

PLATINUM SERIES PISTONS

MANLEY PERFORMANCE

PLATINUM SERIES PISTONS

Hank Manley began selling high performance aftermarket pistons which he had TRW manufacture for him over 40 years ago. Over the years, the Manley Small Block Chevy flat tops and forged hollow dome pistons were wildly successful; as were our 4 ¼" Big Block offerings. The same can be said about our Ford 351C "Glidden" pistons.

Manley brought piston manufacturing in-house over 15 years ago; and today we are producing the highest quality pistons for the best value in the entire marketplace. We may not be the largest piston manufacturer in the industry, but where we concentrate our efforts we deliver the absolute best part for the customer's money. These markets include Small Block Chevy flat tops and dome pistons, Big Block Chevy pistons ranging from dish to flat top to high compression dome models, a tremendous Chevy LS shelf stock offering, 5.7L/6.1L Hemi parts, the most extensive lineup of Ford Modular product and finally, our plethora of sport compact pistons.

- ✓ Domestic 2618 alloy forgings
- ✓ Unique (to Manley) fixturing allowing skirt turning / ring groove machining be performed in one single operation to ensure the ultimate ring groove to skirt squareness
- ✓ Better ring seal = More power
- ✓ Cam and barrel (skirt) profiles that make power but are friendly on the cylinder walls
- ✓ Skirt coatings on many applications
- ✓ Offset wrist pin designs on many applications where appropriate
- ✓ Total Seal piston rings used exclusively
- ✓ Wrist pin upgrades (9310 alloy) available

...NO LONGER THE BEST
KEPT SECRET AMONG
ELITE ENGINE BUILDERS



Skirt Turning



Milling Operation



Skirt Formscan



Sunnen Pin Honing

PLATINUM SERIES PISTONS

ULTRA LITE SMALL BLOCK CHEVROLET

"FORMULA-WON®" DESIGN FLAT TOP & 14.5cc DISH

4" BORE 23° HEAD .043" x .043" x 3 MM RINGS

- ✓ 2618 high strength material
- ✓ Super lightweight design for 525 HP and 8,000 RPM
- ✓ Lateral gas ports included
- ✓ Round wire locks included
- ✓ Pressure balance groove
- ✓ Perfect ring groove to skirt squareness
- ✓ 2.300" x .095" wall Premium Chrome Moly pin
- ✓ .130" wall pin upgrade also available P/N 42242



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
							Ductile Iron Top Rings	Gapless® Top Rings
FLAT TOP								
593030-8	4.030"	5.700"	3.480"-3.500"	1.550"	394	466	46213-8	46213GT-8
593035-8	4.035"	5.700"	3.480"-3.500"	1.550"	396	468	46215-8	46215GT-8
593040-8	4.040"	5.700"	3.480"-3.500"	1.550"	397	469	46214-8	46214GT-8
593130-8	4.030"	6.000"	3.480"-3.500"	1.250"	355	427	46213-8	46213GT-8
593135-8	4.035"	6.000"	3.480"-3.500"	1.250"	357	429	46215-8	46215GT-8
593140-8	4.040"	6.000"	3.480"-3.500"	1.250"	358	430	46214-8	46214GT-8
593230-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	338	410	46213-8	46213GT-8
593235-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	340	412	46215-8	46215GT-8
593240-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	341	413	46214-8	46214GT-8
-14.5cc DISH								
593430-8	4.030"	5.700"	3.480"-3.500"	1.550"	421	493	46213-8	46213GT-8
593435-8	4.035"	5.700"	3.480"-3.500"	1.550"	423	495	46215-8	46215GT-8
593440-8	4.040"	5.700"	3.480"-3.500"	1.550"	424	496	46214-8	46214GT-8
593530-8	4.030"	6.000"	3.480"-3.500"	1.250"	382	454	46213-8	46213GT-8
593535-8	4.035"	6.000"	3.480"-3.500"	1.250"	384	456	46215-8	46215GT-8
593540-8	4.040"	6.000"	3.480"-3.500"	1.250"	385	457	46214-8	46214GT-8
593630-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	365	437	46213-8	46213GT-8
593635-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	367	439	46215-8	46215GT-8
593640-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	368	440	46214-8	46214GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .160" 2nd: .165" Oil: .145"



COMMON FEATURES

Dome Volume:	-2.0cc Flat Top or -14.5cc Dish	Max. Valve Sizes:	2.125" Int., 1.650" Exh.
Crown Thickness:	.155"	Valve Angle:	22°
Compression Ratio:	Flat Top: 10.34:1 w/ 64cc & 3.48" Stroke Dish: 9.04:1 w/ 64cc & 3.48" Stroke	Pin Included:	Premium Chrome Moly P/N 42241 (.095" wall, 72 grams, 2.300" long, .927" dia.)
Top Ring:	.043", .155" down	Round Wire Locks:	P/N 42262 - .061" wide
Second Ring:	.043"	Recommended	
Oil Ring:	3 mm	Piston Clearance:	.005" measured 1.100" from bottom of the oil ring
Valve Notches:	Flat Top: .220" Int., .150" Exh. -14.5cc Dish: .300" Int., .215" Exh.		



SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET 2 BARREL CLASS

4" BORE FLAT TOP 23° HEAD

- ✓ 2618 high strength material
- ✓ Perfect ring groove to skirt squareness
- ✓ Round Wire Locks included
- ✓ Pressure balance groove
- ✓ Semi-banded skirt for improved skirt stability
- ✓ 2.300" x .095" wall Premium Chrome Moly pin
- ✓ .130" wall pin upgrade also available P/N 42242



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
							Ductile Iron Top Rings	Gapless® Top Rings
1/16" x 1/16" x 3/16" RINGS								
590030-8	4.030"	5.700"	3.480"-3.500"	1.550"	438	510	46353-8	46353GT-8
590035-8	4.035"	5.700"	3.480"-3.500"	1.550"	441	513	46355-8	46355GT-8
590040-8	4.040"	5.700"	3.480"-3.500"	1.550"	443	515	46354-8	46354GT-8
590130-8	4.030"	6.000"	3.480"-3.500"	1.250"	399	471	46353-8	46353GT-8
590135-8	4.035"	6.000"	3.480"-3.500"	1.250"	400	472	46355-8	46355GT-8
590140-8	4.040"	6.000"	3.480"-3.500"	1.250"	401	473	46354-8	46354GT-8
The following pistons will include groove lock spacer 46400								
590230-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	369	441	46353-8	46353GT-8
590235-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	370	442	46355-8	46355GT-8
590240-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	371	443	46354-8	46354GT-8
Gas Ported .043" x .043" x 3 mm RINGS								
591030-8	4.030"	5.700"	3.480"-3.500"	1.550"	438	510	46213-8	46213GT-8
591035-8	4.035"	5.700"	3.480"-3.500"	1.550"	440	512	46215-8	46215GT-8
591040-8	4.040"	5.700"	3.480"-3.500"	1.550"	442	514	46214-8	46214GT-8
591130-8	4.030"	6.000"	3.480"-3.500"	1.250"	400	472	46213-8	46213GT-8
591135-8	4.035"	6.000"	3.480"-3.500"	1.250"	401	473	46215-8	46215GT-8
591140-8	4.040"	6.000"	3.480"-3.500"	1.250"	402	474	46214-8	46214GT-8
591230-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	380	452	46213-8	46213GT-8
591235-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	382	454	46215-8	46215GT-8
591240-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	384	456	46214-8	46214GT-8
The following pistons will include groove lock spacer 46400								
591330-8	4.030"	6.200"	3.480"-3.500"	1.050"	367	439	46213-8	46213GT-8
591335-8	4.035"	6.200"	3.480"-3.500"	1.050"	368	440	46215-8	46215GT-8
591340-8	4.040"	6.200"	3.480"-3.500"	1.050"	369	441	46214-8	46214GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
1/16" x 3/16" Top: .183" 2nd: .183" Oil: .183" .043" x 3mm Top: .160" 2nd: .165" Oil: .145"



COMMON FEATURES

- Dome Volume: -2.5cc
- Crown Thickness: .155"
- Compression Ratio: 10.34:1 w/ 64cc & 3.48" Stroke
- Top Ring: 1/16" or .043" Gas Ported, .155" down
- Second Ring: 1/16" or .043"
- Oil Ring: 3/16" or 3 mm
- Valve Notches: .210" Int., .150" Exh.
- Maximum Fly Cut: .270" Int., .170" Exh.
- Max. Valve Sizes: 2.125" Int., 1.650" Exh.
- Valve Angle: 22°
- Pin Included: Premium Chrome Moly P/N 42241 (.095" wall, 72 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: .005" measured 1.100" from bottom of the oil ring



SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET

4 BARREL CLASS

4" BORE FLAT TOP 23° HEAD

- ✓ 2618 high strength material
- ✓ Lightweight design
- ✓ Slightly thicker deck (.185") for higher horsepower applications
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ Round Wire Locks included
- ✓ Full banded skirt design for increased skirt stability
- ✓ 2.300" x .130" wall length Premium Chrome Moly pin
- ✓ .150" wall pin upgrade also available P/N 42442



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
							Ductile Iron Top Rings	Gapless® Top Rings
1/16" x 1/16" x 3/16" RINGS								
590530-8	4.030"	5.700"	3.480"-3.500"	1.550"	458	553	46353-8	46353GT-8
590535-8	4.035"	5.700"	3.480"-3.500"	1.550"	459	554	46355-8	46355GT-8
590540-8	4.040"	5.700"	3.480"-3.500"	1.550"	460	555	46354-8	46354GT-8
590545-8	4.045"	5.700"	3.480"-3.500"	1.550"	465	560	46354-8	46354GT-8
590560-8	4.060"	5.700"	3.480"-3.500"	1.550"	470	565	46356-8	46356GT-8
590730-8	4.030"	5.700"	3.750"	1.425"	438	533	46353-8	46353GT-8
590630-8	4.030"	6.000"	3.480"-3.500"	1.250"	415	510	46353-8	46353GT-8
590635-8	4.035"	6.000"	3.480"-3.500"	1.250"	416	511	46355-8	46355GT-8
590640-8	4.040"	6.000"	3.480"-3.500"	1.250"	418	513	46354-8	46354GT-8
590660-8	4.060"	6.000"	3.480"-3.500"	1.250"	427	522	46356-8	46356GT-8
The following pistons will include groove lock spacer 46400								
590830-8	4.030"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	399	494	46353-8	46353GT-8
590835-8	4.035"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	400	495	46355-8	46355GT-8
590840-8	4.040"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	401	496	46354-8	46354GT-8
590860-8	4.060"	6.000"/6.125"	3.750"/3.480"-3.500"	1.125"	411	506	46356-8	46356GT-8
Gas Ported .043" x .043" x 3 mm RINGS								
591530-8	4.030"	5.700"	3.480"-3.500"	1.550"	457	552	46213-8	46213GT-8
591535-8	4.035"	5.700"	3.480"-3.500"	1.550"	459	554	46215-8	46215GT-8
591540-8	4.040"	5.700"	3.480"-3.500"	1.550"	460	555	46214-8	46214GT-8
591560-8	4.060"	5.700"	3.480"-3.500"	1.550"	470	565	46216-8	46216GT-8
591630-8	4.030"	6.000"	3.480"-3.500"	1.250"	415	510	46213-8	46213GT-8
591635-8	4.035"	6.000"	3.480"-3.500"	1.250"	416	511	46215-8	46215GT-8
591640-8	4.040"	6.000"	3.480"-3.500"	1.250"	418	513	46214-8	46214GT-8
591660-8	4.060"	6.000"	3.480"-3.500"	1.250"	426	521	46216-8	46216GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
1/16" x 3/16" Top: .183" 2nd: .183" Oil: .183" .043" x 3mm Top: .160" 2nd: .165" Oil: .145"



COMMON FEATURES

- Dome Volume: -4.0cc
- Crown Thickness: .185"
- Compression Ratio: 10.16:1 w/ 64cc & 3.48" Stroke
- Top Ring: 1/16" or .043" Gas Ported, .185" down
- Second Ring: 1/16" or .043"
- Oil Ring: 3/16" or 3 mm
- Valve Notches: .300" Int., .190" Exh.
- Maximum Fly Cut: .360" Int., .260" Exh.
- Max. Valve Sizes: 2.125" Int., 1.650" Exh.
- Valve Angle: 22°
- Pin Included: Premium Chrome Moly P/N 42242 (.130" wall, 95 grams, 2.300" long, .927" dia.)
- Round Wire Locks: P/N 42262 - .061" wide
- Recommended
- Piston Clearance: 005" measured 1.100" from bottom of the oil ring

SEE PAGE 121 FOR CUSTOM PISTONS



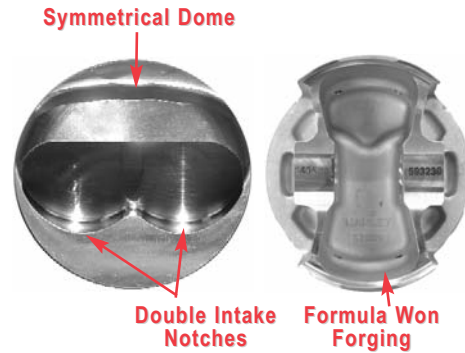
PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET 4" BORE DOME

FOR ALL 23° CYLINDER HEADS

- ✓ 2618 high strength material lightweight design
- ✓ Thick deck for high horsepower applications
- ✓ Double intake notches
- ✓ Symmetrical dome profile (no lefts/rights required)
- ✓ Manley "Formula Won" style forging
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ Round Wire Locks included
- ✓ 2.300" x .150" wall length Premium Chrome Moly pin included



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Dome Volume	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
1.5mm x 1.5mm x 3mm RINGS									
591730-8	4.030"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46123-8	46123ST-8
591735-8	4.035"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46125-8	46125ST-8
591740-8	4.040"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46124-8	46124ST-8
591760-8	4.060"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46126-8	46126ST-8
591830-8	4.030"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46123-8	46123ST-8
591835-8	4.035"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46125-8	46125ST-8
591840-8	4.040"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46124-8	46124ST-8
591860-8	4.060"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46126-8	46126ST-8
Gas Ported .043" x .043" x 3mm RINGS									
591930-8	4.030"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46223-8	46223ST-8
591935-8	4.035"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46225-8	46225ST-8
591940-8	4.040"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46224-8	46224ST-8
591960-8	4.060"	6.000"	3.480"-3.500"	1.250"	14.5cc	TBA	TBA	46226-8	46226ST-8
591430-8	4.030"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46223-8	46223ST-8
591435-8	4.035"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46225-8	46225ST-8
591440-8	4.040"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46224-8	46224ST-8
591460-8	4.060"	6.000"	3.750"	1.125"	10cc	TBA	TBA	46226-8	46226ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
1.5mm x 1.5mm x 3.0mm Top: .155" 2nd: .170" Oil: .145" .043"x .043" x 3mm Top: .160" 2nd: .165" Oil: .145"



COMMON FEATURES

- Compression Ratio:** 14.5:1 w/ 58cc, 13.2:1 w/ 64cc & 11.3:1 w/ 76cc
Top Ring: 1.5mm, .225 down or .043" Gas Ported .225" down
Second Ring: 1.5mm Napier profile or .043" taper face
Oil Ring: 3 mm
Valve Notches: 2 Intake notches, .275" deep
Maximum Fly Cut: .350" Int.
Max. Valve Sizes: 2.200" Int.
Valve Angle: 22°
Pin Included: Premium Chrome Moly P/N 42442 (.150" wall, 110 grams, 2.300" long, .927" dia.)
Round Wire Locks: P/N 42262 - .061" wide
Recommended Piston Clearance: .005" measured 1.100" from bottom of the oil ring



SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET LS SERIES

LS-1/LS-2/LS-6, LS-3/L-92, LS-7 FOR STOCK 3.622" STROKE

- ✓ 2618 high strength material lightweight design
- ✓ Offset wrist pin design
- ✓ Machined for reluctor wheel clearance
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Forced pin oiling, pressure balance groove and precision pin fitting
- ✓ Premium Chrome Moly wrist pins included with round wire locks
- ✓ .150" wall pin upgrade also available P/N 42442



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Pin Diameter	Piston Wt / Gms	Piston & Pin Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets	
										Ductile Iron Top Rings	Premium Steel Top Rings
-4cc FLAT TOP											
592007C-8	3.905"	6.098"	3.622"	1.340"	24mm/.945"	428	518	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592107C-8	3.905"	6.125"	3.622"	1.313"	.927"	425	520	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592110C-8	3.910"	6.125"	3.622"	1.313"	.927"	427	522	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592501C-8	4.001"	6.125"	3.622"	1.304"	.927"	438	533	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
592510C-8	4.010"	6.125"	3.622"	1.304"	.927"	442	537	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8
592530C-8	4.030"	6.125"	3.622"	1.304"	.927"	449	544	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
592565C-8	4.065"	6.125"	3.622"	1.304"	.927"	453	548	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
592570C-8	4.070"	6.125"	3.622"	1.304"	.927"	455	550	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8
-10cc DISH											
596107C-8	3.905"	6.125"	3.622"	1.304"	.927"	425	520	LS-1,2,3,6,92	.185"/.130"	46107-8	46107ST-8
596101C-8	4.001"	6.125"	3.622"	1.304"	.927"	439	534	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8
596110C-8	4.010"	6.125"	3.622"	1.304"	.927"	442	538	LS-1,2,3,6,92	.185"/.130"	46111-8	46111ST-8
596130C-8	4.030"	6.125"	3.622"	1.304"	.927"	449	545	LS-1,2,3,6,92	.185"/.130"	46113-8	46113ST-8
596165C-8	4.065"	6.125"	3.622"	1.304"	.927"	453	549	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8
596170C-8	4.070"	6.125"	3.622"	1.304"	.927"	455	551	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .151" 2nd: .168" Oil: .136"

NOTE: Gapless® Top Ring Sets are also available.
See pages 122 and 123.

COMMON FEATURES

- Crown Thickness:** .200"
Top Ring: 1.5 mm .225" down 3.905"-3.910" bore Flat Top
 1.5 mm .250" down for all others
Second Ring: 1.5 mm
Oil Ring: 3 mm
Pin Included: Premium Chrome Moly P/N 42218 for the 3.905" bore (.120" wall, 90 grams, 2.300" long, 24mm/.945" dia.)
 Premium Chrome Moly P/N 42242 for the 3.905" - 4.070" bore (.130" wall, 95 grams, 2.300" long, .927" dia.)

- Round Wire Locks:** P/N 42262 - .061" wide
Recommended
Piston Clearance: .0045" measured 1.100" from bottom of the oil ring

CHEVY LS 3.622" STROKE COMPRESSION RATIO CHART

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-4cc FLAT TOP					
3.905	3.622	10.2	10.0	9.5	9.3
3.910	3.622	10.3	10.1	9.7	9.5
4.001	3.622	10.6	10.4	9.8	9.6
4.010	3.622	10.7	10.5	9.9	9.7
4.030	3.622	10.8	10.6	10.1	9.9
4.065	3.622	11.0	10.7	10.2	10.0
4.070	3.622	11.1	10.8	10.3	10.1

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-10cc DISH					
3.905	3.622	9.6	9.4	9.1	8.9
4.001	3.622	10.0	9.8	9.4	9.2
4.010	3.622	10.1	9.9	9.5	9.3
4.030	3.622	10.2	9.9	9.5	9.3
4.065	3.622	10.3	10.1	9.7	9.5
4.070	3.622	10.3	10.1	9.7	9.5

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET LS SERIES

LS-1/LS-2/LS-6, LS-3/L-92, LS-7 FOR 4.000" STROKE

- ✓ 2618 high strength material lightweight design
- ✓ Offset wrist pin design
- ✓ Machined for reductor wheel clearance
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Forced pin oiling, pressure balance groove and precision pin fitting
- ✓ Premium Chrome Moly wrist pins included with round wire locks
- ✓ 2.300" x .170" wall 9310 alloy pin upgrade also available P/N 42542



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Pin Diameter	Piston Wt / Gms	Piston & Pin Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ring Sets — Ductile Iron Top Rings	Premium Steel Top Rings
-4cc FLAT TOP											
592207C-8	3.905"	6.125"	4.000"	1.115"	.927"	391	486	LS-1,2,6	.175"/.150"	46107-8	46107ST-8
592605C-8	4.005"	6.125"	4.000"	1.115"	.927"	407	502	LS-1,2,3,6,9,2	.185"/.130"	46110-8	46110ST-8
592610C-8	4.010"	6.125"	4.000"	1.115"	.927"	409	504	LS-1,2,3,6,9,2	.185"/.130"	46111-8	46111ST-8
592630C-8	4.030"	6.125"	4.000"	1.115"	.927"	418	513	LS-1,2,3,6,9,2	.185"/.130"	46113-8	46113ST-8
592665C-8	4.065"	6.125"	4.000"	1.115"	.927"	420	505	LS-1,2,3,6,9,2	.185"/.130"	46116-8	46116ST-8
592670C-8	4.070"	6.125"	4.000"	1.115"	.927"	423	518	LS-1,2,3,6,9,2	.185"/.130"	46117-8	46117ST-8
-5cc FLAT TOP											
592300C-8	4.125"	6.125"	4.000"	1.115"	.927"	432	550	LS-1,2,3,6,7,9,2	.225" Trough	46360-8	46360ST-8
592305C-8	4.130"	6.125"	4.000"	1.115"	.927"	434	552	LS-1,2,3,6,7,9,2	.225" Trough	46361-8	46361ST-8
-10cc DISH											
592701C-8	4.001"	6.125"	4.000"	1.115"	.927"	403	498	LS-1,2,3,6,9,2	.185"/.130"	46110-8	46110ST-8
592705C-8	4.005"	6.125"	4.000"	1.115"	.927"	406	501	LS-1,2,3,6,9,2	.185"/.130"	46110-8	46110ST-8
592730C-8	4.030"	6.125"	4.000"	1.115"	.927"	412	508	LS-1,2,3,6,9,2	.185"/.130"	46113-8	46113ST-8
592765C-8	4.065"	6.125"	4.000"	1.115"	.927"	418	513	LS-1,2,3,6,9,2	.185"/.130"	46116-8	46116ST-8
592770C-8	4.070"	6.125"	4.000"	1.115"	.927"	420	515	LS-1,2,3,6,9,2	.185"/.130"	46117-8	46117ST-8
-11cc DISH											
592400C-8	4.125"	6.125"	4.000"	1.115"	.927"	432	550	LS-1,2,3,6,7,9,2	.225" Trough	46360-8	46360ST-8
592405C-8	4.130"	6.125"	4.000"	1.115"	.927"	434	552	LS-1,2,3,6,7,9,2	.225" Trough	46361-8	46361ST-8
-18cc DISH											
596207C-8	3.905"	6.125"	4.000"	1.115"	.927"	379	489	LS-1,2,3,6,9,2	.175" Trough	46107-8	46107ST-8
596205C-8	4.005"	6.125"	4.000"	1.115"	.927"	399	509	LS-1,2,3,6,9,2	.175" Trough	46110-8	46110ST-8
596230C-8	4.030"	6.125"	4.000"	1.115"	.927"	408	518	LS-1,2,3,6,9,2	.175" Trough	46113-8	46113ST-8
596265C-8	4.065"	6.125"	4.000"	1.115"	.927"	414	524	LS-1,2,3,6,9,2	.175" Trough	46116-8	46116ST-8
596270C-8	4.070"	6.125"	4.000"	1.115"	.927"	415	525	LS-1,2,3,6,9,2	.175" Trough	46117-8	46117ST-8
596300C-8	4.125"	6.125"	4.000"	1.115"	.927"	437	555	LS-1,2,3,6,7,9,2	.175" Trough	46360-8	46360ST-8
596305C-8	4.130"	6.125"	4.000"	1.115"	.927"	439	557	LS-1,2,3,6,7,9,2	.175" Trough	46361-8	46361ST-8
-29cc DISH											
592807C-8	3.905"	6.125"	4.000"	1.115"	.927"	379	489	LS-1,2,3,6,9,2	.175" Trough	46107-8	46107ST-8
592805C-8	4.005"	6.125"	4.000"	1.115"	.927"	397	507	LS-1,2,3,6,9,2	.175" Trough	46110-8	46110ST-8
592830C-8	4.030"	6.125"	4.000"	1.115"	.927"	405	515	LS-1,2,3,6,9,2	.175" Trough	46113-8	46113ST-8
592865C-8	4.065"	6.125"	4.000"	1.115"	.927"	411	521	LS-1,2,3,6,9,2	.175" Trough	46116-8	46116ST-8
592870C-8	4.070"	6.125"	4.000"	1.115"	.927"	413	523	LS-1,2,3,6,9,2	.175" Trough	46117-8	46117ST-8
592900C-8	4.125"	6.125"	4.000"	1.115"	.927"	430	548	LS-1,2,3,6,7,9,2	.175" Trough	46360-8	46360ST-8
592905C-8	4.130"	6.125"	4.000"	1.115"	.927"	434	552	LS-1,2,3,6,7,9,2	.175" Trough	46361-8	46361ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .151" 2nd: .168" Oil: .136"

NOTE: Gapless® Top Ring Sets are also available.
See pages 122 and 123

COMMON FEATURES FOR ALL PISTONS ON PAGES 102-103

Crown Thickness:	.200"	Pin Included:	Premium Chrome Moly pin P/N 42242 included with the 3.905"-4.070" bore for the -4cc and -10cc 4.000" stroke (2.300" x .130" wall, .927" dia., 95 grams)
Top Ring:	1.5 mm .225" down, Flat Top & -10cc/-11cc Dishes .250" down, -18cc, -29cc & -31cc Dishes		Premium Chrome Moly pin P/N 42442 included with the 3.905"-4.070" bore for the -18cc, -29cc 4.000" stroke and the -10cc, -20cc, -31cc 4.100" stroke (2.300" x .150" wall, .927" dia., 110 grams)
Second Ring:	1.5 mm		Premium Chrome Moly P/N 42428 for the 4.125" - 4.130" bore (2.500" x .150" wall, .927" dia., 118 grams)
Oil Ring:	3 mm		
Round Wire Locks:	P/N 42262 - .061" wide		
Recommended			
Piston Clearance:	.0045" measured 1.100" from bottom of the oil ring		

Note: New part numbers are **ITALICIZED**.

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SMALL BLOCK CHEVROLET LS SERIES

LS-1/LS-2/LS-6, LS-3/L-92, LS-7 FOR 4.100" STROKE

- ✓ 2618 high strength material lightweight design
- ✓ Offset wrist pin design
- ✓ Machined for reductor wheel clearance
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Forced pin oiling, pressure balance groove and precision pin fitting
- ✓ Premium Chrome Moly wrist pins included with round wire locks
- ✓ 2.300" x .170" wall 9310 alloy pin upgrade also available P/N 42542



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Pin Diameter	Piston Wt / Gms	Piston & Pin Wt / Gms	Valve Pocket Type	Valve Pocket Depth Int. / Exh.	Piston Ductile Iron Top Rings	Ring Sets Premium Steel Top Rings	
						-10cc DISH						
596505C-8	4.005"	6.125"	4.100"	1.065"	.927"	395	505	LS-1,2,3,6,92	.185"/.130"	46110-8	46110ST-8	
596565C-8	4.065"	6.125"	4.100"	1.065"	.927"	411	521	LS-1,2,3,6,92	.185"/.130"	46116-8	46116ST-8	
596570C-8	4.070"	6.125"	4.100"	1.065"	.927"	413	523	LS-1,2,3,6,92	.185"/.130"	46117-8	46117ST-8	
						-11cc DISH						
596600C-8	4.125"	6.125"	4.100"	1.065"	.927"	422	540	LS-1,2,3,6,7,92	.225" Trough	46360-8	46360ST-8	
596605C-8	4.130"	6.125"	4.100"	1.065"	.927"	424	542	LS-1,2,3,6,7,92	.225" Trough	46361-8	46361ST-8	
						-20cc DISH						
596005C-8	4.005"	6.125"	4.100"	1.065"	.927"	400	510	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8	
596065C-8	4.065"	6.125"	4.100"	1.065"	.927"	416	526	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8	
596070C-8	4.070"	6.125"	4.100"	1.065"	.927"	418	528	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8	
596400C-8	4.125"	6.125"	4.100"	1.065"	.927"	435	553	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8	
596405C-8	4.130"	6.125"	4.100"	1.065"	.927"	437	555	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8	
						-31cc DISH						
596705C-8	4.005"	6.125"	4.100"	1.065"	.927"	398	508	LS-1,2,3,6,92	.175" Trough	46110-8	46110ST-8	
596765C-8	4.065"	6.125"	4.100"	1.065"	.927"	413	523	LS-1,2,3,6,92	.175" Trough	46116-8	46116ST-8	
596770C-8	4.070"	6.125"	4.100"	1.065"	.927"	416	526	LS-1,2,3,6,92	.175" Trough	46117-8	46117ST-8	
596800C-8	4.125"	6.125"	4.100"	1.065"	.927"	428	546	LS-1,2,3,6,7,92	.175" Trough	46360-8	46360ST-8	
596805C-8	4.130"	6.125"	4.100"	1.065"	.927"	430	548	LS-1,2,3,6,7,92	.175" Trough	46361-8	46361ST-8	

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .151" 2nd: .168" Oil: .136"

NOTE: Gapless® Top Ring Sets are also available.
See pages 122 and 123.

CHEVY LS 4.000" & 4.100" STROKE COMPRESSION RATIO CHART

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-4cc & -5cc FLAT TOP					
3.905	4.000	11.2	11.0	10.4	10.2
4.005	4.000	11.7	11.4	10.9	10.7
4.010	4.000	11.7	11.5	11.0	10.7
4.030	4.000	11.9	11.6	11.1	10.9
4.065	4.000	12.1	11.8	11.3	11.0
4.070	4.000	12.1	11.8	11.3	11.1
4.125	4.000	12.3	12.0	11.5	11.3
4.130	4.000	12.4	12.1	11.6	11.4
-10cc & -11cc DISH					
4.001	4.000	10.8	10.6	10.1	9.9
4.005	4.000	10.9	10.7	10.2	10.0
4.005	4.100	11.1	10.9	10.5	10.3
4.030	4.000	11.1	10.8	10.3	10.1
4.065	4.000	11.3	11.0	10.5	10.3
4.065	4.100	11.4	11.2	10.7	10.5
4.070	4.000	11.4	11.1	10.6	10.4
4.070	4.100	11.5	11.3	10.8	10.6
4.125	4.000	11.5	11.3	10.8	10.6
4.125	4.100	11.6	11.4	10.9	10.7
4.130	4.000	11.6	11.4	10.9	10.5
4.130	4.100	11.7	11.5	11.0	10.8
-20cc DISH					
4.005	4.100	10.1	9.9	9.6	9.4
4.065	4.100	10.4	10.2	9.8	9.6
4.070	4.100	10.4	10.2	9.8	9.7
4.125	4.100	10.6	10.4	10.1	9.9
4.130	4.100	10.7	10.5	10.1	9.9

Bore	Stroke	Cylinder Head (cc)			
		64	66	70	72
-18cc DISH					
3.905	4.000	9.7	9.5	9.2	9.0
4.005	4.000	10.1	9.9	9.5	9.4
4.030	4.000	10.2	10.0	9.6	9.5
4.065	4.000	10.4	10.2	9.8	9.6
4.070	4.000	10.4	10.2	9.8	9.6
4.125	4.000	10.6	10.4	10.0	9.8
4.130	4.000	10.6	10.4	10.0	9.9
-29cc DISH					
3.905	4.000	8.7	8.5	8.2	8.1
4.005	4.000	9.1	8.9	8.6	8.5
4.030	4.000	9.2	9.0	8.7	8.6
4.065	4.000	9.3	9.1	8.8	8.7
4.070	4.000	9.4	9.2	8.9	8.8
4.125	4.000	9.6	9.4	9.1	9.0
4.130	4.000	9.7	9.5	9.2	9.1
-31cc DISH					
4.005	4.100	9.1	9.0	8.7	8.5
4.065	4.100	9.3	9.2	8.9	8.7
4.070	4.100	9.4	9.3	9.0	8.8
4.125	4.100	9.6	9.4	9.1	9.0
4.130	4.100	9.7	9.5	9.2	9.1

Compression ratios are calculated at 0.00" deck clearance, a 9.240" deck height, and a .042" thick compressed head gasket.

Note: New part numbers are **ITALICIZED**.

PLATINUM SERIES PISTONS

BIG BLOCK CHEVROLET

4.500" BORE FLAT TOP & MINI DOME

- ✓ 2618 high strength material, lightweight design
- ✓ Perfect ring groove to skirt squareness and pressure balance groove
- ✓ Premium Chrome Moly pin and spiral locks included
- ✓ Pin fitting included
- ✓ Suitable for superchargers, turbos, nitrous



Flat Top



Mini Dome

Part No.	Bore Size	STD Deck Block Rod / Crank Length / Stroke	CID	Tall Deck Block Rod / Crank Length / Stroke	CID	Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Set
FLAT TOP									
696000-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	713	- 3cc	46450-8
696030-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	721	- 3cc	46453-8
696060-8	4.560"	6.135" / 4.000"	523	6.535" / 4.000"	523	1.645"	729	- 3cc	46456-8
696080-8	4.600"	6.135" / 4.000"	532	6.535" / 4.000"	532	1.645"	755	- 3cc	46458-8
696100-8	4.500"	6.385" / 4.000"	509	6.535" / 4.500"	573	1.395"	650	- 3cc	46450-8
696130-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	660	- 3cc	46453-8
696160-8	4.560"	6.385" / 4.000"	523	6.535" / 4.500"	588	1.395"	670	- 3cc	46456-8
696180-8	4.600"	6.385" / 4.000"	532	6.535" / 4.500"	598	1.395"	695	- 3cc	46458-8
696200-8	4.500"	6.135" / 4.250"	541	6.535" / 4.250"	541	1.520"	676	- 3cc	46450-8
696230-8	4.530"	6.135" / 4.250"	548	6.535" / 4.250"	548	1.520"	692	- 3cc	46453-8
696260-8	4.560"	6.135" / 4.250"	555	6.535" / 4.250"	555	1.520"	705	- 3cc	46456-8
696280-8	4.600"	6.135" / 4.250"	565	6.535" / 4.250"	565	1.520"	732	- 3cc	46458-8
696300-8	4.500"	6.385" / 4.250"	541	6.535" / 4.750"	604	1.270"	615	- 3cc	46450-8
696330-8	4.530"	6.385" / 4.250"	548	6.535" / 4.750"	613	1.270"	632	- 3cc	46453-8
696360-8	4.560"	6.385" / 4.250"	555	6.535" / 4.750"	621	1.270"	637	- 3cc	46456-8
696380-8	4.600"	6.385" / 4.250"	565	6.535" / 4.750"	632	1.270"	665	- 3cc	46458-8
MINI DOME									
696800-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	690	2cc	46450-8
696830-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	694	2cc	46453-8

NOTE: Gapless® Top Ring Sets are also available. See pages 122 and 123.

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .200" 2nd: .200" Oil: .170"



PISTONS, RINGS, & PINS

COMMON FEATURES

- Crown Thickness:** .250"
- Top Ring:** 1/16", .350" down Flat Top, .305" Mini Dome
- Second Ring:** 1/16"
- Oil Ring:** 3/16"
- Intake Valve Notch:** .300" Flat Top, .270" Mini Dome
- Exhaust Valve:** +.090"
- Pin Included:** **Flat Top:** Premium Chrome Moly P/N 42220 (.180" wall, 170 grams, 2.930" long, .990" dia.)
Mini Dome: Premium Chrome Moly P/N 42219 (.150" wall, 147 grams, 2.930" long, .990" dia.)
- Spiral Locks:** P/N 42271 - .042" wide (4 per piston)
- Recommended Piston Clearance:** .006" measured 1.100" from bottom of the oil ring

Pistons with 1.395" and 1.270" compression distances REQUIRE, and are shipped with, groove lock spacers.

SEE PAGE 121 FOR CUSTOM PISTONS

COMPRESSION RATIO CHART

Bore	Stroke	112cc	118cc	124cc
-3cc FLAT TOP				
4.500"	4.000"	9.0:1	8.7:1	8.4:1
4.530"	4.000"	9.1:1	8.8:1	8.5:1
4.560"	4.000"	9.3:1	8.9:1	8.6:1
4.600"	4.000"	9.4:1	9.0:1	8.7:1
4.500"	4.250"	9.6:1	9.2:1	8.8:1
4.530"	4.250"	9.7:1	9.3:1	8.9:1
4.560"	4.250"	9.8:1	9.4:1	9.0:1
4.600"	4.250"	9.9:1	9.5:1	9.1:1
4.500"	4.500"	10.1:1	9.7:1	9.3:1
4.530"	4.500"	10.2:1	9.8:1	9.4:1
4.560"	4.500"	10.3:1	9.9:1	9.5:1
4.600"	4.500"	10.5:1	10.0:1	9.7:1
4.500"	4.750"	10.6:1	10.1:1	9.8:1
4.530"	4.750"	10.7:1	10.3:1	9.9:1
4.560"	4.750"	10.8:1	10.4:1	10.0:1
4.600"	4.750"	11.0:1	10.5:1	10.1:1
2cc MINI DOME				
4.500"	4.000"	9.4:1	9.0:1	8.7:1
4.530"	4.000"	9.5:1	9.1:1	8.8:1

All compression ratios are calculated at .010" deck clearance.

PLATINUM SERIES PISTONS

BIG BLOCK CHEVROLET

4.500" INVERTED DOME

- ✓ 2618 high strength material
- ✓ Lightweight design
- ✓ Full banded skirt for increased skirt stability
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ Premium Chrome Moly pin included
- ✓ Spiral locks included
- ✓ Pin fitting included
- ✓ Suitable for superchargers, turbos, nitrous



Part No.	Bore Size	STD Deck Block Rod / Crank Length / Stroke	CID	Tall Deck Block Rod / Crank Length / Stroke	CID	Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Set
696400-8	4.500"	6.135" / 4.000"	509	6.535" / 4.000"	509	1.645"	706	- 10cc	46450-8
696430-8	4.530"	6.135" / 4.000"	516	6.535" / 4.000"	516	1.645"	724	- 10cc	46453-8
696460-8	4.560"	6.135" / 4.000"	523	6.535" / 4.000"	523	1.645"	736	- 10cc	46456-8
696480-8	4.600"	6.135" / 4.000"	532	6.535" / 4.000"	532	1.645"	757	- 10cc	46458-8
696500-8	4.500"	6.385" / 4.000"	509	6.535" / 4.500"	573	1.395"	647	- 10cc	46450-8
696530-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	660	- 10cc	46453-8
696560-8	4.560"	6.385" / 4.000"	523	6.535" / 4.500"	588	1.395"	671	- 10cc	46456-8
696580-8	4.600"	6.385" / 4.000"	532	6.535" / 4.500"	598	1.395"	695	- 10cc	46458-8
696600-8	4.500"	6.135" / 4.250"	541	6.535" / 4.250"	541	1.520"	680	- 20cc	46450-8
696630-8	4.530"	6.135" / 4.250"	548	6.535" / 4.250"	548	1.520"	700	- 20cc	46453-8
696660-8	4.560"	6.135" / 4.250"	555	6.535" / 4.250"	555	1.520"	710	- 20cc	46456-8
696680-8	4.600"	6.135" / 4.250"	565	6.535" / 4.250"	565	1.520"	724	- 20cc	46458-8
696700-8	4.500"	6.385" / 4.250"	541	6.535" / 4.750"	604	1.270"	621	- 20cc	46450-8
696730-8	4.530"	6.385" / 4.250"	548	6.535" / 4.750"	613	1.270"	634	- 20cc	46453-8
696760-8	4.560"	6.385" / 4.250"	555	6.535" / 4.750"	621	1.270"	645	- 20cc	46456-8
696780-8	4.600"	6.385" / 4.250"	565	6.535" / 4.750"	632	1.270"	668	- 20cc	46458-8

NOTE: Gapless® Top Ring Sets are also available. See pages 122 and 123.

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .200" 2nd: .200" Oil: .170"



PISTONS, RINGS, & PINS

COMMON FEATURES

- Crown Thickness: .250"
- Top Ring: 1/16", .350" down
- Second Ring: 1/16"
- Oil Ring: 3/16"
- Intake Valve Notch: .300"
- Exhaust Valve: +.090"
- Pin Included: Premium Chrome Moly P/N 42220
(.180" wall, 170 grams, 2.930" long, .990" dia.)
- Spiral Locks: P/N 42271 - .042" wide (4 per piston)
- Recommended Piston Clearance: .006" measured 1.100" from bottom of the oil ring

Pistons with 1.395" and 1.270" compression distances REQUIRE, and are shipped with, groove lock spacers.

SEE PAGE 121 FOR CUSTOM PISTONS

COMPRESSION RATIO CHART

Bore	Stroke	112cc	118cc	124cc
4.500"	4.000"	8.6:1	8.3:1	8.0:1
4.530"	4.000"	8.7:1	8.4:1	8.1:1
4.560"	4.000"	8.8:1	8.5:1	8.2:1
4.600"	4.000"	8.9:1	8.6:1	8.3:1
4.500"	4.250"	8.6:1	8.3:1	8.0:1
4.530"	4.250"	8.7:1	8.4:1	8.1:1
4.560"	4.250"	8.8:1	8.5:1	8.2:1
4.600"	4.250"	8.9:1	8.6:1	8.3:1
4.500"	4.500"	9.6:1	9.2:1	8.9:1
4.530"	4.500"	9.7:1	9.3:1	9.0:1
4.560"	4.500"	9.8:1	9.4:1	9.1:1
4.600"	4.500"	10.0:1	9.6:1	9.2:1
4.500"	4.750"	9.5:1	9.1:1	8.8:1
4.530"	4.750"	9.6:1	9.2:1	8.9:1
4.560"	4.750"	9.7:1	9.3:1	9.0:1
4.600"	4.750"	9.8:1	9.5:1	9.2:1

All compression ratios are calculated at .010" deck clearance.

PLATINUM SERIES PISTONS

BIG BLOCK CHEVROLET 4.500" BORE 42cc HOLLOW DOME

- ✓ 2618 high strength material
- ✓ Lightweight design
- ✓ Lateral gas ports included
- ✓ Perfect for drag race applications
- ✓ Exact ring groove to skirt squareness
- ✓ Full banded skirt design for increased skirt stability
- ✓ .043" x .043" x 3/16" ring package
- ✓ 2.930" x .150" wall Premium Chrome Moly pin
- ✓ .180" wall pin upgrade also available P/N 42220



Part No.	Bore Size	STD Deck Block		Tall Deck Block		Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Sets			
		Rod Length	Crank Stroke	CID	Rod Length				Crank Stroke	CID	Ductile Iron Top Rings	Premium Steel Top Rings
697500-8	4.500"	6.385"	4.000"	509	6.535"	4.500"	573	1.395"	676	42cc	46550-8	46550ST-8
697530-8	4.530"	6.385"	4.000"	516	6.535"	4.500"	580	1.395"	694	42cc	46553-8	46553ST-8
697560-8	4.560"	6.385"	4.000"	523	6.535"	4.500"	588	1.395"	705	42cc	46556-8	46556ST-8
697580-8	4.600"	6.385"	4.000"	532	6.535"	4.500"	598	1.395"	732	42cc	46558-8	46558ST-8
697600-8	4.500"	6.535"	4.000"	509	6.700"	4.500"	573	1.245"	651	42cc	46550-8	46550ST-8
697630-8	4.530"	6.535"	4.000"	516	6.700"	4.500"	580	1.245"	664	42cc	46553-8	46553ST-8
697660-8	4.560"	6.535"	4.000"	523	6.700"	4.500"	588	1.245"	667	42cc	46556-8	46556ST-8
697680-8	4.600"	6.535"	4.000"	532	6.700"	4.500"	598	1.245"	671	42cc	46558-8	46558ST-8
697700-8	4.500"	6.135"	4.250"	541	6.535"	4.250"	541	1.520"	713	42cc	46550-8	46550ST-8
697730-8	4.530"	6.135"	4.250"	548	6.535"	4.250"	548	1.520"	720	42cc	46553-8	46553ST-8
697760-8	4.560"	6.135"	4.250"	555	6.535"	4.250"	555	1.520"	726	42cc	46556-8	46556ST-8
697780-8	4.600"	6.135"	4.250"	565	6.535"	4.250"	565	1.520"	731	42cc	46558-8	46558ST-8
697800-8	4.500"	6.385"	4.250"	541	6.535"	4.750"	604	1.270"	662	42cc	46550-8	46550ST-8
697830-8	4.530"	6.385"	4.250"	548	6.535"	4.750"	613	1.270"	676	42cc	46553-8	46553ST-8
697860-8	4.560"	6.385"	4.250"	555	6.535"	4.750"	621	1.270"	680	42cc	46556-8	46556ST-8
697880-8	4.600"	6.385"	4.250"	565	6.535"	4.750"	632	1.270"	684	42cc	46558-8	46558ST-8
697900-8	4.500"	6.535"	4.250"	541	6.700"	4.750"	604	1.120"	615	42cc	46550-8	46550ST-8
697930-8	4.530"	6.535"	4.250"	548	6.700"	4.750"	613	1.120"	627	42cc	46553-8	46553ST-8
697960-8	4.560"	6.535"	4.250"	555	6.700"	4.750"	621	1.120"	634	42cc	46556-8	46556ST-8
697980-8	4.600"	6.535"	4.250"	565	6.700"	4.750"	632	1.120"	640	42cc	46558-8	46558ST-8

NOTE: Gapless® Top Ring Sets are also available. See pages 122 and 123.

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness

Top: .175" 2nd: .170" 4.500"/4.530" Oil: .200"
.210" 4.560"/4.600"



COMMON FEATURES

- Crown Thickness: .175"
- Top Ring: .043, .320" down except on 1.120" CD is .290" down
- Second Ring: .043
- Oil Ring: 3/16"
- Intake Valve Notch: .275"
- Exhaust Valve: +.090"
- Pin Included: Premium Chrome Moly P/N 42219
(.150" wall, 147 grams, 2.930" long, .990" dia.)
- Spiral Locks: P/N 42271 - .042" wide (4 per piston)
- Recommended Piston Clearance: .006" measured 1.100" from bottom of the oil ring

Pistons with 1.270" and shorter compression distances REQUIRE, and are shipped with, groove lock spacers.

SEE PAGE 121 FOR CUSTOM PISTONS

COMPRESSION RATIO CHART

Bore	Stroke	112cc	118cc	124cc
4.500"	4.000"	13.4:1	12.6:1	11.9:1
4.530"	4.000"	13.6:1	12.7:1	12.0:1
4.560"	4.000"	13.7:1	12.9:1	12.1:1
4.600"	4.000"	13.9:1	13.1:1	12.3:1
4.500"	4.250"	14.2:1	13.3:1	12.5:1
4.530"	4.250"	14.4:1	13.5:1	12.7:1
4.560"	4.250"	14.5:1	13.6:1	12.8:1
4.600"	4.250"	14.8:1	13.8:1	13.0:1
4.500"	4.500"	14.9:1	14.0:1	13.2:1
4.530"	4.500"	15.1:1	14.1:1	13.3:1
4.560"	4.500"	15.2:1	14.3:1	13.5:1
4.600"	4.500"	15.5:1	14.5:1	13.7:1
4.500"	4.750"	15.6:1	14.7:1	13.8:1
4.530"	4.750"	15.8:1	14.9:1	14.0:1
4.560"	4.750"	16.0:1	15.0:1	14.2:1
4.600"	4.750"	16.3:1	15.3:1	14.4:1

All compression ratios are calculated at .010" deck clearance.

PLATINUM SERIES PISTONS

BIG BLOCK CHEVROLET

4.500" BORE 48cc HOLLOW DOME

- ✓ 2618 high strength material
- ✓ Lightweight design
- ✓ Perfect for drag race applications
- ✓ Exact ring groove to skirt squareness
- ✓ Full banded skirt design for increased skirt stability
- ✓ 2.930" x .150" wall Premium Chrome Moly pin
- ✓ .180" wall pin upgrade also available P/N 42220



Part No.	Bore Size	STD Deck Block Rod / Crank Length / Stroke	CID	Tall Deck Block Rod / Crank Length / Stroke	CID	Compression Distance	Piston Wt / Gms	Dome Volume	Piston Ring Set
697000-8	4.500"	6.385" / 4.000"	509	6.535" / 4.500"	573	1.395"	677	48cc	46450-8
697030-8	4.530"	6.385" / 4.000"	516	6.535" / 4.500"	580	1.395"	690	48cc	46453-8
697060-8	4.560"	6.385" / 4.000"	523	6.535" / 4.500"	588	1.395"	704	48cc	46456-8
697080-8	4.600"	6.385" / 4.000"	532	6.535" / 4.500"	598	1.395"	710	48cc	46458-8
697100-8	4.500"	6.535" / 4.000"	509	6.700" / 4.500"	573	1.245"	651	48cc	46450-8
697130-8	4.530"	6.535" / 4.000"	516	6.700" / 4.500"	580	1.245"	664	48cc	46453-8
697160-8	4.560"	6.535" / 4.000"	523	6.700" / 4.500"	588	1.245"	667	48cc	46456-8
697180-8	4.600"	6.535" / 4.000"	532	6.700" / 4.500"	598	1.245"	671	48cc	46458-8
697200-8	4.500"	6.135" / 4.250"	541	6.535" / 4.250"	541	1.520"	708	48cc	46450-8
697230-8	4.530"	6.135" / 4.250"	548	6.535" / 4.250"	548	1.520"	720	48cc	46453-8
697260-8	4.560"	6.135" / 4.250"	555	6.535" / 4.250"	555	1.520"	726	48cc	46456-8
697280-8	4.600"	6.135" / 4.250"	565	6.535" / 4.250"	565	1.520"	731	48cc	46458-8
697300-8	4.500"	6.385" / 4.250"	541	6.535" / 4.750"	604	1.270"	662	48cc	46450-8
697330-8	4.530"	6.385" / 4.250"	548	6.535" / 4.750"	613	1.270"	676	48cc	46453-8
697360-8	4.560"	6.385" / 4.250"	555	6.535" / 4.750"	621	1.270"	680	48cc	46456-8
697380-8	4.600"	6.385" / 4.250"	565	6.535" / 4.750"	632	1.270"	684	48cc	46458-8
697400-8	4.500"	6.535" / 4.250"	541	6.700" / 4.750"	604	1.120"	615	48cc	46450-8
697430-8	4.530"	6.535" / 4.250"	548	6.700" / 4.750"	613	1.120"	627	48cc	46453-8
697460-8	4.560"	6.535" / 4.250"	555	6.700" / 4.750"	621	1.120"	634	48cc	46456-8
697480-8	4.600"	6.535" / 4.250"	565	6.700" / 4.750"	632	1.120"	640	48cc	46458-8

NOTE: Gapless® Top Ring Sets are also available. See pages 122 and 123.

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .200" 2nd: .200" Oil: .170"



PISTONS, RINGS, & PINS

COMMON FEATURES

- Crown Thickness:** .175"
- Top Ring:** 1/16", .320" down except on 1.120" CD is .270" down
- Second Ring:** 1/16"
- Oil Ring:** 3/16"
- Intake Valve Notch:** .275"
- Exhaust Valve:** +.090"
- Pin Included:** Premium Chrome Moly P/N 42219
(.150" wall, 147 grams, 2.930" long, .990" dia.)
- Spiral Locks:** P/N 42271 - .042" wide (4 per piston)
- Recommended**
- Piston Clearance:** .006" measured 1.100" from bottom of the oil ring

Pistons with 1.395" and shorter compression distances REQUIRE, and are shipped with, groove lock spacers.

SEE PAGE 121 FOR CUSTOM PISTONS

COMPRESSION RATIO CHART

Bore	Stroke	112cc	118cc	124cc
4.500"	4.000"	14.4:1	13.4:1	12.6:1
4.530"	4.000"	14.6:1	13.6:1	12.8:1
4.560"	4.000"	14.7:1	13.7:1	12.9:1
4.600"	4.000"	15.0:1	14.0:1	13.1:1
4.500"	4.250"	15.2:1	14.2:1	13.3:1
4.530"	4.250"	15.4:1	14.4:1	13.5:1
4.560"	4.250"	15.6:1	14.6:1	13.6:1
4.600"	4.250"	15.8:1	14.8:1	13.8:1
4.500"	4.500"	15.9:1	14.9:1	14.0:1
4.530"	4.500"	16.1:1	15.1:1	14.1:1
4.560"	4.500"	16.3:1	15.2:1	14.3:1
4.600"	4.500"	16.6:1	15.5:1	14.5:1
4.500"	4.750"	16.8:1	15.6:1	14.7:1
4.530"	4.750"	17.0:1	15.8:1	14.9:1
4.560"	4.750"	17.2:1	16.0:1	15.0:1
4.600"	4.750"	17.4:1	16.3:1	15.3:1

All compression ratios are calculated at .010" deck clearance.

PLATINUM SERIES PISTONS

CHRYSLER 5.7L HEMI DOME, FLAT TOP & DISH

- ✓ Forged 2618 high strength material lightweight design
- ✓ Offset wrist pin design
- ✓ Round Wire locks
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Other features include forced pin oiling, pressure balance groove and precision pin fitting
- ✓ 2.300" x .130" wall Premium Chrome Moly pin included
- ✓ .150" wall Premium Chrome Moly P/N 42442 and .170" wall 9310 alloy P/N 42542 pin upgrades are also available.



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins.

Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Pin Diameter	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE 9.3cc DOME									
597400C-8	3.917" / 99.5mm	6.240"	3.579" / 90.9mm	1.220"	.927"	427	522	46120-8	46120ST-8
597405C-8	3.922" / 99.63mm	6.240"	3.579" / 90.9mm	1.220"	.927"	428	523	46121-8	46121ST-8
597420C-8	3.937" / 100mm	6.240"	3.579" / 90.9mm	1.220"	.927"	434	529	46122-8	46122ST-8
STOCK STROKE -1.5cc FLAT TOP									
597500C-8	3.917" / 99.5mm	6.240"	3.579" / 90.9mm	1.220"	.927"	400	495	46120-8	46120ST-8
597505C-8	3.922" / 99.63mm	6.240"	3.579" / 90.9mm	1.220"	.927"	402	497	46121-8	46121ST-8
597520C-8	3.937" / 100mm	6.240"	3.579" / 90.9mm	1.220"	.927"	408	503	46122-8	46122ST-8
STOCK STROKE -12cc DISH									
597100C-8	3.917" / 99.5mm	6.240"	3.579" / 90.9mm	1.220"	.927"	TBA	TBA	46120-8	46120ST-8
597105C-8	3.922" / 99.63mm	6.240"	3.579" / 90.9mm	1.220"	.927"	TBA	TBA	46121-8	46121ST-8
597120C-8	3.937" / 100mm	6.240"	3.579" / 90.9mm	1.220"	.927"	TBA	TBA	46122-8	46122ST-8
STROKER SERIES -1.5cc FLAT TOP									
597200C-8	3.917" / 99.5mm	6.125"	4.050"	1.085"	.927"	362	457	46120-8	46120ST-8
597205C-8	3.922" / 99.63mm	6.125"	4.050"	1.085"	.927"	364	459	46121-8	46121ST-8
597220C-8	3.937" / 100mm	6.125"	4.050"	1.085"	.927"	369	464	46122-8	46122ST-8
STROKER SERIES -14cc DISH									
597300C-8	3.917" / 99.5mm	6.125"	4.050"	1.085"	.927"	351	446	46120-8	46120ST-8
597305C-8	3.922" / 99.63mm	6.125"	4.050"	1.085"	.927"	354	449	46121-8	46121ST-8
597320C-8	3.937" / 100mm	6.125"	4.050"	1.085"	.927"	359	454	46122-8	46122ST-8
STROKER SERIES -23cc DISH									
598500C-8	3.917" / 99.5mm	6.125"	4.050"	1.085"	.927"	346	441	46120-8	46120ST-8
598505C-8	3.922" / 99.63mm	6.125"	4.050"	1.085"	.927"	348	443	46121-8	46121ST-8
598520C-8	3.937" / 100mm	6.125"	4.050"	1.085"	.927"	352	447	46122-8	46122ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .151" 2nd: .168" Oil: .136"

NOTE: Gapless® Top Ring Sets are also available.
See pages 122 and 123.

COMMON FEATURES

FOR ALL PISTONS ON PAGE 108 & 109

- Crown Thickness:** 9.3cc Dome .180" / 5cc Dome .200" / Flat Top .200" / Dish .200"
Top Ring: 1.5 mm, .250" down
Second Ring: 1.5 mm
Oil Ring: 3 mm
Valve Notches: .100" Int., .080" Exh.
Pin Included: Premium Chrome Moly P/N 42242 (.130" wall, 95 grams, 2.300" long, .927" dia.)
Round Wire Locks: P/N 42262 - .061" wide
Recommended Piston Clearance: .0045" measured 1.100" from bottom of the oil ring.

Note: New part numbers are **ITALICIZED**.

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

CHRYSLER 6.1L HEMI DOME, FLAT TOP & DISH

- ✓ Forged 2618 high strength material lightweight design
- ✓ Offset wrist pin design
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Other features include forced pin oiling, pressure balance groove and precision pin fitting
- ✓ 2.300" x .130" wall Premium Chrome Moly pin included
- ✓ .150" wall Premium Chrome Moly P/N 42442 and .170" wall 9310 alloy P/N 42542 pin upgrades are also available.



Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins.

Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Pin Diameter	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets	
								Ductile Iron Top Rings	Premium Steel Top Rings
STOCK STROKE 5cc DOME									
597660C-8	4.060"	6.240"	3.579" / 90.9mm	1.220"	.927"	453	548	46116-8	46116ST-8
597665C-8	4.065"	6.240"	3.579" / 90.9mm	1.220"	.927"	455	550	46116-8	46116ST-8
597680C-8	4.080"	6.240"	3.579" / 90.9mm	1.220"	.927"	461	556	46118-8	46118ST-8
STOCK STROKE -21cc DISH									
597760C-8	4.060"	6.240"	3.579" / 90.9mm	1.220"	.927"	419	514	46116-8	46116ST-8
597765C-8	4.065"	6.240"	3.579" / 90.9mm	1.220"	.927"	421	516	46116-8	46116ST-8
597780C-8	4.080"	6.240"	3.579" / 90.9mm	1.220"	.927"	425	520	46118-8	46118ST-8
STROKER SERIES -1.5cc FLAT TOP									
597860C-8	4.060"	6.125"	4.050"	1.085"	.927"	392	487	46116-8	46116ST-8
597865C-8	4.065"	6.125"	4.050"	1.085"	.927"	394	489	46116-8	46116ST-8
597880C-8	4.080"	6.125"	4.050"	1.085"	.927"	398	493	46118-8	46118ST-8
STROKER SERIES -11.5cc DISH									
598660C-8	4.060"	6.125"	4.050"	1.085"	.927"	386	481	46116-8	46116ST-8
598665C-8	4.065"	6.125"	4.050"	1.085"	.927"	388	483	46116-8	46116ST-8
598680C-8	4.080"	6.125"	4.050"	1.085"	.927"	393	488	46118-8	46118ST-8
STROKER SERIES -31cc DISH									
597960C-8	4.060"	6.125"	4.050"	1.085"	.927"	376	471	46116-8	46116ST-8
597965C-8	4.065"	6.125"	4.050"	1.085"	.927"	378	473	46116-8	46116ST-8
597980C-8	4.080"	6.125"	4.050"	1.085"	.927"	383	478	46118-8	46118ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .151" 2nd: .168" Oil: .136"

NOTE: Gapless® Top Ring Sets are also available.
See pages 122 and 123.

COMPRESSION RATIO CHART 5.7 HEMI

Bore	Stroke	5.7L			6.1L Head 74.5cc
		Thru 2008 85cc	2009-Up 65cc		
9.3cc DOME					
3.917" / 99.5mm	3.579"/90.9mm	9.63:1	12.42:1	10.90:1	
3.922" / 99.63mm	3.579"/90.9mm	9.65:1	12.45:1	10.92:1	
3.937" / 100mm	3.579"/90.9mm	9.72:1	12.53:1	11.00:1	
-1.5cc FLAT TOP					
3.917" / 99.5mm	3.579"/90.9mm	8.62:1	10.72:1	9.60:1	
3.922" / 99.63mm	3.579"/90.9mm	8.64:1	10.75:1	9.62:1	
3.937" / 100mm	3.579"/90.9mm	8.70:1	10.82:1	9.69:1	
3.917" / 99.5mm	4.050"	9.63:1	12.00:1	10.73:1	
3.922" / 99.63mm	4.050"	9.65:1	12.03:1	10.75:1	
3.937" / 100mm	4.050"	9.72:1	12.11:1	10.83:1	
-12cc DISH					
3.917" / 99.5mm	3.579"/90.9mm	7.85:1	9.49:1	8.62:1	
3.922" / 99.63mm	3.579"/90.9mm	7.87:1	9.52:1	8.64:1	
3.937" / 100mm	3.579"/90.9mm	7.92:1	9.58:1	8.70:1	

Compression ratios are calculated at .003" deck clearance, a 3.941" head gasket ID with a .028" compressed thickness.

SEE PAGE 121 FOR CUSTOM PISTONS

Note: New part numbers are **ITALICIZED**.

5.7L HEMI CHART CONTINUED

Bore	Stroke	5.7L			6.1L Head 74.5cc
		Thru 2008 85cc	2009-Up 65cc		
-14cc DISH					
3.917" / 99.5mm	4.050"	8.60:1	10.39:1	9.45:1	
3.922" / 99.63mm	4.050"	8.62:1	10.41:1	9.47:1	
3.937" / 100mm	4.050"	8.68:1	10.48:1	9.53:1	
-23cc DISH					
3.917" / 99.5mm	4.050"	8.00:1	9.49:1	8.71:1	
3.922" / 99.63mm	4.050"	8.02:1	9.51:1	8.73:1	
3.937" / 100mm	4.050"	8.07:1	9.58:1	8.79:1	

COMPRESSION RATIO CHART 6.1L HEMI

Bore	Stroke	5cc Dome	Flat Top	-11.5cc Dish	-21cc Dish	-31cc Dish
4.060"	3.579"	10.64:1	-----	-----	8.25:1	-----
4.065"	3.579"	10.66:1	-----	-----	8.26:1	-----
4.080"	3.579"	10.73:1	-----	-----	8.32:1	-----
4.060"	4.050"	-----	11.07:1	10.02:1	-----	8.49:1
4.065"	4.050"	-----	11.10:1	10.04:1	-----	8.50:1
4.080"	4.050"	-----	11.17:1	10.11:1	-----	8.56:1

Compression ratios are calculated at .003" deck clearance, a 4.100" head gasket ID with a .040" compressed thickness and a 74.5cc combustion chamber.

PLATINUM SERIES PISTONS

FORD 4.6L & 5.4L (3 VALVE) 6.5cc, 14cc & 18cc DISH PISTONS

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
-6.5cc DISH									
594300C-8	3.552"	5.933"	3.543"	1.220"	352	458	46600-8	46600ST-8	46600GT-8
594320C-8	3.572"	5.933"	3.543"	1.220"	362	468	46620-8	46620ST-8	46620GT-8
594330C-8	3.582"	5.933"	3.543"	1.220"	367	473	46630-8	46630ST-8	46630GT-8
-14cc DISH TURBO SERIES									
594500C-8	3.552"	5.933"	3.543"	1.220"	360	466	46600-8	46600ST-8	46600GT-8
594520C-8	3.572"	5.933"	3.543"	1.220"	370	476	46620-8	46620ST-8	46620GT-8
594530C-8	3.582"	5.933"	3.543"	1.220"	375	481	46630-8	46630ST-8	46630GT-8
594570C-8	3.700"	5.933"	3.543"	1.220"	413	519	46670-8	46670ST-8	46670GT-8
-14cc DISH STROKER TURBO SERIES									
595500C-8	3.552"	5.850"	3.750"	1.200"	375	481	46600-8	46600ST-8	46600GT-8
595520C-8	3.572"	5.850"	3.750"	1.200"	382	488	46620-8	46620ST-8	46620GT-8
595530C-8	3.582"	5.850"	3.750"	1.200"	385	491	46630-8	46630ST-8	46630GT-8
-18cc DISH STROKER TURBO SERIES									
595570C-8	3.700"	5.850"	3.750"	1.200"	421	527	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .162" 2nd: .152" Oil: .145"

PISTONS, RINGS, & PINS

FORD 4.6L & 5.4L SOHC & DOHC (2 & 4 VALVE) AND 5.4L (3 VALVE) FLAT TOP PISTONS

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
594000C-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	335	441	46600-8	46600ST-8	46600GT-8
594020C-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	345	451	46620-8	46620ST-8	46620GT-8
594030C-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	350	456	46630-8	46630ST-8	46630GT-8
594070C-8	3.700"	5.933" / 6.657"	3.543" / 4.165"	1.220"	388	494	46670-8	46670ST-8	46670GT-8
STROKER SERIES									
595000C-8	3.552"	5.850"	3.750"	1.200"	350	456	46600-8	46600ST-8	46600GT-8
595020C-8	3.572"	5.850"	3.750"	1.200"	357	463	46620-8	46620ST-8	46620GT-8
595030C-8	3.582"	5.850"	3.750"	1.200"	360	466	46630-8	46630ST-8	46630GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

COMMON FEATURES

Dome Volume: 0cc Flat Top, -6.5cc, -14cc, and -18cc Dish
Crown Thickness: .185"
Top Ring: 1.5 mm, .220" down
Second Ring: 1.5 mm
Oil Ring: 3 mm
Pin Included: Premium Chrome Moly P/N 42207
(.150" wall, 106 grams, 2.500" long, 22mm dia.)

Round Wire Locks: P/N 42270 - .061" wide
Recommended Piston Clearance: .003" measured .850" from bottom of the oil ring

SEE PAGE 113 FOR COMPRESSION RATIOS
SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

FORD 4.6L & 5.4L SOHC & DOHC (2 & 4 VALVE) AND 5.4L (3 VALVE)

11cc DISH PISTON

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets			
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings	
594100C-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	350	456	46600-8	46600ST-8	46600GT-8	
594120C-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	355	461	46620-8	46620ST-8	46620GT-8	
594130C-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	362	468	46630-8	46630ST-8	46630GT-8	
STROKER SERIES										
595100C-8	3.552"	5.850"	3.750"	1.200"	346	452	46600-8	46600ST-8	46600GT-8	
595120C-8	3.572"	5.850"	3.750"	1.200"	353	459	46620-8	46620ST-8	46620GT-8	
595130C-8	3.582"	5.850"	3.750"	1.200"	358	464	46630-8	46630ST-8	46630GT-8	

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

FORD 4.6L & 5.4L SOHC & DOHC (2 & 4 VALVE) AND 5.4L (3 VALVE)

18cc SPHERICAL DISH PISTON

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets			
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings	
594200C-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	384	490	46600-8	46600ST-8	46600GT-8	
594220C-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	390	496	46620-8	46620ST-8	46620GT-8	
594230C-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	393	499	46630-8	46630ST-8	46630GT-8	
594270C-8	3.700"	5.933" / 6.657"	3.543" / 4.165"	1.220"	431	537	46670-8	46670ST-8	46670GT-8	
STROKER SERIES										
595200C-8	3.552"	5.850"	3.750"	1.200"	372	478	46600-8	46600ST-8	46600GT-8	
595220C-8	3.572"	5.850"	3.750"	1.200"	380	486	46620-8	46620ST-8	46620GT-8	
595230C-8	3.582"	5.850"	3.750"	1.200"	383	489	46630-8	46630ST-8	46630GT-8	
595270C-8	3.700"	5.850"	3.750"	1.200"	421	527	46670-8	46670ST-8	46670GT-8	

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness:
Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

COMMON FEATURES

- Dome Volume:** -11cc and -18cc
- Crown Thickness:** .185"
- Top Ring:** 1.5 mm, .220" down
- Second Ring:** 1.5 mm
- Oil Ring:** 3 mm
- Pin Included:** Premium Chrome Moly P/N 42207 (.150" wall, 106 grams, 2.500" long, 22mm dia.)

- Round Wire Locks:** P/N 42270 - .061" wide
- Recommended Piston Clearance:** .003" measured .850" from bottom of the oil ring

SEE PAGE 113 FOR COMPRESSION RATIOS
SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

FORD 4.6L & 5.4L SOHC & DOHC (2 & 4 VALVE) AND 5.4L (3 VALVE)

23cc DISH PISTON

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
594400C-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	351	457	46600-8	46600ST-8	46600GT-8
594420C-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	359	465	46620-8	46620ST-8	46620GT-8
594430C-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	363	469	46630-8	46630ST-8	46630GT-8
594470C-8	3.700"	5.933" / 6.657"	3.543" / 4.165"	1.220"	401	507	46670-8	46670ST-8	46670GT-8
STROKER SERIES									
595400C-8	3.552"	5.850"	3.750"	1.200"	336	442	46600-8	46600ST-8	46600GT-8
595420C-8	3.572"	5.850"	3.750"	1.200"	342	448	46620-8	46620ST-8	46620GT-8
595430C-8	3.582"	5.850"	3.750"	1.200"	346	452	46630-8	46630ST-8	46630GT-8
595470C-8	3.700"	5.850"	3.750"	1.200"	384	490	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

PISTONS, RINGS, & PINS

FORD 4.6L STROKER SOHC & DOHC (2 & 4 VALVE)

28cc DISH PISTON

- ✓ 2618 high strength material lightweight design
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Sets		
							Ductile Iron Top Rings	Premium Steel Top Rings	Gapless® Top Rings
595600C-8	3.552"	5.850"	3.750"	1.200"	341	447	46600-8	46600ST-8	46600GT-8
595620C-8	3.572"	5.850"	3.750"	1.200"	347	453	46620-8	46620ST-8	46620GT-8
595630C-8	3.582"	5.850"	3.750"	1.200"	351	457	46630-8	46630ST-8	46630GT-8
595670C-8	3.700"	5.850"	3.750"	1.200"	389	495	46670-8	46670ST-8	46670GT-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

COMMON FEATURES

- Dome Volume:** -23cc and -28cc
- Crown Thickness:** .185"
- Top Ring:** 1.5 mm, .220" down
- Second Ring:** 1.5 mm
- Oil Ring:** 3 mm
- Pin Included:** Premium Chrome Moly P/N 42207 (.150" wall, 106 grams, 2.500" long, 22mm dia.)
- Round Wire Locks:** P/N 42270 - .061" wide
- Recommended Piston Clearance:** .003" measured .850" from bottom of the oil ring

SEE PAGE 113 FOR COMPRESSION RATIOS
SEE PAGE 121 FOR CUSTOM PISTONS

STREET MASTER PISTONS

FORD 4.6L & 5.4L SOHC & DOHC (2 & 4 VALVE) AND 5.4L (3 VALVE)

"STREET MASTER" SERIES FORGED ALUMINUM 18cc SPHERICAL DISH PISTON

- ✓ Perfect blend of economy and high performance
- ✓ 1.2 mm offset wrist pin location for quiet start-ups. Mimics OEM design
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 2.500" length Premium Chrome Moly pin included with round wire locks
- ✓ Full banded skirt design for increased skirt stability



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	Piston Ring Set
494200-8	3.552"	5.933" / 6.657"	3.543" / 4.165"	1.220"	369	475	46600-8
494220-8	3.572"	5.933" / 6.657"	3.543" / 4.165"	1.220"	376	482	46620-8
494230-8	3.582"	5.933" / 6.657"	3.543" / 4.165"	1.220"	379	485	46630-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness:

Top: .162" 2nd: .152" Oil: .145"

The pistons above will also work for the 6.8L V10 modular.

COMMON FEATURES

Dome Volume: -18cc
Crown Thickness: .200"
Compression Ratio: 8.53:1 w/ 51cc & 3.543" Stroke
Top Ring: 1.5 mm, .220" down
Second Ring: 1.5 mm
Oil Ring: 3 mm

Pin Included: Premium Chrome Moly P/N 42207
(.150" wall, 106 grams, 2.500" long)
Round Wire Locks: P/N 42270 - .061" wide
Recommended: .0035" measured .850" from bottom of
Piston Clearance: the oil ring

FORD MODULAR COMPRESSION RATIOS

Bore	Stroke	42cc	51cc	52cc
Flat Top 4.6/5.4L				
3.552	3.543	12.65	10.86	10.69
3.572	3.543	12.78	10.97	10.80
3.582	3.543	12.85	11.02	10.85
3.700	3.543	13.55	11.63	11.45
3.552	3.750	13.33	11.43	11.26
3.572	3.750	13.47	11.55	11.37
3.582	3.750	13.54	11.61	11.43
3.552	4.165	11.01	9.83	9.72
3.572	4.165	11.09	9.91	9.79
3.582	4.165	11.13	9.95	9.83
3.700	4.165	11.56	10.35	10.23
11cc 4.6/5.4L Std Dish				
3.552	3.543	10.53	9.29	9.18
3.572	3.543	10.64	9.39	9.27
3.582	3.543	10.69	9.43	9.31
3.552	3.750	11.09	9.78	9.65
3.572	3.750	11.20	9.88	9.75
3.582	3.750	11.25	9.92	9.80
3.552	4.165	9.61	8.72	8.64
3.572	4.165	9.68	8.79	8.70
3.582	4.165	9.72	8.83	8.74
18cc 4.6/5.4L Spherical Dish				
3.552	3.543	9.54	8.53	8.44
3.572	3.543	9.63	8.62	8.52
3.582	3.543	9.68	8.66	8.56
3.700	3.543	10.21	9.13	9.03
3.552	3.750	10.04	8.97	8.87
3.572	3.750	10.14	9.06	8.96
3.582	3.750	10.19	9.11	9.00
3.700	3.750	10.75	9.61	9.50
3.552	4.165	8.91	8.15	8.08
3.572	4.165	8.97	8.22	8.14
3.582	4.165	9.01	8.25	8.17
3.700	4.165	9.39	8.61	8.53

Bore	Stroke	42cc	51cc	52cc
23cc 4.6/5.4L Std Dish				
3.552	3.543	8.95	8.07	7.98
3.572	3.543	9.04	8.15	8.06
3.582	3.543	9.08	8.19	8.10
3.700	3.543	9.58	8.64	8.54
3.552	3.750	9.41	8.48	8.39
3.572	3.750	9.51	8.57	8.47
3.582	3.750	9.55	8.61	8.52
3.700	3.750	10.08	9.08	8.98
3.552	4.165	8.47	7.79	7.73
3.572	4.165	8.53	7.85	7.79
3.582	4.165	8.57	7.89	7.82
3.700	4.165	8.93	8.23	8.16
28cc 4.6L Std Dish				
3.552	3.750	8.87	8.05	7.97
3.572	3.750	8.96	8.13	8.05
3.582	3.750	9.00	8.17	8.09
3.700	3.750	9.50	8.62	8.53
6.5cc 4.6L 3V Std Dish				
3.552	3.543		9.86	
3.572	3.543		9.95	
3.582	3.543		10.00	
14cc 4.6L 3V Std Dish				
3.552	3.543		8.94	
3.572	3.543		9.03	
3.582	3.543		9.07	
3.700	3.543		9.58	
3.552	3.750		9.41	
3.572	3.750		9.51	
3.582	3.750		9.55	
18cc 4.6L 3V Spherical Dish				
3.700	3.750		9.64	

Head Gasket Bore 3.620 (3.552-3.582)
Head Gasket Bore 3.700 (3.700)
Compressed Gasket Thickness .036

4.6L Deck Clearance .008
5.4L Deck Clearance .120

4.6L Stock Stroke 3.543 using 5.933 Connecting Rod and 1.220 C/H
4.6L Stroker 3.750 using 5.850 Connecting Rod and 1.200 C/H
5.4L Stock Stroke 4.165 using 6.657 Connecting Rod and 1.220 C/H.

42cc Combustion Chamber is 99-up PI 2V
51cc Combustion Chamber is 92-98 2V & 04-up 3V
52cc Combustion Chamber is 93-up 4V

PLATINUM SERIES PISTONS

FORD "COYOTE" 5.0L DOHC (4 VALVE)

-1.2cc DISH, -2.5cc FLAT & +6.75cc DOME PISTONS

- ✓ 2618 high strength material; Lightweight design
- ✓ Offset wrist pin design for quiet start-ups
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 1.2, 1.2, 3mm ring package
- ✓ Will accommodate +1mm valve sizes
- ✓ 2.500" length .150" Wall Premium Chrome Moly pin P/N 42207 included with round wire locks
- ✓ **9310 alloy .180" wall pin upgrades available P/N 42507**

NOTE: These pistons are designed for connecting rods with .866" / 22mm diameter floating wrist pins.



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	— Piston Ring Sets — Premium Steel Top Rings	
-12cc DISH (9.0:1)								
598100C-8	3.630"	5.933"	3.650"	1.165"	361	467	46700ST-8	
598105C-8	3.635"	5.933"	3.650"	1.165"	365	471	46700ST-8	
598110C-8	3.640"	5.933"	3.650"	1.165"	366	472	46710ST-8	
-2.5cc FLAT TOP (10.0:1)								
598400C-8	3.630"	5.933"	3.650"	1.165"	365	471	46700ST-8	
598405C-8	3.635"	5.933"	3.650"	1.165"	368	474	46700ST-8	
598410C-8	3.640"	5.933"	3.650"	1.165"	370	476	46710ST-8	
+6.75cc DOME (11.5:1)								
598000C-8	3.630"	5.933"	3.650"	1.165"	391	497	46700ST-8	
598005C-8	3.635"	5.933"	3.650"	1.165"	393	499	46700ST-8	
598010C-8	3.640"	5.933"	3.650"	1.165"	395	501	46710ST-8	

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .141" 2nd: .143" Oil: .145" Piston Clearance: .003" measured .850" from bottom of the oil ring



PISTONS, RINGS, & PINS

FORD "RAPTOR" 6.2L SOHC (2 VALVE)

-1.2cc DISH & +7.5cc DOME PISTONS

- ✓ 2618 high strength material; Lightweight design
- ✓ Offset wrist pin design for quiet start-ups
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ 1.5, 1.5, 3mm ring package
- ✓ Will accommodate +1mm valve sizes
- ✓ 2.300" length .150" Wall Premium Chrome Moly pin P/N 42442 included with round wire locks
- ✓ **9310 alloy .170" wall pin upgrades available P/N 42542**

Note: These pistons are designed for connecting rods with .927" diameter floating wrist pins.



Part No.	Bore Size	Rod Length	Stroke	Compression Distance	Piston Wt / Gms	Piston & Pin Wt / Gms	— Piston Ring Sets — Ductile Premium Steel Top Rings	
-12cc DISH (9.0:1)								
598300C-8	4.015"	6.200"	3.740"	1.315"	TBA	TBA	46111-8	46111ST-8
598305C-8	4.020"	6.200"	3.740"	1.315"	TBA	TBA	46112-8	46112ST-8
+7.5cc DOME (11.0:1)								
598200C-8	4.015"	6.200"	3.740"	1.315"	TBA	TBA	46111-8	46111ST-8
598205C-8	4.020"	6.200"	3.740"	1.315"	TBA	TBA	46112-8	46112ST-8

The root diameter of the ring grooves accommodates Manley rings and others which have the following radial thickness
Top: .155" 2nd: .170" Oil: .145" Piston Clearance: .0045" measured 1.100" from bottom of the oil ring



SEE PAGE 121 FOR CUSTOM PISTONS

Note: New part numbers are **ITALICIZED**.

PLATINUM SERIES PISTONS

ACURA / HONDA

- B18C
- K20A
- B16A
- B20B w/ B16A HEAD
- K24A w/ K20A HEAD



- ✓ 2618 high strength material; lightweight design
- ✓ .150" wall Premium Chrome Moly pin included with round wire locks
- ✓ 9310 alloy .210" wall pin upgrades available
(except 22mm x 2.500" applications where 9310 alloy .180" wall is available) see page 124
- ✓ Perfect ring groove to skirt squareness
- ✓ Pressure balance groove
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .004" measured 1.100" from the bottom of the oil ring

Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Compression Distance	Dome Volume(cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Acura Integra GSR 94-01 - B18C1 DOHC V-Tec (.827"/21mm x 2.250" Pin x .150" Wall)										
600000-4	81	STD	5.433"	87.2	1.181"	-9.3	9.0	Dish	290	46810-4
600005-4	81.5	+5mm	5.433"	87.2	1.181"	-9.3	9.0	Dish	294	46815-4
600100-4	81	STD	5.433"	87.2	1.181"	1.2	11.0	Dome	293	46810-4
600105-4	81.5	+5mm	5.433"	87.2	1.181"	1.2	11.0	Dome	297	46815-4
600200-4	81	STD	5.433"	87.2	1.195"	6.7	12.5	Dome	295	46810-4
600205-4	81.5	+5mm	5.433"	87.2	1.195"	6.7	12.5	Dome	299	46815-4
Acura Integra Type R 97-00 - B18C5 DOHC V-Tec (.827"/21mm x 2.250" Pin x .150" Wall)										
601005-4	81.5	+5mm	5.433"	87.2	1.195"	3.4	11.5	Dome	315	46815-4
601105-4	81.5	+5mm	5.433"	87.2	1.195"	-9.8	9.0	Dish	294	46815-4
Acura RSX 02-Up - K20A-A2-A3 DOHC V-Tec (.866"/22mm x 2.500" Pin x .150" Wall)										
610000-4	86	STD	5.472"	86.0	1.181"	-6.5	9.0	Dish	319	46860-4
610100-4	86	STD	5.472"	86.0	1.181"	8.4	11.5	Dome	324	46860-4
610200-4	86	STD	5.472"	86.0	1.181"	12.5	12.5	Dome	329	46860-4
Honda Del Sol 93-97/Civic Si 99-00 - B16A1-A2-A3 DOHC V-Tec (.827"/21mm x 2.250" Pin x .150" Wall)										
603000-4	81	STD	5.290"	77.4	1.181"	8.0	11.0	Dome	310	46810-4
603005-4	81.5	+5mm	5.290"	77.4	1.181"	8.0	11.0	Dome	316	46815-4
603100-4	81	STD	5.290"	77.4	1.181"	-2.2	9.8	Flat Top	291	46810-4
603105-4	81.5	+5mm	5.290"	77.4	1.181"	-2.2	9.8	Flat Top	297	46815-4
Honda CRV 97-00 - B20B4 w/ B16A1-A2-A3 Head (.827"/21mm x 2.250" Pin x .150" Wall)										
602000-4	84	STD	5.394"	89.0	1.181"	-11.9	9.0	Dish	299	46840-4
602005-4	84.5	+5mm	5.394"	89.0	1.181"	-11.9	9.0	Dish	312	46845-4
602010-4	85	+1.0mm	5.394"	89.0	1.181"	-11.9	9.0	Dish	325	46850-4
602100-4	84	STD	5.394"	89.0	1.181"	4.8	12.5	Dome	318	46840-4
602105-4	84.5	+5mm	5.394"	89.0	1.181"	4.8	12.5	Dome	331	46845-4
602110-4	85	+1.0mm	5.394"	89.0	1.181"	4.8	12.5	Dome	344	46850-4
Honda CRV 02-Up - K24A w/ K20A-A2-A3 Head DOHC V-Tec (.866"/22mm x 2.500" Pin x .150" Wall)										
611000-4	87	STD	5.984"	99.0	1.181"	-17.9	9.0	Dish	334	46870-4
611100-4	87	STD	5.984"	99.0	1.181"	-1.0	11.5	Flat Top	339	46870-4
611200-4	87	STD	5.984"	99.0	1.181"	4.5	12.5	Dome	344	46870-4

PISTONS, RINGS, & PINS

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

MITSUBISHI

- 4G63/4G63T 1ST GEN (6 BOLT)
- 4G63/4G63T 2ND GEN (7 BOLT) / EVO VIII, IX



- ✓ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ✓ Premium .150" wall x 2.250" length Chrome Moly pin included .827"/21mm 6 bolt & .866"/22mm 7 bolt
- ✓ 9310 alloy .210" wall pin upgrades available, see page 124
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Mitsubishi Eclipse GS/GST/GSX-Eagle Talon TSi 90-93.5 (6 Bolt) - 4G63/4G63T											
88mm STD STROKE (2.0L) DSM DSM											
605000C-4	85	STD	150	88	1.375"	-12	47	8.5	Dish	340	46850-4
605005C-4	85.5	+.5mm	150	88	1.375"	-12	47	8.5	Dish	344	46855-4
605010C-4	86	+1.0mm	150	88	1.375"	-12	47	8.5	Dish	348	46860-4
605100C-4	85	STD	150	88	1.375"	-8	47	9.0	Dish	349	46850-4
605105C-4	85.5	+.5mm	150	88	1.375"	-8	47	9.0	Dish	356	46855-4
605110C-4	86	+1.0mm	150	88	1.375"	-8	47	9.0	Dish	365	46860-4
100mm STROKER (2.3L)											
607005C-4	85.5	+.5mm	150	100	1.130"	-22	47	8.5	Dish	300	46855-4
Mitsubishi Eclipse GST/GSX-Eagle Talon TSi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T											
88mm STD STROKE (2.0L) DSM / EVO DSM / EVO											
606000C-4	85	STD	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	337	46850-4
606005C-4	85.5	+.5mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	341	46855-4
606010C-4	86	+1.0mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	345	46860-4
606015C-4	86.5	+1.5mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	349	46865-4
606020C-4	87	+2.0mm	150	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	354	46870-4
606100C-4	85	STD	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	342	46850-4
606105C-4	85.5	+.5mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	350	46855-4
606110C-4	86	+1.0mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	358	46860-4
606115C-4	86.5	+1.5mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	350	46865-4
606120C-4	87	+2.0mm	150	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	359	46870-4
606200C-4	85	STD	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	339	46850-4
606205C-4	85.5	+.5mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	347	46855-4
606210C-4	86	+1.0mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	355	46860-4
606215C-4	86.5	+1.5mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	352	46865-4
606220C-4	87	+2.0mm	150	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	360	46870-4
617000C-4	85	STD	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	298	46850-4
617005C-4	85.5	+.5mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	305	46855-4
617010C-4	86	+1.0mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	313	46860-4
617015C-4	86.5	+1.5mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	312	46865-4
617020C-4	87	+2.0mm	156	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	320	46870-4

SEE PAGE 121 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

MITSUBISHI

· 4G63/4G63T 2ND GEN (7 BOLT) / EVO VIII, IX

- ✓ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ✓ Premium .150" wall x 2.250" length Chrome Moly pin included .866"/22mm 7 bolt & .180" wall 23mm EVO X
- ✓ 9310 alloy .210" wall pin upgrades available, see page 124
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Mitsubishi Eclipse GST/GSX-Eagle Talon TSi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T											
94mm STROKER (2.1L) DSM / EVO DSM / EVO											
618000C-4	85	STD	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	311	46850-4
618005C-4	85.5	+ .5mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	319	46855-4
618010C-4	86	+1.0mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46860-4
618015C-4	86.5	+1.5mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46865-4
618020C-4	87	+2.0mm	150	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	334	46870-4
618200C-4	85	STD	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	322	46850-4
618205C-4	85.5	+ .5mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	328	46855-4
618210C-4	86	+1.0mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	337	46860-4
618215C-4	86.5	+1.5mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	335	46865-4
618220C-4	87	+2.0mm	150	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	344	46870-4
619000C-4	85	STD	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	272	46850-4
619005C-4	85.5	+ .5mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	277	46855-4
619010C-4	86	+1.0mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	287	46860-4
619015C-4	86.5	+1.5mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	289	46865-4
619020C-4	87	+2.0mm	156	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	296	46870-4
619200C-4	85	STD	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	283	46850-4
619205C-4	85.5	+ .5mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	290	46855-4
619210C-4	86	+1.0mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	293	46860-4
619215C-4	86.5	+1.5mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	295	46865-4
619220C-4	87	+2.0mm	156	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	302	46870-4
Mitsubishi Eclipse GST/GSX-Eagle Talon Tsi 93.5-99 (7 Bolt) - 4G63/4G63T Evo VIII, IX 03-06 4G63T											
100mm STROKER (2.3L) DSM / EVO DSM / EVO											
608000C-4	85	STD	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	291	46850-4
608005C-4	85.5	+ .5mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	295	46855-4
608010C-4	86	+1.0mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	299	46860-4
608015C-4	86.5	+1.5mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	300	46865-4
608020C-4	87	+2.0mm	150	100	1.130"	-22	47 / 43	8.5 / 9.0	Dish	307	46870-4
617000C-4	85	STD	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	298	46850-4
617005C-4	85.5	+ .5mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	305	46855-4
617010C-4	86	+1.0mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	313	46860-4
617015C-4	86.5	+1.5mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	312	46865-4
617020C-4	87	+2.0mm	150	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	320	46870-4

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

MITSUBISHI

- 4G64 w/ 4G63 CYLINDER HEAD
- 4B11T (EVO X)



- ✓ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ✓ Premium .150" wall x 2.250" length Chrome Moly pin included .866"/22mm 7 bolt & .180" wall 23mm EVO X
- ✓ 9310 alloy .210" wall pin upgrades available, see page 124
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length mm	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Comp Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Mitsubishi 4G64 w/ 4G63 Head 95-99											
88mm DE-STROKED (2.1L) DSM / EVO DSM / EVO											
606015C-4	86.5	STD	156	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	349	46865-4
606020C-4	87	+5mm	156	88	1.375"	-12	47 / 43	8.5 / 9.0	Dish	354	46870-4
606115C-4	86.5	STD	156	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	350	46865-4
606120C-4	87	+5mm	156	88	1.375"	-8	47 / 43	9.0 / 9.5	Dish	359	46870-4
606215C-4	86.5	STD	156	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	352	46865-4
606220C-4	87	+5mm	156	88	1.375"	-2.5	47 / 43	10.0 / 10.5	Flat Top	360	46870-4
617015C-4	86.5	STD	162	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	312	46865-4
617020C-4	87	+5mm	162	88	1.130"	-12	47 / 43	8.5 / 9.0	Dish	320	46870-4
94mm DE-STROKED (2.2L)											
618015C-4	86.5	STD	156	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	327	46865-4
618020C-4	87	+5mm	156	94	1.248"	-17	47 / 43	8.5 / 9.0	Dish	334	46870-4
618215C-4	86.5	STD	156	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	335	46865-4
618220C-4	87	+5mm	156	94	1.248"	-8	47 / 43	10.0 / 10.5	Dish	344	46870-4
619015C-4	86.5	STD	162	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	289	46865-4
619020C-4	87	+5mm	162	94	1.012"	-17	47 / 43	8.5 / 9.0	Dish	296	46870-4
619215C-4	86.5	STD	162	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	295	46865-4
619220C-4	87	+5mm	162	94	1.012"	-8	47 / 43	10.0 / 10.5	Dish	302	46870-4
100mm STD STROKE (2.4L)											
613000C-4	86.5	STD	150	100	1.375"	-23.5	47 / 43	8.5 / 9.0	Dish	338	46865-4
613005C-4	87	+5mm	150	100	1.375"	-23.5	47 / 43	8.5 / 9.0	Dish	346	46870-4
606015C-4	86.5	STD	150	100	1.375"	-12	47 / 43	10.0 / 10.5	Dish	349	46865-4
606020C-4	87	+5mm	150	100	1.375"	-12	47 / 43	10.0 / 10.5	Dish	354	46870-4
608015C-4	86.5	STD	156	100	1.130"	-22	47 / 43	8.6 / 9.1	Dish	300	46865-4
608020C-4	87	+5mm	156	100	1.130"	-22	47 / 43	8.6 / 9.1	Dish	307	46870-4
617015C-4	86.5	STD	156	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	312	46865-4
617020C-4	87	+5mm	156	100	1.130"	-12	47 / 43	10.0 / 10.5	Dish	320	46870-4
Mitsubishi EVO X 08-Up - 4B11T											
86mm STD STROKE (2.0L)											
614000C-4	86	STD	143.66	86	1.313"	-5	49	9.0	Dish	337	46860-4
614005C-4	86.5	+5mm	143.66	86	1.313"	-5	49	9.0	Dish	343	46865-4
94mm STROKER (2.2L)											
624000C-4	86	STD	143.66	94	1.155"	-11	49	9.0	Dish	308	46860-4
624005C-4	86.5	+5mm	143.66	94	1.155"	-11	49	9.0	Dish	315	46865-4

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

SUBARU EJ205 (WRX) / EJ257 (WRX STi)

- ✓ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ✓ 2.500" x .180" wall Premium Chrome Moly pin included P/N 42346
- ✓ 9310 alloy .210" wall pin upgrades available P/N 42546
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Subaru WRX 1998-up - EJ205											
75mm STD STROKE											
615000C-4	92.00	STD	5.137"	75	1.285"	-12	48	8.5	Dish	369	46920-4
615005C-4	92.50	+ .5mm	5.137"	75	1.285"	-12	48	8.5	Dish	375	46925-4
615010C-4	93.00	+ 1.0mm	5.137"	75	1.285"	-12	48	8.5	Dish	383	46930-4
79mm STROKER											
620000C-4	92.00	STD	5.137"	79	1.209"	-16	48	8.5	Dish	355	46920-4
620005C-4	92.50	+ .5mm	5.137"	79	1.209"	-16	48	8.5	Dish	361	46925-4
620010C-4	93.00	+ 1.0mm	5.137"	79	1.209"	-16	48	8.5	Dish	370	46930-4
Subaru WRX Sti 2004-up - EJ257											
75mm DE-STROKED											
621000C-4	99.50	STD	5.141"	75	1.285"	-18	51	8.5	Dish	429	46995-4
621002C-4	99.75	+ .25mm	5.141"	75	1.285"	-18	51	8.5	Dish	434	46997-4
621005C-4	100.00	+ .5mm	5.141"	75	1.285"	-18	51	8.5	Dish	438	461000-4
621100C-4	99.50	STD	5.141"	75	1.285"	-6	51	9.8	Dish	442	46995-4
621102C-4	99.75	+ .25mm	5.141"	75	1.285"	-6	51	9.8	Dish	445	46997-4
621105C-4	100.00	+ .5mm	5.141"	75	1.285"	-6	51	9.8	Dish	449	461000-4
79mm STD STROKE											
612000C-4	99.50	STD	5.141"	79	1.209"	-22	51	8.5	Dish	417	46995-4
612002C-4	99.75	+ .25mm	5.141"	79	1.209"	-22	51	8.5	Dish	422	46997-4
612005C-4	100.00	+ .5mm	5.141"	79	1.209"	-22	51	8.5	Dish	425	461000-4
612100C-4	99.50	STD	5.141"	79	1.209"	-10	51	9.8	Dish	419	46995-4
612102C-4	99.75	+ .25mm	5.141"	79	1.209"	-10	51	9.8	Dish	423	46997-4
612105C-4	100.00	+ .5mm	5.141"	79	1.209"	-10	51	9.8	Dish	426	461000-4
83mm STROKER											
622000C-4	99.50	STD	5.141"	83	1.130"	-26	51	8.5	Dish	382	46995-4
622002C-4	99.75	+ .25mm	5.141"	83	1.130"	-26	51	8.5	Dish	386	46997-4
622005C-4	100.00	+ .5mm	5.141"	83	1.130"	-26	51	8.5	Dish	390	461000-4
622100C-4	99.50	STD	5.141"	83	1.130"	-14	51	9.8	Dish	397	46995-4
622102C-4	99.75	+ .25mm	5.141"	83	1.130"	-14	51	9.8	Dish	401	46997-4
622105C-4	100.00	+ .5mm	5.141"	83	1.130"	-14	51	9.8	Dish	404	461000-4

SEE PAGE 121 FOR CUSTOM PISTONS

PISTONS, RINGS, & PINS

PLATINUM SERIES PISTONS

NISSAN GT-R 3.8 VR38DETT

- ✓ 2618 high strength material
- ✓ Offset wrist pin for quiet start-ups
- ✓ 2.500" x .180" wall Premium Chrome Moly pin included P/N 42346
- ✓ 9310 alloy .210" wall pin upgrades available P/N 42546
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring set with Napier second ring and 9-13 lb. tension oil ring included
- ✓ Round wire locks included



An Industry First! These pistons feature skirt diameters that correspond to the OEM Grade 1, 2 or 3 bores. Check the bore grades on the back of your block and order the appropriate quantities of Grade 1, 2 or 3 pistons. (Sold as -1 individual pieces, not sets.)

Part No.	95.5mm Bore Grade Range	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
88.4mm STD STROKE									
625GR1-1	Grade 1	6.500"	88.4	1.350"	-1.5	9.25	Flat Top	449	46956-1
625GR2-1	Grade 2	6.500"	88.4	1.350"	-1.5	9.25	Flat Top	449	46956-1
625GR3-1	Grade 3	6.500"	88.4	1.350"	-1.5	9.25	Flat Top	449	46956-1
94.4mm STROKER									
626GR1-1	Grade 1	6.500"	94.4	1.232"	-6.8	9.25	Dish	421	46956-1
626GR2-1	Grade 2	6.500"	94.4	1.232"	-6.8	9.25	Dish	421	46956-1
626GR3-1	Grade 3	6.500"	94.4	1.232"	-6.8	9.25	Dish	421	46956-1

COMMON FEATURES

- | | |
|------------------------------------|--|
| Crown Thickness: .260" | Pin Included: Premium Chrome Moly P/N 42346
(.180" wall, 132 grams, 2.500" long, 23mm dia.) |
| Top Ring: 1.2 mm, .260" down | Round Wire Locks: P/N 42212 |
| Second Ring: 1.2 mm Napier profile | Recommended |
| Oil Ring: 3.0 mm | Piston Clearance: Grade Range 1, 2 or 3 Drop-In |
| Intake Valve Notch: .065" / 1.65mm | |

PISTONS, RINGS, & PINS

HYUNDAI NISSAN TOYOTA

• THETA I4 (GENESIS) • VQ35DE • 2JZGTE

- ✓ 2618 high strength material; Lightweight design with offset wrist pin for quiet start-ups
- ✓ .150" wall Premium Chrome Moly pin included
- ✓ 9310 alloy 2.250" x .210" wall pin upgrades available P/N 42551
- ✓ 9310 alloy 2.500" x .180" wall pin upgrades available P/N 42507
- ✓ Pressure balance groove
- ✓ Will accommodate +1mm valve sizes
- ✓ Premium Steel top ring sets and Round Wire locks included
- ✓ Recommended piston clearance .0035" measured 1.100" from the bottom of the oil ring



Part No.	Bore Size mm	Over Size	Rod Length	Stroke mm	Comp Distance	Dome Volume (cc)	Cylinder Head (cc)	Compression Ratio	Piston Type	Piston Wt / Gms	Included Ring Set
Hyundai Genesis Coupe 2.0L Turbo Theta I4 (.866"/22mm x 2.250" Pin)											
61600C-4	86	STD	5.753"	86	1.181"	-2.5		9.3	Dish	325	46860-4
61605C-4	86.5	+5mm	5.753"	86	1.181"	-2.5		9.3	Dish	332	46865-4
Nissan 350Z, Maxima, Altima and Infiniti G35 2003-2007 (.866"/22mm x 2.500" Pin)											
62300C-6	95.50	STD	5.680"	81.4	1.167"	-12	57	8.5	Dish	TBA	46955-6
623002C-6	95.75	+25mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	TBA	46957-6
623005C-6	96.00	+5mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	TBA	46960-6
623010C-6	96.50	+1.0mm	5.680"	81.4	1.167"	-12	57	8.5	Dish	TBA	46965-6
623100C-6	95.50	STD	5.680"	81.4	1.167"	+7	57	11.0	Dome	TBA	46955-6
623102C-6	95.75	+25mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	TBA	46957-6
623105C-6	96.00	+5mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	TBA	46960-6
623110C-6	96.50	+1.0mm	5.680"	81.4	1.167"	+7	57	11.0	Dome	TBA	46965-6
Toyota Supra Turbo 93-98 - 2JZGTE 3.0L (.866"/22mm x 2.500" Pin)											
609005C-6	86.5	+5mm	5.590"	86	1.338"	-14	45	8.5	Dish	355	46865-6

SEE PAGE 121 FOR CUSTOM PISTONS

PLATINUM SERIES PISTONS

PLATINUM PISTONS INCREMENTAL SIZES

Manley Performance will manufacture incremental bore sizes of any listed catalog piston with reasonably short lead times. The minimum quantity is eight pieces.

The ordering process is as simple as 1 - 2 - 3 !

1. Select the catalog part number you wish manufactured with the singular exception of the final bore size.
2. Tell us the bore size of your block. We will manufacture the exact piston number you have selected with proper clearance for your stated block dimension.
3. You will be billed by our forging number, not the catalog part number.

CUSTOM PLATINUM PISTONS

Manley Performance inventories the piston forgings listed below to manufacture custom pistons for original equipment engine producers, private label engine part suppliers and volume performance engine builders. We can also produce a forging within ten weeks for any other application a customer may desire.

CUSTOM BLANK FORGING NUMBERS

Part No.	Bore Range	Description	Valve Angle	Wrist Pin Length
581200-4	80.5mm - 88.0mm	Sport Compact Dish, Flat Top, Dome	Factory	2.250" / 2.500"
581400-8	3.900" - 4.130"	Small Block Chevy LS-1, Hemi 5.7L/6.1L Flat Top & Dish	15° - 18°	2.300" / 2.500"
581000-8	4.000" - 4.155"	Small Block Chevy Flat Top	21° - 23°	2.300"
589000-8	4.000" - 4.060"	Small Block Chevy Formula Won	21° - 23°	2.300"
581500-8	4.000" - 4.155"	Small Block Chevy Dome	18° - 23°	2.300"
586000-8	4.470" - 4.625"	Big Block Chevy Flat Top & Inverted Dome	Factory	2.930"
581100-8	4.500" - 4.600"	Big Block Chevy Hollow Dome	Factory	2.930"
588000-8	3.550" - 3.700"	Ford 4.6L and 5.4L 2618 Material	Factory	2.500"
488000-8	3.550" - 3.700"	Ford 4.6L and 5.4L "Street Master" Material	Factory	2.500"

MINIMUM QUANTITIES

Minimum quantities depend on the variance from pistons we have previously produced, but in general, reasonably small numbers such as 80 pieces can be manufactured on a one time order basis. With an annual contract, even smaller monthly releases such as 40 pieces are possible.

SELECTED PISTON PINS

Manley Performance carries in stock the following piston pins to support our custom blank forging inventory.

Forging No.	Piston Pin Selection
581200	42203, 42207, 42225, 42243, 42247, 42251, 42253, 42346 42353, 42507, 42543, 42546, 42551, 42553
581400	42200, 42203, 42204, 42207, 42209, 42215, 42216, 42217 42218, 42228, 42241, 42242, 42428, 42442, 42542
581000	42215, 42216, 42217, 42218, 42241, 42242, 42442, 42542
589000	42241, 42242
581500	42215, 42216, 42217, 42218, 42241, 42242, 42442, 42542
586000	42201, 42202, 42219, 42220
581100	42201, 42202, 42219, 42220
588000	42203, 42207, 42227, 42230, 42507
488000	42203, 42207, 42227, 42230

Please refer to page 124 for piston pin detailed information

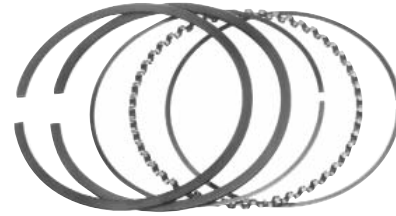
GROOVE LOCK SPACERS

Should your custom Platinum Piston requirements necessitate the wrist pin hole break into the oil ring groove, we can widen the oil ring groove and incorporate a groove lock spacer in one of the following sizes listed below.

Part No.	Description
46387-4	85mm to 87mm
46391-8	3.552" to 3.582" Bore
46393-8	3.700" Bore
46397-8	3.905" - 3.937" Bore
46400-8	3.990" to 4.080" Bore
46401-8	4.125" to 4.155" Bore
46402-8	4.470" Bore
46403-8	4.500" to 4.560" Bore
46404-8	4.600" to 4.625" Bore

PISTON RINGS

Manley Performance Products, Inc., proudly and exclusively, offers Total Seal® High Performance Piston Rings to compliment our line of Platinum Series Pistons.



Total Seal® is the leader in piston ring innovation and technology. Their quality control is unsurpassed. Total Seal® rings have superior sealing and produce maximum horsepower.

Manley stocks conventional style piston ring sets in both "Classic Race" and "AP Premium Steel top ring" versions. The Classic Race sets feature high performance ductile iron (with plasma moly in-lay) top rings, reverse twist cast iron taper face or Napier style second rings (where noted *) and 3 piece oil rings. The AP Premium Steel top ring sets incorporate Total Seal®'s unique and proprietary Advanced Profiling™ manufacturing capability. These Premium Steel top ring sets are ideal for high horsepower and forced induction/nitrous applications. Manley also offers Total Seal®'s famed Gapless® top ring packages for many of our piston applications.

All AP Premium Steel ring sets (except Sport Compact) and Gapless® top ring sets utilize Napier style second rings standard.

Ductile Iron Part No.	Premium Steel Part No.	Gapless® Part No.	Bore Size	File Fit / Drop In	Ring Widths	Oil Ring Type
3.905" CHEVROLET LS-1						
46107-8	46107ST-8	46107GT-8	3.905" / 3.910"	File Fit / Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
4" CHEVROLET, 6.1L CHRYSLER HEMI & 6.2L FORD RAPTOR						
46352-8	-----	46352GT-8	4.020"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46353-8	-----	46353GT-8	4.030"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46355-8	-----	46355GT-8	4.035"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46354-8	-----	46354GT-8	4.040" / 4.045"	File Fit / Drop In	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46356-8	-----	46356GT-8	4.060"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46110-8	46110ST-8	46110GT-8	4.001" / 4.005"	File Fit / Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46111-8	46111ST-8	46111GT-8	4.010" / 4.015"	File Fit / Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46112-8	46112ST-8	46112GT-8	4.020"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46113-8	46113ST-8	46113GT-8	4.030"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46115-8	46115ST-8	46115GT-8	4.035"	Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46114-8	46114ST-8	46114GT-8	4.040"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46116-8	46116ST-8	46116GT-8	4.060" / 4.065"	File Fit / Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46117-8	46117ST-8	46117GT-8	4.070"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46118-8	46118ST-8	46118GT-8	4.080"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46123-8*	46123ST-8	-----	4.030"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (12-16 lbs.)
46125-8*	46125ST-8	-----	4.035"	Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (12-16 lbs.)
46124-8*	46124ST-8	-----	4.040"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (12-16 lbs.)
46126-8*	46126ST-8	-----	4.060"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (12-16 lbs.)
46213-8	-----	46213GT-8	4.030"	File Fit	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
46215-8	-----	46215GT-8	4.035"	Drop In	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
46214-8	-----	46214GT-8	4.040"	File Fit	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
46216-8	-----	46216GT-8	4.060"	File Fit	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
46223-8	46223ST-8	-----	4.030"	File Fit	.043" x .043" x 3 mm	Standard Tension (12-16 lbs.)
46225-8	46225ST-8	-----	4.035"	Drop In	.043" x .043" x 3 mm	Standard Tension (12-16 lbs.)
46224-8	46224ST-8	-----	4.040"	File Fit	.043" x .043" x 3 mm	Standard Tension (12-16 lbs.)
46226-8	46226ST-8	-----	4.060"	File Fit	.043" x .043" x 3 mm	Standard Tension (12-16 lbs.)

* Napier style second ring

Total Seal® and Gapless® are registered trademarks of Total Seal Inc.

PISTONS, RINGS, & PINS

PISTON RINGS

Ductile Iron Part No.	Premium Steel Part No.	Gapless® Part No.	Bore Size	File Fit / Drop In	Ring Widths	Oil Ring Type
4 1/8" CHEVROLET						
46160-8	-----	46160GT-8	4.125"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46163-8	-----	46163GT-8	4.155"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (18-22 lbs.)
46360-8	46360ST-8	46360GT-8	4.125"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46361-8	46360ST-8	46360GT-8	4.130"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46260-8	-----	46260GT-8	4.125"	File Fit	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
46263-8	-----	46263GT-8	4.155"	File Fit	.043" x .043" x 3 mm	Standard Tension (9-13 lbs.)
4.500" CHEVROLET						
46450-8	-----	46450GT-8	4.500"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (21-25 lbs.)
46453-8	-----	46453GT-8	4.530"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (21-25 lbs.)
46456-8	-----	46456GT-8	4.560"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (21-25 lbs.)
46458-8	-----	46458GT-8	4.600"	File Fit	1/16" x 1/16" x 3/16"	Standard Tension (21-25 lbs.)
46550-8	46550ST-8	46550GT-8	4.500"	File Fit	.043" x .043" x 3/16"	Standard Tension (16-20 lbs.)
46553-8	46553ST-8	46553GT-8	4.530"	File Fit	.043" x .043" x 3/16"	Standard Tension (16-20 lbs.)
46556-8	46556ST-8	46556GT-8	4.560"	File Fit	.043" x .043" x 3/16"	Standard Tension (16-20 lbs.)
46558-8	46558ST-8	46558GT-8	4.600"	File Fit	.043" x .043" x 3/16"	Standard Tension (16-20 lbs.)
5.7L CHRYSLER HEMI						
46120-8	46120ST-8	46120GT-8	99.5 mm / 3.917"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46121-8	46121ST-8	46121GT-8	99.6 mm / 3.922"	Drop In	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46122-8	46122ST-8	46122GT-8	100.0 mm / 3.937"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
4.6L & 5.4L FORD						
46600-8	46600ST-8	46600GT-8	3.552"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
-----	46605ST-8	46605GT-8	3.557"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46620-8	46620ST-8	46620GT-8	3.572"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46630-8	46630ST-8	46630GT-8	3.582"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
46670-8	46670ST-8	46670GT-8	3.700"	File Fit	1.5 mm x 1.5 mm x 3 mm	Standard Tension (9-13 lbs.)
5.0L FORD COYOTE						
-----	46700ST-8	-----	3.630" / 3.635"	File Fit / Drop In	1.2 mm x 1.2 mm x 3 mm	Standard Tension (9-13 lbs.)
-----	46710ST-8	-----	3.640"	File Fit	1.2 mm x 1.2 mm x 3 mm	Standard Tension (9-13 lbs.)
SPORT COMPACT						
-----	46810-4	-----	81.0 mm	Drop In	1.0 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46815-4	-----	81.5 mm	Drop In	1.0 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46840-4	-----	84.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46845-4	-----	84.5 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46850-4	-----	85.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46855-4	-----	85.5 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46860-4	-----	86.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46865-4	-----	86.5 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46870-4	-----	87.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46920-4	-----	92.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46925-4	-----	92.5 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46930-4	-----	93.0 mm	Drop In	1.2 mm x 1.2 mm x 2.8 mm	Standard Tension (7-11 lbs.)
-----	46955-6*	-----	95.5 mm	Drop In	1.2 mm x 1.2 mm x 3.0 mm	Standard Tension (7-11 lbs.)
-----	46956-6	-----	95.5 mm	File Fit	1.2 mm x 1.2 mm x 3.0 mm	Standard Tension (9-13 lbs.)
-----	46957-6	-----	95.7 mm	Drop In Top / File Fit 2nd	1.2 mm x 1.2 mm x 3.0 mm	Standard Tension (7-11 lbs.)
-----	46960-6	-----	96.0 mm	Drop In	1.2 mm x 1.2 mm x 3.0 mm	Standard Tension (7-11 lbs.)
-----	46965-6	-----	96.5 mm	Drop In	1.2 mm x 1.2 mm x 3.0 mm	Standard Tension (7-11 lbs.)
-----	46995-4	-----	99.5 mm	Drop In	1.2 mm x 1.2 mm x 2.0 mm	Standard Tension (7-11 lbs.)
-----	46997-4	-----	99.7 mm	Drop In	1.2 mm x 1.2 mm x 2.0 mm	Standard Tension (7-11 lbs.)
-----	461000-4	-----	100.0 mm	Drop In	1.2 mm x 1.2 mm x 2.0 mm	Standard Tension (7-11 lbs.)

Part number 46865 is also available for 6 cylinder applications by changing the part number from a (-4) to a (-6).

* Napier style second rings

PISTONS, RINGS, & PINS

WRIST PINS & LOCKS

WRIST PINS

- ✓ Straight and taper wall construction
- ✓ Large O.D. chamfer pins requiring round wire locks
- ✓ Exacting size control and perfect concentricity
- ✓ Inside of each pin is totally free of tooling marks



Part No.	Quantity	Description	Diameter	Wall Type	Material	Length	Wall Thickness	Lock Rings	Wgt / Grams
<i>42215-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.300"	.095"	Spiral	74
<i>42216-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.300"	.130"	Spiral	96
<i>42241-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.300"	.095"	Round Wire	72
<i>42242-8</i>	8 pcs.	SB Chevy/Hemi	.927"	Straight	Premium Chrome Moly	2.300"	.130"	Round Wire	95
<i>42442-8</i>	8 pcs.	SB Chevy/Hemi	.927"	Straight	Premium Chrome Moly	2.300"	.150"	Round Wire	110
<i>42542-8</i>	8 pcs.	SB Chevy/Hemi	.927"	Straight	9310	2.300"	.170"	Round Wire	118
<i>42229-8</i>	8 pcs.	SB Chevy	.927"	Straight	Standard	2.450"	.150"	Round Wire	117
<i>42204-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.095"	Spiral	79
<i>42200-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.125"	Spiral	100
<i>42228-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.125"	Round Wire	96
<i>42428-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.500"	.150"	Round Wire	118
<i>42209-8</i>	8 pcs.	SB Chevy	.927"	Straight	Standard	2.500"	.150"	Spiral	119
<i>42210-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.750"	.125"	Spiral	110
<i>42211-8</i>	8 pcs.	SB Chevy	.927"	Taper	Premium Chrome Moly	2.750"	.105"-.140"	Spiral	116
<i>42231-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.750"	.125"	Round Wire	109
<i>42213-8</i>	8 pcs.	SB Chevy	.927"	Straight	Premium Chrome Moly	2.950"	.125"	Spiral	117
<i>42214-8</i>	8 pcs.	SB Chevy	.927"	Taper	Premium Chrome Moly	2.950"	.100"-.140"	Spiral	122
<i>42217-8</i>	8 pcs.	SB Chevy LS-1	.945" / 24 mm	Straight	Premium Chrome Moly	2.300"	.120"	Spiral	91
<i>42218-8</i>	8 pcs.	SB Chevy LS-1	.945" / 24 mm	Straight	Premium Chrome Moly	2.300"	.120"	Round Wire	90
<i>42219-8</i>	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.150"	Spiral	147
<i>42220-8</i>	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.180"	Spiral	170
<i>42201-8</i>	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.150"	Round Wire	146
<i>42202-8</i>	8 pcs.	BB Chevy	.990"	Straight	Premium Chrome Moly	2.930"	.180"	Round Wire	169
<i>42247-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	Premium Chrome Moly	2.500"	.150"	Tru Arc/Subaru Rnd Wire	115
<i>42346-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	Premium Chrome Moly	2.500"	.180"	Tru Arc/Subaru Rnd Wire	132
<i>42546-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	9310	2.500"	.210"	Tru Arc/Subaru Rnd Wire	147
<i>42253-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	103
<i>42353-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	Premium Chrome Moly	2.250"	.180"	Round Wire	119
<i>42553-4</i>	4 pcs.	Sport Compact	.9055" / 23 mm	Straight	9310	2.250"	.210"	Round Wire	132
<i>42225-4</i>	4 pcs.	Sport Compact	.866" / 22 mm	Straight	Premium Chrome Moly	2.250"	.120"	Round Wire	79
<i>42251-4</i>	4 pcs.	Sport Compact	.866" / 22 mm	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	96
<i>42551-4</i>	4 pcs.	Sport Compact	.866" / 22 mm	Straight	9310	2.250"	.210"	Round Wire	125
<i>42227-8</i>	8 pcs.	Ford 4.6, 5.4L	.866" / 22 mm	Straight	Premium Chrome Moly	2.500"	.120"	Spiral	89
<i>42230-8</i>	8 pcs.	Ford 4.6, 5.4L	.866" / 22 mm	Straight	Premium Chrome Moly	2.500"	.150"	Spiral	107
<i>42203-8</i>	8 pcs.	Ford 4.6, 5.4L	.866" / 22 mm	Straight	Premium Chrome Moly	2.500"	.120"	Round Wire	88
<i>42207-8</i>	8 pcs.	Ford 4.6, 5.4L	.866" / 22 mm	Straight	Premium Chrome Moly	2.500"	.150"	Round Wire	106
<i>42507-8</i>	8 pcs.	Ford 4.6, 5.4L	.866" / 22 mm	Straight	9310	2.500"	.180"	Round Wire	124
<i>42243-4</i>	4 pcs.	Sport Compact	.827" / 21 mm	Straight	Premium Chrome Moly	2.250"	.150"	Round Wire	91
<i>42543-4</i>	4 pcs.	Sport Compact	.827" / 21 mm	Straight	9310	2.250"	.210"	Round Wire	117

PISTONS, RINGS, & PINS

WRIST PIN LOCKS

Part No.	Quantity	Type	Pin Diameter	Description	Weight / Grams Per Lock
<i>42262-16</i>	16 pcs.	.061" Round Wire	.927"	Small Block Chevrolet	1.0
<i>42272-16</i>	16 pcs.	.072" Round Wire	.927"	Small Block Chevrolet	1.4
<i>42271-32</i>	32 pcs.	.042" Spiral	.990"	Big Block Chevrolet & Small Block Chrysler	1.2
<i>42275-16</i>	16 pcs.	.072" Round Wire	.990"	Big Block Chevrolet	1.5
<i>42212-8</i>	8 pcs.	.054" Round Wire	.9055" / 23 mm	Factory Subaru	1.0
<i>42297-8</i>	8 pcs.	.042" Tru Arc	.9055" / 23 mm	Sport Compact	1.0
<i>42270-16</i>	16 pcs.	.061" Round Wire	22 mm / .866"	Ford 4.6L / 5.4L, Sport Compact	0.8

Note: New part numbers are **ITALICIZED**.

CUBIC INCH CONVERSION CHART (8 CYLINDER ENGINE) STROKE LENGTH

	3.000	3.125	3.250	3.375	3.500	3.562	3.625	3.750	3.875	4.000	4.125	4.250	4.375	4.500	4.625	4.750	
B O R E D I A M E T E R	3.875	283.0	2.948	306.6	318.4	330.2	336.1	342.0	353.8	365.6	377.4	389.2	401.0	412.8	424.6	436.4	448.1
	3.937	292.2	304.4	316.6	328.8	340.9	347.0	353.1	365.3	377.5	389.7	401.8	414.0	426.2	438.4	450.5	462.7
	4.000	301.6	314.2	326.7	339.3	351.9	358.1	364.4	377.0	389.6	402.1	414.7	427.3	439.8	452.4	464.9	477.5
	4.030	306.4	318.8	331.9	344.7	357.4	363.5	370.2	383.0	395.7	408.5	421.3	434.0	446.4	459.2	471.9	484.7
	4.062	311.1	324.1	337.0	350.0	362.9	369.4	375.9	388.9	401.8	414.8	427.8	440.7	453.7	466.6	479.6	492.6
	4.125	320.7	334.1	347.5	360.8	374.2	380.9	387.6	400.9	414.3	427.6	441.0	454.4	467.7	481.1	494.5	507.8
	4.155	325.6	339.2	352.8	366.3	379.9	386.4	393.5	407.1	420.6	434.2	447.8	461.4	474.6	488.1	501.7	515.2
	4.187	330.5	344.3	358.1	371.8	385.6	392.5	399.4	413.2	426.9	440.7	454.5	468.3	482.0	495.8	509.6	523.3
	4.250	340.5	354.7	368.8	383.0	397.2	404.3	411.4	425.6	439.8	454.0	468.1	482.3	496.5	510.7	524.9	539.1
	4.312	350.6	365.2	379.8	394.4	409.0	416.3	423.6	438.2	452.8	467.4	482.0	496.6	511.2	525.8	540.4	555.0
	4.375	360.8	375.8	390.9	405.9	420.9	428.4	436.0	451.0	466.0	481.1	496.1	511.1	526.2	541.2	556.2	571.2
	4.437	371.2	386.6	402.1	417.6	433.0	440.8	448.5	464.0	479.4	494.9	510.4	525.8	541.3	556.8	572.2	587.7
	4.500	381.7	397.6	413.5	429.4	445.3	453.3	461.2	477.1	493.0	508.9	524.8	540.7	556.7	572.6	588.4	604.3
	4.562	392.4	408.7	425.1	441.4	457.8	466.0	474.1	490.5	506.8	523.2	539.5	555.9	572.2	588.6	604.9	621.3
	4.625	403.2	420.0	436.8	453.6	470.4	478.8	487.2	504.0	520.8	537.6	554.4	571.2	588.0	604.8	621.6	638.4
	4.687	414.2	431.4	448.7	465.9	483.2	491.8	500.5	517.7	535.0	552.2	569.5	586.7	604.0	621.3	638.5	655.8
	4.750	425.3	443.0	460.7	478.5	496.2	505.0	513.9	531.6	549.3	567.1	584.8	602.5	620.2	637.9	655.6	673.4

METRIC CONVERSION CHART

Quantity	Metric Unit	Symbol	Approximate Conversion Factor(s)	
Length	millimeter	mm	1 mm = 0.039 in	1 in = 25.4mm
	kilometer	km	1 km = 0.62 mile	1 mile = 1.61 km
Mass	gram	g	1 g = 0.035 oz	1 oz = 28.4 g
	kilogram	kg	1 kg = 2.2 lb	1 lb = 0.45 kg
Area	square millimeter	mm ²	1 mm ² = 0.002 in ²	1 in = 645 mm ²
	square centimeter	cm ²	1 cm ² = 0.15 in ²	1 in = 6.45 cm ²
Volume	cubic centimeter	cm ³	1 cm ³ = 0.06 in ³	1 in = 16.4 cm ³
Volume (Liquids)	Liter	L	1L = 0.22 gal.	1 gal = 4.55 L
	cubic inch	in ³	1 in ³ = .01639 liter	1 liter = 61.2545 in ³
Flow	liter/sec	l/s	1 l/s = 0.22 gal/sec	1 gal = 4.55 l/s
Force	Newton meter	Nm	1 Nm = 8.85 lb in	1 lb in = 0.11 Nm
			1 Nm = 0.74 lb ft	1 lb ft = 1.36 Nm
Pressure	kilopascal	kPa	1 kPa = 0.15 lb/in	1 lb/in = 6.89 kPa
	Vacuum kilopascal	kPa-	1 kPa = 0.30 in Hg	1 in/Hg = 3.39 kPa
Spring Rate	newton/millimeter	N/mm	1 N/mm = 5.7 lb in	1 lb in = 0.10 N/mm
Temperature	°C (Celsius)	°C	°C - 5/9 (°F -32)	°F = 9/5 °C +32

ENGINE DISPLACEMENT

Calculating Cubic Inches

Multiply bore x bore x stroke x number of cylinders x .7854
Example: 4.030 x 4.030 x 3.480 x 8 x .7854 = 355.1 cubic inches

Converting Cubic Inches To Liters

Multiply the cubic inches by .01639
Example: 427 x .01639 = 6.997 liters

Converting Cubic Centimeters (cc's) To Cubic Inches

Multiply the cubic centimeters by .06102
Example: 1500cc x .06102 = 91.53 cubic inches

FUEL FLOW

Converting Cubic Centimeters Per Minute To Pounds Per Hour

Divide the cc/min. by 10.5
Example: 400 ÷ 10.5 = 38 lbs. per hour

Converting Pound Per Hour Into Gallons Per Hour

Divide the lbs./hr. by 6
Example: 300 lbs./hr ÷ 6 = 50 GPH

Convert Cubic Centimeters Per Minute To Gallons Per Hour

Multiply the cc/min. by .015873
Example: 400 x .015873 = 11.17 GPH

AIR FLOW

CFM – Carburetor Air Flow Requirement (4 Stroke Engine)

Multiply CID x RPM x VE and Divide by 3456
is displacement, RPM is engine speed, VE is volumetric efficiency
Example: 427 x 6000 x 1 ÷ 3456 = 741 CFM
note: racing engines use VE of 1, street engines use a VE of .85