD .020/0.50 .030/0.75 .040/1.00	80.5 mm (3.169")	32.5 mm (1.279")	1-1.5mm 1-2.0mm 1-4.0mm		21.0 mm (0.827")

NISSAN - INFINITI

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.8L (1768cc) L4 DOHC 16V QG18DE, Almera, Sentra	00-06	N1800-1 STD .020/0.50 .030/0.75	80.0mm (3.150")	29.2mm (1.150")	2-1.2mm 1-2.5mm		18.99mm (0.748") 	7
1.8L (1768cc) L4 DOHC 16V MR18DE Cube, Tiida, Versa	07-13	N1800-2 STD .020/0.50 .030/0.75	84.0mm (3.307")	30.8mm (1.213")	2-1.2mm 1-2.0mm		20.0mm (0.787")	8
1.8L (1798cc) L4 DOHC 16V MRA8DE Sentra S, SR, SV	13-15	N1800-3* STD .020/0.50 .030/0.75	79.70mm (3.138")	30.66mm (1.207")	1-1.20mm 1-1.00mm 1-2.00mm	ND	20.00mm (0.787") 	9
2.0L (2000cc) L4 SOHC 8V Pick up, Sedán, 200SX, Wagon	74-81	N2000* STD .020/0.50 .030/0.75	85.00mm (3.346")	37.73mm (1.485")	2 - 2.0mm 1 - 4.0mm		21.00mm (0.827")	10
2.0L (1997cc) L4 DOHC 16V MR20DE Sentra	07-12	N2000-1 STD .020/0.50 .030/0.75	84.0mm (3.307")	30.8mm (1.213")	2-1.2mm 1-2.0mm		20.0mm (0.787")	11
2.4L (2400cc) L4 SOHC 12V. KA24E Ichivan, Pick Up	91-95	N2400-1 STD .020/0.50 .030/0.75 .040/1.00	89.0 mm (3.504")	34.0 mm (1.338")	2-1.5mm 1-2.8mm		21.0 mm (0.827")	12
2.4L (2400cc) L4 DOHC16V K24DE Altima, Urvan	93-97	N2400-2 STD .020/0.50 .030/0.75 .040/1.00	89.0 mm (3.504")	34.0 mm (1.338")	2-1.5mm 1-2.8mm		21.0 mm (0.827")	13
2.4L (2400cc) L4 SOHC 8V FI Z24, Z24i, Pick Up, Pathfinder	83-92	N2400-3 STD .020/0.50 .030/0.75 .040/1.00	89.0 mm (3.504")	34.1 mm (1.342")	1-2.0mm 1-1.5mm 1-4.0mm		21.0 mm (0.827")	14

NISSAN - INFINITI

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
15	2.4L (2389cc) L4 DOHC 16V KA24DE Altima, Frontier, Urvan	99-09	N2400-5 STD .020/.50 .030/.75	89.0mm (3.504")	33.95mm (1.337")	2-1.2mm 1-2.5mm		21.0mm (0.8263")
16	2.5L (2489cc) L4 DOHC 16V QR25DE Altima, Frontier, Sentra SE-R, Rogue, X-Trail	01-07	N2500 STD .020/0.50 .030/0.75 .040/1.0	89.0mm (3.504")	32.0mm (1.260")	2 - 1.2mm 1 - 2.5mm		19.99mm (0.787")
17	2.5L (2489cc) L4 DOHC 16V QR25DE Altima, Frontier, Sentra SE-R, Rogue, X-Trail, Urvan	08-11	N2500-1 STD .020/0.50 .030/0.75 .040/1.0	89.0mm (3.504")	32.7mm (1.287")	2 - 1.2mm 1 - 2.5mm		19.99mm (0.787")
18	2.5L (2489cc) L4 DOHC 16V QR25DE Rogue, X-Trail, Koleos, TR25	04-18	N2500-2* STD .020/0.50 .030/0.75	89.00mm (3.504")	33.00mm (1.300")	2-1.20mm 1-2.50mm		20.00mm (0.787") 
19	3.0L (2960cc) V6 SOHC 12V VG30i, VG30E Máxima F.I., Pathfinder, Pick up, 200SX	84-95	N3000 STD .020/0.50 .030/0.75	87.00mm (3.425")	32.00mm (1.260")	2-1.50mm 1-2.80mm		21.00mm (0.827")
20	3.3L (3275cc) V6 SOHC 12V VG33E Frontier, Pathfinder, Quest, X-Terra, Infiniti QX4, Villager	96-04	N3300* STD .020/0.50 .030/0.75	91.5.00mm (3.602")	31.96mm (1.258")	2 -1.50mm 1 -2.80mm		21.00mm (0.827") 
21								
22								

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.4L (1360cc) SOHC 8V	00-11	1			
1.6L (1598cc) DOHC 16V	07-12	2			
2.0L (1998cc) DOHC 16V	06-10	3			

PEUGEOT

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.4L (1360cc) SOHC 8V TU3JP 206, 207	00-11	P1400* STD .020/0.50 .030/0.75				ND		1
1.6L (1598cc) DOHC 16V EP6, EP6C, EP6CM 207, 208, 308, 3008 Mini cooper	07-12	P1600* STD				ND		2
2.0L (1998cc) DOHC 16V EW10A 307, X-Line, 307cc	06-10	P2000* STD				ND		3
								4
								5
								6

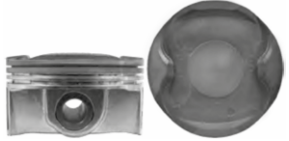


Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.5L DOHC 16V	06-13	1	2.7L (2694cc) L4 DOHC 16V	05-11	7
1.8L (1794cc) 1ZZFE DOHC 16V	03-05	2	3.0L (2958cc) V6 SOHC 12V	88-95	8
1.8L (1798cc) L4 DOHC 16V	09-13	3	3.3L (3300cc) V6 DOHC 24V	04-10	9
2.4L (2366cc) L4 DOHC 16V	85-95	4	3.5L (3456cc) V6 DOHC 24V	05-09	10
2.4L (2366cc) L4 DOHC 16V	01-08	5	4.0L (3956cc) V6 DOHC 24V	03-15	11
2.4L (2366cc) L4 DOHC 16V	01-11	6	5.7L (5667cc) V8 DOHC 32V	07-15	12

TOYOTA - LEXUS

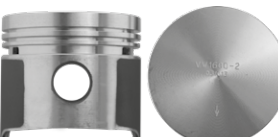
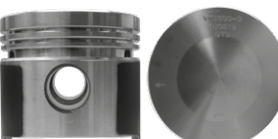
	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.
1	1.5L (1495cc) L4 DOHC 16V 3SZVE Avanza	06-13	T1500 STD .020/0.50 .030/0.75	72.00mm (2.835")	27.98mm (1.102")	2 - 1.20mm 1 - 2.00mm		18.00mm (0.709")
2	1.8L (1794cc) ENGINE 1ZZFE DOHC 16V TOYOTA MODELS, CELICA 00-05, MATRIX	03-05	T1800* STD .020/0.50 .030/0.75 .040/1.0	79.00mm. (3.110")	31.88mm. (1.255")	2-1.20mm. 1-3.0mm.		20.00mm (0.787")
3	1.8L (1798cc) L4 DOHC 16V 2ZRFE Corolla, Matrix	09-13	T1800-1 STD .020/0.50 .030/0.75 .040/1.0	81.00mm. (3.189")	28.25mm. (1.112")	2-1.0mm. 1-1.50mm.		20.00mm (0.787")
4	2.4L (2366cc) L4 DOHC 16V 22R, 22RE, 22REC Corola, Celica, Pick up	85-95	T2400 STD .020/0.50 .030/0.75 .040/1.00	92.0 mm (3.622")	35.0 mm (1.378")	2-1.5mm 1-4.0mm		22.0 mm (0.866")
5	2.4L (2366cc) L4 DOHC 16V 2AZFE Camry, Highlander, RAV4, Scion, Solara	01-08	T2400-1 STD .020/0.50 .030/0.75 .040/1.0	88.5mm (3.484")	33.7mm (1.327")	2 - 1.2mm 1 - 2.0mm		21.99mm (0.866")
6	2.4L (2366cc) L4 DOHC 16V 2AZFE Camry, Corolla, Highlander, Matrix, RAV-4, Solara, Scion	01-11	T2400-2 STD .020/0.50 .030/0.75	88.50mm (3.484")	33.70mm (1.327")	2-1.20mm 1 - 2.00mm		22.00mm (0.866")
7	2.7L (2694cc) L4 DOHC 16V 2TRFE, Hiace, Hilux, Tacoma	05-11	T2700* STD .020/0.50 .030/0.75	95.00mm (3.740")	39.30mm (1.547")	2 - 1.20mm 1 - 2.00mm		22.00mm (0.866")
8	3.0L (2958cc) V6 SOHC 12V 4Runner, Pick up, T100	88-95	T3000 STD .020/0.50 .030/0.75	83.00mm. (3.267")	34.41mm. (1.355")	2-1.50mm. 1-4.0mm.		21.00mm (0.827")

TOYOTA - LEXUS

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
3.3L (3300cc) V6 DOHC 24V 3MZFE Camry, Highlander, Sienna, Solara, Lexus ES330, RX330	04-10	T3300* STD .020/0.50 .030/0.75	92.00mm (3.622")	30.95mm (1.219")	2 -1.20mm 1-3.00mm		22.00mm (0.866") 	09
3.5L (3456cc) V6 DOHC 24V 2GRFSE Camry, Highlander, RAV-4, Sienna, Avalon, Venza	05-09	T3500* STD .020/0.50 .030/0.75	94.00mm (3.701")	30.90mm (1.217")	2-1.20mm 1-2.00mm		22.00mm (0.866") 	10
4.0L (3956cc) V6 DOHC 24V 1GRFE 4Runner, FJ Cruiser, Tacoma, Tundra	03-15	T4000* STD .020/0.50 .030/0.75	94.00mm (3.701")	34.99mm (1.378")	2-1.20mm 1-2.00mm		22.00mm (0.866") 	11
5.7L (5667cc) V8 DOHC 32V 3URFE Land Cruiser, Sequoia, Tundra, Lexus LX570, RX350	07-15	T5700* STD .020/0.50 .030/0.75	94.00mm (3.701")	36.26mm (1.428")	2-1.20mm 1-2.00mm		22.00mm (0.866") 	12
								13
								14
								15
								16

Motor / Engine	Año / Year	Línea / Line	Motor / Engine	Año / Year	Línea / Line
1.4L (1390cc) L4 DOHC 16V	07-14	1	1.8L (1781cc) L4 DOHC 20V	96-08	9
1.6L (1598cc) L4 SOHC 8 Val.	03-11	2	1.8L (1781cc) L4 SOHC 8 Val.	97-09	10
1.6L (1600cc) Baja Compresión	71-92	3	1.8L (1781cc) L4 SOHC 8 Val.	89-93	11
1.6L (1600cc) Alta Compresión	71-92	4	1.8L (1800cc) L4 SOHC 8 Val.	93-05	12
1.6L (1600cc) F.I. 8Val.	93-03	5	1.8L (1781cc) L4 DOHC 20V	00-08	13
1.6L (1595cc) L4 SOHC 8V	96-11	6	2.0L L4 SOHC 8VAL.	93-02	14
1.6L (1598cc) L4 DOHC 16 Val	10-15	7	2.0L (1984cc) L4 SOHC 8V	98-10	15
1.6L (1598cc) L4 DOHC 16V	13-16	8	2.0L (1984cc) L4 SOHC 8V	98-10	16
			2.5L (2480cc) L5 DOHC 20V	05-11	17

VOLKSWAGEN - SEAT - AUDI

	MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO DEL PISTÓN / PISTON PIN DIA.
1	1.4L (1390cc) L4 DOHC 16V CAXA, CAVF Golf VI, Polo, León, Ibiza, Altea, Toledo, Audi A1, A3	07-14	VW1400* STD .020/0.50 .030/0.75	76.51mm (3.012")	29.10mm (1.146")	1 - 1.20mm 1 - 1.50mm 1 - 2.0mm		19.00mm (0.748") 
2	1.6L (1598cc) L4 SOHC 8V ABU, Crossfox, Gol, Lupo, Polo, Saveiro, Cordoba, Ibiza	03-11	VW1600 STD .020/0.50 .030/0.75 .040/1.00	76.5mm (3.012")	28.7mm (1.130")	1-1.2mm 1-1.5mm 1-2.5mm		17.0mm (0.669") 
3	1.6L (1600cc) Baja compresión Sedán, Brasilia, Combi, Safari	71-92	VW1600-1 STD .020/0.50 .030/0.75 .040/1.00	85.5 mm (3.366")	39.4 mm (1.551")	2-2.0mm 1-5.0mm		22.0 mm (0.866") 
4	1.6L (1600cc) Alta compresión Sedán, Brasilia, Combi, Safari, Hormiga	71-92	VW1600-2 STD .020/0.50 .030/0.75 .040/1.00	85.5 mm (3.366")	39.4 mm (1.551")	2-2.0mm 1-5.0mm		22.0 mm (0.866") 
5	1.6L (1600cc) F.I. 8V Sedán	93-03	VW1600-3 STD .020/0.50 .030/0.75 .040/1.00	85.5 mm (3.366")	39.4 mm (1.551")	2-2.0mm 1-5.0mm		22.0 mm (0.866") 
6	1.6L (1595cc) L4 SOHC 8V AEH, AHL Altea, Bora, Cordoba, Golf, Ibiza, Jetta, Leon, Beetle, Passat, Polo, Toledo.	96-11	VW1600-4 STD .020/0.50 .030/0.75	81.0mm (3.189")	32.7mm (1.287")	1 - 1.2mm 1 - 1.5mm 1 - 2.0mm		20.0mm (0.787") 
7	1.6L (1598cc) L4 DOHC 16V VW Cross Fox, Gol	10-15	VW1600-5 STD .020/0.50 .030/0.75 .040/1.0	76.51mm. (3.012")	29.25mm. (1.151")	2-1.20mm. 1-2.0mm.		17.0mm. (0.669") 
8	1.6L (1598cc) L4 DOHC 16V CLSA, CLRA VW Vento	13-16	VW1600-6 STD .020/0.50 .030/0.75 .040/1.0	76.51mm. (3.012")	29.25mm. (1.151")	2-1.20mm. 1-2.0mm.		19.00mm. (0.748")

VOLKSWAGEN - SEAT - AUDI

MOTOR / ENGINE	AÑO / YEAR	N. PARTE TALLAS / PART NUM. SIZES	DIÁMETRO DE CILINDRO / BORE DIA.	DISTANCIA DE COMPRESIÓN / COMP. HEIGHT	ANILLOS / RING GROOVES	CABEZA / HEAD	DIÁMETRO DEL PERNO / PISTON PIN DIA.	
1.8L (1781cc) L4 DOHC 20V AGU, AJQ, APP Beetle, Golf GTI, Jetta, Passat, Sharan, Audi A3, A4, TT, Ibiza, Leon, Toledo	96-08	VW1800 STD .020/0.50 .030/0.75	81.0mm (3.189")	32.45mm (1.278")	1 -1.5mm 1 -1.75mm 1 - 2.0mm		20.0mm (0.787") 	9
1.8L (1781cc) L4 SOHC 8V Pointer	97-09	VW1800-1 STD .020/0.50 .030/0.75 .040/1.00	81.0 mm (3.189")	32.2 mm (1.268")	1-1.2mm 1-1.5mm 1-2.0mm		20.0 mm (0.787") 	10
1.8L (1781cc) L4 SOHC 8V Carburado, FI Derby, Golf, Jetta GL, A3, Corsar	89-93	VW1800-2 STD .020/0.50 .030/0.75 .040/1.00	81.0 mm (3.189")	33.5 mm (1.319")	1-1.5mm 1-1.75mm 1-3.0mm		20.0 mm (0.787") 	11
1.8L (1800cc) L4 SOHC 8V Golf A3, Jetta A3, Combi, Panel, Derby Van	93-05	VW1800-3 STD .020/0.50 .030/0.75 .040/1.0	81.00 mm (3.189")	33.50 mm (1.319")	1-1.5mm 1-1.75mm 1-3.0mm		20.0 mm (.787") 	12
1.8L (1781cc) L4 DOHC 20V AGU, AJQ, APP Beetle, Golf GTI, Jetta, Passat, Sharan, Audi A3, A4, TT, Ibiza, Leon, Toledo	00-08	VW1800-4 STD .020/0.50 .030/0.75	81.0mm (3.189")	32.45mm (1.278")	1 -1.5mm 1 -1.75mm 1 - 2.0mm		19.0mm (0.748") 	13
2.0L (1984cc) L4 SOHC 8V ABA Golf A3, GTI, Jetta A3, Cabrio A3, Passat	93-02	VW2000* STD .020/0.50 .030/0.75	82.50mm (3.248")	30.60mm (1.204")	1 -1.20mm 1 -1.50mm 1 - 2.0mm		21.00mm (0.827") 	14
2.0L (1984cc) L4 SOHC 8V ABA, AEG, AZG, AVH Cabrio A4, Golf A4, Golf GTI A4, Jetta A4, New Beetle, Seat Cordoba, Seat Ibiza, Seat Toledo	98-10	VW2000-1 STD .020/0.50 .030/0.75	82.5mm (3.248")	30.1mm (1.185")	1 -1.2mm 1 - 1.5mm 1 - 2.0mm		20.0mm (0.787") 	15
2.0L (1984cc) L4 SOHC 8V ABA, AEG, SEAT-Cordoba, Ibiza, Toledo, VWA4-Golf, Jetta, New Beetle	98-10	VW2000-2 STD .020/0.50 .030/0.75	82.5mm (3.248")	29.75mm (1.171")	1-1.2mm 1-1.5mm 1-2.0mm		18.99mm (0.748") 	16
2.5L (2480cc) L5 DOHC 20V BGP, CBTA Bora, Golf, Jetta, New Beetle	05-11	VW2500 STD .020/0.50 .030/0.75	82.5mm (3.248")	29.3mm (1.153")	1-1.2mm 1-1.5mm 1-2.0mm		18.99mm (0.748") 	17

* En desarrollo

Instructivo de Instalación

Installation Instructions

A) Recomendaciones previas a la instalación */ Previous Instructions*

Limpieza de las partes

Antes de instalar cualquier componente del motor, es necesario lavarlos bien con agua y jabón, así como todos los conductos y venas de lubricación del monoblock y cigüeñal; séquelos con un trapo que no suelte pelusa y lubríquelos para evitar oxidación y daños.

Parts Cleaning

Before any part be installed on the engine an exhaustively washing process it is advisable, dry and oil properly all the parts.

Claro entre el Pistón y el cilindro

Verificar el claro entre la falda del pistón y la pared del cilindro, la cual debe estar dentro del rango de .0015" a .003".

Nota 1: Todas las dimensiones deben ser tomadas con las piezas a una temperatura de 21° C.

Nota 2: El claro entre el pistón y el cilindro debe ser tomado en la zona de la falda, a la altura indicado en la etiqueta de la caja del producto.

Clearance between the cylinder and piston

Verify the clearance between the piston skirt and the cylinder wall, which must be within the range of .0015 "to .003" (0.38mm to 0.75mm).

Note 1: All dimensions must be taken with the pieces at a temperature of 21 °C.

Note 2: The clearance between the piston and the cylinder must be taken in the area of the skirt at the height indicated on the packaging label.

¡ IMPORTANTE!

El ajuste o claro entre el perno y el barreno para perno del pistón es crítico y debe de ser de .0003" a .0005" (.007mm a .012mm). El perno debe de entrar y deslizarse libremente para asegurar que el ajuste es el correcto. No se recomienda alterar el ajuste original.

¡ IMPORTANT!

The clearance between the pin bore and the piston pin is critical and should be .0003 "to .0005" (.007 mm to .012 mm). The wrist pin should enter slide freely and to ensure that the setting is correct. We do not recommend to modify the original setting.

Instructivo de Instalación

Installation Instructions

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Aspectos Importantes

- En climas cálidos, el perno se desliza libremente en los barrenos para perno del pistón.
- En climas templados ó fríos, el perno se encuentra más ajustado.
- No golpear el perno ni los barrenos para realizar la instalación.
- En ensambles con interferencia entre perno y biela, no ensamblar en frío.
- No esmerilar los extremos del perno para facilitar su instalación.
- Elimine el aceite protector del perno y limpie cuidadosamente.
- Lubricar generosamente previo a su ensamble tanto el perno, como los barrenos del pistón.

Important Aspects

- In warm weathers, the wrist pin bore slides freely in the hole for the piston pin.
- In mild or cold weather, the wrist pin is tighter.
- Do not hit the pin and the hole for installation.
- In assemblies with interference between wrist pin and connecting rod do not assembly in cold.
- Do not grind wrist pin ends for easier installation.
- Remove the protective oil and clean carefully.
- Generously lubricate prior to assembly.

B) Procedimiento para ensamblar el Pistón, Perno y Biela

1.- Perno con interferencia con la biela

Asegúrese que los componentes están libres de rebabas o suciedad y lubrique generosamente el perno y los barrenos del pistón.

Caliente el ojo de la biela de preferencia sobre una parrilla, a la temperatura que especifica el fabricante (250 grados C máx); cuide no exceder lo recomendado para no alterar la estructura del material.

Por ningún motivo instale con prensa y en frío, ya que la geometría del pistón se deformará lo cual no se percibe a simple vista. Esto puede causar que el pistón se amarre con el cilindro.

Assembly procedure (Conecting rod, piston pin and piston)

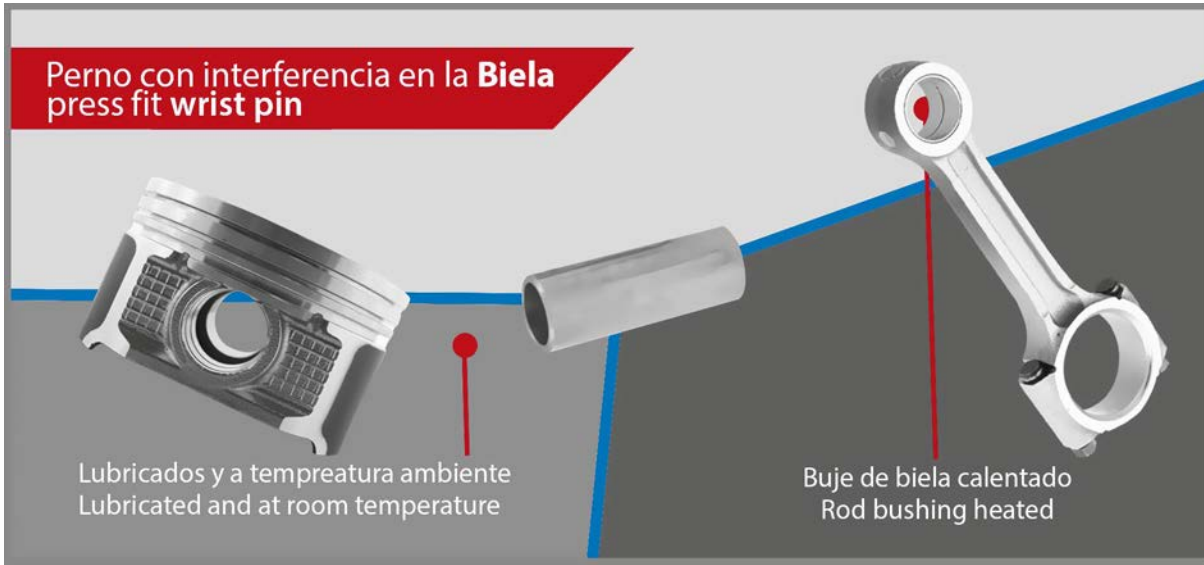
Press fit wrist pin

- Be sure all components will be burrs and dirty free.
- Generously lubricate the pin and pin bores on the piston.
- Warm the small eye of connecting rod up to 250°C maximum.
- Proceed to insert the wrist pin in to the piston and the small eye pressing firmly.

Note: Do not insert the wrist pin whitout a proper temperature on the small eye.

Instructivo de Instalación

Installation Instructions



2.- Perno flotante con la biela (perno con seguros)

En este tipo de diseño, el perno flota libremente en el ojo de la biela y en los barrenos para perno del pistón. En este caso, el perno es mantenido en su lugar por los seguros que se instalan en las ranuras localizadas en cada extremo del barreno para el perno.

El ensamble se realiza a temperatura ambiente.

Floating wrist pin.

- Be sure the component are burrs and dirty free.
- Generously lubricate all the components.
- Insert one side circlip on the piston with the gap face down.
- Proceed to insert the wrist pin applying a light pressure of the hand.

Note: Assembly at room temperature.

3.- Perno con interferencia en los barrenos del pistón

El perno presenta cierta resistencia al ensamblarse con el pistón, aunque con la presión de la mano se puede realizar. En este tipo de diseño, es recomendable calentar previamente el pistón sumergiéndolo en agua a 70° C.

Press fit wrist pin.

- Be sure the component are burrs and dirty free.
- Generously lubricate all the components.
- Warm the piston in water at 70°C.
- Proceed to insert the wrist pin applying a light pressure.

Para instalar los seguros del perno

- 1.- Evite comprimir demasiado el seguro para no rebasar el límite del material y que el seguro quede flojo.
- 2.- La abertura del seguro debe quedar en la parte inferior del alojamiento.

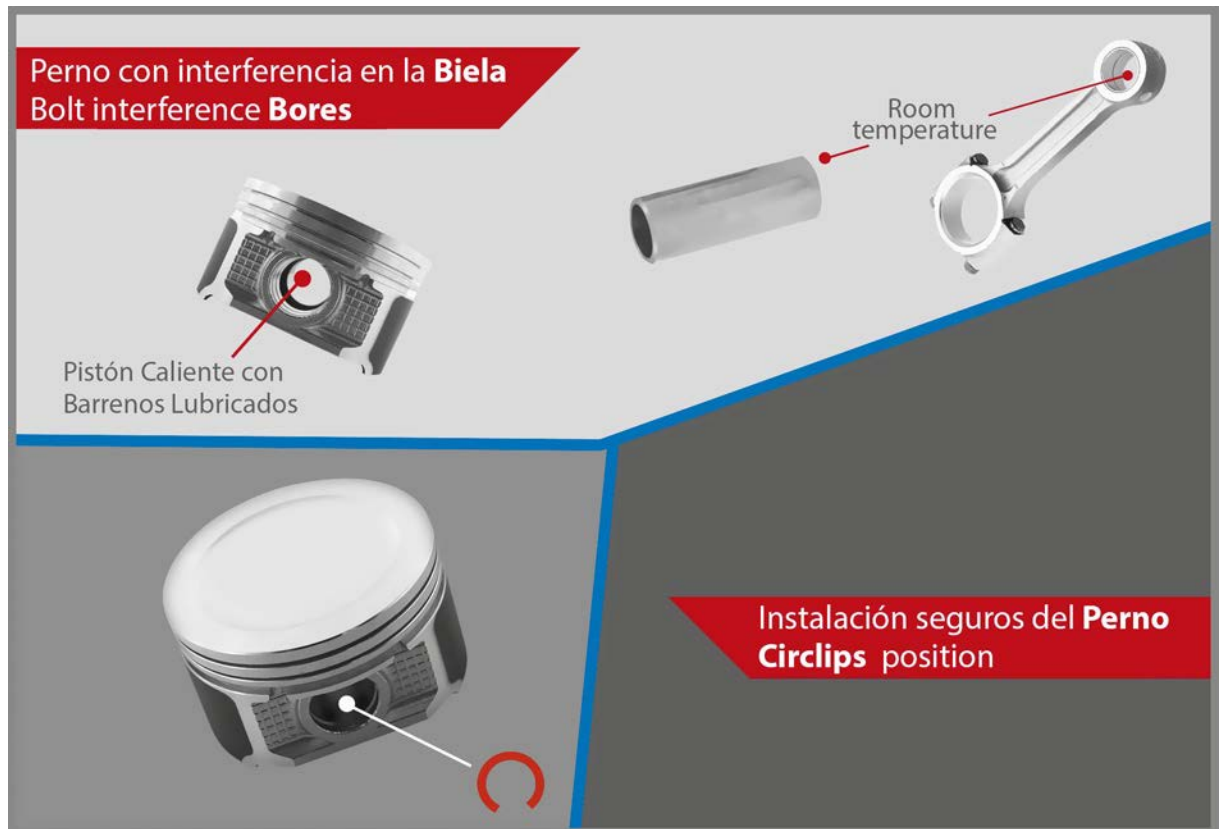
Instructivo de Instalación

Installation Instructions

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Circlips installation

- 1.- Use the proper tool to insert the circlip on the slot. Avoid losing circlips over compressing the pieces.
- 2.- Be sure the end gap face down once installed on the pin bore slot.



Frente del pistón

Todos los pistones tienen una identificación visible que indica el frente del motor (una F, una flecha o una muesca de fundición) la cual es importante tener presente durante la instalación.

Piston Front

All the pistons have a visual identification of the engine front. Typically it would be a casted F or casted mark on the dome or a stamping arrow.

IMPORTANTE: En algunos motores europeos, el frente del motor es hacia el lado del volante de inercia. Se recomienda tomar nota de cómo vienen instalados los pistones durante el desarmado del mismo.

IMPORTANT: In some european engines the front it's located on the opposite side. Be careful during the disassembly of the engine.

7. Verificar el ensamble.
(Lubricar los componentes).

1. Limpieza e Inspección visual de los componentes.

2. Verificar el ajuste pistón-perno:
.007 a .012mm
(.0003" a .0005")

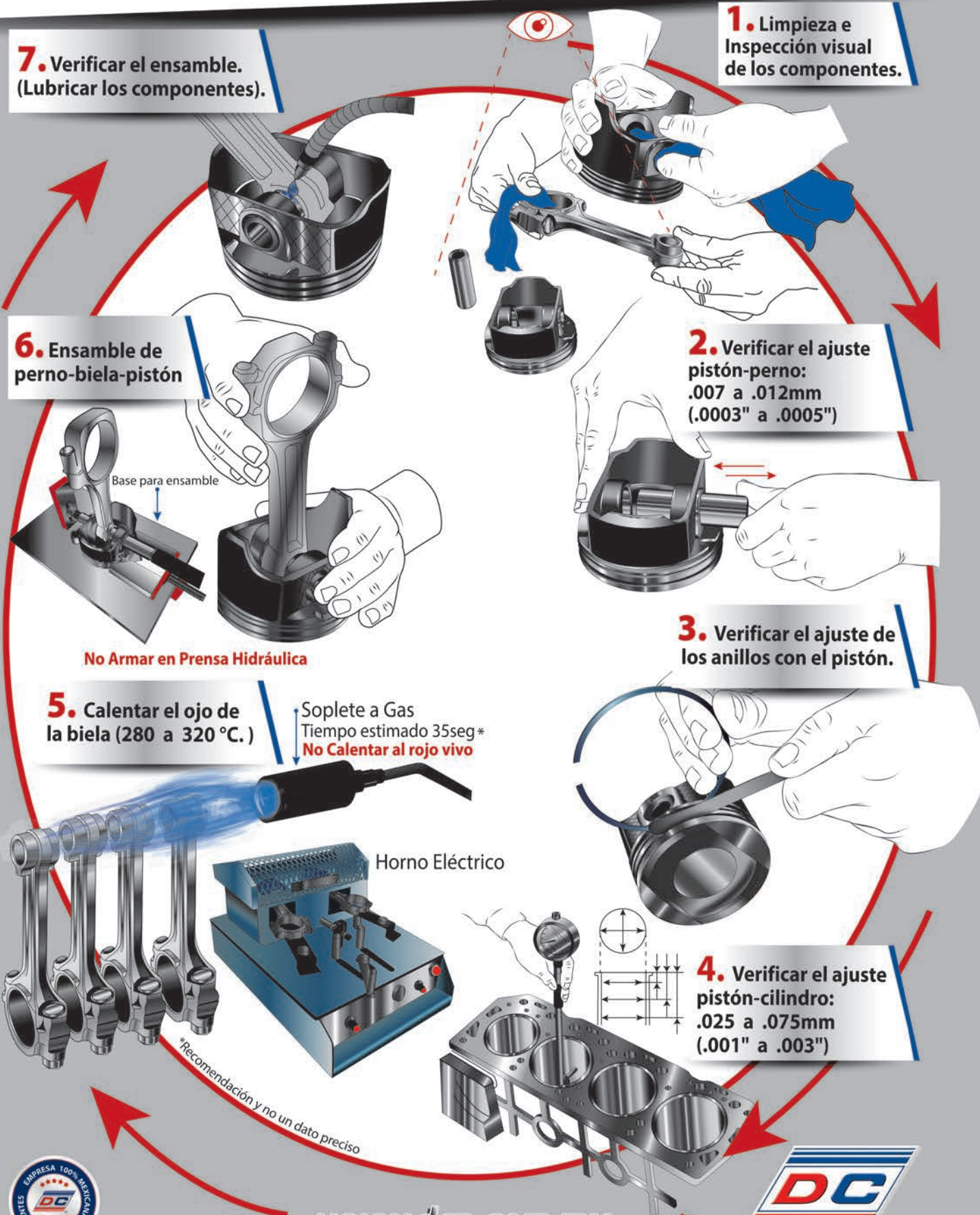
3. Verificar el ajuste de los anillos con el pistón.

6. Ensamble de perno-biela-pistón

5. Calentar el ojo de la biela (280 a 320 °C.)

Soplete a Gas
Tiempo estimado 35seg *
No Calentar al rojo vivo

4. Verificar el ajuste pistón-cilindro:
.025 a .075mm
(.001" a .003")



Garantía

Warranty

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Importante

Los productos con la marca **DC** que usted ha adquirido, están garantizados contra defectos de fabricación o mala calidad en los materiales.

El alcance de ésta es de 1 año ó 120,000 kilómetros, lo que ocurra primero, a partir de la fecha de compra, siempre y cuando estos hayan sido instalados de acuerdo a las especificaciones del fabricante del motor.

Si los productos causaran una falla o daño al motor del vehículo en el que se instaló, las partes se someterán a un peritaje, el cual se realizará por personal autorizado por **Manufacturas Diversas, S.A. de C.V.**

El fabricante no se responsabiliza por los gastos secundarios al producto tales como: pagos de grúa, pérdidas de mercancía, robos, llamadas telefónicas, daños secuenciales, etc.

En el caso de que proceda la garantía, el pago se efectuará de acuerdo al tabulador vigente a la fecha del evento, el cual estará establecido por el fabricante.

Important

The **DC** brand products that you have purchased, are warranted against defects in workmanship or poor quality materials.

The scope of it is 1 year or 120,000 kilometers, whichever comes first, from the purchase date, if products were installed according to the specifications of the engine manufacturer.

In the event a failure or damage to the engine occurs due our products, the parts should be submitted to an authorized personel assigned by **Manufacturas Diversas, S.A. de C.V.**

The manufacturer is not responsible for incidental expenses to the product such as crane payments, loss of goods, theft, phone calls, consequential damage, etc.

In the event that the warranty is applicable, will be paid according to the current tab to the date of the event, which will be set by the manufacturer.

Esta garantía no sera válida si:

- El producto o el motor han sido alterados en su diseño original.
- El motor es desarmado en ausencia del técnico de **Manufacturas Diversas, S.A. de C.V.** ó sin el consentimiento previo del mismo.
- El pistón no es ensamblado con sus componentes suministrados con él.

This warranty is void if:

- The product or the engine has been modify from in its original design.
- The engine is disassembled in the absence of a technician from **Manufacturas Diversas, S.A. de C.V.** or without the consent of the manufacturer.
- The piston is assembled without the components supplied with it.

Para distribuidores

- Daños ocasionados por mal manejo, mal almacenamiento y deterioro atribuible al distribuidor.
- Si el almacenamiento es mayor a 1 año de su adquisición.
- La garantía no puede ser modificada, extendida ó ampliada en cuanto a su alcance y términos aquí estipulados.

For dealers

- Damage caused by mishandling, storage and deterioration attributable to the distributor.
- If storage is more than one year of acquisition.
- The warranty may not be modified, extended or expanded in scope and terms here indicated.

Garantía

Warranty



Garantía Limitada / Limited Warranty

Producto / Product:

No. de Parte / Part No:

Medida / Size:

Número de Factura / Invoice Number:

Fecha de Compra / Date of Purchase:

Fecha de Instalación / Date of Installation:

Vehículo / Vehicle:

Modelo / Model:

Marca / Brand:

Cilindraje del Motor / Engine Cyl:

K.m. Recorridos / K.m. tours:

Falla / Fail:

Daño / Damage:

Nombre del Consumidor / Consumer Name:

Dirección / Address:

Fecha / Date:

Firma / Signature:

Daños en Pistones

Piston Damage

DAÑOS FRECUENTES / FREQUENT DAMAGE

A

TALLADO DE LA FALDA EN AMBOS LADOS A 90° / SEIZURES ON BOTH SIDES

CAUSAS PROBABLES / PROBABLE CAUSE

A1 CLARO ENTRE EL CILINDRO Y EL PISTÓN FUERA DE ESPECIFICACIÓN HACIA MENOS / FITTING CLEARANCE TOO SMALL.

A1.1 CILINDRO MAL RECTIFICADO O CON REBORDES / CYLINDER OUT OF DIMENSION.

A1.2 PISTÓN MAL SELECCIONADO / WRONG PISTON APPLICATION.

A2 SOBRECALENTAMIENTO DEL MOTOR POR MAL FUNCIONAMIENTO DEL SISTEMA DE ENFRIAMIENTO / ENGINE OVERHEATED BY COOLING DEFECTS.

A2.1 MAL FUNCIONAMIENTO DEL: TERMOSTATO, RADIADOR, MANGUERAS O VENTILADOR / THERMOSTAT LACK, RADIATOR, HOSES OR FAN.

RECOMENDACIONES / RECOMMENDATIONS

A1.1 VERIFICAR LA DIMENSIÓN DEL CILINDRO Y EL CLARO CON EL PISTÓN / CHECK THE CORRECT CYLINDER DIMENSION AND CLEARANCE.

A1.2 ASEGURESE QUE EL NUMERO DE PARTE Y LA TALLA DEL PISTÓN SON CORRECTOS / BE SURE THE SIZE OF THE PISTON ARE CORRECT.

A2.1 VERIFICAR QUE TODOS LOS COMPONENTES DEL SISTEMA DE ENFRIAMIENTO FUNCIONAN CORRECTAMENTE / CHECK ALL THE COOLING COMPONENTS OPERATING IN GOOD CONDITIONS.

B

TALLADO DE LA FALDA EN EL LADO DE EMPUJE A 90° / SEIZURE MARK ON ONE SIDE

B1 LUBRICACIÓN DEFICIENTE / INSUFFICIENT LUBRICATION.

B1.1 EXCESIVA ACCIÓN DE RASPADO DE LOS ANILLOS / EXCESSIVE SCRAPING ACTION OF OIL CONTROL RING.

B1.2 LAVADO DEL ACEITE POR EXCESO DE COMBUSTIBLE / DILUTION FOR THE OIL.

B1.3 BAJO NIVEL DE ACEITE / LOW OIL LEVEL.

B1.1 UTILICE ÚNICAMENTE LOS ANILLOS ESPECIFICADOS / USE ONLY THE RECOMMENDED OIL CONTROL RINGS.

B1.2 VERIFIQUE QUE LA MEZCLA AIRE-COMBUSTIBLE ES LA CORRECTA / CHECK THE AIR & GASOLINE MIX IS CORRECT.

B1.3 ASEGURESE DE QUE EL ACEITE ES ESPECIFICADO, LA PRESIÓN ES LA CORRECTA Y QUE EL NIVEL ES EL INDICADO / CHECK THE OIL LEVEL IS SUFFICIENT. OIL VISCOSITY AND THE OIL PRESSURE.

C

C) TALLADO DE LA FALDA A 45° / DIAGONAL SEIZURE ON THE SKIRT

C1) DEFORMACIÓN DEL PISTÓN POR ENSAMBLE INCORRECTO ENTRE EL PERNO-PISTÓN-BIELA / PISTON DEFORMATION CONNECTING AND INCORRECT ASSEMBLY. PROCEDURE OF PIN-PISTON-ROD.

C1.2) INTERFERENCIA EXCESIVA ENTRE EL PERNO Y LA BIELA / EXCESSIVE SHRINK FIT BETWEEN SMALL EYE AND PIN.

C1.3) POBRE LUBRICACIÓN EN EL ENSAMBLE PREVIO ENTRE EL PERNO-PISTÓN-BIELA / POOR LUBRICATION BEFORE ASSEMBLY.

C1.1 ASEGURESE DE CALENTAR EL OJO DE LA BIELA A LA TEMPERATURA ESPECIFICADA Y DE QUE EL ENSAMBLE SE REALIZA DE MANERA SUAVE / BE SURE TO HAVE THE CORRECT TEMPERATURE ON THE SMALL EYE BEFORE ASSEMBLY 250 °C.

C1.2 ASEGURE QUE LA INTERFERENCIA ENTRE EL PERNO Y BIELA NO ES MAYOR A .001" / DIAMETER OF THE SMALL EYE OF CONNECTING ROD MUST BE 0.001" LESS THAN PISTON PIN.

C1.3 LUBRICAR GENEROSAMENTE LOS COMPONENTES DEL ENSAMBLE PERNO-PISTÓN / ALWAYS LUBRICATE THE WRIST PIN AND PIN BORES BEFORE FITTING PARTS TOGETHER.

D

TALLADO DIAGONAL EN LA FALDA / OBLIQUE RUNNING OF THE PISTON

D1) POSICIÓN INCLINADA DEL PISTÓN EN EL CILINDRO / OBLIQUE POSITION OF THE PISTON AND CYLINDER.

D1.1) EL PERNO RESPECTO A LA BIELA NO ESTÁ PERPENDICULAR / WRIST PIN AXIS IS NOT AT RIGHT ANGLE TO THE CONNECTING ROD.

D1.2) BIELA DESALINEADA / CONNECTING ROD IS NOT PROPERLY ALIGNED.

D1.3) CIGÜEÑAL MAL INSTALADO EN SUS SOPORTES / CRANKSHAFT IS NOT CORRECTLY MOUNTED IN ITS BEARINGS.

D1.1 ASEGURESE QUE LOS COMPONENTES DEL ENSAMBLE ESTAN ALINEADOS / ENSURE THAT COMPONENTS OF DRIVING GEAR ARE CORRECTLY ALIGNED DURING ASSEMBLY.

D1.2 VERIFIQUE LA POSICIÓN ANGULAR DE LA BIELA / CHECK THE ANGULAR POSITION OF THE CONNECTING RODS.

D1.3 DESPUES DE ENSAMBLADO, VERIFIQUE EL CLARO EN EL PUNTO MUERTO SUPERIOR E INFERIOR EN LA DIRECCIÓN DEL BARRENO PARA PERNO / AFTER ASSEMBLY CHECK THE GAP AT TDC AND BDC IN THE DIRECTION OF THE WRIST PIN.

E

ROTURA DE LAS LANDAS / BREAKAGE OF THE RING LANDS BY MECHANICAL OVERLOAD

E1) GOLPES O SOBRECARGA MECÁNICA / PISTON STRIKING OR OVERLOADED.

E1.1) SOBRECARGA DEL MOTOR POR MODIFICACIONES EN SUS COMPONENTES / THE ENGINE WAS TUNED TO INCREASE POWER.

E1.2) GOLPE DEL ANILLO CON LA LANDA DURANTE EL ENSAMBLE / PISTON WAS KNOCKED-IN BY TOOLS DURING THE ASSEMBLY.

E1.3) GOLPETEO DEL 1ER ANILLO EN EL BORDE SUPERIOR DEL CILINDRO / TOP RING STRIKING THE WEAR EDGE OF THE CYLINDER AT TDC.

E1.1 UTILICE SIEMPRE PARTES ESPECIFICADAS PARA EL MOTOR / DO NOT MODIFY THE ENGINE SPECIFICATIONS.

E1.2 CUANDO INSTALE LOS PISTONES UTILICE OPRESOR DE ANILLOS Y EVITE GOLPEAR EL PISTÓN PARA INSERTARLO EN EL CILINDRO / USE PISTONS RING CLAMPS AND DO NOT KNOCK THE PART.

E2.1 ASEGURESE QUE EL CILINDRO FUE CORRECTAMENTE RECTIFICADO Y NO PRESENTA REBORDE EN LA PARTE SUPERIOR / ENSURE THE CYLINDER ARE CORRECTLY OVERHAULED.

Daños en Pistones

Piston Damage

DAÑOS FRECUENTES / FREQUENT DAMAGE



ROTURA DE LAS LANDAS, EROSIÓN EN LA CABEZA Y 1ER LANDA CABEZA PERFORADA / BREAKAGE OF THE RING LANDS AND BURNT THROUGH CAUSED BY FAULTY COMBUSTION



GOLPES EN LA CABEZA / DEFORMATION ON THE PISTON CROWN



FISURAS EN: CABEZA DEL PISTÓN Y BARRENO PARA PERNO / CRACKS IN PISTON CROWN AND PIN BOSSES



TALLADO EN EL BARRENO PARA PERNO / SEIZURE IN THE PIN BORE

CAUSAS PROBABLES / PROBABLE CAUSE

F1) COMBUSTIÓN DEFICIENTE / EROSION BY FAULTY COMBUSTION

F1.1. SOBRECALENTAMIENTO E INCREMENTO DE PRESIÓN DE LOS GASES / KNOCKING COMBUSTION LEADS TO A HIGH PRESSURE AND OVERHEATING.

F1.2. PRE-IGNICIÓN SEVERA / OVER ADVANCED IGNITION.

F1.3. AJUSTE POBRE DE INYECCIÓN DE COMBUSTIBLE / OVER LEAN SETTINGS FOR FULL LOAD.

F1.4. COMBUSTIBLE CON BAJO OCTANAJE / TOO LOW OCTANE FUEL.

F1.5. INCREMENTO DE COMPRESIÓN POR EXCESO DE CARBÓN EN LA CABEZA / INCREASE IN COMPRESSION CAUSED BY DEPOSITS ON THE PISTON DOME.

F1.6. BUJÍA CON RANGO TÉRMICO MUY BAJO / LOW HEATING RANGE ON THE SPARK PLUGS.

G1. TIEMPO DE APERTURA DE VALVULAS DESAJUSTADO / INCORRECT VALVE TIMING.

G2. RESORTES DE VALVULA ROTOS / BROKEN VALVE SPRINGS.

G3. EXCESO DE CARBÓN EN LA CABEZA DE LA VÁLVULA / BUILD UP OF OIL CARBON ON THE VALVE.

G4. CLARO ENTRE EL PISTÓN Y LA VALVULA FUERA DE ESPECIFICACIÓN / INCORRECT VALVE CLEARANCE.

G5. TORNILLOS DE BIELA FLOJOS Ó ROTOS / CONNECTING ROD BOLT LOOSED OR BROKEN.

H1 SOBRECARGA DEL MOTOR / OVERLOADED ENGINE.

H1.1. MODIFICACIÓN DE LA POTENCIA NOMINAL DEL MOTOR / ENGINE TUNED TO INCREASE THE POWER.

H2 GOLPETEO FÍSICO / PHYSICAL STRIKE ON THE CROWN.

H2.1. CLARO ENTRE EL PISTÓN Y LA CABEZA DEL MOTOR INSUFICIENTE / CLEARANCE BETWEEN CYLINDER HEAD AND PISTON CROWN.

H3 CHOQUE TÉRMICO / THERMAL LOAD.

H3.1. CHOQUE TÉRMICO POR JUNTA DE CABEZA ROTA / DEFECTIVE CYLINDER GASKET.

I1. CLARO INSUFICIENTE ENTRE LOS COMPONENTES / LACK OF CLEARANCE.

I1.1. CLARO INSUFICIENTE ENTRE PISTÓN-PERNO / LACK OF CLEARANCE BETWEEN THE PISTON AND PISTON PIN.

I1.2. CLARO INSUFICIENTE ENTRE BIELA-PERNO / LACK OF CLEARANCE BETWEEN PISTON PIN AND CONNECTING ROD.

I2. INSUFICIENTE LUBRICACIÓN / LACK OF LUBRICATION.

I1.3. = C1.3. / POOR LUBRICATION BEFORE COMPONENTS ASSEMBLY.

RECOMENDACIONES / RECOMMENDATIONS

F1.1 VERIFICAR LA MEZCLA AIRE-COMBUSTIBLE / CHECK THE CORRECT BALANCE ON THE MIXTURE.

F1.2 Y F1.3 VERIFICAR QUE EL TIEMPO DE ENCENDIDO ES CORRECTO Y EL SISTEMA DE INYECCIÓN FUNCIONA BIEN / F1.2 CHECK THE IGNITION ADVANCE TIMING AND THE FUEL INJECTION SYSTEM.

F1.3 USE A RECOMENDABLE OCTANE FUEL.

F1.4 UTILIZAR COMBUSTIBLE ESPECIFICADO / ALLOW THE ENGINE TO "LOOSEN UP" DURING THE FIRST 100 KILOMETERS.

F1.5 Y F1.6 VERIFICAR LA MEZCLA AIRE-COMBUSTIBLE Y AFLOJAR EL MOTOR EN LOS PRIMEROS 100 KMS / FIT THE SPARK PLUGS WITH THE CORRECT HEAT RATING.

G1. VERIFICAR QUE LA PUESTA A TIEMPO ES CORRECTA / CHECK THE IGNITION ADVANCE AND TIMING.

G2. VERIFIQUE QUE LOS COMPONENTES DEL TREN VALVULAR SE ENCUENTRAN EN CONDICIONES DE OPERACIÓN / CHECK THE VALVE TRAIN COMPONENTS CONDITIONS DURING ASSEMBLY.

G3 Y G4. VERIFIQUE EL CLARO ENTRE LA CABEZA DEL CILINDRO Y LA PARTE SUPERIOR DEL PISTÓN EN EL ENSAMBLE SON CORRECTOS / CHECK THE TOP CLEARANCE BETWEEN THE CYLINDER HEAD AND THE PISTON CROWN.

G5. ASEGURE QUE EL APRIETE DE LOS TORNILLOS ES EL ESPECIFICADO / ENSURE THE BOLTS ON THE CONNECTING RODS ARE TIGHT CORRECTLY.

H1.1 UTILICE SIEMPRE PARTES ESPECIFICADAS PARA EL MOTOR / H1.1 DO NOT MODIFY OR ALTER THE ENGINE SPECIFICATIONS.

H2.1 VERIFIQUE EL CLARO ENTRE LA CABEZA DEL CILINDRO Y LA PARTE SUPERIOR DEL PISTÓN EN EL ENSAMBLE SON CORRECTOS / CHECK THE TOP CLEARANCE BETWEEN THE CYLINDER HEAD AND PISTON CROWN.

H3.1 ASEGURESE DE QUE LA JUNTA DE CABEZA ESTA INTEGRAL Y LA SUPERFICIE DE LA CABEZA RECTIFICADA / CHECK THE CONDITIONS ON THE HEAD GASKET.

H4.1 DO NOT REDUCE THE CROSS SECTION ON THE WRIST PIN.

H5.1 CHECK THE IGNITION TIMING AND INJECTION TIMING CONDITIONS.

I1 ANTES DEL ENSAMBLE DE LOS COMPONENTES, VERIFIQUE QUE EL CLARO ES EL ESPECIFICADO Y QUE LAS PIEZAS SE DESLIZAN LIBREMENTE / BEFORE ASSEMBLY, CHECK THE CLEARANCE BETWEEN PISTON PIN AND CONNECTING ROD.

I2. LUBRICAR GENEROSAMENTE LOS COMPONENTES DEL ENSAMBLE PERNO-PISTÓN / ALWAYS LUBRICATE THE COMPONENTS BEFORE FITTING PARTS TOGETHER.

Intercambio con otras marcas

Interchange Table

DC	MORESA	VEHYCO	SILVOLITE	SPQ
BMW				
BM1800	ND	ND	ND	83-4573
BM2500	ND	ND	ND	83-4573
BM3000	ND	ND	ND	83-4573

CHRYSLER-DODGE-JEEP-PLYMOUTH				
CH61	973	P1000D	ND	83-8504
CH66	1008	P1100D	ND	83-8505N
CH66-1	ND	ND	ND	83-8505
CH66-2	1136	ND	ND	ND
CH110	1070	ND	ND	83-195
CH122	886	P122D	3228	83-21098
CH122-1	887	P122D1	3229	83-21097
CH144	1071	ND	ND	83-196
CH148	969	P2400D	3233HC	83-3233
CH148-1	968	P148D	3249HC	83-3249
CH148-2	1092	ND	3250HC	83-3250
CH151	954	P151D	3243HC	83-2229
CH151-1	6006	P151CH1	3238HC	83-3241
CH153	825	P153D1	3211	83-3211
CH153-1	835	P153D2	3223	83-3223
CH201	916	ND	3212C	83-3212
CH201-1	1072	P201D	3230C	83-3230
CH226	987	P225D2	3251HC	83-901
CH226-1	ND	ND	ND	ND
CH239	847	P239D	3236	83-847
CH239-1	815	ND	3246	ND
CH242	954	P242R1	2229C	83-2229
CH242-1	6006	P242R2	3241HC	83-3241
CH287	988	P287D	ND	83-902PR
CH287-1	ND	ND	3252HC	ND
CH318	847	ND	3234	83-847
CH318-1	815	P318DP	3247	ND
CH345	989	P345D	3248HC	83-3449HC
CH345-1	1080	ND	ND	83-3450HC
CH345-2	1127	ND	ND	83-3455HC
CH360	608	P360D	1279C	ND
CH360-1	609	P360D1	ND	ND
CH370	ND	ND		83-3462

FIAT				
FI1400	1153	ND		

FORD-LINCOLN-MERCURY				
F92	ND	ND	ND	ND
F98	971	P1600F	ND	83-804
F98-1	991	P1600F1	ND	83-804A
F98-2	1131	ND 83-810	ND	
F122-5	1025	P122F	ND	83-900PL
F138	ND	ND	ND	83-840
F140	ND	P140F1	ND	ND
F140-1	992	P140F4	3185H	83-3185HC
F140-2	810	P140FP	1163	83-1163
F140-3	624	P140F	1185	ND
F140-4	1027	P140F3	ND	83-900
F140-5	1056	P140F5	ND	ND
F140-6	ND	P140F2	3124H	ND
F153-1	1109	ND	ND	ND
F153	958	P153F	3168HC	83-3168
F177	1165	P177F	1199	83-1199
F183	846	P183F	1193HC	83-1193
F183-1	1026	ND	3182HC	83-3182HC
F213	1119	ND	ND	83-3240
F232	620	P232F	1183	ND
F232-1	808	P232F1	3128H	ND
F244	939	ND	3156HC	83-3156
F245-1	6015	P245F1	3151HC	83-3151
F245-2	1074	P245F	3155HC	ND
F256	959	P256F	3152HC	83-3152H
F281	850	P281F	3135HC	83-01497
F281-1	ND	ND	3179HC	ND
F281-2	1045	ND	3175HC	ND
F281-3	1038	ND		ND
F300	823	P300F1	1170	ND
F300-1	ND	ND	1147	ND
F300-2	820	P300F	3136	83-820
F300-3	ND	ND	3171	ND
F302	842	P302F3	3133HC	ND
F302-1	686	P302F1	1157	83-686
F302-2	821	P302F	1177HC	ND
F302-3	ND	ND	3165	ND
F302-4	ND	ND	3173	ND
F302-5	616	P302F2	ND	ND
F330	910	P330F	3160HC	83-01499A
F330-1	1081	P330F3	3190HC	83-01559A
F330-2	1039	P330F1	3323HC	ND
F351	613	P351FW3	ND	ND
F351-1	843	P351FW2	3154	ND
F351-2	814	P351FW	ND	83-814
F351W	812	P351FW1	1158	ND
F379	1126	ND	ND	83-3520HC
F415	910-10	P415F	3161HC	ND
F415-1	1081	ND	ND	ND
F415-2	1132	ND	ND	ND

Intercambio con otras marcas

Interchange Table

DC	MORESA	VEHYCO	SILVOLITE	SPQ
GM-CHEVROLET-BUICK-CADILLAC-OLDSMOBILE				
GM61	1029	ND	ND	83-872
GM73	1145	ND	ND	83-873
GM85	870	P1400CH	ND	83-870
GM85-1	1030		ND	83-875
GM85-2	1151	ND		
GM98	871	P1600CH	ND	83-871
GM98-1	1049	P1600CH1	ND	83-779
GM110	943	P1800CH1	ND	83-905
GM110-1	1000	P1800CH	ND	83-903
GM110-2	1118	ND	ND	ND
GM110-3	1184	ND	ND	ND
GM134	908	P2200CH	3422	83-3422
GM134-1	978	P134CH	3478HC	83-3478HC
GM134-4	1014	P134CH1	3495HC	83-261
GM146	911	P146CH	3442HC	83-3442HC
GM146-1	1032	ND	ND	83-832
GM146-2	1067	ND	ND	83-835
GM151	ND	P151CH	1539	ND
GM151-1	ND	P151CH1	1533	83-1533
GM151-2	ND	P151CH2	1532	ND
GM169	1046	ND	3511	83-3511
GM173	622	P173CH	1478C	1463
GM181-1	ND	ND	3493HC	ND
GM211	1046-5	ND	3510HC	83-3510
GM250	683	P250CH	3454	ND
GM256	1046-6	ND	3496HC	83-3448
GM256-1	1058	ND	3524HC	83-3447
GM262	ND	ND	3487C	ND
GM262-1	ND	ND	3445C	ND
GM262-2	ND	ND	3491	ND
GM262-3	918	P262CH	3451HC	83-3451
GM292	675	P292CH	3468HC	ND
GM293	1016	ND	3482HC	ND
GM293-1	1089	ND	3520HC	83-228A
GM293-2	1176	ND	ND	ND
GM305	817	P305CH1	1449	ND
GM305-1	ND	ND	3441	ND
GM305-2	ND	ND	1482HC	ND
GM325	1015	P325CH	3472HC	83-3472HC
GM325-1	1091	ND	3519HC	ND
GM350	985	P350CH6	ND	ND
GM350-1	605	P350CH1	1470	83-605
GM350-2	826	P350CH4	1487	83-826
GM350-3	918-8	P350CH5	3470	83-3470
GM350-4	ND	ND	1489	ND
GM350-5	ND	ND	3471	ND

DC	MORESA	VEHYCO	SILVOLITE	SPQ
GM-CHEVROLET-BUICK-CADILLAC-OLDSMOBILE				
GM364	ND	ND	3473HC	83-3473
GM364-1	1042	ND	3516HC	83-3516
GM364-2	ND	ND	3517HC	ND
GM364-3	1041	ND	ND	83-3518
GM364-4	ND	ND	3518HC	ND
GM364-5	1178	ND	3527HC	83-165
GM376	ND	ND	3523HC	ND
GM376-1	1177	ND	ND	83-265
GM379D	ND	ND	1467D	83-1467D

HONDA-ACURA				
H1500	1162	ND	ND	83-881
H1500-1	1179	ND		83-880
H1800	1076	ND	ND	83-12111
H2000	ND	ND	ND	83-12112
H2400	1077	ND	ND	83-12106
H2400-1	ND	ND	ND	ND
H2400-2	ND	ND	ND	ND
H3500	1182	ND	ND	83-262
H3500-1				

KIA				
K1600	ND	ND	ND	83-710
MITSUBISHI				
M2400-4	1068	ND	ND	83-162
M3000	ND	P181D	3224HC	83-707
M3000-2	ND	P3000M1	3201HC	83-549
H3500	1182	ND	ND	83-262
H3500-1				

NISSAN-INFINITI				
N1600-1	809	P1600N2	9127	83-052
N1600-2	832	P1600N3	9126	83-680
N1600-3	964	P1600N6	ND	83-920
N1600-4	619	P1600N1	9128	ND
N1600-5	1121	ND	ND	ND
N1800	615	P1800N	9129	83-615
N1800-1	965	P1800N2	ND	83-100
N1800-2	1040	ND	ND	83-107
N1800-3	1152			
N2000	824	P2000N1		83-604
N2000-1	1085	ND	ND	83-107
N2400-1	822	P2400N1	9116	83-676
N2400-2	ND	ND	9115	83-609
N2400-3	ND	P2400N2	9114	83-238
N2400-5	953	P2400N3	ND	83-755
N2500	1001	P2500N1	ND	83-103
N2500-1	1048	P2500N2	ND	83-11116
N2500-2	1189			83-11117

Intercambio con otras marcas

Interchange Table

DC	MORESA	VEHYCO	SILVOLITE	SPQ
NISSAN-INFINITI				
N3000	ND	P2900		83-603
N3300	975	P3300N		83-728

TOYOTA-LEXUS				
T1500	1078		ND	83-113
T1800	1097	P1800T	ND	83-SP576
T1800-1	1128	ND	ND	83-118
T2400	1164	P2400T-BC	9070	83-239
T2400-1	ND	P2400T	9059H	83-241
T2400-2	1079		ND	83-117
T2700	1035		ND	83-112
T3000	ND	P3000T1	9069	83-653
T3300	1082		ND	83-953
T3500	1099		ND	83-15107
T4000	1100		ND	83-15106
T5700	ND		ND	83-122

DC	MORESA	VEHYCO	SILVOLITE	SPQ
VOLKSWAGEN-SEAT-AUDI				
VW1400	1141	ND	ND	83-30625
VW1600	1033	P1600VC1	ND	83-30611
VW1600-1	603	ND	ND	ND
VW1600-2	604	ND	ND	ND
VW1600-3	834	ND	ND	ND
VW1600-4	ND	ND	ND	83-30607
VW1600-5	ND	ND	ND	ND
VW1600-6	1172	ND	ND	ND
VW1800	1012	P1800V3	ND	83-30601
VW1800-1	941	P1800V2	ND	83-30605
VW1800-2	805	P1800VAC	9078	83-30609
VW1800-3	806	P1800VAC1	ND	ND
VW1800-4	1050	P1800V4	ND	83-30606
VW2000	894	ND	ND	83-30600
VW2000-1	1011	P2000V1	ND	83-30608
VW2000-2	1047	P2000V2	ND	83-30610
VW2500	1034	ND	ND	ND



Conversiones de desplazamiento

Engine Displacement Equivalence

Todos los motores son especificados por su desplazamiento para establecer su tamaño. El desplazamiento puede ser en centímetros cúbicos (CC) ó pulgadas cúbicas (CID). La conversión de un sistema a otro está basado en las siguientes equivalencias:

$$1000 \text{ c.c.} = .061 \text{ c.i.d.}$$

(c.i.d. = cubic inch displacement)

$$1000 \text{ c.c.} = 1 \text{ Litro}$$

All engines are sized specify based on its volumetric displacement. Displacement in metric system are normally in cubic centimeters (CC) or liters and english system is in cubic inches or CID. To convert the engine displacement from one system into the other use the following rules:

$$1000 \text{ c.c.} = 61 \text{ c.i.d.}$$

$$1000 \text{ c.c.} = 1 \text{ Liter}$$

(CID = cubic inch displacement)

Example: 350 CID = 5738 CC = 5.7 liters

Litros	C.C.	C.I.D.
1.0	1000	61
1.1	1100	67
1.2	1200	73
1.3	1300	79
1.4	1400	85
1.5	1500	92
1.6	1600	98
1.7	1700	104
1.8	1800	110
1.9	1900	116
2.0	2000	122
2.1	2100	128
2.2	2200	134
2.3	2300	140
2.4	2400	146
2.5	2500	153
2.6	2600	159
2.7	2700	165
2.8	2800	171
2.9	2900	177
3.0	3000	183
3.1	3100	189
3.2	3200	195
3.3	3300	201
3.4	3400	207
3.5	3500	214
3.6	3600	220
3.7	3700	226

Litros	C.C.	C.I.D.
3.8	3800	232
3.9	3900	238
4.0	4000	244
4.1	4100	250
4.2	4200	256
4.3	4300	262
4.4	4400	268
4.5	4500	275
4.6	4600	281
4.7	4700	287
4.8	4800	293
4.9	4900	299
5.0	5000	305
5.1	5100	311
5.2	5200	317
5.3	5300	323
5.4	5400	329
5.5	5500	336
5.6	5600	342
5.7	5700	348
5.8	5800	354
5.9	5900	360
6.0	6000	366
6.1	6100	372
6.2	6200	378
6.3	6300	384
6.4	6400	390
6.5	6500	397

Litros	C.C.	C.I.D.
6.6	6600	403
6.7	6700	409
6.8	6800	415
6.9	6900	421
7.0	7000	427
7.1	7100	433
7.2	7200	439
7.3	7300	445
7.4	7400	451
7.5	7500	458
7.6	7600	464
7.7	7700	470
7.8	7800	476
7.9	7900	482
8.0	8000	488
8.1	8100	494
8.2	8200	519
8.3	8300	506
8.4	8400	512
8.5	8500	519
8.6	8600	525
8.7	8700	531
8.8	8800	537
8.9	8900	543
9.0	9000	549
9.1	9100	555
9.2	9200	561
9.3	9300	567

La información contenida en el presente catálogo **DC Pistons** se ha obtenido mediante el trabajo realizado por nuestro departamento de investigación con la finalidad de proporcionarle los datos más actuales posibles.

Sin embargo, no asumimos responsabilidad por errores u omisiones que pudiera tener el catálogo, ya que el contenido se presenta como una información complementaria.

Agradecemos su preferencia.

***Limitaciones de la garantía:**

En caso de determinar defectos en los productos DC , unicamente se hará el reembolso del precio de venta del producto.

The information in the **DC Pistons** catalog was set up by R&D department with the purpose to offer the most update and accuracy details.

However we do not assume any responsibility of the mistakes or missing details that may be found in this catalog, the contents are just a complementary information.

Thanks for your preference.

***Warranty limitations:**

Only the reimbursement of the sales price of the good will apply for any DC product in the case of defectives.





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