

# MAHLE

Motorsport

## APPLICATION GUIDE 2023

### Racing Components



# MAHLE Motorsport

## Technically The Best Pistons & Rings In Racing

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[www.youtube.com/user/mahlemotorsport](http://www.youtube.com/user/mahlemotorsport)

It's astounding to consider that MAHLE has only been participating in U.S. Motorsport since early 2000. Because we have built on success in NASCAR, American Le Mans, and other top series, MAHLE continues to demonstrate why we are the first name in high performance racing pistons.

In recent years, MAHLE Motorsport powered vehicles have won multiple championships in everything from NASCAR, IRL, American Le Mans, World of Outlaws, SCORE Offroad, to local circle track and drag strip championships across the country and everything else in between, not to mention capturing world records in the quarter mile, and at the Bonneville Salt Flats.

Whether you're competing professionally, running a street/strip car, time attack, diesel drag or pulling, race on dirt or asphalt, be a part of the winning tradition of MAHLE Motorsport.



# PowerPak Piston Sets

## The Racers Best Value

PowerPak Piston Sets are MAHLE Motorsport's high volume shelf stock program developed for high performance enthusiasts and engine builders that want uncompromising reliability. The forged piston kits are made from either, 4032 aluminum alloy to allow for tighter cylinder to wall clearances and improved temperature stability, or 2618 alloy for added strength and to allow for increased detonation resistance. Each set is complete with high performance rings, pins, and clips, and are dual coated with a Phosphate dry lubricant to reduce friction, and our GRAFAL® skirt coating to reduce drag and skirt fatigue.



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Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression			Alloy	Clearance Guide			Part No.
								Ratio				Meas.	Min	Max	

## 2023 New PowerPak Applications

### SMALL BLOCK CHEVY 22°/23° FLAT TOP Gasported

#### 1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

							58cc	64cc	70cc						
374	4.125	3.500	6.000	1.250	0.927	-7.8cc	453	11.3	10.5	9.9	2618	0.500	0.0061	0.0069	197756525
375	4.130						455	11.3	10.5	9.9					197756530
376	4.135						457	11.3	10.6	9.9					197756535
377	4.140						459	11.3	10.6	9.9					197756540
378	4.145						461	11.4	10.6	9.9					197756545
379	4.150						463	11.4	10.6	9.9					197756550
380	4.155						464	11.4	10.6	10.0					197756555
381	4.160						466	11.4	10.7	10.0					197756560
381	4.165						468	11.5	10.7	10.0					197756565

### SBC 23° USRA Factory Stock Rules Forged Piston - PRESS-FIT Pin

#### 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

							58cc	64cc	70cc						
357	4.030	3.500	5.700	1.560	0.927	-3.0cc	475	11.6	10.7	10.0	4032	0.500	0.0036	0.0044	930203830
359	4.040						479	11.6	10.8	10.0					930203840
361	4.050						483	11.6	10.8	10.1					930203850
362	4.060						487	11.7	10.8	10.1					930203860

### SMALL BLOCK CHEVY 22° ASCS 360 SPRINT DOME Gasported / Asymmetrical Valve Pockets

#### 1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

Includes HD 0.188W pins (Alt. w/ DLC: 9288283)

							58cc								
357	4.125	3.340	6.000	1.330	0.927	13.6cc	485	14.8							930165725
357	4.130						487	14.8							930165730
358	4.135						489	14.8							930165735
359	4.140						491	14.8							930165740
360	4.145						493	14.9							930165745
361	4.150						495	14.9							930165750
362	4.155						497	14.9							930165755
363	4.160						499	15.0							930165760
364	4.165						501	15.0							930165765
355	4.020	3.500	6.000	1.250	0.927	13.6cc	463	14.8	2618	0.250	0.0055	0.0063	930167520		
356	4.025						465	14.8					930167525		
357	4.030						467	14.9					930167530		
358	4.035						469	14.9					930167535		
359	4.040						471	14.9					930167540		
360	4.045						472	15.0					930167545		
361	4.050						474	15.0					930167550		
362	4.055						476	15.0					930167555		
362	4.060						478	15.0					930167560		
363	4.065						480	15.1					930167565		

### LS 5.3L (Gen 4) FLAT TOP DROP-IN FORGED REPLACEMENT ASSEMBLY - compatible with LS1/2/6 style cathedral port heads

NO BALANCING, NO COMP RATIO CHANGE

#### 1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

CR calculated at 0.001" below deck and 0.040" head gasket

							62cc	65cc	71cc						
325	3.780	3.622	6.098	1.330	0.943	2.1cc	432	10.3	9.9	9.3	2618	0.500	0.0036	0.0044	930218980
327	3.790						436	10.3	10.0	9.3					930218990
329	3.800						440	10.4	10.0	9.3					930218900

### BIG BLOCK MOPAR (RB) / 440 DISH

#### 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

							72cc	80cc	84cc						
493	4.350	4.150	6.760	1.865	0.990	-24.6cc	603	10.5	9.8	9.5	4032	0.350	0.0041	0.0049	930272150
499	4.375						615	10.6	9.9	9.6					930272175

### BIG BLOCK MOPAR (B) / 383, 400 FLAT TOP

#### 1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

							72cc	80cc	84cc						
432	4.280	3.750	6.760	1.320	0.990	-8.1cc	486	10.9	10.1	9.7	4032	0.500	0.0041	0.0049	930274080
438	4.310						499	11.0	10.2	9.8					930274010
451	4.375						506	11.3	10.4	10.1					930274175
454	4.390						512	11.3	10.5	10.1					930274190
499	4.375	4.150	6.760	1.120R	0.990	-8.1cc	466	12.4	11.4	11.0	4032	0.350	0.0041	0.0049	929962275
503	4.390						472	12.4	11.5	11.1					929962290

Compression Heights with "R" INCLUDE Oil Support Rails

### FORD 5.0L MODULAR COYOTE Gen 3 Direct Injected (2018+)

CR calculated at 0.015" below deck and 0.040" head gasket thickness

#### 1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

							56cc								
308	3.662	3.650	5.933	1.167	0.866	-1.5cc	383	10.4							930258762 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	

## 2023 New PowerPak Applications

### FORD GODZILLA 7.3L

CR calculated at 0.011" below deck and 10.5cc head gasket volume

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

								62cc					
445	4.221	3.976	6.319	1.319	0.990	-20.5cc	500	10.5	2618	0.500	0.0046	0.0054	930266421 *
446	4.225						501	10.6					930266425 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

### CUMMINS 5.9L B-Series Cast Performance Pistons - 12V

Early 12V and marine-style bowl, short pin design, coated skirt - Ring Set (S42170) Included

CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

								7cc					
359	4.015	4.724	7.559	2.817	1.575	-47.6cc	TBD	16.3	M174+	0.500	0.0055	0.0063	197952215
362	4.035						TBD	16.5					197952235
366	4.055						TBD	16.7					197952255
359	4.015	4.724	7.559	2.817	1.575	-52.0cc	TBD	15.3	M174+	0.500	0.0055	0.0063	197952415
362	4.035						TBD	15.5					197952435
366	4.055						TBD	15.6					197952455

### CUMMINS 5.9L B-Series Cast Performance Pistons - 12V w/ 0.150" deep valve pockets

Early 12V and marine-style bowl, short pin design, coated skirt - Ring Set (S42170) Included

CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

								7cc					
359	4.015	4.724	7.559	2.817	1.575	-54.5cc	TBD	14.8	M174+	0.500	0.0055	0.0063	197952315
362	4.035						TBD	15.0					197952335
366	4.055						TBD	15.2					197952355
359	4.015	4.724	7.559	2.817	1.575	-59.9cc	TBD	13.9	M174+	0.500	0.0055	0.0063	197952115
362	4.035						TBD	14.0					197952135
366	4.055						TBD	14.1					197952155

### Ford 6.0L Powerstroke Cast Performance Pistons

CH reduced 0.010", modified version of the 04+ bowl for reduced CR - Ring Set (S41940) Included

CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

								2.75cc					
363	3.740	4.134	6.929	2.049	1.339	-35.4cc	TBD	16.7	M124	0.580	0.0029	0.0037	197886140
365	3.750						TBD	16.8					197886150
367	3.760						TBD	16.9					197886160
369	3.770						TBD	16.9					197886170
371	3.780						TBD	17.0					197886180

### Ford 6.0L Powerstroke Cast Performance Pistons - w/ 0.100" deep valve pockets

CH reduced 0.010", modified version of the 04+ bowl for reduced CR - Ring Set (S41940) Included

CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

								2.75cc					
363	3.740	4.134	6.929	2.049	1.339	-41.2cc	TBD	15.0	M124	0.580	0.0029	0.0037	197886240
365	3.750						TBD	15.1					197886250
367	3.760						TBD	15.1					197886260
369	3.770						TBD	15.2					197886270
371	3.780						TBD	15.3					197886280

### Ford 6.4L Powerstroke Cast Performance Pistons

CH reduced 0.010", HD modified version of the factory bowl for reduced CR - Ring Set (S42246) Included

CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

								2.9cc					
388	3.866	4.134	6.929	2.049	1.516	-39.7cc	TBD	16.2	M142	0.610	0.0021	0.0029	197887066
390	3.876						TBD	16.2					197887076
392	3.886						TBD	16.3					197887086
394	3.896						TBD	16.4					197887096

### Ford 6.4L Powerstroke Cast Performance Pistons - w/ 0.100" deep valve pockets

CH reduced 0.010", HD modified version of the factory bowl for reduced CR - Ring Set (S42246) Included

CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

								2.9cc					
388	3.866	4.134	6.929	2.049	1.516	-45.1cc	TBD	14.7	M142	0.610	0.0021	0.0029	197886966
390	3.876						TBD	14.8					197886976
392	3.886						TBD	14.9					197886986
394	3.896						TBD	14.9					197886996

# 2023 New Rings, Pins, & Rails

Finish Bore	Description	Set Part Number	Description	Part Number
<b>1.0mm, 1.0mm, 2.0mm Standard Tension +.005 File Fit Rings</b>			<b>Piston Pins</b>	
3.622"	1.0, 1.0, 2.0mm File Fit	3627MS-112	0.750 x 1.965 x 0.178W CH 80g	9864383
3.662"	1.0, 1.0, 2.0mm File Fit	3667MS-112	0.984 x 2.287 x 0.232W CH 160g	9849202
3.701"	1.0, 1.0, 2.0mm File Fit	3706MS-112	0.927 x 2.287 x 0.188W CH 128g H13 HD	9301852
			0.943 x 2.287 x 0.200W CH 135g H13 HD	1978223
			0.943 x 2.287 x 0.235W CH 154g HD	1978387
			1.094 x 2.850 x 0.200W 205g H13 HD	1978843
	<b>Sport Compact Ring Sets</b>			
89.50 mm	1.2, 1.2, 2.8mm Drop In	8950MS-12		
	<b>Diesel Ring Sets</b>		<b>Diesel Pins</b>	
3.750"	FORD 6.0L (+010) DSL (8cyl)	41940-010	34.0 x 20 x 65.3mm R 294g	BUL33087356230
3.770"	FORD 6.0L (+030) DSL (8cyl)	41940-030		
3.740"	FORD 6.4L (STD) DSL (8cyl)	42246-STD		
3.750"	FORD 6.4L (+010) DSL (8cyl)	42246-010		
3.760"	FORD 6.4L (+020) DSL (8cyl)	42246-020		
3.770"	FORD 6.4L (+030) DSL (8cyl)	42246-030		
			<b>Oil Ring Support Rails (each)</b>	
			3.800-3.815 2mm Support Rail	1979652
			3.915-3.930 2mm Support Rail	1979643
			3.935-3.950 2mm Support Rail	1979644
			4.020-4.035 2mm Support Rail	1979645
			4.060-4.075 2mm Support Rail	1979646
			4.100-4.155 2mm Support Rail	1979647
			4.145-4.160 2mm Support Rail	1979648
			4.185-4.200 2mm Support Rail	1979649
			4.260-4.275 2mm Support Rail	1979650
			4.620-4.635 2mm Support Rail	1979651

## Apparel



### MAHLE Motorsport Blueprint Logo T-Shirt

Small	1979115-S
Medium	1979115-M
Large	1979115-L
X-Large	1979115-XL
2X-Large	1979115-2XL
3X-Large	1979115-3XL
4X-Large	1979115-4XL



### MAHLE Motorsport Blueprint Logo Hooded Sweatshirt

Small	1979116-S
Medium	1979116-M
Large	1979116-L
X-Large	1979116-XL
2X-Large	1979116-2XL
3X-Large	1979116-3XL



### MAHLE Motorsport Blueprint Logo Full Zip Hooded Sweatshirt

Small	1979117-S
Medium	1979117-M
Large	1979117-L
X-Large	1979117-XL
2X-Large	1979117-2XL
3X-Large	1979117-3XL





Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.			
										Meas.	Min	Max				
<b>SMALL BLOCK CHEVY HIGH OUTPUT 2bbl 22°/23° FLAT TOP Gasported / Asymmetrical Valve Pockets</b>																
<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>																
<b>Light Weight 92g pins included</b>																
357	4.030	3.500	5.700	1.550	0.927	- 4.1cc	429	<b>58cc</b>	<b>64cc</b>	<b>70cc</b>	4032	0.500	0.0036	0.0044	930202530	
358	4.035							11.4	10.6	9.9						930202535
359	4.040							11.4	10.6	9.9						930202540
360	4.045							11.5	10.6	9.9						930202545
361	4.050							11.5	10.7	10.0						930202550
362	4.060							11.5	10.7	10.0						930202560
357	4.030	3.500	6.000	1.250	0.927	- 4.1cc	393	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	930202630	
358	4.035							11.4	10.6	9.9						930202635
359	4.040							11.4	10.6	9.9						930202640
360	4.045							11.5	10.6	9.9						930202645
361	4.050							11.5	10.7	10.0						930202650
362	4.060							11.5	10.7	10.0						930202660
357	4.030	3.500	6.125	1.125	0.927	- 4.1cc	377	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	930202830	
359	4.040							11.4	10.6	9.9						930202840
383	4.030	3.750	6.000	1.125	0.927	- 4.1cc	377	12.1	11.3	10.5	4032	0.250	0.0036	0.0044	930202830	
385	4.040							12.2	11.3	10.5						930202840

**SMALL BLOCK CHEVY 4-VALVE POCKET FLAT TOP**

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>																
<b>APPROVED PN w/ Laser Etch for WISSOTA Series</b>																
								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>						
350	4.000	3.480/3.500	5.700	1.550	0.927	-5.0cc	482	10.9	10.1	9.5	4032	0.500	0.0025	0.0033	930203600	
355	4.030							11.0	10.2	9.6						930203630
357	4.040							11.0	10.3	9.6						930203640
360	4.060							11.1	10.3	9.7						930203660
355	4.030	3.480/3.500	6.000	1.250	0.927	-5.0cc	454	11.0	10.2	9.6	4032	0.500	0.0025	0.0033	930203730	

**SMALL BLOCK CHEVY WISSOTA CONCEPT ENGINE**

<b>1.5, 1.5, 3.0mm File Fit Performance Ring Set Included</b>																
<b>APPROVED PN w/ Laser Etch for WISSOTA Series</b>																
								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>						
355	4.030	3.480/3.500	5.700	1.550	0.927	-5.0cc	463	11.0	10.2	9.6	4032	0.500	0.0025	0.0033	197725130	
357	4.040							11.0	10.3	9.6						197725140
359	4.050							11.1	10.3	9.6						197725150
360	4.060							11.1	10.3	9.7						197725160

**SBC 23° USRA Factory Stock Rules Forged Piston - PRESS-FIT Pin**

<b>1.5, 1.5, 3.0mm File Fit Performance Ring Set Included</b>																
								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>						
357	4.030	3.500	5.700	1.560	0.927	-3.0cc	475	11.6	10.7	10.0	4032	0.500	0.0036	0.0044	930203830	
359	4.040							11.6	10.8	10.0						930203840
361	4.050							11.6	10.8	10.1						930203850
362	4.060							11.7	10.8	10.1						930203860

**New Product Focus**

**SBC 23° USRA Factory Stock PowerPak Piston Set**

- Four equal valve relief flat top piston design
- High strength, 4032 Aluminum alloy, slipper skirt forging
- 1.5mm, 1.5mm, 3.0mm piston ring set included
- Dual coated with phosphate and MAHLE's GRAFAL® skirt coating
- Precision CNC machined pin bores with straight side reliefs in the pin bores for wrist pin lubrication
- PRESS-FIT Pin Design
- Heavy duty steel wrist pins included



**GM 604 Crate Engine Drop-In Forged Replacement - PRESS-FIT Pin**

<b>Requires 2.0, 1.5, 4.0mm Ring Set (Not Included)</b>																
								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>						
350	4.000	3.480	5.700	1.559	0.927	-4.9cc	548	11.1	10.3	9.6	4032	0.500	0.0047	0.0051	930127800	
350	4.002							11.1	10.3	9.6						930127802
351	4.005							11.1	10.3	9.6						930127805
351	4.008							11.1	10.3	9.7						930127808
351	4.011							11.1	10.3	9.7						930127811
352	4.015							11.2	10.4	9.7						930127815
353	4.020							11.2	10.4	9.7						930127820
355	4.030							11.2	10.4	9.7						930127830

**Meas.** = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.

"Min" and "Max" is the suggested range of clearance over the coating for each application.

**Compression Ratio** - calculated at zero deck and 0.040" gasket unless otherwise noted















Cubic Inches	Bore Inches	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.			
										Meas.	Min	Max				
<b>LS 6.2L DISH</b>																
<i>LSX COMBO pockets - compatible with LS1/2/6, LS7, and LS3 / L92 style heads</i>																
<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>																
376	4.065	3.622	6.125	1.304	0.927	-12.0cc	456	64cc	70cc	72cc	2618	0.500	0.0046	0.0054	930225465	
377	4.070						458	10.1	9.5	9.3					930225470	
378	4.075						461	10.2	9.5	9.4					930225475	
379	4.080						463	10.2	9.6	9.4					930225480	
415	4.065						4.000	6.125	1.110R	0.927					-14.0cc	423
416	4.070	425	10.9	10.2	10.0	930229470										
417	4.075	427	10.9	10.2	10.0	930229475										
418	4.080	429	10.9	10.3	10.1	930229480										
415	4.065	4.125	6.125	1.050R	0.927	-8.0cc					425	9.7	9.2	9.1		2618
416	4.070						427	9.7	9.2	9.1	930225570					
417	4.075						429	9.8	9.3	9.1	930225575					
418	4.080						431	9.8	9.3	9.1	930225580					
428	4.065						1.050R	0.927	-20.0cc	432	11.9	11.1	10.9	4032	0.500	
429	4.070	434	11.9	11.2	10.9	930225270										
430	4.075	436	11.9	11.2	11.0	930225275										
428	4.065	413	10.5	9.9	9.7	2618				0.500	0.0046	0.0054	930230065			
429	4.070	415	10.5	9.9	9.7	930230070										
430	4.075	417	10.5	9.9	9.8	930230075										
431	4.080	418	10.5	10.0	9.8	930230080										

Compression Heights with "R" INCLUDE Oil Support Rails

**LS 6.2L DISH (LSA / LS9) - compatible with all LS Heads**

Designed for High Boost Applications w/ reduced CH and no valve pockets

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

CR calculated at 0.005" below deck and 0.051 x 4.100" head gasket

376	4.065	3.622	6.125	1.299	0.927	-4.5cc	478	64cc	69cc	72cc	2618	0.500	0.0046	0.0054	197813865 *	
377	4.070						480	10.6	10.0	9.7					197813870 *	
378	4.075						483	10.6	10.0	9.7					197813875 *	
379	4.080						485	10.6	10.1	9.8					197813880 *	

\*2618 Alloy, HD 0.188"W H13 Wrist Pin & Hard Anodized Top Ring Groove For Extreme Duty Applications

**LS 6.0L & 6.2L DOME - compatible with LS3 / L92 rectangular port heads**

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included

365	4.005	3.622	6.125	1.314	0.927	2.0cc	470	70cc			4032	0.500	0.0025	0.0033	197719205	
366	4.010						472	10.8							197719210	
370	4.030						480	10.9							197719230	
376	4.065						494	11.1							197719265	
377	4.070						496	11.1							197719270	
378	4.075	497	11.1			197719275										
365	4.005	3.622	6.125	1.304	0.927	12.0cc	468	12.3			2618	0.500	0.0046	0.0054	197714805 *	
366	4.010						470	12.3							197714810 *	
370	4.030						477	12.4							197714830 *	
376	4.065						490	12.6							197714865 *	
377	4.070						492	12.6							197714870 *	
378	4.075						494	12.6							197714875 *	

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

**LS COMBO DOME - compatible with LS1/2/6 style cathedral port heads & LS3 / L92 style rectangular port heads**

(Does not fit LS7 or 5.3L 706 & 862 Truck Heads)

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

402	4.000	4.000	6.125	1.110R	0.927	9.2cc	454	64cc	68cc	70cc	2618	0.500	0.0046	0.0054	930229600	
403	4.005						456	14.1	13.3	13.0					930229605	
404	4.010						457	14.1	13.3	13.0					930229610	
408	4.030						465	14.2	13.4	13.1					930229630	
415	4.065						479	14.4	13.6	13.3					930229665	
416	4.070						480	14.5	13.7	13.3					930229670	
417	4.075						482	14.5	13.7	13.3					930229675	
418	4.080						484	14.5	13.7	13.4					930229680	

Compression Heights with "R" INCLUDE Oil Support Rails

LSX Combo - Valve Pockets Fit LS 1/2/6, LS7, and LS3/L92 Style Heads

Available In Flat Top, Dish, & Dome

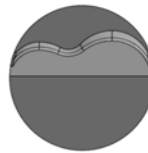
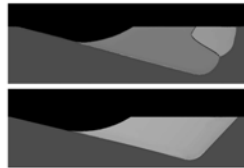
2618 Alloy For Power Adder Applications

See Page 13

Overlaid Pockets

Combo Pocket Section View Comparison

LSX Combo Pocket



Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide			Part No.
												Meas.	Min	Max	
<b>LS 7.0L FLAT TOP &amp; DISH - compatible with LS7 style heads</b>															
<i>(Check out our NEW LSX Large Bore section for more LS7 applications)</i>															
NOTE: Stock applications with 0.925" pin Ø require rods to be honed to 0.927"															
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
							64cc	70cc	72cc						
428	4.125	4.000	6.067	1.181	0.927	-2.5cc	447	12.6	11.8	11.5	4032	0.500	0.0025	0.0033	930221525
429	4.130						450	12.7	11.8	11.5					930221530
430	4.135						452	12.7	11.8	11.6					930221535
428	4.125	4.000	6.125	1.105	0.927	-2.5cc	438	12.6	11.8	11.5	4032	0.500	0.0025	0.0033	930221625
429	4.130						440	12.7	11.8	11.5					930221630
430	4.135						441	12.7	11.8	11.6					930221635
428	4.125	<b>4.000</b>	<b>6.125</b>	<b>1.105R</b>	<b>0.927</b>	<b>-25.0cc</b>	<b>454</b>	<b>10.0</b>	<b>9.4</b>	<b>9.3</b>	<b>2618</b>	<b>0.500</b>	<b>0.0046</b>	<b>0.0054</b>	<b>930221825 *</b>

Compression Heights with "R" INCLUDE Oil Support Rails

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

**LSX Large Bore FLAT TOP, DISH, DOME**

*LSX COMBO pockets - compatible with LS1/2/6, LS7, and LS3 / L92 style heads*

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
							64cc	70cc	72cc						
387	4.125	3.622	6.125	1.304	0.927	-5.8cc	479	11.1	10.4	10.2	2618	0.500	0.0046	0.0054	930226925
388	4.130						481	11.1	10.4	10.2					930226930
389	4.135						483	11.1	10.4	10.2					930226935
393	4.155						491	11.2	10.5	10.3					930226955
399	4.185						504	11.4	10.6	10.4					930226985
428	4.125	4.000	6.125	1.110R	0.927	5.6cc	482	14.0	13.0	12.7	2618	0.500	0.0046	0.0054	930229725
429	4.130						484	14.1	13.0	12.7					930229730
430	4.135						486	14.1	13.0	12.7					930229735
434	4.155						494	14.2	13.1	12.8					930229755
440	4.185						506	14.4	13.3	13.0					930229785
428	4.125					-5.8cc	450	12.2	11.4	11.1	2618	0.500	0.0046	0.0054	930226725
429	4.130						452	12.2	11.4	11.1					930226730
430	4.135						454	12.2	11.4	11.2					930226735
434	4.155						462	12.3	11.5	11.3					930226755
440	4.185						474	12.4	11.6	11.4					930226785
428	4.125					-18.0cc	429	10.7	10.1	9.9	2618	0.500	0.0046	0.0054	930229525
429	4.130						431	10.7	10.1	9.9					930229530
430	4.135						433	10.7	10.1	9.9					930229535
434	4.155						441	10.8	10.2	10.0					930229555
440	4.185						453	10.9	10.3	10.1					930229585
441	4.125	4.125	6.125	1.050R	0.927	-5.8cc	439	12.5	11.7	11.4	2618	0.500	0.0046	0.0054	930227325 *
442	4.130						441	12.5	11.7	11.5					930227330 *
443	4.135						443	12.5	11.7	11.5					930227335
447	4.155						450	12.6	11.8	11.6					930227355
454	4.185						462	12.8	12.0	11.7					930227385
441	4.125					-5.8cc	426	12.5	11.7	11.4	4032	0.500	0.0025	0.0033	930226525
442	4.130						427	12.5	11.7	11.5					930226530

Compression Heights with "R" INCLUDE Oil Support Rails

\*Available In Multiple Alloys

**LT 6.2L FLAT TOP - compatible with GM LT1 / L86 / LT4 heads**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
							60cc	65.5cc							
376	4.065	3.622	6.125	1.304	0.927	-4.5cc	481	11.6	10.8		2618	0.500	0.0046	0.0054	930228765 *
377	4.070						483	11.6	10.8						930228770 *
379	4.080						485	11.6	10.9						930228780 *
415	4.065	4.000	6.125	1.105	0.927	-4.3cc	439	12.7	11.9		2618	0.500	0.0046	0.0054	930165365 *
416	4.070						441	12.7	11.9						930165370 *
428	4.125					-6.1cc	455	12.7	11.9		2618	0.500	0.0046	0.0054	930173225 *
429	4.130						457	12.7	11.9						930173230 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications, designed for aftermarket rods

**LT 6.2L INVERTED DOME - compatible with GM LT1 / L86 / LT4 heads**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
							60cc	65.5cc							
376	4.065	3.622	6.125	1.304	0.927	-16.0cc	440	10.1	9.6		2618	0.500	0.0046	0.0054	930228365 *
377	4.070						442	10.1	9.6						930228370 *
416	4.070	4.000	6.125	1.105	0.927	-21.6cc	409	10.5	9.9		2618	0.500	0.0046	0.0054	930228070 *
418	4.080						412	10.5	10.0						930228080 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications, designed for aftermarket rods

Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.

"Min" and "Max" is the suggested range of clearance over the coating for each application.

Compression Ratio - calculated at zero deck and 0.040" gasket unless otherwise noted





Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	

**BIG BLOCK CHEVY ELITE SPORTSMAN DRAG SERIES 24°/25°**

Domes compatible with popular BBC cylinder heads and high lift, long duration cams. Dual coated and gas ported with advanced skirt profiles. Focused attention on drag race-specific key stress areas. In stock availability on assemblies and singles.

**.043", .043", 3.0mm Rings sold separately. Available in STD or Low Tension\* - See Page 35 for Ring Sets**  
**Includes 0.180"W pin; optional 0.200"W pins available (PN 9887255)**

**Standard Deck (9.800)**

							112cc	118cc	124cc						
565	4.600	4.250	6.385	1.270	0.990	47.1cc	668	16.3	15.2	14.2	2618	0.500	0.0061	0.0069	930239300
566	4.605						670	16.3	15.2	14.2					930239305
568	4.610						673	16.3	15.2	14.2					930239310
571	4.625						680	16.4	15.3	14.3					930239325
582	4.600	4.375	6.385	1.215R	0.990	47.1cc	654	16.7	15.6	14.6	2618	0.500	0.0061	0.0069	930239400
583	4.605						656	16.7	15.6	14.6					930239405
584	4.610						658	16.7	15.6	14.6					930239410
588	4.625						665	16.8	15.7	14.7					930239425
598	4.600	4.500	6.385	1.155R	0.990	45.0cc	635	16.7	15.6	14.6	2618	0.500	0.0061	0.0069	930239200
600	4.605						637	16.8	15.6	14.7					930239205
601	4.610						639	16.8	15.7	14.7					930239210
605	4.625						646	16.9	15.7	14.8					930239225
565	4.600	4.250	6.535	1.120R	0.990	42.0cc	619	15.3	14.3	13.5	2618	0.500	0.0061	0.0069	930239200
566	4.605						621	15.3	14.3	13.5					930239105
568	4.610						623	15.4	14.4	13.5					930239110
571	4.625						629	15.4	14.4	13.6					930239125
565	4.600					47.1cc	633	16.3	15.2	14.2	2618	0.500	0.0061	0.0069	930239500
566	4.605						635	16.3	15.2	14.2					930239505
568	4.610						637	16.3	15.2	14.2					930239510
571	4.625						644	16.4	15.3	14.3					930239525
582	4.600	4.375	6.535	1.060R	0.990	40.0cc	600	15.4	14.4	13.6	2618	0.500	0.0061	0.0069	930239000
583	4.605						602	15.4	14.4	13.6					930239005
584	4.610						604	15.4	14.5	13.6					930239010
588	4.625						610	15.5	14.5	13.7					930239025
582	4.600					47.0cc	619	16.7	15.5	14.6	2618	0.500	0.0061	0.0069	930239600
583	4.605						621	16.7	15.6	14.6					930239605
584	4.610						623	16.8	15.6	14.6					930239610
588	4.625						629	16.8	15.7	14.7					930239625

**Tall Deck (10.200)**

565	4.600	4.250	6.800	1.270	0.990	47.1cc	668	16.3	15.2	14.2	2618	0.500	0.0061	0.0069	930239300
566	4.605						670	16.3	15.2	14.2					930239305
568	4.610						673	16.3	15.2	14.2					930239310
571	4.625						680	16.4	15.3	14.3					930239325
598	4.600	4.500	6.800	1.120R	0.990	42.0cc	619	16.1	15.1	14.2	2618	0.500	0.0061	0.0069	930239100
600	4.605						621	16.2	15.1	14.2					930239105
601	4.610						623	16.2	15.2	14.2					930239110
605	4.625						629	16.3	15.2	14.3					930239125
598	4.600					47.1cc	633	17.2	16.0	15.0	2618	0.500	0.0061	0.0069	930239500
600	4.605						635	17.2	16.0	15.0					930239505
601	4.610						637	17.2	16.0	15.0					930239510
605	4.625						644	17.3	16.1	15.1					930239525
632	4.600	4.750	6.700	1.120R	0.990	42.0cc	619	17.0	15.9	14.9	2618	0.500	0.0061	0.0069	930239100
633	4.605						621	17.0	15.9	15.0					930239105
634	4.610						623	17.1	15.9	15.0					930239110
638	4.625						629	17.1	16.0	15.1					930239125
632	4.600					47.1cc	633	18.1	16.8	15.7	2618	0.500	0.0061	0.0069	930239500
633	4.605						635	18.1	16.8	15.8					930239505
634	4.610						637	18.1	16.9	15.8					930239510
638	4.625						644	18.2	17.0	15.9					930239525

\*Example: 4.600" Bore Size Standard Tension Part #4605SS-043 / 4.600" Bore Size Low Tension Part #4605SL-043

Compression Heights with "R" INCLUDE Oil Support Rails

**Elite Sportsman Drag Series 24° / 25° PowerPak Piston Set**

- High strength, 2618 Aluminum alloy, slipper skirt forging
- .043", .043", 3.0mm Rings sold separately. Available in Standard & Low Tension - See page 35 for Ring Sets
- Dual coated with phosphate and MAHLE's GRAFAL® skirt coating
- Includes 0.180"W pin; optional 0.200"W pins available (PN 9887255)



Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	

**BIG BLOCK CHEVY ELITE SPORTSMAN DRAG SERIES 20°**

For Brodix BP SR-20 & BRX, Dart Pro 1 20°, etc.

Domes compatible with popular 20° BBC cylinder heads and high lift, long duration cams. Dual coated and lateral gas ported with advanced skirt profiles. Focused attention on drag race-specific key stress areas. In stock availability on assemblies and singles.

.043", .043", 3.0mm Rings sold separately. Available in STD or Low Tension\* - See Page 35 for Ring Sets

Includes 0.180"W pin; optional 0.200"W pins available (PN 9887255)

**Standard Deck (9.800)**

								95cc	97cc	100cc					
565	4.600	4.250	6.385	1.270	0.990	28.0cc	642	15.9	15.5	15.0	2618	0.500	0.0061	0.0069	930240000
566	4.605						645	15.9	15.5	15.0					930240005
568	4.610						647	15.9	15.5	15.0					930240010
571	4.625						654	16.0	15.6	15.1					930240025
598	4.600	4.500	6.385	1.155R	0.990	28.0cc	615	16.7	16.3	15.8	2618	0.500	0.0061	0.0069	930239900
600	4.605						618	16.8	16.4	15.8					930239905
601	4.610						620	16.8	16.4	15.8					930239910
605	4.625						626	16.9	16.5	15.9					930239925
565	4.600	4.250	6.535	1.120R	0.990	23.0cc	624	15.0	14.6	14.2	2618	0.500	0.0061	0.0069	930239800
566	4.605						626	15.0	14.7	14.2					930239805
568	4.610						628	15.0	14.7	14.2					930239810
571	4.625						634	15.1	14.8	14.3					930239825
582	4.600	4.375	6.480	1.120R	0.990	23.0cc	624	15.4	15.0	14.6	2618	0.500	0.0061	0.0069	930239800
583	4.605						626	15.4	15.1	14.6					930239805
584	4.610						628	15.4	15.1	14.6					930239810
588	4.625						634	15.5	15.2	14.7					930239825
582	4.600	4.375	6.535	1.060R	0.990	28.0cc	594	16.3	15.9	15.4	2618	0.500	0.0061	0.0069	930239700
583	4.605						597	16.3	15.9	15.4					930239705
584	4.610						599	16.4	16.0	15.4					930239710
588	4.625						605	16.4	16.1	15.5					930239725

**Tall Deck (10.200)**

565	4.600	4.250	6.800	1.270	0.990	28cc	642	15.9	15.5	15.0	2618	0.500	0.0061	0.0069	930240000
566	4.605						645	15.9	15.5	15.0					930240005
568	4.610						647	15.9	15.5	15.0					930240010
571	4.625						654	16.0	15.6	15.1					930240025
598	4.600	4.500	6.800	1.120R	0.990	23.0cc	624	15.8	15.4	14.9	2618	0.500	0.0061	0.0069	930239800
600	4.605						626	15.8	15.5	15.0					930239805
601	4.610						628	15.8	15.5	15.0					930239810
605	4.625						634	15.9	15.6	15.1					930239825
632	4.600	4.750	6.700	1.120R	0.990	23.0cc	624	16.6	16.2	15.7	2618	0.500	0.0061	0.0069	930239800
633	4.605						626	16.6	16.3	15.7					930239805
634	4.610						628	16.7	16.3	15.8					930239810
638	4.625						634	16.8	16.4	15.9					930239825

\*Example: 4.600" Bore Size Standard Tension Part #4605SS-043 / 4.600" Bore Size Low Tension Part #4605SL-043

Compression Heights with "R" INCLUDE Oil Support Rails

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Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.  
 "Min" and "Max" is the suggested range of clearance over the coating for each application.  
 Compression Ratio - calculated at zero deck and 0.040" gasket unless otherwise noted







Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide			Part No.
								58cc	64cc	70cc		Meas.	Min	Max	
<b>SMALL BLOCK FORD INVERTED DOME</b>															
Continued from previous page															
<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>					
408	4.030	4.000	6.250	1.230	0.927	-20cc	409	10.7	10.1	9.5	4032	0.500	0.0025	0.0033	930248730
410	4.040						413	10.7	10.1	9.5					930248740
332	4.030	3.250	5.400	1.165	0.927	-16cc	411	9.2	8.7	8.2	2618	0.500	0.0046	0.0054	930249930 *
333	4.040						415	9.3	8.7	8.2					930249940 *
332	4.030						399	9.2	8.7	8.2	4032	0.500	0.0025	0.0033	930248830
333	4.040						403	9.3	8.7	8.2					930248840
347	4.125						422	9.6	9.0	8.5	2618	0.500	0.0046	0.0054	930247725 *
353	4.155						433	9.7	9.1	8.6					930247755 *
347	4.125						410	9.6	9.0	8.5	4032	0.500	0.0025	0.0033	930245025
353	4.155						421	9.7	9.1	8.6					930245055
426	4.030	4.170	6.250	1.165	0.927	-16cc	411	11.6	10.9	10.2	2618	0.500	0.0046	0.0054	930249930 *
428	4.040						415	11.6	10.9	10.3					930249940 *
426	4.030						399	11.6	10.9	10.2	4032	0.500	0.0025	0.0033	930248830
428	4.040						403	11.6	10.9	10.3					930248840
446	4.125						422	12.0	11.3	10.6	2618	0.500	0.0046	0.0054	930247725 *
452	4.155						433	12.2	11.4	10.8					930247755 *
446	4.125						410	12.0	11.3	10.6	4032	0.500	0.0025	0.0033	930245025
452	4.155						421	12.2	11.4	10.8					930245055
347	4.030	3.400	5.400	1.090R	0.927	-16cc	395	9.6	9.0	8.5	2618	0.500	0.0046	0.0054	930247830 *
349	4.040						398	9.7	9.1	8.6					930247840 *
347	4.030						384	9.6	9.0	8.5	4032	0.500	0.0025	0.0033	930249130
349	4.040						387	9.7	9.1	8.6					930249140
364	4.125						407	10.0	9.4	8.9	2618	0.500	0.0046	0.0054	930247925 *
364	4.125						395	10.0	9.4	8.9	4032	0.500	0.0025	0.0033	930249025

Compression Heights with "R" INCLUDE Oil Support Rails  
 \*Available In Multiple Alloys

**SMALL BLOCK FORD FLAT TOP for the TWISTED WEDGE® CYL HEAD**

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>								<b>58cc</b>	<b>61cc</b>	<b>65cc</b>					
332	4.030	3.250	5.400	1.165	0.927	-6.2cc	451	10.4	10.0	9.5	2618	0.500	0.0046	0.0054	930250730 *
333	4.040						455	10.4	10.0	9.6					930250740 *
332	4.030						438	10.4	10.0	9.5	4032	0.500	0.0025	0.0033	930250130
333	4.040						442	10.4	10.0	9.6					930250140
347	4.030	3.400	5.400	1.090R	0.927	-6.2cc	437	10.8	10.4	9.9	2618	0.500	0.0046	0.0054	930250530 *
349	4.040						441	10.8	10.4	10.0					930250540 *
347	4.030			1.090	0.927	-6.2cc	425	10.8	10.4	9.9	4032	0.500	0.0025	0.0033	930250330
349	4.040						429	10.8	10.4	10.0					930250340
364	4.125						462	11.2	10.8	10.3	4032	0.500	0.0025	0.0033	930250425 *

Compression Heights with "R" INCLUDE Oil Support Rails  
 \*Available In Multiple Alloys

**SMALL BLOCK FORD FLAT TOP for the TWISTED WEDGE® 11R CYL HEAD**

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>								<b>53cc</b>	<b>61cc</b>	<b>66cc</b>					
347	4.030	3.400	5.400	1.090R	0.927	-6.2cc	437	11.5	10.4	9.8	2618	0.500	0.0046	0.0054	930250530
349	4.040						441	11.6	10.4	9.9					930250540

Compression Heights with "R" INCLUDE Oil Support Rails

**SMALL BLOCK FORD INVERTED DOME for the TWISTED WEDGE® CYL HEAD**

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>								<b>58cc</b>	<b>61cc</b>	<b>65cc</b>					
332	4.030	3.250	5.400	1.165	0.927	-16cc	461	9.2	9.0	8.6	2618	0.500	0.0046	0.0054	930251330 *
333	4.040						465	9.3	9.0	8.6					930251340 *
333	4.040						452	9.3	9.0	8.6					930251040
347	4.030	3.400	5.400	1.090R	0.927	-16cc	443	9.6	9.3	9.0	2618	0.500	0.0046	0.0054	930251530 *
349	4.040						447	9.7	9.4	9.0					930251540 *
347	4.030						431	9.6	9.3	9.0	4032	0.500	0.0025	0.0033	930251130
349	4.040						435	9.7	9.4	9.0					930251140
364	4.125					-18cc	479	9.8	9.5	9.1	2618	0.500	0.0046	0.0054	930251625 *

Compression Heights with "R" INCLUDE Oil Support Rails  
 \*Available In Multiple Alloys

**SMALL BLOCK FORD CLEVELAND**

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>								<b>60cc</b>	<b>64cc</b>	<b>72cc</b>					
393	4.030	3.850	6.000	1.275	0.927	-3.2cc	464	12.2	11.7	10.6	4032	0.500	0.0025	0.0033	930252130
395	4.040						468	12.3	11.7	10.7					930252140
408	4.030	4.000	6.000	1.200R	0.927	-3.2cc	464	12.7	12.1	11.0	2618	0.500	0.0046	0.0054	930253130 *
408	4.030			1.200	0.927	-20cc	457	10.5	10.1	9.3	4032	0.500	0.0025	0.0033	930252430
408	4.030					-3.2cc	453	12.7	12.1	11.0	4032	0.500	0.0025	0.0033	930252630

Compression Heights with "R" INCLUDE Oil Support Rails  
 \*Available In Multiple Alloys

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide			Part No.
												Meas.	Min	Max	
<b>FORD MODULAR 4.6 2-VALVE or 4-VALVE</b>															
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								42cc	46cc	52cc					
281	3.552	3.543	5.930	1.220	0.866	-16.0cc	356	9.9	9.4	8.7	M142P	0.500	0.0006	0.0014	930256052
284	3.572						363	10.0	9.5	8.8					930256072
285	3.582						367	10.1	9.5	8.8					930256082
281	3.552					0cc	392	12.9	12.0	10.8	M142P	0.500	0.0006	0.0014	930256252
284	3.572						399	13.0	12.1	10.9					930256272

**NHRA LEGAL FORD MODULAR 5.4L 4-VALVE (2008, 2010, 2012 COBRA JET)**

Available in bore sizes up to the legal NHRA limit of +0.080" oversize; call for sizes/other tech; NHRA PN 197740100

Requires 1.5, 1.5, 2.5mm Ring Set (Not Included)

330	3.552	4.165	6.657	1.230	0.866	-12.6cc	364	Dependent upon bore size			M142P	0.500	0.0006	0.0014	197740100 *
334	3.572						371								197740100 *
343	3.622						389								197740100 *

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

**FORD MODULAR 5.4 2-VALVE or 4-VALVE**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

CR calculated at 0.118" below deck and 0.040" head gasket thickness

330	3.552	4.165	6.657	1.220	0.866	-16.0cc	356	9.1	8.7	8.2	M142P	0.500	0.0006	0.0014	930256052
334	3.572						363	9.1	8.8	8.3					930256072
336	3.582						367	9.2	8.8	8.3					930256082
330	3.552					0cc	392	11.0	10.4	9.7	M142P	0.500	0.0006	0.0014	930256252
334	3.572						399	11.1	10.5	9.8					930256272

**FORD 5.0L MODULAR 4-VALVE COYOTE**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

302	3.630	3.650	5.933	1.167	0.866	10.2cc	401	57cc							
304	3.640						402	12.6			2618	0.250	0.0025	0.0033	930258130 *
								12.6							930258140 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

**FORD 5.0L MODULAR 4-VALVE COYOTE / VOODOO (Combined Dome/Pocket Geometry)**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

302	3.630	3.650	5.933	1.167	0.866	3.0cc	389	57cc			M142P	0.250	0.0006	0.0014	930258030 **
304	3.640						392	11.2							930258040 **
302	3.630					-4.5cc	383	10.1			M142P	0.250	0.0006	0.0014	930134030 **
304	3.640						386	10.1							930134040 **
302	3.630					-13.1cc	358	9.1			2618	0.250	0.0025	0.0033	930258230 *
304	3.640						361	9.1							930258240 *
314	3.701					-1cc	370	11.0			2618	0.250	0.0025	0.0033	930258601 **

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

\*\*Hard Anodized Top Ring Groove for Extreme Duty Applications

**FORD 5.0L MODULAR COYOTE Gen 3 Direct Injected (2018+) DROP-IN FORGED REPLACEMENT ASSEMBLY**

NO BALANCING, NO COMP RATIO CHANGE

CR calculated at 0.015" below deck and 0.040" head gasket thickness

Uses OE-style rings for PTWA bores and includes DLC wrist pins

1.2, 1.2, 2.0mm File Fit Performance Ring Set Included

308	3.662	3.650	5.933	1.167	0.866	8.4cc	373	56cc							
								12.0			2618	0.500	0.0020	0.0028	930258362 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

**FORD 5.0L MODULAR COYOTE Gen 3 Direct Injected (2018+)**

CR calculated at 0.015" below deck and 0.040" head gasket thickness

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included

308	3.662	3.650	5.933	1.167	0.866	-1.5cc	383	56cc							
								10.4			2618	0.500	0.0020	0.0028	930258762 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

**NHRA LEGAL FORD 5.0L MODULAR 4-VALVE (2014, 2015 COBRA JET)**

Available in bore sizes up to the legal NHRA limit of +0.080" oversize; call for sizes/other tech; NHRA PN 197736200

Requires 1.2, 1.2, 2.5mm Ring Set (Not Included)

302	3.630	3.650	5.933	1.167	0.866	-8.8cc	350	57cc							
306	3.650						356	9.5			2618	0.500	0.0025	0.0033	197736230 *
314	3.700						372	9.6							197736250 *
314	3.702						373	9.8							197736200 *
315	3.705						374	9.8							197736202 *
315	3.707						374	9.9							197736205 *
316	3.710						375	9.9							197736207 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	
<b>NHRA LEGAL FORD 5.0L MODULAR 4-VALVE (2016 COBRA JET)</b>													
Available in bore sizes up to the legal NHRA limit of +0.080" oversize; call for sizes/other tech; NHRA PN 930049900													
Requires 1.2, 1.2, 2.5mm Ring Set (Not Included)													
302	3.630	3.650	5.933	1.167	0.866	7.3cc	377	12.0	2618	0.500	0.0016	0.0023	930049930 *
306	3.650						384	12.1					930049950 *
314	3.700						400	12.3					930049900 *
314	3.702						401	12.3					930049902 *
315	3.705						402	12.4					930049905 *
315	3.707						402	12.4					930049907 *
316	3.710						403	12.4					930049910 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

### FORD 5.2L VOODOO DROP-IN FORGED REPLACEMENT ASSEMBLY NO BALANCING, NO COMP RATIO CHANGE

1.0, 1.0, 2.0mm Performance Ring Set Included

Accepts Aftermarket rectangular rod or OE tapered small end

CR calculated at 0.012" below deck and 0.039" head gasket thickness

315	3.701	3.661	5.933	1.161	0.827	7.8cc	380	12.0	M142P	0.250	0.0010	0.0018	930258401
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### FORD FLATHEAD - 3/16" STANDARD DOME

1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

Compression ratio calculated with 14cc gasket volume and 6cc relief volume

								65cc	74cc					
276	3.312	4.000	7.000	1.438	0.750	12.8cc	346	8.8	7.9	4032	0.500	0.0016	0.0023	930074712
281	3.342						357	9.0	8.1					930074742
286	3.375						369	9.1	8.2					930074775
284	3.312	4.125	7.000	1.375	0.750	12.8cc	332	9.1	8.2	4032	0.500	0.0016	0.0023	930074812
290	3.342						342	9.2	8.3					930074842
295	3.375						353	9.4	8.4					930074875

\*Top ring land is .280" tall to accommodate relieved blocks

### BIG BLOCK FORD for Std Valve Location CYLINDER HEADS (FoMoCo, Edelbrock, TFS, Blue Thunder, Etc.)

1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

								72cc	80cc	84cc					
503	4.390	4.150	6.700	1.525	0.990	-28cc	533	10.4	9.7	9.4	4032	0.500	0.0041	0.0049	930246490
514	4.440						556	10.6	9.9	9.6					930246440
521	4.390	4.300	6.800	1.350	0.990	-3.3cc	542	13.5	12.4	12.0	2618	0.500	0.0055	0.0063	930261690
533	4.440						564	13.8	12.7	12.2					930261640
521	4.390					-38cc	506	9.9	9.3	9.1	4032	0.500	0.0041	0.0049	930245690
533	4.440						527	10.1	9.5	9.3					930245640
545	4.390	4.500	6.700	1.350	0.990	-3cc	542	14.1	13.0	12.5	2618	0.500	0.0055	0.0063	930261690
557	4.440						564	14.4	13.2	12.7					930261640
545	4.390					-38cc	506	10.3	9.7	9.5	4032	0.500	0.0041	0.0049	930245690
557	4.440						527	10.5	9.9	9.6					930245640

### BIG BLOCK FORD for the SCJ, KAASE P-51 / SR-71® & AFR 14° BULLIT CYLINDER HEADS

1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

								72cc	80cc	84cc					
503	4.390	4.150	6.700	1.525	0.990	-5.6cc	567	12.8	11.8	11.3	2618	0.500	0.0055	0.0063	930261790
514	4.440						607	13.0	12.0	11.6					930261740
503	4.390					-28cc	537	10.4	9.7	9.4	4032	0.500	0.0041	0.0049	930261990
514	4.440						560	10.6	9.9	9.6					930261940
528	4.500						587	10.8	10.1	9.8					930261900
521	4.390	4.300	6.800	1.350	0.990	-5.6cc	552	13.2	12.2	11.7	2618	0.500	0.0055	0.0063	930261890
533	4.440						574	13.4	12.4	11.9					930261840
521	4.390					-38cc	506	9.9	9.3	9.1	4032	0.500	0.0041	0.0049	930245690
533	4.440						527	10.1	9.5	9.3					930245640
547	4.500						553	10.3	9.7	9.8					930245600
547	4.500					-5.6cc	587	13.7	12.7	12.2	2618	0.500	0.0055	0.0063	930262000
545	4.390	4.500	6.700	1.350	0.990	-5.6cc	552	13.8	12.7	12.2	2618	0.500	0.0055	0.0063	930261890
557	4.440						574	14.0	12.9	12.4					930261840
545	4.390					-38cc	506	10.3	9.7	9.5	4032	0.500	0.0041	0.0049	930245690
557	4.440						527	10.5	9.9	9.6					930245640
573	4.500						553	10.7	10.1	9.9					930245600
573	4.500					-5.6cc	587	14.3	13.2	12.7	2618	0.500	0.0055	0.0063	930262000

### BIG BLOCK FORD for the KAASE BOSS NINE® CYLINDER HEAD

1.5, 1.5, 3.0mm File Fit Performance Ring Set Included

								88cc						
521	4.390	4.300	6.800	1.345R	0.990	-8.4cc	602	11.0		4032	0.250	0.0041	0.0049	930022790
547	4.500					-19cc	601	10.5		4032	0.250	0.0041	0.0049	197895500
545	4.390	4.500	6.700	1.345R	0.990	-8.4cc	602	11.5		4032	0.250	0.0041	0.0049	930022790
573	4.500					-19cc	601	11.0		4032	0.250	0.0041	0.0049	197895500

Compression Heights with "R" INCLUDE Oil Support Rails

Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.

"Min" and "Max" is the suggested range of clearance over the coating for each application.

Compression Ratio - calculated at zero deck and 0.040" gasket unless otherwise noted

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	
<b>FORD GODZILLA 7.3L</b>													
CR calculated at 0.011" below deck and 10.5cc head gasket volume													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
445	4.221	3.976	6.319	1.319	0.990	-20.5cc	500	10.5	2618	0.500	0.0046	0.0054	930266421 *
446	4.225						501	10.6					930266425 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

**FORD FE FLAT TOP**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
								68cc	72cc	76cc					
416	4.080	3.980	6.490	1.665	0.975	-7.5cc	516	11.1	10.7	10.3	4032	0.500	0.0025	0.0033	930264080
431	4.080	4.125	6.700	1.390	0.990	-7.5cc	483	11.5	11.0	10.6	4032	0.500	0.0025	0.0033	930264280
434	4.090						487	11.6	11.1	10.6					930264290
445	4.080	4.250	6.700	1.325	0.990	-7.4cc	473	11.8	11.3	10.9	4032	0.500	0.0025	0.0033	930264680
447	4.090						477	11.9	11.4	10.9					930264690
462	4.160						505	12.2	11.7	11.2	4032	0.500	0.0025	0.0033	930265160
464	4.170						509	12.3	11.8	11.3					930265170
482	4.250					-8.8cc	498	12.5	12.0	11.5	4032	0.500	0.0041	0.0049	930266050
487	4.270						506	12.6	12.1	11.6					930266070
489	4.280						510	12.6	12.1	11.6					930266080

**FORD FE DISH**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
								68cc	72cc	76cc					
431	4.080	4.125	6.700	1.390	0.990	-26cc	511	9.6	9.3	9.0	4032	0.500	0.0025	0.0033	930264180
433	4.090						516	9.7	9.3	9.0					930264190
445	4.080	4.250	6.700	1.325	0.990	-18cc	491	10.6	10.2	9.9	4032	0.500	0.0025	0.0033	930264480
447	4.090						496	10.7	10.3	9.9					930264490
449	4.100						500	10.7	10.3	10.0					930264400
462	4.160					-20cc	519	10.8	10.4	10.0	4032	0.500	0.0025	0.0033	930265060
464	4.170						523	10.8	10.4	10.1					930265070
482	4.250					-20cc	519	11.2	10.8	10.4	4032	0.500	0.0041	0.0049	930264550
487	4.270						527	11.2	10.8	10.5					930264570
489	4.280						531	11.3	10.9	10.5					930264580
445	4.080					-28cc	495	9.7	9.4	9.1	4032	0.500	0.0025	0.0033	930264980
447	4.090						499	9.7	9.4	9.1					930264990

**SMALL BLOCK MOPAR (LA) / 340, 360 FLAT TOP**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
								60cc	65cc	70cc					
345	4.070	3.313	6.123	1.804	0.984	-5.5cc	512	10.5	9.9	9.4	4032	0.500	0.0025	0.0033	930270070
365	4.030	3.580	6.123	1.670	0.984	-5.5cc	480	11.1	10.5	9.9	4032	0.500	0.0025	0.0033	930270130
367	4.040						484	11.2	10.5	10.0					930270140
408	4.030	4.000	6.123	1.460	0.984	-5.5cc	454	12.3	11.6	11.0	4032	0.500	0.0025	0.0033	930270230
410	4.040						458	12.4	11.6	11.0					930270240
416	4.070						470	12.5	11.8	11.1					930270270

**SMALL BLOCK MOPAR (LA) / 340, 360 DISH**

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included															
								60cc	65cc	70cc					
408	4.030	4.000	6.123	1.460	0.984	-28cc	487	9.7	9.2	8.9	2618	0.500	0.0046	0.0054	930271130
410	4.040						492	9.7	9.3	8.9					930271140
416	4.070						505	9.8	9.4	9.0					930271170
408	4.030					-16cc	480	10.9	10.4	9.9	4032	0.500	0.0025	0.0033	930271030
410	4.040						484	11.0	10.4	9.9					930271040
414	4.060						492	11.0	10.5	10.0					930271060

**BIG BLOCK MOPAR (B) / 383, 400 FLAT TOP**

1.5, 1.5, 3.0mm File Fit Performance Ring Set Included															
								72cc	80cc	84cc					
432	4.280	3.750	6.760	1.320	0.990	-8.1cc	486	10.9	10.1	9.7	4032	0.500	0.0041	0.0049	930274080
438	4.310						499	11.0	10.2	9.8					930274010
451	4.375						506	11.3	10.4	10.1	4032	0.500	0.0041	0.0049	930274175
454	4.390						512	11.3	10.5	10.1					930274190
499	4.375	4.150	6.760	1.120R	0.990	-8.1cc	466	12.4	11.4	11.0	4032	0.350	0.0041	0.0049	929962275
503	4.390						472	12.4	11.5	11.1					929962290

Compression Heights with "R" INCLUDE Oil Support Rails

**Meas.** = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.  
 "Min" and "Max" is the suggested range of clearance over the coating for each application.  
**Compression Ratio** - calculated at zero deck and 0.040" gasket unless otherwise noted

Cubic Inches	Bore Inches	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas. Min Max			Part No.
								72cc	80cc	84cc					
<b>BIG BLOCK MOPAR (RB) / 440 FLAT TOP</b>															
<b>1.5, 1.5, 3.0mm File Fit Performance Ring Set Included</b>															
446	4.350	3.750	6.760	2.065	0.990	-8.1cc	608	11.2	10.3	10.0	4032	0.350	0.0041	0.0049	929962750
451	4.375						621	11.3	10.4	10.1					929962775
493	4.350	4.150	6.760	1.865	0.990	-8.1cc	580	12.2	11.3	10.9	4032	0.350	0.0041	0.0049	929962650
499	4.375						592	12.4	11.4	11.0					929962675
505	4.350	4.250	7.100	1.475	0.990	-8.1cc	519	12.5	11.6	11.2	4032	0.350	0.0041	0.0049	929962550
511	4.375						530	12.6	11.7	11.3					929962575
520	4.350	4.375	7.100	1.412	0.990	-8.1cc	509	12.9	11.9	11.5	4032	0.350	0.0041	0.0049	929962450
535	4.350	4.500	7.100	1.350	0.990	-8.1cc	500	13.2	12.2	11.8	4032	0.350	0.0041	0.0049	929962350
541	4.375						510	13.3	12.3	11.9					929962375

### BIG BLOCK MOPAR (RB) / 440 DISH

<b>1.5, 1.5, 3.0mm File Fit Performance Ring Set Included</b>															
493	4.350	4.150	6.760	1.865	0.990	-24.6cc	603	10.5	9.8	9.5	4032	0.350	0.0041	0.0049	930272150
499	4.375						615	10.6	9.9	9.6					930272175

### HEMI 5.7L - compatible with all 5.7L and 6.1L heads

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>															
<b>CR calculated at 0.016" below deck and 0.027" head gasket thickness</b>															
								65cc	74cc	85cc					
345	3.917	3.579	6.242	1.205	0.927	10.2cc	438	12.2	10.8	9.5	2618	0.500	0.0036	0.0044	930276017 *
347	3.927						442	12.2	10.8	9.5					930276027 *
349	3.937						445	12.3	10.9	9.6					930276037 *
350	3.947						448	12.3	10.9	9.6					930276047 *
366	3.917	3.800	6.125	1.205	0.927	10.2cc	438	12.6	11.2	9.9	2618	0.500	0.0036	0.0044	930276017 *
368	3.927						442	12.7	11.3	9.9					930276027 *
370	3.937						445	12.7	11.3	10.0					930276037 *
372	3.947						448	12.8	11.3	10.0					930276047 *
392	3.927	4.050	6.125	1.095R	0.927	-2.2cc	405	11.6	10.5	9.4	4032	0.250	0.0025	0.0033	930276227
394	3.937						408	11.7	10.5	9.4					930276237
396	3.947						411	11.7	10.6	9.5					930276247
392	3.927					6cc	426	12.9	11.5	10.2	4032	0.250	0.0025	0.0033	930276327
394	3.937						429	13.0	11.6	10.2					930276337
396	3.947						432	13.0	11.6	10.3					930276347

Compression Heights with "R" INCLUDE Oil Support Rails

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

3.800 / 6.125 CR calculated at 0.022" below deck and 0.027" head gasket thickness

### HEMI 6.1L DROP-IN FORGED REPLACEMENT ASSEMBLY NO BALANCING, NO COMP RATIO CHANGE

Also works with 6.4L CYLINDER HEAD

<b>1.0, 1.0, 2.0mm Drop-in Performance Ring Set Included</b>															
<b>CR calculated at 0.013" above deck and 0.041" head gasket thickness</b>															
370	4.055	3.580	6.242	1.220	0.984	-1cc	441	10.4			4032	0.250	0.0025	0.0033	930111655 *

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

### HEMI 6.1L

Also works with 6.4L CYLINDER HEAD

NOTE : Piston oil squirter removal and block-off is required due to con rod contact with OE squirter

<b>1.0, 1.0, 2.0mm File Fit Performance Ring Set Included</b>															
								74cc							
370	4.055	3.580	6.242	1.220	0.984	-1cc	450	10.1			2618	0.250	0.0046	0.0054	930277855 *
371	4.060						452	10.1							930277860 *
370	4.055					-1cc	441	10.1			4032	0.250	0.0025	0.0033	930277655 **
371	4.060						442	10.1							930277660 **
420	4.065	4.050	6.125	1.095R	0.927	-12cc	422	10.1			4032	0.250	0.0025	0.0033	930277565 *
424	4.080						427	10.2							930277580 *
426	4.090						431	10.2							930277590 *

Compression Heights with "R" INCLUDE Oil Support Rails

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

\*\*Available In Multiple Alloys

### NHRA LEGAL 6.1L HEMI

Available in bore sizes up to the legal NHRA limit of +0.080" oversize; call for sizes/other tech

<b>Requires 1.5, 1.5, 3.0mm Ring Set (Not Included)</b>															
								74cc							
370	4.055	3.580	6.200	1.262	0.927	10.5cc	524	Dependent Upon Bore Size			2618	0.250	0.0046	0.0054	9299871 *
370	4.055		6.242	1.220	0.984	-1cc	426	Dependent Upon Bore Size			4032	0.250	0.0025	0.0033	197729300 **
371	4.060														197729300 **

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

\*\*Hard Anodized Top Ring Groove For Extreme Duty Applications

Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt.

"Min" and "Max" is the suggested range of clearance over the coating for each application.

Compression Ratio - calculated at zero deck and 0.040" gasket unless otherwise noted

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	
<b>HEMI 6.4L DROP-IN FORGED REPLACEMENT ASSEMBLY NO BALANCING, NO COMP RATIO CHANGE</b>													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.010" below deck and 0.035" head gasket thickness													
392	4.090	3.724	6.200	1.211	0.945	3.6cc	453	11.0	4032	0.250	0.0025	0.0033	930279090 *
392	4.095						454	11.0					930279095 *
393	4.100						456	11.0					930279000 *
*Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>NHRA LEGAL 6.4L HEMI</b>													
Available in bore sizes up to the legal NHRA limit of +0.080" oversize; call for sizes/other tech													
Requires 1.2, 1.2, 2.0mm Ring Set (Not Included)													
CR calculated at 0.013" below deck and 0.027" head gasket thickness													
392	4.091	3.724	6.200	1.211	0.945	3.6cc	444	Dependent Upon Bore Size	4032	0.250	0.0025	0.0033	197729200 *
*Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>TOP ALCOHOL HEMI</b>													
0.290" dome height, 0.330" Intake / 0.315" Exhaust pocket depths													
1/16", 1/16", 3/16" File Fit Performance Ring Set Included													
CR calculated at 0.013" below deck and 0.027" head gasket thickness													
527	4.4675	4.200	7.280/7.310	1.425B	1.094	17.6cc	760	12.6	2618	0.500	0.0046	0.0054	197884168
Compression Heights with "B" INCLUDE pin retaining buttons													
<b>SMALL BLOCK OLDSMOBILE 350 FLAT TOP</b>													
Note: 0.984" Pin Ø requires stock 0.980" rod to be honed													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.013" below deck and 0.027" head gasket thickness													
351	4.065	3.385	6.000	1.625	0.984	-10.2cc	502	9.6 9.1 8.4	4032	0.500	0.0025	0.0033	197815365
358	4.100						520	9.7 9.2 8.5					197815300
367	4.155					-10.1cc	521	10.0 9.5 8.7	4032	0.500	0.0025	0.0033	197816355
<b>BIG BLOCK OLDSMOBILE 455 Stroker DISH</b>													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.013" below deck and 0.027" head gasket thickness													
488	4.155	4.500	7.100	1.260	0.990	-22.0cc	491	10.7 10.0 9.7	4032	0.500	0.0025	0.0033	930274555
495	4.185						503	10.8 10.1 9.8					930274585
<b>BIG BLOCK PONTIAC 455 Stroker FLAT TOP</b>													
Note: Top ring distance (Fireland) 0.236", will NOT work in 400 blocks w/ reliefs													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.013" below deck and 0.027" head gasket thickness													
461	4.155	4.250	6.800	1.285	0.990	-6.4cc	529	11.8 10.9 10.5	4032	0.250	0.0025	0.0033	930275055
468	4.185						542	12.0 11.0 10.6					930275085
488	4.155	4.500	6.800	1.160	0.990	-6.4cc	506	12.5 11.5 11.1	4032	0.250	0.0025	0.0033	930275155
495	4.185						517	12.6 11.6 11.2					930275185

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- Obsolete / Closeout Inventory

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
									Meas.	Min	Max	

## Sport Compact PowerPak Applications

### AUDI DAZA / DNWA RS3 TTRS 2.5L TURBO

1.0, 1.2, 2.8mm Performance Ring Set Included

CR calculated at zero deck and 0.8mm head gasket thickness 45.6cc

82.50mm	92.8mm	144mm	29.6mm	22mm	-5.0cc	322	10.0	M142P	0.250	0.0016	0.0024	197915148 *
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\*M142P Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW N14 1.6L MINI COOPER S

1.0, 1.2, 2.8mm Performance Ring Set Included

CR calculated at zero deck and 0.8mm head gasket thickness Stock

77.50mm	85.8mm	138.2mm	28.5mm	20mm	-1.1cc	273	10.3	M142P	0.385	0.0008	0.0016	930067351
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### BMW M54 B30 3.0L E46 (0.005" oversize)

1.2, 1.5, 2.0mm Performance Ring Set Included

CR calculated at zero deck and 0.8mm head gasket thickness Stock

84.127mm	89.6mm	135mm	28.32mm	22mm	0cc	304	10.5	4032	0.250	0.0010	0.0018	197843112
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### BMW N54 B30 3.0L

1.0, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.75mm above deck and 1.22mm head gasket thickness 34cc

84.00mm	89.6mm	145.05mm	31.7mm	22mm	-17.2cc	314	10.2	2618	0.250	0.0025	0.0033	197832209 *
84.50mm						320	10.3					197832225 *
84.00mm					-21.5cc	308	9.5	2618	0.250	0.0025	0.0033	197841309 *
84.50mm						314	9.6					197841325 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW S55 3.0L F80, M3, M4

1.0, 1.2, 2.8mm Performance Ring Set Included

CR calculated at zero deck and 0.8mm head gasket thickness Stock

84.00mm	89.6mm	144.35mm	32.4mm	22mm	-10.5cc	325	10.2	2618	0.250	0.0021	0.0029	197879807 *
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\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW B58 3.0L (Toyota Supra 2020+)

1.2, 1.5, 2.0mm Performance Ring Set Included

CR calculated at zero deck and 0.8mm head gasket thickness 36cc

82.00mm	94.6mm	148.2mm	33.27mm	22mm	-11.0cc	299	10.6	2618	0.500	0.0025	0.0033	197883929 *
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\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW S52 B32 3.2L E36 M3

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.8mm above deck and 1.73mm head gasket thickness 35.2cc

86.60mm	89.6mm	135mm	31mm	22mm	-25.0cc	304	9.0	2618	0.395	0.0016	0.0024	930024709 *
86.60mm					-11.0cc	324	11.2	4032	0.395	0.0006	0.0014	930024409 **
86.60mm					-5.0cc	342	12.5	4032	0.395	0.0006	0.0014	930024609 **

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

\*\*Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW S54 B32 3.2L E46 M3

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.20mm below deck and 0.69mm head gasket thickness 33cc

87.50mm	91.0mm	139mm	32.3mm	21mm	-29.0cc	334	9.1	2618	0.250	0.0020	0.0027	930000045 *
87.00mm					-13.1cc	337	11.5	2618	0.250	0.0020	0.0027	930286125 *
87.25mm						340	11.6					930286135 *
87.50mm						343	11.6					930286145 *
87.25mm					-9.2cc	354	12.5	2618	0.250	0.0020	0.0027	930000135 *
87.50mm						357	12.5					930000145 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW S65 B40 4.0L

1.2, 1.2, 2.5mm Performance Ring Set Included

CR calculated at 0.28mm below deck and 0.59mm head gasket thickness 51cc

92.00mm	75.2mm	140.7mm	27.3mm	21mm	2.1cc	366	10.1	4032	0.500	0.0010	0.0018	197843322 *
92.50mm						372	10.2					197843342 *
92.00mm					12.2cc	366	12.2	4032	0.500	0.0010	0.0018	197843622 *
92.50mm						372	12.3					197843642 *

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

### BMW S85 B50 5.0L (V10)

1.2, 1.2, 2.5mm Performance Ring Set Included

CR calculated at 0.28mm below deck and 0.59mm head gasket thickness 51cc

92.00mm	75.2mm	140.7mm	27.3mm	21mm	2.1cc	366	10.1	4032	0.500	0.0010	0.0018	197859522 *
92.50mm						372	10.2					197859542 *
92.00mm					12.2cc	366	12.2	4032	0.500	0.0010	0.0018	197859622 *
92.50mm						372	12.3					197859642 *

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.	
									Meas.	Min	Max		
<b>FORD EcoBoost 1.6L</b>													
1.2, 1.2, 2.0mm Performance Ring Set Included													
CR calculated at 0.55mm below deck and 2.5cc gasket volume							32.8cc						
79.00mm	81.4mm	134mm	28.6mm	21mm	-6cc	284	10.1	2618	0.250	0.0016	0.0023	197894710 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>FORD ST EcoBoost 2.0L</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.78mm below deck and 5.78cc gasket volume							43cc						
87.51mm	83.1mm	155.87mm	32.8mm	22.5mm	-7.0cc	365	9.3	4032	0.400	0.0006	0.0014	197713945 **	
88.00mm						372	9.4					197713965 **	
87.51mm	83.1mm	155.87mm	32.8mm	22.5mm	-7.0cc	376	9.3	2618	0.400	0.0016	0.0023	197729445 *	
88.00mm						383	9.4					197729465 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.													
**Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>FORD Zetec 2.0L SCCA</b>													
Per Regulation, Requires OEM 1.5, 1.75, 3.0mm Rings (2S4Z-6148-AA), Not Included													
121	3.339	3.460	5.483	1.157	0.787	-2.6cc	307	Stock	4032	0.500	0.0006	0.0014	930169439
<b>FORD EcoBoost 2.3L</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 1.9mm below deck and 5.78cc gasket volume							43cc						
87.51mm	94.0mm	149.3mm	32.8mm	22.5mm	-6.5cc	376	9.5	2618	0.395	0.0016	0.0023	197755345 *	
88.00mm						382	9.6					197755365 **	
87.51mm	94.0mm	149.3mm	32.8mm	22.5mm	-6.5cc	365	9.5	4032	0.400	0.0006	0.0014	197937145 **	
88.00mm						371	9.6					197937165 **	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.													
**Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>HONDA / ACURA B16, A1, A2, A3 DOHC VTEC 1.6L</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.55mm below deck and 0.66mm head gasket thickness							42cc						
81.50mm	77.4mm	134mm	30mm	21mm	1.0cc	290	9.5	4032	0.236	0.0016	0.0024	929112109	
81.50mm					9.1cc	312	11.3	4032	0.236	0.0016	0.0024	929114709	
<b>HONDA / ACURA B18C1 DOHC VTEC 1.8L</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.89mm below deck and 0.66mm head gasket thickness							41cc						
81.50mm	87.2mm	137.9mm	30mm	21mm	1.0cc	290	10.5	4032	0.236	0.0016	0.0024	929112109	
81.50mm					9.1cc	312	12.4	4032	0.236	0.0016	0.0024	929114709	
<b>HONDA / ACURA RSX K20 2.0L</b>													
Dome & Pockets also compatible with K24 CYLINDER HEAD													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 0.64mm head gasket thickness							51cc						
86.00mm	86mm	139mm	30mm	22mm	11.8cc	329	12.6	4032	0.236	0.0016	0.0024	929170986	
86.50mm						333	12.8					929170905	
<b>HONDA / ACURA K24 2.4L</b>													
Dome & Pockets also compatible with K20 CYLINDER HEAD													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.2mm below deck and 0.64mm head gasket thickness							51cc						
87.00mm	99.0mm	152.0mm	30mm	22mm	-9.4cc	312	10.0	2618	0.236	0.0025	0.0033	930286225	
87.25mm						315	10.0					930286235	
87.50mm						318	10.0					930286245	
87.00mm					4.3cc	320	12.4	4032	0.236	0.0016	0.0024	930024125	
87.25mm						321	12.4					930024135	
<b>HONDA H22 GOLD SERIES 2.2L- FOR USE IN FACTORY FRM (FIBER REINFORCED MATRIX) CYLINDERS ONLY</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.15mm below deck and 0.66mm head gasket thickness							54cc						
87.00mm	90.7mm	143mm	31mm	22mm	-7.0cc	293	9.2	4032	0.236	0.0016	0.0024	930081525	
87.25mm						296	9.2					930081535	
87.00mm					-1.0cc	309	10.0	4032	0.236	0.0016	0.0024	930082325	
87.25mm						310	10.1					930082335	
87.00mm					9.8cc	335	12.0	4032	0.236	0.0016	0.0024	930083125	
87.25mm						338	12.1					930083135	



Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.	
									Meas.	Min	Max		
<b>HONDA S2000 F20C 2.0L GOLD SERIES - FOR USE IN FACTORY FRM (FIBER REINFORCED MATRIX) CYLINDERS ONLY</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included, Designed for Aftermarket Rods													
CR calculated at 1.0mm above deck and 0.76mm head gasket thickness							54cc						
87.00mm	84.0mm	153mm	30mm	23mm	9.0cc	331	12.5	4032	0.375	0.0006	0.0014	929986125 **	
87.25mm						334	12.5					929986135 **	
<b>87.00mm</b>						<b>-11.0cc 303</b>	<b>8.9</b>	<b>2618</b>	<b>0.375</b>	<b>0.0016</b>	<b>0.0024</b>	<b>929986425 *</b>	
87.25mm						306	8.9					929986435 *	

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

\*\*Hard Anodized Top Ring Groove For Extreme Duty Applications

**HONDA S2000 F22C 2.2L GOLD SERIES - FOR USE IN FACTORY FRM (FIBER REINFORCED MATRIX) CYLINDERS ONLY**

1.2, 1.2, 2.8mm Performance Ring Set Included, Designed for Aftermarket Rods

CR calculated at 1.0mm above deck and 0.76mm head gasket thickness

54cc

87.00mm	90.7mm	149.65mm	30mm	23mm	9.0cc	331	13.4	4032	0.375	0.0006	0.0014	929986125 **
87.25mm						334	13.4					929986135 **
<b>87.00mm</b>						<b>-11.0cc 303</b>	<b>9.5</b>	<b>2618</b>	<b>0.375</b>	<b>0.0016</b>	<b>0.0024</b>	<b>929986425 *</b>
87.25mm						306	9.5					929986435 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

\*\*Hard Anodized Top Ring Groove For Extreme Duty Applications

**MAZDA MZR 2.3L DISI**

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.5mm below deck and 4.69cc gasket volume

44cc

87.50mm	94.0mm	150.622mm	32.87mm	22.5mm	-15.3cc	364	9.5	2618	0.250	0.0016	0.0024	197723845 *
88.00mm						370	9.6					197723865 *
87.50mm						353	9.5	4032	0.250	0.0006	0.0014	197786145 **
88.00mm						359	9.6					197786165 **

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications.

\*\*Hard Anodized Top Ring Groove

**MITSUBISHI 4G63 2.0L 93-02 ECLIPSE 03-09 LANCER EVO**

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.3mm below deck and 1.3mm head gasket thickness

47cc

85.00mm	88.0mm	150mm	34.7mm	22mm	-10.0cc	305	8.6	4032	0.236	0.0016	0.0024	930130046
85.50mm						311	8.7					930130066
86.00mm						318	8.7					930130086
<b>85.50mm</b>						<b>-10.0cc 315</b>	<b>8.7</b>	<b>2618</b>	<b>0.236</b>	<b>0.0025</b>	<b>0.0033</b>	<b>929925866 *</b>
<b>86.00mm</b>						<b>321</b>	<b>8.7</b>					<b>929925885 *</b>
<b>85.50mm</b>	<b>94.0mm</b>	<b>150mm</b>	<b>31.7mm</b>	<b>22mm</b>	<b>-11.9cc</b>	<b>312</b>	<b>8.9</b>	<b>2618</b>	<b>0.236</b>	<b>0.0025</b>	<b>0.0033</b>	<b>930143666 *</b>
<b>86.00mm</b>						<b>318</b>	<b>9.0</b>					<b>930143685 *</b>
85.50mm	100.0mm	150mm	28.7mm	22mm	-18.6cc	276	8.7	4032	0.236	0.0016	0.0024	930131866
86.00mm						282	8.8					930131886
85.50mm						280	8.7	2618	0.236	0.0025	0.0033	929990666 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

**MITSUBISHI 4B11T EVO X 2.0L**

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at zero deck and 1.02mm head gasket thickness

49cc

86.00mm	86.0mm	143.75mm	33.37mm	23mm	-4.5cc	331	9.4	2618	0.500	0.0025	0.0033	929945985 *
86.50mm						337	9.5					929945905 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

**NISSAN SR20DET (SILVIA) 2.0L**

NOTE : Must check oil squirter clearance, possible modification needed.

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.47mm below deck and 1.09mm head gasket thickness

46.5cc

86.50mm	86.0mm	136mm	31.83mm	22mm	-11.5cc	309	8.5	4032	0.236	0.0016	0.0024	930101105
87.00mm						313	8.6					930101125

**NISSAN RB25DET (SKYLINE) 2.5L**

NOTE : Must check oil squirter clearance, possible modification needed.

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.15mm above deck and 0.99mm head gasket thickness

62cc

86.50mm	71.7mm	121.5mm	31.3mm	21mm	11.5cc	353	8.5	4032	0.236	0.0016	0.0024	929811650
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**NISSAN RB26DETT (SKYLINE) 2.6L**

NOTE : Must check oil squirter clearance, possible modification needed.

1.2, 1.2, 2.8mm Performance Ring Set Included

CR calculated at 0.1mm above deck and 1.57mm head gasket thickness

65cc

86.50mm	73.7mm	121.5mm	30.25mm	21mm	16.0cc	366	8.5	2618	0.236	0.0031	0.0039	930110205 *
87.00mm						372	8.6					930110225 *

\*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.	
									Meas.	Min	Max		
<b>NISSAN RB30E/RB30ET (SKYLINE) 3.0L</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.5mm below deck and 1.0mm head gasket thickness							58cc						
86.50mm	85.0mm	152.5mm	32.5mm	21mm	-4.3cc	323	8.0	4032	0.236	0.0016	0.0024	929810950	
86.50mm						332	8.0	2618	0.236	0.0031	0.0039	929994605 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>NISSAN VQ35DET (350z, INFINITI G35) 3.5L</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
CR calculated at zero deck and 1.14mm head gasket thickness							56cc						
95.50mm	81.4mm	144.1mm	29.6mm	22mm	-5.0cc	388	9.4	4032	0.250	0.0016	0.0024	929809360	
<b>NISSAN VR38DETT (GT-R) 3.8L</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
CR calculated at 0.45mm below deck and 1.0mm head gasket thickness							64cc						
95.51mm	88.4mm	165.1mm	34.25mm	23mm	-3.6cc	422	9.1	2618	0.500	0.0025	0.0033	929942860 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>NISSAN VR38DETT (GT-R) Stroker 4.1L</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
CR calculated at 0.45mm below deck and 1.0mm head gasket thickness							64cc						
95.51mm	94.4mm	165.1mm	31.25mm	23mm	-4.8cc	407	9.5	2618	0.250	0.0025	0.0033	930285660 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>SUBARU 2.0L EJ20</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
CR calculated at 0.3mm below deck and 0.6mm head gasket thickness							49cc						
92.00mm	75.0mm	130.5mm	32.7mm	23mm	-12.0cc	346	8.4	4032	0.235	0.0021	0.0029	930020322	
92.50mm						352	8.5					930020342	
93.00mm						359	8.6					930020362	
92.50mm						362	8.5	2618	0.235	0.0031	0.0039	929927942 *	
93.00mm						369	8.6					929927961 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>SUBARU 2.2L EJ20 STROKER</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
CR calculated at 0.7mm below deck and 0.6mm head gasket thickness							49cc						
92.50mm	79.0mm	130.5mm	30.3mm	23mm	-16.0cc	337	8.2	4032	0.235	0.0021	0.0029	929847842	
93.00mm						344	8.3					929847861	
92.00mm						340	8.1	2618	0.235	0.0031	0.0039	929928122 *	
92.50mm						347	8.2					929928142 *	
93.00mm						354	8.3					929928161 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>SUBARU FA20 TURBO</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.2mm below deck and 0.61 x 89.5mm head gasket							40cc						
86.00mm	86.0mm	129.3mm	32.5mm	22mm	-8.0cc	320	10.5	2618	0.500	0.0021	0.0029	197769285 *	
86.50mm						326	10.6					197769205 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>SUBARU WRX 2.5L STI, FORESTER, LEGACY</b>													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.3mm below deck and 0.6mm head gasket thickness							50cc	56cc					
99.50mm	79.0mm	130.5mm	30.7mm	23mm	-19.3cc	398	9.1	8.5	4032	0.250	0.0021	0.0029	930285017
99.75mm						401	9.1	8.5					930285027
100.0mm						405	9.1	8.5					930285037
99.50mm						409	9.1	8.5	2618	0.250	0.0031	0.0039	930285117 *
99.75mm						413	9.1	8.5					930285127 *
100.0mm						417	9.1	8.5					930285137 *
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>SUBARU WRX 2.5L STI, BOXED STRUT CONSTRUCTION</b>													
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included													
CR calculated at 0.3mm below deck and 0.6mm head gasket thickness							50cc	56cc					
99.50mm	79.0mm	130.5mm	30.7mm	23mm	-14.1cc	403	9.6	9.0	2618	0.250	0.0031	0.0039	930285417 *
99.75mm						406	9.7	9.0					930285427 *
100.00mm						409	9.7	9.0					930285437 *
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>TOYOTA 2ZZ-GE (CELICA GT-S) 1.8L</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at 0.5mm below deck and 0.48mm head gasket thickness							38cc						
82.01mm	85.0mm	137.9mm	31.2mm	20mm	-12.0cc	298	9.1	4032	0.250	0.0016	0.0024	929833600	
82.01mm					4.3cc	330	12.5	4032	0.250	0.0016	0.0024	929833700	

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.	
									Meas.	Min	Max		
<b>TOYOTA 3S-GTE 2.0L 90-95 MR2 TURBO</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
							51cc						
86.50mm	86.0mm	138mm	35.0mm	22mm	-4.1cc	343	9.0	4032	0.236	0.0016	0.0024	929807705	
<b>TOYOTA 2JZ-GTE (SUPRA) 3.0L</b>													
1.2, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 1mm gasket thickness							46.0						
86.00mm	86.0mm	142.0mm	34.0mm	22mm	-14.2cc	329	8.6	2618	0.236	0.0031	0.0039	928989386 *	
86.50mm						337	8.6					928989305 *	
87.00mm						343	8.7					928989325 *	
*2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>VOLKSWAGEN/AUDI EA113 (95-2000) 1.8L TURBO</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 1.14mm head gasket thickness							42cc						
81.00mm	86.4mm	144mm	32.7mm	20mm	-12.0cc	287	8.4	4032	0.395	0.0010	0.0018	930229089	
81.50mm						294	8.5					930229009	
<b>VOLKSWAGEN/AUDI B5 S4 2.7L 6-cyl. 5V Turbo</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 1.14mm head gasket thickness							42cc						
81.50mm	86.4mm	154mm	30.7mm	21mm	-7.2cc	295	9.0	4032	0.395	0.0010	0.0018	930070509 *	
*Hard Anodized Top Ring Groove													
<b>VOLKSWAGEN TFSi EA113 (2006-2009) 2.0L TURBO</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 0.8mm head gasket thickness							45cc						
82.50mm	92.8mm	144mm	29.6mm	20mm	-10.4cc	312	9.3	M142P	0.250	0.0010	0.0018	197799948 *	
83.00mm					-11.1cc	318	9.3	M142P	0.250	0.0010	0.0018	197800168 **	
83.50mm						323	9.4					197800187 **	
*M142P Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
**1.2, 1.2, 2.8mm Performance Ring Set Included													
<b>VOLKSWAGEN TSi EA888 (2010+) 2.0L TURBO</b>													
1.2, 1.5, 2.0mm Performance Ring Set Included													
CR calculated at zero deck and 1.0mm head gasket thickness							46cc						
82.50mm	92.8 mm	144 mm	29.6mm	21mm	-7.1cc	323	9.5	M142P	0.250	0.0010	0.0018	930188548 *	
83.00mm						328	9.6					930188568 *	
*M142P Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>VOLKSWAGEN TSi EA888 Gen 3 (2015-2018) 2.0L TURBO</b>													
1.2, 1.5, 2.0mm Performance Ring Set Included													
CR calculated at zero below deck and 1.0mm head gasket thickness							46cc						
82.50mm	92.8mm	144mm	29.6mm	23mm	-7.1cc	314	9.5	M142P	0.250	0.0010	0.0018	930286348 *	
83.00mm						318	9.6					930286368 *	
*M142P Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
<b>VOLKSWAGEN VR6 3.2L 4V</b>													
1.0, 1.2, 2.8mm Performance Ring Set Included													
CR calculated at zero deck and 1.0mm head gasket thickness							39cc						
84.50mm	95.9mm	164mm	34.7mm	20mm	-22.5cc	353	9.0	2618	0.175	0.0025	0.0033	930016626	
<b>VOLKSWAGEN BEETLE Type I, II, III</b>													
1.2, 1.2, 2.5mm Performance Ring Set Included													
Rod length, deck height and compression ratio will vary based on engine combination													
							Various						
94.00mm	82.0mm	-	35mm	22mm	0cc	380	-	2618	0.500	0.0034	0.0042	930285900	
94.00mm	84.0mm	-				380	-					930285900	
94.00mm	86.0mm	-				380	-					930285900	
94.00mm	88.0mm	-				380	-					930285900	

## Thermal Barrier Coating

The cutting edge application offers a ceramic-based thermic barrier. Durable and resistant to thermal shock, it insulates the piston crown and reduces heat transfer to increase performance. Available through all Motorsport distributors.



Cubic Inches	Bore Inches	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	

## Diesel PowerPak Applications

### CUMMINS 5.9L B-Series Cast Performance Pistons - 12V

Early 12V and marine-style bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

7cc													
359	4.015	4.724	7.559	2.817	1.575	-47.6cc	TBD	16.3	M174+	0.500	0.0055	0.0063	197952215
362	4.035						TBD	16.5					197952235
366	4.055						TBD	16.7					197952255
359	4.015	4.724	7.559	2.817	1.575	-52.0cc	TBD	15.3	M174+	0.500	0.0055	0.0063	197952415
362	4.035						TBD	15.5					197952435
366	4.055						TBD	15.6					197952455

### CUMMINS 5.9L B-Series Cast Performance Pistons - 12V w/ 0.150" deep valve pockets

Early 12V and marine-style bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

7cc													
359	4.015	4.724	7.559	2.817	1.575	-54.5cc	TBD	14.8	M174+	0.500	0.0055	0.0063	197952315
362	4.035						TBD	15.0					197952335
366	4.055						TBD	15.2					197952355
359	4.015	4.724	7.559	2.817	1.575	-59.9cc	TBD	13.9	M174+	0.500	0.0055	0.0063	197952115
362	4.035						TBD	14.0					197952135
366	4.055						TBD	14.1					197952155

### CUMMINS 5.9L B-Series Cast Performance Pistons - 24V

Modified version of the 03-04 bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.817	1.575	-48.5cc	TBD	16.3	M174+	0.500	0.0055	0.0063	197952715
362	4.035						TBD	16.5					197952735
366	4.055						TBD	16.7					197952755

### CUMMINS 5.9L B-Series Cast Performance Pistons - 24V w/ 0.100" deep valve pockets

Modified version of the 03-04 bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.817	1.575	-48.5cc	TBD	16.3	M174+	0.500	0.0055	0.0063	197952615
362	4.035						TBD	16.5					197952635
366	4.055						TBD	16.7					197952655
359	4.015	4.724	7.559	2.817	1.575	-53.0cc	TBD	15.3	M174+	0.500	0.0055	0.0063	197952515
362	4.035						TBD	15.5					197952535
366	4.055						TBD	15.6					197952555

### CUMMINS 5.9L B-Series Cast Performance Pistons - 24V

Modified version of the 04.5-07 bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.817	1.575	-48.5cc	TBD	16.3	M174+	0.500	0.0055	0.0063	197953015
362	4.035						TBD	16.5					197953035
366	4.055						TBD	16.7					197953055

### CUMMINS 5.9L B-Series Cast Performance Pistons - 24V w/ 0.100" deep valve pockets

Modified version of the 04.5-07 bowl, short pin design, coated skirt - Ring Set (S42170) Included  
CR calculated with 0.019" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.817	1.575	-48.5cc	TBD	16.4	M174+	0.500	0.0055	0.0063	197952915
362	4.035						TBD	16.5					197952935
366	4.055						TBD	16.7					197952955
359	4.015	4.724	7.559	2.817	1.575	-53.0cc	TBD	15.3	M174+	0.500	0.0055	0.0063	197952815
362	4.035						TBD	15.5					197952835
366	4.055						TBD	15.6					197952855

### CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 12V w/ 0.150" deep valve pockets

CH reduced 0.010", Early 12V and marine-style bowl, Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx-6) Included  
CR calculated with 0.010" piston protrusion above deck and 0.060 x 4.150" head gasket

7cc													
359	4.015	4.724	7.559	2.805	1.575	-53.5cc	1191	15.0	M142P	0.500	0.0076	0.0084	197808815
362	4.035						1210	15.2					197808835
366	4.055						1229	15.3					197808855
359	4.015	4.724	7.559	2.805	1.575	-59.0cc	1183	14.0	M142P	0.500	0.0076	0.0084	197808715
362	4.035						1202	14.2					197808735
366	4.055						1222	14.3					197808755

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	
<b>CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 24V w/ 0.100" deep valve pockets</b>													
CH reduced 0.010", Modified version of the 03-04 bowl, Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx-6) Included													
CR calculated with 0.010" piston protrusion above deck and 0.060 x 4.150" head gasket													
6cc													
359	4.015	4.724	7.559	2.805	1.575	-46.7cc	1204	16.3	M142P	0.500	0.0076	0.0084	197809915
362	4.035						1222	16.5					197809935
366	4.055						1242	16.7					197809955
359	4.015	4.724	7.559	2.805	1.575	-51.0cc	1196	15.4	M142P	0.500	0.0076	0.0084	197809815
362	4.035						1215	15.5					197809835
366	4.055						1234	15.7					197809855

**CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 24V w/ 0.100" deep valve pockets**  
 CH reduced 0.010", Modified version of the 04.5-07 bowl, Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx-6) Included  
 CR calculated with 0.010" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.805	1.575	-46.7cc	1203	16.3	M142P	0.500	0.0076	0.0084	197946315
362	4.035						1222	16.5					197946335
366	4.055						1241	16.6					197946355
359	4.015	4.724	7.559	2.805	1.575	-51.0cc	1196	15.4	M142P	0.500	0.0076	0.0084	197946215
362	4.035						1214	15.5					197946235
366	4.055						1234	15.7					197946255

**CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 12V or 24V (Custom Order)**  
 Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx) Included

359	4.015	Made To Order		Made To Order				Made To Order	M142P	0.500	0.0076	0.0084	929943015
362	4.035												929943035
366	4.055												929943055

**CUMMINS 5.9L B-Series Forged Steel MONOTHERM - 24V 03-07 Commonrail (using 04.5-07 Injectors)**  
 CH reduced 0.010", modified version of 04.5-07 bowl for reduced CR, 0.075" pockets, DLC coated pin - Ring Set (S42170) Included  
 CR calculated with 0.010" piston protrusion above deck and 0.060 x 4.150" head gasket

6cc													
359	4.015	4.724	7.559	2.804	1.575	-48.6cc	1681	15.9	Steel	0.750	0.0016	0.0023	929969315
362	4.035						1708	16.0					929969335
366	4.055						1736	16.2					929969355

**CUMMINS 6.7L B-Series Forged Aluminum Race Pistons - 24V w/ 0.200" deep valve pockets**  
 CH reduced 0.010", Modified Industrial bowl, Coated skirt and Hard Anodized top ring groove - Ring Set (1978502xx-6) Included  
 CR calculated with 0.006" piston protrusion above deck and 0.062 x 4.312" head gasket

6cc													
408	4.213	4.882	7.559	2.722	1.575	-55.6cc	1318	15.9	M142P	0.500	0.0076	0.0084	197850313
412	4.233						1338	16.0					197850333
416	4.253						1357	16.1					197850353

**Ford 6.0L Powerstroke Cast Performance Pistons**  
 CH reduced 0.010", modified version of the 04+ bowl for reduced CR - Ring Set (S41940) Included  
 CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

2.75cc													
363	3.740	4.134	6.929	2.049	1.339	-35.4cc	TBD	16.7	M124	0.580	0.0029	0.0037	197886140
365	3.750						TBD	16.8					197886150
367	3.760						TBD	16.9					197886160
369	3.770						TBD	16.9					197886170
371	3.780						TBD	17.0					197886180

**Ford 6.0L Powerstroke Cast Performance Pistons - w/ 0.100" deep valve pockets**  
 CH reduced 0.010", modified version of the 04+ bowl for reduced CR - Ring Set (S41940) Included  
 CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

2.75cc													
363	3.740	4.134	6.929	2.049	1.339	-41.2cc	TBD	15.0	M124	0.580	0.0029	0.0037	197886240
365	3.750						TBD	15.1					197886250
367	3.760						TBD	15.1					197886260
369	3.770						TBD	15.2					197886270
371	3.780						TBD	15.3					197886280

**Ford 6.4L Powerstroke Cast Performance Pistons**  
 CH reduced 0.010", HD modified version of the factory bowl for reduced CR - Ring Set (S42246) Included  
 CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness

2.9cc													
388	3.866	4.134	6.929	2.049	1.516	-39.7cc	TBD	16.2	M142	0.610	0.0021	0.0029	197887066
390	3.876						TBD	16.2					197887076
392	3.886						TBD	16.3					197887086
394	3.896						TBD	16.4					197887096

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Part No.
										Meas.	Min	Max	
<b>Ford 6.4L Powerstroke Cast Performance Pistons - w/ 0.100" deep valve pockets</b>													
CH reduced 0.010", HD modified version of the factory bowl for reduced CR - Ring Set (S42246) Included													
CR calculated with 0.008" piston protrusion above deck and 0.059" head gasket thickness													
2.9cc													
388	3.866	4.134	6.929	2.049	1.516	-45.1cc	TBD	14.7	M142	0.610	0.0021	0.0029	197886966
390	3.876						TBD	14.8					197886976
392	3.886						TBD	14.9					197886986
394	3.896						TBD	14.9					197886996
<b>FORD 6.0L Powerstroke Forged Aluminum Race Pistons (Custom Order)</b>													
Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S41940) Included													
363	3.740	Made To Order		Made To Order				Made To Order	M142P	0.500	0.0046	0.0054	929901340
367	3.760												929901360
371	3.780												929901380
<b>FORD 6.4L Powerstroke Forged Aluminum Race Pistons (Custom Order)</b>													
Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S42097) Included													
388	3.866	Made To Order		Made To Order				Made To Order	M142P	0.500	0.0046	0.0054	930060266
392	3.886												930060286
396	3.906												930060206
<b>FORD 6.7L Powerstroke Forged Aluminum Race Pistons (Custom Order)</b>													
Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S42168) Included													
406	3.898	Made To Order		Made To Order				Made To Order	M142P	0.500	0.0046	0.0054	197835398
410	3.918												197835318
414	3.938												197835338
<b>FORD 7.3L Powerstroke Forged Aluminum Race Pistons (Custom Order)</b>													
Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S41768) Included													
444	4.110	Made To Order		Made To Order				Made To Order	M124P	0.500	0.0076	0.0084	197763710
448	4.130												197763730
452	4.150												197763750
<b>GM 6.6L Duramax Cast Performance Pistons</b>													
Revised casting with improved crown geometry and performance bowl design, coated skirt - Ring Set (40xxMDK-D) Included													
CH reduced 0.010" - Fits LB7, LLY, LBZ, LMM, LGH, LML													
CR calculated with 0.012" piston protrusion above deck and 0.037 x 4.115" head gasket													
6.5cc													
403	4.055	3.898	6.417	1.951	1.358	-40.7cc	864	16.6	M142	0.500	0.0016	0.0023	930036055
407	4.075						880	16.8					930036075
411	4.095						896	17.0					930036095
<b>GM 6.6L Duramax Cast Performance Pistons w/ 0.075" Deep Valve Pockets</b>													
Revised casting with improved crown geometry and performance bowl design, coated skirt - Ring Set (40xxMDK-D) Included													
CH reduced 0.010" - Fits LB7, LLY, LBZ, LMM, LGH, LML													
CR calculated with 0.012" piston protrusion above deck and 0.037 x 4.115" head gasket													
6.5cc													
403	4.055	3.898	6.417	1.951	1.358	-41.8cc	861	16.3	M142	0.500	0.0016	0.0023	930029855
407	4.075						877	16.5					930029875
411	4.095						893	16.6					930029895
<b>GM 6.6L Duramax Forged Aluminum Race Pistons w/ 0.075" Deep Valve Pockets</b>													
Shelf stock version of the Custom Race Piston, Coated skirt and Hard Anodized top ring groove - Ring Set (40xxMDR*) Included													
CH reduced 0.010" - Fits LB7, LLY, LBZ, LMM, LGH, LML - Brodix and Wagler Cylinder Heads													
CR calculated with 0.012" piston protrusion above deck and 0.037 x 4.115" head gasket													
6.5cc													
403	4.055	3.898	6.417	1.951	1.358	-41.8cc	774	16.3	M124P	0.500	0.0055	0.0063	930036255
407	4.075						785	16.5					930036275
411	4.095						797	16.6					930036295
*Includes CrN PVD Stainless Steel 1/16 Rectangular Top Ring													
<b>GM 6.6L Duramax Forged Aluminum Race Pistons (Custom Order)</b>													
Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (40xxMDR*) Included													
403	4.055	Made To Order		Made To Order				Made To Order	M124P	0.500	0.0055	0.0063	929946655
407	4.075												929946675
411	4.095												929946695
*Includes CrN PVD Stainless Steel 1/16 Rectangular Top Ring													

# Ring Sets

Finish Bore	Description	Set Part Number	Finish Bore	Description	Set Part Number
<b>1.0mm, 1.0mm, 2.0mm Standard Tension +.005 File Fit Rings</b>			<b>1.0mm, 1.0mm, 2.0mm Standard Tension Drop In Rings</b>		
3.552"	1.0, 1.0, 2.0mm File Fit	3557MS-112	4.000"	1.0, 1.0, 2.0mm Drop-In	4000MS-112D
3.572"	1.0, 1.0, 2.0mm File Fit	3577MS-112	4.030"	1.0, 1.0, 2.0mm Drop-In	4030MS-112D
3.582"	1.0, 1.0, 2.0mm File Fit	3587MS-112	4.040"	1.0, 1.0, 2.0mm Drop-In	4040MS-112D
3.622"	1.0, 1.0, 2.0mm File Fit	3627MS-112	4.055"	1.0, 1.0, 2.0mm Drop-In	4055MS-112D
3.630"	1.0, 1.0, 2.0mm File Fit	3635MS-112	4.075"	1.0, 1.0, 2.0mm Drop-In	4075MS-112D
3.640"	1.0, 1.0, 2.0mm File Fit	3645MS-112	4.095"	1.0, 1.0, 2.0mm Drop-In	4095MS-112D
3.662"	1.0, 1.0, 2.0mm File Fit	3667MS-112	4.125"	1.0, 1.0, 2.0mm Drop-In	4125MS-112D
3.701"	1.0, 1.0, 2.0mm File Fit	3706MS-112	4.155"	1.0, 1.0, 2.0mm Drop-In	4155MS-112D
3.766"	1.0, 1.0, 2.0mm File Fit	3771MS-112			
3.776"	1.0, 1.0, 2.0mm File Fit	3781MS-112	<b>1.5mm, 1.5mm, 3.0mm Standard Tension +.005" File Fit Rings</b>		
3.780"	1.0, 1.0, 2.0mm File Fit	3785MS-112	3.551"	1.5, 1.5, 3.0mm File Fit	3556MS-15
3.786"	1.0, 1.0, 2.0mm File Fit	3791MS-112	3.571"	1.5, 1.5, 3.0mm File Fit	3576MS-15
3.790"	1.0, 1.0, 2.0mm File Fit	3795MS-112	3.581"	1.5, 1.5, 3.0mm File Fit	3586MS-15
3.796"	1.0, 1.0, 2.0mm File Fit	3801MS-112	3.766"	1.5, 1.5, 3.0mm File Fit	3771MS-15
3.800"	1.0, 1.0, 2.0mm File Fit	3805MS-112	3.796"	1.5, 1.5, 3.0mm File Fit	3801MS-15
3.810"	1.0, 1.0, 2.0mm File Fit	3815MS-112	3.810"	1.5, 1.5, 3.0mm 4cyl File Fit	3815MS-15
3.820"	1.0, 1.0, 2.0mm File Fit	3825MS-112	3.820"	1.5, 1.5, 3.0mm 4cyl File Fit	3825MS-15
3.830"	1.0, 1.0, 2.0mm File Fit	3835MS-112	3.830"	1.5, 1.5, 3.0mm 4cyl File Fit	3835MS-15
3.898"	1.0, 1.0, 2.0mm File Fit	3903MS-112	3.898"	1.5, 1.5, 3.0mm File Fit	3903MS-15
3.905"	1.0, 1.0, 2.0mm File Fit	3910MS-112	3.905"	1.5, 1.5, 3.0mm File Fit	3910MS-15
3.917"	1.0, 1.0, 2.0mm File Fit	3922MS-112	4.000"	1.5, 1.5, 3.0mm File Fit	4005MS-15
3.917"	1.0, 1.0, 2.0mm 4cyl File Fit	3922MS-112-4	4.005"	1.5, 1.5, 3.0mm File Fit	4010MS-15
3.927"	1.0, 1.0, 2.0mm File Fit	3932MS-112	4.010"	1.5, 1.5, 3.0mm File Fit	4015MS-15
3.927"	1.0, 1.0, 2.0mm 4cyl File Fit	3932MS-112-4	4.020"	1.5, 1.5, 3.0mm File Fit	4025MS-15
3.937"	1.0, 1.0, 2.0mm File Fit	3942MS-112	4.030"	1.5, 1.5, 3.0mm File Fit	4035MS-15
3.937"	1.0, 1.0, 2.0mm 4cyl File Fit	3942MS-112-4	4.040"	1.5, 1.5, 3.0mm File Fit	4045MS-15
3.947"	1.0, 1.0, 2.0mm File Fit	3952MS-112	4.060"	1.5, 1.5, 3.0mm File Fit	4065MS-15
4.000"	1.0, 1.0, 2.0mm File Fit	4005MS-112	4.065"	1.5, 1.5, 3.0mm File Fit	4070MS-15
4.005"	1.0, 1.0, 2.0mm File Fit	4010MS-112	4.070"	1.5, 1.5, 3.0mm File Fit	4075MS-15
4.010"	1.0, 1.0, 2.0mm File Fit	4015MS-112	4.080"	1.5, 1.5, 3.0mm File Fit	4085MS-15
4.020"	1.0, 1.0, 2.0mm File Fit	4025MS-112	4.090"	1.5, 1.5, 3.0mm File Fit	4095MS-15
4.025"	1.0, 1.0, 2.0mm File Fit	4030MS-112	4.125"	1.5, 1.5, 3.0mm File Fit	4130MS-15
4.030"	1.0, 1.0, 2.0mm File Fit	4035MS-112	4.130"	1.5, 1.5, 3.0mm File Fit	4135MS-15
4.035"	1.0, 1.0, 2.0mm File Fit	4040MS-112	4.135"	1.5, 1.5, 3.0mm File Fit	4140MS-15
4.040"	1.0, 1.0, 2.0mm File Fit	4045MS-112	4.140"	1.5, 1.5, 3.0mm File Fit	4145MS-15
4.045"	1.0, 1.0, 2.0mm File Fit	4050MS-112	4.145"	1.5, 1.5, 3.0mm File Fit	4150MS-15
4.050"	1.0, 1.0, 2.0mm File Fit	4055MS-112	4.150"	1.5, 1.5, 3.0mm File Fit	4155MS-15
4.055"	1.0, 1.0, 2.0mm File Fit	4060MS-112	4.155"	1.5, 1.5, 3.0mm File Fit	4160MS-15
4.060"	1.0, 1.0, 2.0mm File Fit	4065MS-112	4.160"	1.5, 1.5, 3.0mm File Fit	4165MS-15
4.065"	1.0, 1.0, 2.0mm File Fit	4070MS-112	4.165"	1.5, 1.5, 3.0mm File Fit	4170MS-15
4.070"	1.0, 1.0, 2.0mm File Fit	4075MS-112	4.250"	1.5, 1.5, 3.0mm File Fit	4255MS-15
4.075"	1.0, 1.0, 2.0mm File Fit	4080MS-112	4.280"	1.5, 1.5, 3.0mm File Fit	4285MS-15
4.080"	1.0, 1.0, 2.0mm File Fit	4085MS-112	4.310"	1.5, 1.5, 3.0mm File Fit	4315MS-15
4.090"	1.0, 1.0, 2.0mm File Fit	4095MS-112	4.320"	1.5, 1.5, 3.0mm File Fit	4325MS-15
4.100"	1.0, 1.0, 2.0mm File Fit	4105MS-112	4.350"	1.5, 1.5, 3.0mm File Fit	4355MS-15
4.120"	1.0, 1.0, 2.0mm File Fit	4125MS-112	4.375"	1.5, 1.5, 3.0mm File Fit	4380MS-15
4.125"	1.0, 1.0, 2.0mm File Fit	4130MS-112	4.390"	1.5, 1.5, 3.0mm File Fit	4395MS-15
4.130"	1.0, 1.0, 2.0mm File Fit	4135MS-112	4.440"	1.5, 1.5, 3.0mm File Fit	4445MS-15
4.135"	1.0, 1.0, 2.0mm File Fit	4140MS-112	4.500"	1.5, 1.5, 3.0mm File Fit	4505MS-15
4.140"	1.0, 1.0, 2.0mm File Fit	4145MS-112	4.530"	1.5, 1.5, 3.0mm File Fit	4535MS-15
4.145"	1.0, 1.0, 2.0mm File Fit	4150MS-112	4.560"	1.5, 1.5, 3.0mm File Fit	4565MS-15
4.150"	1.0, 1.0, 2.0mm File Fit	4155MS-112	4.600"	1.5, 1.5, 3.0mm File Fit	4605MS-15
4.155"	1.0, 1.0, 2.0mm File Fit	4160MS-112			
4.160"	1.0, 1.0, 2.0mm File Fit	4165MS-112	<b>1.5mm, 1.5mm, 3.0mm Standard Tension Drop In Rings</b>		
4.165"	1.0, 1.0, 2.0mm File Fit	4170MS-112	3.551"	1.5, 1.5, 3.0 mm Drop In	3551MS-15
4.170"	1.0, 1.0, 2.0mm File Fit	4175MS-112	3.937"	1.5, 1.5, 3.0 mm Drop In	3937MS-15
4.175"	1.0, 1.0, 2.0mm File Fit	4180MS-112	3.947"	1.5, 1.5, 3.0 mm Drop In	3947MS-15
4.180"	1.0, 1.0, 2.0mm File Fit	4185MS-112	4.000"	1.5, 1.5, 3.0 mm Drop In	4000MS-15D
4.185"	1.0, 1.0, 2.0mm File Fit	4190MS-112	4.030"	1.5, 1.5, 3.0 mm Drop In	4030MS-15D
4.220"	1.0, 1.0, 2.0mm File Fit	4225MS-112	4.040"	1.5, 1.5, 3.0 mm Drop In	4040MS-15D
4.225"	1.0, 1.0, 2.0mm File Fit	4230MS-112	4.055"	1.5, 1.5, 3.0 mm Drop In	4055MS-15D
4.245"	1.0, 1.0, 2.0mm File Fit	4250MS-112	4.125"	1.5, 1.5, 3.0 mm Drop In	4125MS-15D
4.250"	1.0, 1.0, 2.0mm File Fit	4255MS-112	4.155"	1.5, 1.5, 3.0 mm Drop In	4155MS-15D
4.255"	1.0, 1.0, 2.0mm File Fit	4260MS-112	4.600"	1.5, 1.5, 3.0 mm Drop In	4600MS-15D
4.260"	1.0, 1.0, 2.0mm File Fit	4265MS-112			
4.265"	1.0, 1.0, 2.0mm File Fit	4270MS-112			
4.270"	1.0, 1.0, 2.0mm File Fit	4275MS-112			
4.280"	1.0, 1.0, 2.0mm File Fit	4285MS-112			

# Ring Sets

Finish Bore	Description	Set Part Number	Finish Bore	Description	Set Part Number
<b>.043", .043", 3.0mm Low Tension +.005" File Fit Rings</b>			<b>1/16, 1/16, 3/16" Standard Tension +.005" File Fit Rings</b>		
3.776"	.043", .043", 3.0mm File Fit	3781MS-043	4.020"	1/16, 1/16, 3/16" File Fit	4025MS
3.786"	.043", .043", 3.0mm File Fit	3791MS-043	4.030"	1/16, 1/16, 3/16" File Fit	4035MS
4.010"	.043", .043", 3.0mm File Fit	4015ML-043	4.040"	1/16, 1/16, 3/16" File Fit	4045MS
4.020"	.043", .043", 3.0mm File Fit	4025ML-043	4.060"	1/16, 1/16, 3/16" File Fit	4065MS
4.025"	.043", .043", 3.0mm File Fit	4030ML-043	4.070"	1/16, 1/16, 3/16" File Fit	4075MS
4.030"	.043", .043", 3.0mm File Fit	4035ML-043	4.125"	1/16, 1/16, 3/16" File Fit	4130MS
4.035"	.043", .043", 3.0mm File Fit	4040ML-043	4.130"	1/16, 1/16, 3/16" File Fit	4135MS
4.040"	.043", .043", 3.0mm File Fit	4045ML-043	4.145"	1/16, 1/16, 3/16" File Fit	4150MS
4.045"	.043", .043", 3.0mm File Fit	4050ML-043	4.155"	1/16, 1/16, 3/16" File Fit	4160MS
4.050"	.043", .043", 3.0mm File Fit	4055ML-043	4.165"	1/16, 1/16, 3/16" File Fit	4170MS
4.060"	.043", .043", 3.0mm File Fit	4065ML-043	4.185"	1/16, 1/16, 3/16" File Fit	4190MS
4.065"	.043", .043", 3.0mm File Fit	4070ML-043	4.250"	1/16, 1/16, 3/16" File Fit	4255MS
4.070"	.043", .043", 3.0mm File Fit	4075ML-043	4.280"	1/16, 1/16, 3/16" File Fit	4285MS
4.080"	.043", .043", 3.0mm File Fit	4085ML-043	4.310"	1/16, 1/16, 3/16" File Fit	4315MS
4.125"	.043", .043", 3.0mm File Fit	4130ML-043	4.320"	1/16, 1/16, 3/16" File Fit	4325MS
4.130"	.043", .043", 3.0mm File Fit	4135ML-043	4.350"	1/16, 1/16, 3/16" File Fit	4355MS
4.140"	.043", .043", 3.0mm File Fit	4145ML-043	4.375"	1/16, 1/16, 3/16" File Fit	4380MS
4.150"	.043", .043", 3.0mm File Fit	4155ML-043	4.440"	1/16, 1/16, 3/16" File Fit	4445MS
4.155"	.043", .043", 3.0mm File Fit	4160ML-043	4.470"	1/16, 1/16, 3/16" File Fit	4475MS
4.165"	.043", .043", 3.0mm File Fit	4170ML-043	4.500"	1/16, 1/16, 3/16" File Fit	4505MS
4.185"	.043", .043", 3.0mm File Fit	4190ML-043	4.530"	1/16, 1/16, 3/16" File Fit	4535MS
			4.560"	1/16, 1/16, 3/16" File Fit	4565MS
			4.600"	1/16, 1/16, 3/16" File Fit	4605MS
			4.630"	1/16, 1/16, 3/16" File Fit	4635MS
<b>.043", .043", 3.0mm Steel Low Tension +.005" File Fit Rings</b>			<b>1/16, 1/16, 3/16" Standard Tension Drop In Rings</b>		
4.600"	.043", .043", 3.0mm File Fit	4605SL-043	4.000"	1/16, 1/16, 3/16" Drop In	4000MS
4.605"	.043", .043", 3.0mm File Fit	4610SL-043	4.030"	1/16", 1/16", 3/16" Drop In	4030MS
4.610"	.043", .043", 3.0mm File Fit	4615SL-043	4.040"	1/16", 1/16", 3/16" Drop In	4040MS
4.625"	.043", .043", 3.0mm File Fit	4630SL-043	4.060"	1/16", 1/16", 3/16" Drop In	4060MS
<b>.043", .043", 3.0mm Steel Standard Tension +.005" File Fit Rings</b>			4.080"	1/16", 1/16", 3/16" Drop In	4080MS
4.600"	.043", .043", 3.0mm File Fit	4605SS-043	4.125"	1/16", 1/16", 3/16" Drop In	4125MS
4.605"	.043", .043", 3.0mm File Fit	4610SS-043	4.145"	1/16", 1/16", 3/16" Drop In	4145MS
4.610"	.043", .043", 3.0mm File Fit	4615SS-043	4.155"	1/16", 1/16", 3/16" Drop In	4155MS
4.615"	.043", .043", 3.0mm File Fit	4620SS-043	4.165"	1/16", 1/16", 3/16" Drop In	4165MS
4.620"	.043", .043", 3.0mm File Fit	4625SS-043	4.185"	1/16", 1/16", 3/16" Drop In	4185MS
4.625"	.043", .043", 3.0mm File Fit	4630SS-043	4.250"	1/16", 1/16", 3/16" Drop In	4250MS
4.630"	.043", .043", 3.0mm File Fit	4635SS-043	4.280"	1/16", 1/16", 3/16" Drop In	4280MS
<b>.043", 1.5mm, 3.0mm Standard Tension +.005" File Fit Rings</b>			4.310"	1/16", 1/16", 3/16" Drop In	4310MS
4.125"	0.043", 1.5mm, 3.0mm File Fit	4130MS-1115	4.330"	1/16", 1/16", 3/16" Drop In	4330MS
4.130"	0.043", 1.5mm, 3.0mm File Fit	4135MS-1115	4.390"	1/16", 1/16", 3/16" Drop In	4390MS
4.135"	0.043", 1.5mm, 3.0mm File Fit	4140MS-1115	4.500"	1/16", 1/16", 3/16" Drop In	4500MS
4.140"	0.043", 1.5mm, 3.0mm File Fit	4145MS-1115	4.600"	1/16", 1/16", 3/16" Drop In	4600MS
4.160"	0.043", 1.5mm, 3.0mm File Fit	4165MS-1115	4.630"	1/16", 1/16", 3/16" Drop In	4630MS
4.165"	0.043", 1.5mm, 3.0mm File Fit	4170MS-1115	<b>1/16, 1/16, 3/16" Low Tension +.005" File Fit Rings</b>		
4.185"	0.043", 1.5mm, 3.0mm File Fit	4190MS-1115	4.030"	1/16, 1/16, 3/16" File Fit	4035ML
4.250"	0.043", 1.5mm, 3.0mm File Fit	4255MS-1115	4.040"	1/16, 1/16, 3/16" File Fit	4045ML
<b>1.5mm Gas Nitrided Steel (GNS) Severe Duty Top Ring Sets (8cyl)</b>			4.045"	1/16, 1/16, 3/16" File Fit	4050ML
4.280"	1.5mm GNS Top Ring File Fit	4280GNS-15T	4.060"	1/16, 1/16, 3/16" File Fit	4065ML
4.310"	1.5mm GNS Top Ring File Fit	4310GNS-15T	4.125"	1/16, 1/16, 3/16" File Fit	4130ML
4.320"	1.5mm GNS Top Ring File Fit	4320GNS-15T	4.135"	1/16, 1/16, 3/16" File Fit	4140ML
4.350"	1.5mm GNS Top Ring File Fit	4350GNS-15T	4.145"	1/16, 1/16, 3/16" File Fit	4150ML
4.375"	1.5mm GNS Top Ring File Fit	4375GNS-15T	4.155"	1/16, 1/16, 3/16" File Fit	4160ML
4.390"	1.5mm GNS Top Ring File Fit	4390GNS-15T	4.165"	1/16, 1/16, 3/16" File Fit	4170ML
4.440"	1.5mm GNS Top Ring File Fit	4440GNS-15T	4.310"	1/16, 1/16, 3/16" File Fit	4315ML
4.500"	1.5mm GNS Top Ring File Fit	4500GNS-15T	4.350"	1/16, 1/16, 3/16" File Fit	4355ML
4.530"	1.5mm GNS Top Ring File Fit	4530GNS-15T	4.375"	1/16, 1/16, 3/16" File Fit	4380ML
4.560"	1.5mm GNS Top Ring File Fit	4560GNS-15T	4.390"	1/16, 1/16, 3/16" File Fit	4395ML
4.600"	1.5mm GNS Top Ring File Fit	4600GNS-15T	4.500"	1/16, 1/16, 3/16" File Fit	4505ML
			4.530"	1/16, 1/16, 3/16" File Fit	4535ML
			4.560"	1/16, 1/16, 3/16" File Fit	4565ML
			4.600"	1/16, 1/16, 3/16" File Fit	4605ML
<b>Specialty Rings</b>					
3.662	1.2, 1.2, 2.0mm Drop In	3662MS-122			



# Sport Compact & Diesel Ring Sets, Clips

Finish Bore	Description	Set Part Number	Finish Bore	Description	Set Part Number
<b>Sport Compact Ring Sets</b>			<b>Diesel Ring Sets</b>		
81.00 mm	1.0, 1.2, 2.8mm Drop In	8100MS-10	4.095"	DMAX 3.0K, 2.0, 3.0mm Steel DSL (8cyl)	4095MDK-D
81.25 mm	1.0, 1.2, 2.8mm Drop In	8125MS-10	4.055"	DMAX 1/16, 2.0, 3.0mm Steel DSL (8cyl)	4055MDR
81.50 mm	1.0, 1.2, 2.8mm Drop In	8150MS-10	4.075"	DMAX 1/16, 2.0, 3.0mm Steel DSL (8cyl)	4075MDR
81.50 mm	1.0, 1.2, 2.8mm Drop In (6cyl)	8150MS6-10	4.095"	DMAX 1/16, 2.0, 3.0mm Steel DSL (8cyl)	4095MDR
82.00 mm	1.0, 1.2, 2.8mm Drop In	8200MS-10	4.015"	CUMMINS B 5.9L (STD) DSL (1cyl)	S42170-STD
82.50 mm	1.0, 1.2, 2.8mm Drop In	8250MS-10	4.035"	CUMMINS B 5.9L (+020) DSL (1cyl)	S42170-020
83.00 mm	1.2, 1.2, 2.8mm Drop In	8300MS-12	4.055"	CUMMINS B 5.9L (+040) DSL (1cyl)	S42170-040
83.50 mm	1.2, 1.2, 2.8mm Drop In	8350MS-12	4.110"	FORD 7.3L (STD) DSL (1cyl)	S41768-STD
83.50 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8350MS6-12	4.130"	FORD 7.3L (+020) DSL (1cyl)	S41768-020
84.00 mm	1.0, 1.2, 2.8mm Drop In (6cyl)	8400MS-10-6	4.170"	FORD 7.3L (+040) DSL (1cyl)	S41768-040
84.50 mm	1.0, 1.2, 2.8mm Drop In (6cyl)	8450MS-10-6	3.740"	FORD 6.0L (STD) DSL (8cyl)	41940-STD
84.50 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8450MS6-12	3.750"	FORD 6.0L (+010) DSL (8cyl)	41940-010
85.00 mm	1.2, 1.2, 2.8mm Drop In	8500MS-12	3.760"	FORD 6.0L (+020) DSL (8cyl)	41940-020
85.50 mm	1.2, 1.2, 2.8mm Drop In	8550MS-12	3.770"	FORD 6.0L (+030) DSL (8cyl)	41940-030
86.00 mm	1.2, 1.2, 2.8mm Drop In	8600MS-12	3.780"	FORD 6.0L (+040) DSL (8cyl)	41940-040
86.00 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8600MS6-12	3.740"	FORD 6.4L (STD) DSL (8cyl)	42246-STD
86.50 mm	1.2, 1.2, 2.8mm Drop In	8650MS-12	3.750"	FORD 6.4L (+010) DSL (8cyl)	42246-010
86.50 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8650MS6-12	3.760"	FORD 6.4L (+020) DSL (8cyl)	42246-020
87.00 mm	1.2, 1.2, 2.8mm Drop In	8700MS-12	3.770"	FORD 6.4L (+030) DSL (8cyl)	42246-030
87.00 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8700MS6-12			
87.25 mm	1.2, 1.2, 2.8mm Drop In	8725MS-12	<b>Diesel 1/16, 1/16, 3/16 (Steel Top) Ring Sets</b>		
87.25 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8725MS6-12	4.015"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	930044015-6
87.50 mm	1.2, 1.2, 2.8mm Drop In	8750MS-12	4.035"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	930044035-6
87.50 mm	1.2, 1.2, 2.8mm Drop In (6cyl)	8750MS6-12	4.055"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	930044055-6
88.00 mm	1.2, 1.2, 2.8mm Drop In	8800MS-12	4.213"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	197850213-6
89.00 mm	1.2, 1.2, 2.8mm Drop In	8900MS-12	4.233"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	197850233-6
89.50 mm	1.2, 1.2, 2.8mm Drop In	8950MS-12	4.253"	1/16, 1/16, 3/16" Steel Top File Fit (6cyl)	197850253-6
92.00 mm	1.2, 1.2, 2.5mm Drop In	9200MS-12			
92.30 mm	1.2, 1.2, 2.5mm Drop In (6cyl)	9230MS6-12	<b>Diesel Individual Top Rings 2.0mm (DMAX Forged, old style)</b>		
92.38 mm	1.2, 1.2, 2.5mm Drop In (6cyl)	9238MS6-12	4.055"	2.0mm (STD) Steel Top Ring (1cyl)	929898955
92.50 mm	1.2, 1.2, 2.5mm Drop In	9250MS-12	4.075"	2.0mm (+020) Steel Top Ring (1cyl)	929898975
92.76 mm	1.2, 1.2, 2.5mm Drop In (6cyl)	9276MS6-12	4.095"	2.0mm (+040) Steel Top Ring (1cyl)	929898995
93.00 mm	1.2, 1.2, 2.5mm Drop In	9300MS-12			
94.00 mm	1.2, 1.2, 2.5mm Drop In	9400MS-12	<b>Diesel Individual Top Rings 1/16 (DMAX Forged, new style)</b>		
95.50 mm	1.2, 1.2, 2.5mm Drop In	9550MS-12	4.055"	1/16 AP SS (STD) Top Ring (1cyl)	930098655
96.00 mm	1.2, 1.2, 2.5mm Drop In	9600MS-12	4.075"	1/16 AP SS (+020) Top Ring (1cyl)	930098675
99.50 mm	1.2, 1.5, 2.8mm File Fit	9950MS-12	4.095"	1/16 AP SS (+040) Top Ring (1cyl)	930098695
99.75 mm	1.2, 1.5, 2.8mm File Fit	9975MS-12			
100.00 mm	1.2, 1.5, 2.8mm File Fit	10000MS-12			

### Clips (each) w/o tang

0.787" x 1.6mm Round Wire Lock	9900112
0.792" x 1.6mm Round Wire Lock	9900215
0.827" x 1.6mm Round Wire Lock	9900110
0.866" x 1.6mm Round Wire Lock	2042968
0.912" x 1.6mm Round Wire Lock	6458129
0.927" x 1.6mm Round Wire Lock	6441489
0.945" x 1.6mm Round Wire Lock	9900539
0.990" x 1.6mm Round Wire Lock	6458137
20mm x 1.6mm Round Wire Lock	9900112
21mm x 1.6mm Round Wire Lock	9900110
22mm x 1.6mm Round Wire Lock	2042968
23mm x 1.6mm Round Wire Lock	9315805
23mm OE Subaru (double tang)	9298265
24mm x 1.6mm Round Wire Lock	9900539

### Lock'N Tool

Clip insertion tool for .927" clip	W-927
Clip insertion tool for .990" clip	W-990



### Clips (each) w/ tang

0.927" x 1.6mm Round Wire Lock w/ tang	6436901
0.990" x 1.6mm Round Wire Lock w/ tang	6442990
16.5mm x 1.6mm Round Wire Lock w/ tang	9868897
17mm x 1.6mm Round Wire Lock w/ tang	6456545
18mm x 1.6mm Round Wire Lock w/ tang	9900551
19mm x 1.6mm Round Wire Lock w/ tang	4399150
20mm x 1.3mm Round Wire Lock w/ tang	98417180
20mm x 1.6mm Round Wire Lock w/ tang	5871090
21mm x 1.6mm Round Wire Lock w/ tang	3888765
22mm x 1.6mm Round Wire Lock w/ tang	4394680
23mm x 1.6mm Round Wire Lock w/ tang	4242228
24mm x 1.6mm Round Wire Lock w/ tang	6442412

### Diesel Clips (each)

34 x 1.5mm Diesel Circlip	BUL1012210
34.5 x 1.5mm Diesel Circlip	1977523
33.232 x 1.68mm Diesel Circlip	BUL1008116
40 x 1.75mm Diesel Circlip	BUL1008230

# Pins, Rails & Expanders

Description	Part Number
<b>Piston Pins</b>	
0.912 x 2.287 x 0.121W CH 87g LW	9900159
0.927 x 2.287 x 0.129W CH 93g LW	9900184
0.750 x 1.965 x 0.178W CH 80g	9864383
0.792 x 2.250 x 0.140W CH 83g	9900211
0.866 x 2.287 x 0.177W CH 112g	9900106
0.866 x 2.405 x 0.177W CH 118g	6458160
0.867 x 2.287 x 0.178W CH 112g	9900107
0.912 x 2.287 x 0.171W CH 116g	6458152
0.927 x 2.287 x 0.168W CH 118g	6457808
0.928 x 2.287 x 0.169W CH 118g	9900536
0.930 x 2.287 x 0.170W CH 119g	9900538
0.945 x 2.287 x 0.177W CH 125g	9900079
0.975 x 2.520 x 0.172W CH 130g	9311348
0.984 x 2.287 x 0.162W CH 122g	9299391
0.984 x 2.287 x 0.232W CH 160g	9849202
0.990 x 2.520 x 0.180W CH 148g	7758139
0.990 x 2.930 x 0.180W CH 171g	9887254
1.094 x 2.520 x 0.163W CH 153g	9839256
0.927 x 2.287 x 0.188W CH 128g HD	6457147
0.927 x 2.287 x 0.188W CH 128g H13 HD	9301852
0.928 x 2.287 x 0.188W CH 128g HD	9900108
0.929 x 2.244 x 0.189W R 127g HD	6455117
0.943 x 2.287 x 0.200W CH 135g H13 HD	1978223
0.943 x 2.287 x 0.235W CH 154g HD	1978387
0.945 x 2.287 x 0.217W CH 144g HD	9855196
0.990 x 2.520 x 0.220W CH 171g HD	9866438
0.990 x 2.750 x 0.220W CH 187g HD	9867483
0.990 x 2.930 x 0.200W CH 184g HD	9887255
1.094 x 2.850 x 0.200W 205g H13 HD	1978843
0.866 x 2.287 x 0.177W CH 112g DLC	9288309
0.927 x 2.287 x 0.168W CH 118g DLC	9298084
0.927 x 2.287 x 0.188W CH 128g HD DLC	9288283
0.990 x 2.520 x 0.180W CH 148g DLC	9298401
<b>Sport Compact Pins</b>	
19 x 10 x 50mm CH 80g	9300337
20 x 10 x 50.0mm CH 92g	1978461
20 x 11.35 x 50.8mm CH 84g	1979306
20 x 10 x 59mm CH 106g	9885792
21 x 11 x 50mm CH 98g	9900109
21 x 11.5 x 54.3mm CH 100g	7967961
21 x 10.5 x 58.1mm CH 117g	9300427
22 x 12/17 x 48mm Tapered CH 93g	9851760
22 x 11.5 x 50.0mm CH 108g H13	1978844
22 x 12/15.7 x 52mm Taper CH 101g	9894428
22 x 9.3 x 52mm CH 125g H13	1979143
22 x 13 x 58.11mm CH 112g	9900106
22 x 13 x 58.11mm CH 112g DLC	9301792
22 x 11.5 x 58.11mm CH 126g H13	1977588
22.5 x 12.5 x 52mm CH 112g H13	1977483
23 x 13 x 50.0mm CH 109g	9851913
23 x 13.5 x 57.404mm R 124g	9298392
23 x 13.5 x 57.404mm CH 122g	9299383
<b>Diesel Pins</b>	
34.0 x 20 x 65.3mm R 294g	BUL33087356230
34.5 x 18 x 77.5mm R 410g	9858953
34.5 x 18 x 77.5mm R 410g DLC	9300916
40.0 x 19 x 82.8mm R 628g	9858954
40.0 x 19 x 82.8mm R 628g DLC	9299823
40.0 x 19 x 75.8 R 575g	9300570
40.0 x 17 x 58.0mm Taper R 430g DLC	9300738

**LW = Light Weight**  
**HD = Heavy Duty**  
**CH = Chamfered**  
**W = Wall Thickness**  
**R = Radiused**  
**DLC = DLC Coated**

Description	Part Number
<b>Oil Ring Support Rails (each)</b>	
3.780-3.795 2mm Support Rail	1978854
3.800-3.815 2mm Support Rail	1979652
3.895-3.910 2mm Support Rail	9301947
3.915-3.930 2mm Support Rail	1979643
3.935-3.950 2mm Support Rail	1979644
4.000-4.015 2mm Support Rail	9301835
4.020-4.035 2mm Support Rail	1979645
4.040-4.055 2mm Support Rail	9301838
4.060-4.075 2mm Support Rail	1979646
4.080-4.095 2mm Support Rail	9301922
4.100-4.155 2mm Support Rail	1979647
4.125-4.140 2mm Support Rail	9301840
4.145-4.160 2mm Support Rail	1979648
4.165-4.180 2mm Support Rail	9301923
4.185-4.200 2mm Support Rail	1979649
4.240-4.255 2mm Support Rail	1977167
4.260-4.275 2mm Support Rail	1979650
4.600-4.615 2mm Support Rail	1978581
4.620-4.635 2mm Support Rail	1979651
3.386-3.426 2.8mm Support Rail	1977799
3.504-3.544 2.8mm Support Rail	1977800
3.780-3.820 3mm Support Rail	9301578
3.810-3.840 3mm Support Rail	9302399
3.898-(LS1) 3mm Support Rail	9301680
3.917-3.957 3mm Support Rail	9301501
4.000-4.040 3mm Support Rail	9290024
4.040-4.080 3mm Support Rail	9298684
4.080-4.120 3mm Support Rail	9301133
4.125-4.165 3mm Support Rail	9290032
4.165-4.205 3mm Support Rail	9300686
4.250-4.290 3mm Support Rail	9299227
4.310-4.350 3mm Support Rail	9299226
4.390-4.430 3mm Support Rail	1978390
4.500-4.560 3mm Support Rail	9299228
4.600-4.630 3mm Support Rail	9299225
4.125-4.185 3/16" Support Rail	9298909
4.250-4.290 3/16" Support Rail	9290040
4.310-4.350 3/16" Support Rail	9298577
4.500-4.560 3/16" Support Rail	9290057
4.600-4.630 3/16" Support Rail	9299942
<b>3.0mm Oil Ring Standard Tension Rails (8cyl)</b>	
4.030"   3.0mm STD Tension Rails (16pcs)	4030-300R
4.040"   3.0mm STD Tension Rails (16pcs)	4040-300R
4.060"   3.0mm STD Tension Rails (16pcs)	4060-300R
4.125"   3.0mm STD Tension Rails (16pcs)	4125-300R
4.135"   3.0mm STD Tension Rails (16pcs)	4135-300R
4.155"   3.0mm STD Tension Rails (16pcs)	4155-300R
<b>3.0mm Oil Ring Standard Tension Expanders (8cyl)</b>	
4.030"   3.0mm STD Tension Expanders (8pcs)	4030-300S
4.040"   3.0mm STD Tension Expanders (8pcs)	4040-300S
4.050"   3.0mm STD Tension Expanders (8pcs)	4050-300S
4.060"   3.0mm STD Tension Expanders (8pcs)	4060-300S
4.125"   3.0mm STD Tension Expanders (8pcs)	4125-300S
4.135"   3.0mm STD Tension Expanders (8pcs)	4135-300S
4.145"   3.0mm STD Tension Expanders (8pcs)	4145-300S
4.155"   3.0mm STD Tension Expanders (8pcs)	4155-300S
4.165"   3.0mm STD Tension Expanders (8pcs)	4165-300S

# Ring Gap Instructions

Application	Top Ring (minimum)	Second Ring (minimum)	Oil Ring Rail	4.000 Bore Example Top, 2nd, Oil Rails
High Performance Street - NA	Bore x 0.0045"	Bore x 0.0050"	Min 0.015"	0.018", 0.020", Min 0.015"
Circle Track, Drag Racing - NA	Bore x 0.0050"	Bore x 0.0060"	Min 0.015"	0.020", 0.024", Min 0.015"
Nitrous up to 200hp (25HP/cyl)	Bore x 0.0060"	Bore x 0.0060"	Min 0.015"	0.024", 0.024", Min 0.015"
Nitrous Race 200hp+ (25HP/cyl)	Bore x 0.0070"	Bore x 0.0070"	Min 0.015"	0.028", 0.028", Min 0.015"
Turbo / Supercharger	Bore x 0.0060"	Bore x 0.0060"	Min 0.015"	0.024", 0.024", Min 0.015"
Turbo / Supercharger Race	Bore x 0.0070"	Bore x 0.0070"	Min 0.015"	0.028", 0.028", Min 0.015"
Diesel - Turbocharged	Bore x 0.0060"	Bore x 0.0055"	Min 0.015"	0.024", 0.022", Min 0.015"

**NOTE:** The second ring gap recommendations have continued to change over the years. Current recommendations are such that the 2nd ring gap is larger than the top rings for most applications. Testing has proven that a larger second ring gap increases the top ring's stability allowing for a better seal. This larger "escape" path prevents inter-ring pressure from building up and lifting the top ring off the piston allowing combustion to get by. Many engine builders have reported lower blow-by and horsepower gains at the upper RPM ranges with the wider second ring gaps. Also, almost every new car made is using this inter-ring pressure reduction method to lower blow-by and emissions and to increase engine output. Additionally, and for these reasons, these ring gap recommendations are to be considered minimums, and some kits will come with larger gaps than the minimum listed in the table directly out of the box.

## PROPER RING INSTALLATION

**Top ring:** If there is a dot (pip mark) or a laser etching (commonly etched as "TOP" or the MAHLE logo, or a number designator) on one of the flats of the top ring, this marking is indicating the top of the ring. Typically, if there is a bevel on the ID of the top ring, the bevel should be facing up toward the top of the piston.



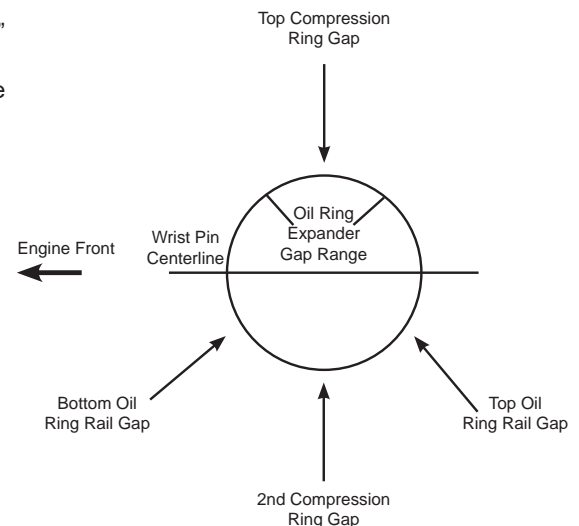
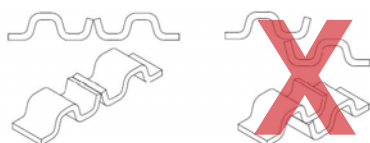
**2nd Ring:** If there is a dot (pip mark) or a laser etching (commonly etched as "TOP" or the MAHLE logo, or a number designator) on one of the flats of the top ring, this marking is indicating the top of the ring. Typically, if there is a bevel on the ID of the 2nd ring, the bevel should be facing down toward the bottom of the piston. Any marking indicating the top of the piston ring supersedes the location of the ID bevel of the ring.



**Oil Ring** - may be either 2 piece or 3 piece design:

**2 Piece Instructions:** Remove the coil spring from the oil ring and place the coil spring in the groove, noting the location of the coil spring joint. Install the oil ring in the ring groove; the oil ring gap must be assembled opposite (180 degrees) to coil spring joint.

**3 Piece Instructions:** Place the expander in the groove, ensure the ends are butted against each other. Position the expander ends in the desired orientation on the piston, an image of the recommended installation location is provided in the Proper Ring Alignment section. Install the lower steel ring, the ring end gap must be approximately 90° to 120° left from the expander edges. Install the upper steel ring observing the same distance for the right side. After ring installation, check if oil ring set can move freely without binding. Important: expander ends must not overlap.



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