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APPLICATION GUIDE 2018

Racing Components

MMS8 Re. 9/17

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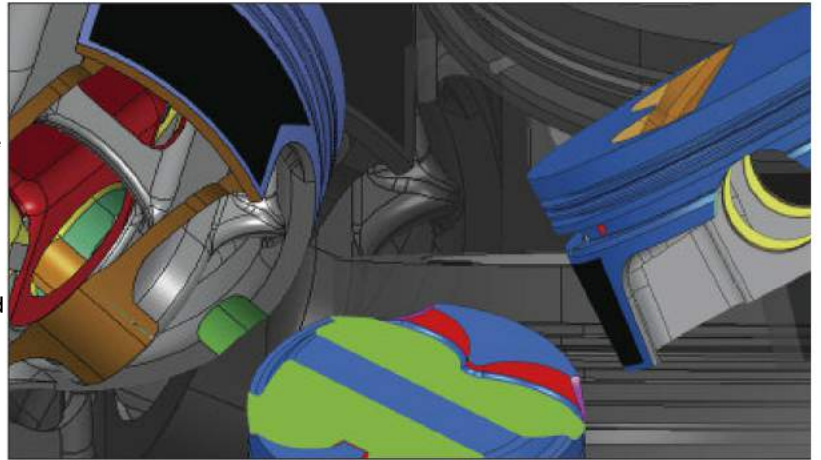


MAHLE Means Performance

From powering champions in the world's premier racing series to delivering winning performances at dirt tracks and drag strips around the world, MAHLE means performance. It's a rich heritage that began over 95 years ago. In 1920, pistons made of heavy gray cast iron were used in the internal combustion engines of automobiles, but the Mahle brothers in Germany began working to develop light alloy pistons in their small, newly founded company.

The Mahle brothers revolutionized the piston industry in 1921 by building the world's first aluminum alloy piston. Because of their innovative approach to piston design and production, these lighter weight piston were sought out by racers of that era.

It was then that the MAHLE tradition of building the finest racing pistons was born, and today that tradition is being carried on in the United States by MAHLE Motorsports North America.



MAHLE Continues It's Winning Tradition

It's astounding to consider that MAHLE has only been participating in U.S. motorsports since early 2000. Because they've built on successes in NASCAR, American LeMans, and other top series, MAHLE continues to demonstrate why they are the first name in high performance racing pistons.

In recent years, MAHLE Motorsports powered vehicles have won multiple championships in everything from the NASCAR Sprint Cup, IRL, American LeMans, and World of Outlaws sprint cars 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, or race on dirt or asphalt, be a part of the winning tradition of MAHLE Motorsports.





MAHLE Motorsport - The Racer's Best Value

The hardest and most important job for any manufacturer is bringing true value to its customers. MAHLE Motorsport, the piston technology leader, incorporates more features and value into every PowerPak piston kit than most companies offer in full custom pistons. MAHLE is constantly developing and adding new technology to every piston they produce. For uncompromising performance and the best value, trust MAHLE Motorsport to get you in the winner's circle.

Ultra Flat Ring Grooves

Every MAHLE Motorsport piston is machined to exacting tolerances, with focused attention given to the radial flatness of the ring grooves. A flat ring groove is essential in achieving and maintaining the best ring seal possible. The quality of the ring grooves is so critical to peak and lasting performance that MAHLE designed and built the machinery used to machine the ring grooves for its Motorsports piston assemblies. Combined with ultra flat MAHLE rings that are included in every PowerPak piston kit, MAHLE delivers the formula for the best sealing power on the market.

Slipper Skirt Forging

Designed through many years of R&D working with top Formula 1 teams, the "Slipper Skirt" forging is used exclusively in all MAHLE Motorsport piston kits. A true Slipper Skirt forging offers many benefits over the standard "Full Round" design, but the technology runs much deeper than looks alone. These benefits are only achieved through the proper management of the design; any misapplication can result in a similar looking part with poor performance and strength. Trust the leader in piston technology, MAHLE Motorsport.

CNC Machined Pin Bores

The pin bores of every MAHLE Motorsport piston are precision CNC machined on equipment designed and manufactured by MAHLE specifically for creating perfectly matched and aligned pin bores every time. This eliminates the need for finish honing and allows for tighter piston to pin clearances, resulting in more consistent performance and less stress in the pin boss area, another benefit that only MAHLE Motorsport can bring you.

Grafal® Skirt Coating

MAHLE proprietary Grafal® anti-friction skirt coating is like no other on the market. It is graphite impregnated to reduce drag like many other skirt coatings, but this is where the similarities end. Because Grafal® is compressible it offers a unique cushioning property that absorbs harsh contact between the piston skirt and the cylinder bore. This results in much less wear on the cylinder bore and significantly reduces piston skirt fatigue. The screen print application provides superior adhesion and is designed to last 100,000+ miles.

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Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas. Min Max			Assembly Part No.	Old Part No.				
SMALL BLOCK CHEVY FLAT TOP																				
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								58cc	64cc	70cc										
350	4.000	3.480/3.500	5.700	1.550	0.927	-5cc	452	11.1	10.3	9.7	4032	0.500	0.0025	0.0033	930200000	SBC550000F05				
358	4.030						464	11.3	10.5	9.8					930200030	SBC550030F05				
359	4.040						468	11.3	10.5	9.8					930200040	SBC550040F05				
362	4.060						477	11.4	10.6	9.9					930200060	SBC550060F05				
377	4.000	3.750	5.700	1.425	0.927	-5cc	438	11.8	11.0	10.3	4032	0.500	0.0025	0.0033	930200100	SBC425000F05				
383	4.030						450	12.0	11.1	10.4					930200130	SBC425030F05				
385	4.040						454	12.0	11.2	10.4					930200140	SBC425040F05				
388	4.060						462	12.1	11.3	10.5					930200160	SBC425060F05				
401	4.125						469	12.4	11.6	10.8					930200225	SBC425125F05				
407	4.155						482	12.6	11.7	10.9					930200255	SBC425155F05				
409	4.165						486	12.6	11.7	11.0					930200265	SBC425165F05				
350	4.000	3.480/3.500	6.000	1.250	0.927	-5cc	417	11.0	10.2	9.5	4032	0.500	0.0025	0.0033	930200300	SBC250000F05				
358	4.030						428	11.2	10.4	9.7					930200330	SBC250030F05				
359	4.040						432	11.3	10.5	9.8					930200340	SBC250040F05				
362	4.060						440	11.4	10.6	9.9					930200360	SBC250060F05				
374	4.125						448	11.7	10.9	10.2					930200425	SBC250125F05				
380	4.155						459	11.8	11.0	10.3					930200455	SBC250155F05				
381	4.165						463	11.9	11.0	10.3					930200465	SBC250165F05				
388	4.125	3.625	6.000	1.188	0.927	-5cc	441	12.1	11.2	10.5	4032	0.250	0.0025	0.0033	930200525	SBC188125F05				
350	4.000	3.480/3.500	6.125	1.125	0.927	-5cc	404	11.1	10.3	9.7	4032	0.250	0.0025	0.0033	930200600	SBC125000F05				
358	4.030						415	11.3	10.5	9.8					930200630	SBC125030F05				
359	4.040						419	11.3	10.5	9.8					930200640	SBC125040F05				
362	4.060						426	11.4	10.6	9.9					930200660	SBC125060F05				
374	4.125						431	11.7	10.9	10.2					930200725	SBC125125F05				
380	4.155						442	11.8	11.0	10.3					930200755	SBC125155F05				
381	4.165						446	11.9	11.0	10.3					930200765	SBC125165F05				
377	4.000	3.750	6.000	1.125	0.927	-5cc	404	11.8	11.0	10.3	4032	0.250	0.0025	0.0033	930200600	SBC125000F05				
383	4.030						415	12.0	11.1	10.4					930200630	SBC125030F05				
385	4.040						419	12.0	11.2	10.4					930200640	SBC125040F05				
388	4.060						426	12.1	11.3	10.5					930200660	SBC125060F05				
401	4.125						431	12.4	11.6	10.8					930200725	SBC125125F05				
407	4.155						442	12.6	11.7	10.9					930200755	SBC125155F05				
409	4.165						446	12.6	11.7	11.0					930200765	SBC125165F05				
395	4.030	3.875	6.000	1.062R	0.927	-5cc	399	12.4	11.5	10.7	4032	0.250	0.0025	0.0033	930200830	SBC062030F05				
397	4.040						403	12.4	11.5	10.8					930200840	SBC062040F05				
414	4.125						409	12.8	11.9	11.1					930200925	SBC062125F05				
420	4.155						419	12.9	12.0	11.2					930200955	SBC062155F05				
422	4.165						423	13.0	12.1	11.3					930200965	SBC062165F05				
427	4.185					-8cc	436	12.7	11.9	11.2	2618	0.250	0.0046	0.0054	930201385	SBC062185F08				
408	4.030	4.000	6.000	1.000R	0.927	-5cc	387	12.7	11.8	11.0	4032	0.250	0.0025	0.0033	930201030	SBC000030F05				
410	4.040						391	12.8	11.9	11.1					930201040	SBC000040F05				
414	4.060						397	12.9	12.0	11.2					930201060	SBC000060F05				
427	4.125						400	13.2	12.3	11.5					930201125	SBC000125F05				
434	4.155						410	13.4	12.4	11.6					930201155	SBC000155F05				
436	4.165						413	13.4	12.5	11.6					930201165	SBC000165F05				
440	4.185					-7cc	411	13.4	12.4	11.6	2618	0.250	0.0046	0.0054	930201285	SBC000185F07				

Compression Heights with "R" INCLUDE Oil Support Rails

SMALL BLOCK CHEVY 4-VALVE POCKET FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set included								58cc	64cc	70cc						
350	4.000	3.480/3.500	5.700	1.550	0.927	-5cc	482	11.0	10.3	9.6	4032	0.500	0.0025	0.0033	930203600	
358	4.030						489	11.3	10.5	9.8					930203630	SBC550030F4V
359	4.040						493	11.3	10.5	9.8					930203640	SBC550040F4V
362	4.060						501	11.4	10.6	9.9					930203660	SBC550060F4V
358	4.030	3.480/3.500	6.000	1.250	0.927	-5cc	447	11.3	10.5	9.8	4032	0.500	0.0025	0.0033	930203730	SBC250030F4V

SMALL BLOCK CHEVY WISSOTA CONCEPT ENGINE

1.5, 1.5, 3.0mm File Fit Performance Ring Set included								58cc	64cc	70cc						
358	4.030	3.480/3.500	5.700	1.550	0.927	-5cc	463	10.8	10.1	9.5	4032	0.500	0.0025	0.0033	197725130	WIS550030F05
359	4.040						467	10.8	10.1	9.5					197725140	WIS550040F05
361	4.050						469	10.9	10.2	9.6					197725150	WIS550050F05
362	4.060						471	10.9	10.2	9.6					197725160	WIS550060F05

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Max	Assembly Part No.	Old Part No.		
SMALL BLOCK CHEVY HIGH OUTPUT 2bbl Gasported 22°/23° Asymmetrical Valve Pockets																
1.0, 1.0, 2.0mm Performance Ring set and Light Weight 92 gram pins included																
								58cc	64cc	70cc						
358	4.030	3.500	5.700	1.550	0.927	-4cc	418	11.4	10.6	9.9	4032	0.500	0.0036	0.0044	930202530	SBC550030T04
358	4.035						420	11.4	10.6	9.9					930202535	
359	4.040						422	11.4	10.6	9.9					930202540	SBC550040T04
360	4.045						424	11.5	10.7	10.0					930202545	
361	4.050						425	11.5	10.7	10.0					930202550	SBC550050T04
362	4.060						429	11.5	10.7	10.0					930202560	SBC550060T04
358	4.030	3.500	6.000	1.250	0.927	-4cc	381	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	930202630	SBC250030T04
358	4.035						382	11.4	10.6	9.9					930202635	
359	4.040						384	11.4	10.6	9.9					930202640	SBC250040T04
360	4.045						386	11.5	10.7	10.0					930202645	
361	4.050						388	11.5	10.7	10.0					930202650	SBC250050T04
362	4.060						391	11.5	10.7	10.0					930202660	SBC250060T04
358	4.030	3.500	6.125	1.125	0.927	-4cc	364	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	930202830	SBC125030T04
359	4.040						368	11.4	10.6	9.9					930202840	SBC125040T04
383	4.030	3.750	6.000	1.125	0.927	-4cc	364	12.1	11.3	10.5	4032	0.250	0.0036	0.0044	930202830	SBC125030T04
385	4.040						368	12.2	11.3	10.5					930202840	SBC125040T04

SMALL BLOCK CHEVY 350ci FLAT TOP for DART 49cc and other 21° Angle Milled Heads Gasported/Asymmetrical Valve Pockets

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
50cc																
358	4.030	3.500	5.700	1.550	0.927	-8cc	460				2618	0.500	0.0056	0.0064	197724930*	
359	4.040						464								197724940*	
361	4.050						468								197724950*	
362	4.060						472								197724960*	
363	4.065						474								197724965*	
358	4.030	3.500	6.000	1.250	0.927	-9cc	419		11.9		2618	0.500	0.0056	0.0064	197726830*	
359	4.040						423		11.9						197726840*	
361	4.050						427		12.0						197726850*	
362	4.060						431		12.0						197726860*	
363	4.065						432		12.0						197726865*	
358	4.030	3.5/3.750	6.125/6.0	1.125	0.927	-9cc	403		11.9/12.6		2618	0.250	0.0056	0.0064	197753130*	
359	4.040						406		11.9/12.6						197753140*	
361	4.050						410		11.9/12.6						197753150*	
362	4.060						413		12.0/12.7						197753160*	
363	4.065						415		12.0/12.8						197753165*	

*PowerPak Plus 2618 Alloy

SMALL BLOCK CHEVY 400ci FLAT TOP for DART 49cc and other 21° Angle Milled Heads Gasported/Asymmetrical Valve Pockets

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
50cc																
400	4.125	3.5/3.750	6.125/6.0	1.125	0.927	-9cc	418		12.3/13.1		2618	0.250	0.0056	0.0064	197753325*	
407	4.155						428		12.5/13.3						197753355*	
409	4.165						432		12.6/13.6						197753365*	
400	4.125	3.625/3.875	6.125/6.0	1.062R	0.927	-9cc	404		12.7/13.5		2618	0.250	0.0056	0.0064	197779125*	
407	4.155						414		12.9/13.7						197779155*	
409	4.165						418		12.9/13.7						197779165*	

*PowerPak Plus 2618 Alloy

SMALL BLOCK CHEVY 305ci FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
58cc 64cc 70cc																
310	3.766	3.480	5.700	1.550	0.927	-3cc	413	10.3	9.5	8.9	4032	0.500	0.0025	0.0033	930204566	SBC550766F03
312	3.776						417	10.3	9.6	8.9					930204576	SBC550776F03
313	3.786						421	10.4	9.6	9.0					930204586	SBC550786F03
315	3.796						425	10.4	9.7	9.0					930204596	SBC550796F03

SMALL BLOCK CHEVY 305ci FLAT TOP Gasported / Asymmetrical Valve Pockets

1.0, 1.0, 2.0mm Performance Ring Set and Light Weight 92 gram pins included																
58cc 64cc 70cc																
310	3.766	3.480	5.700	1.550	0.927	-1cc	410	10.5	9.7	9.0	4032	0.500	0.0036	0.0044	930205566	SBC550766T04
312	3.776						414	10.5	9.8	9.1					930205576	SBC550776T04
313	3.786						418	10.6	9.8	9.1					930205586	SBC550786T04
315	3.796						422	10.6	9.9	9.2					930205596	SBC550796T04

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.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.
								58cc	64cc	70cc		Min	Max			
SMALL BLOCK CHEVY 2bbi LIGHT WEIGHT Asymmetrical Valve Pockets																
1.0, 1.0, 2.0mm Performance Ring Set and Light Weight 92 gram pins included																
358	4.030	3.500	5.700	1.550	0.927	-2cc	412	11.3	10.8	9.8	4032	0.500	0.0036	0.0044	930206530	SBC550030F02
358	4.040						416	11.3	10.8	9.8					930206540	SBC550040F02
362	4.060						423	11.4	10.9	9.9					930206560	SBC550060F02
358	4.030	3.500	6.000	1.250	0.927	-2cc	375	11.3	10.8	9.8	4032	0.250	0.0036	0.0044	930206630	SBC250030F02
358	4.040						379	11.3	10.8	9.8					930206640	SBC250040F02
362	4.060						386	11.4	10.9	9.9					930206660	SBC250060F02
358	4.030	3.500	6.125	1.125	0.927	-2cc	359	11.3	10.8	9.8	4032	0.250	0.0036	0.0044	930206730	SBC125030F02
358	4.040						362	11.3	10.8	9.8					930206740	SBC125040F02
362	4.060						369	11.4	10.9	9.9					930206760	SBC125060F02
383	4.030	3.750	6.000	1.125	0.927	-2cc	359	12.4	11.5	10.7	4032	0.250	0.0036	0.0044	930206730	SBC125030F02
385	4.040						362	12.4	11.5	10.7					930206740	SBC125040F02
388	4.060						369	12.5	11.6	10.8					930206760	SBC125060F02

GM 604 Crate Engine Drop-In Forged Replacement

Requires 2.0mm, 1.5mm, 4.0mm Ring Set (Not Included)

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.
								58cc	64cc	70cc		Min	Max			
350	4.002	3.480	5.700	1.559	0.927	-5cc	510	11.3	10.5	9.9	4032	0.500	0.0026	0.0034	930127802*	
350	4.005						515	14.3	13.0	11.9					930127805*	
351	4.008														930127808*	
353	4.020														930127820*	
355	4.030														930127830*	

*Weight matches OE cast piston

SMALL BLOCK CHEVY DOME

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

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.									
								58cc	64cc	70cc		Min	Max												
358	4.030	3.480/3.500	5.700	1.550	0.927	11cc	510	14.2	12.9	11.9	2618	0.500	0.0046	0.0054	930207530	SBC550030D11									
359	4.040						515	14.3	13.0	11.9					930207540	SBC550040D11									
401	4.125	3.750	5.700	1.425	0.927	4cc	496	14.1	12.9	12.0	2618	0.500	0.0046	0.0054	930207825	SBC425125D04									
407	4.155						504	14.3	13.1	12.1					930207855	SBC425155D04									
409	4.165						507	14.3	13.2	12.2					930207865	SBC425165D04									
358	4.030	3.480/3.500	6.000	1.250	0.927	11cc	474	14.2	12.9	11.9	2618	0.500	0.0046	0.0054	930207930	SBC250030D11									
359	4.040						478	14.3	13.0	11.9					930207940	SBC250040D11									
362	4.060						485	14.4	13.1	12.0					930207960	SBC250060D11									
380	4.155						524	14.9	13.6	12.5					930208055	SBC250155D11									
358	4.030						3.480/3.500	6.125	1.125	0.927					11cc	460	14.2	12.9	11.9	2618	0.250	0.0046	0.0054	930208130	SBC125030D11
359	4.040	464	14.3	13.0	11.9	930208140					SBC125040D11														
362	4.060	471	14.4	13.1	12.0	930208160					SBC125060D11														
374	4.125	486	14.7	13.4	12.3	2618					0.500	0.0046	0.0054	930208225		SBC125125D11									
380	4.155	497	14.9	13.6	12.5									930208255		SBC125155D11									
381	4.165	501	15.0	13.6	12.5	930208265					SBC125165D11														
383	4.030					6cc					453	13.0	12.0	11.0		2618	0.250	0.0046	0.0054					930208330	SBC125030D06
385	4.040										456	13.1	12.0	11.1										930208340	SBC125040D06
388	4.060										464	13.2	12.1	11.2										930208360	SBC125060D06
374	4.125										4cc	467	13.2	12.2										11.3	2618
380	4.155	479	13.4	12.3	11.4	930212555	SBC125155D04																		
381	4.165	482	13.4	12.3	11.4	930212565	SBC125165D04																		
383	4.030	3.750	6.000	1.125	0.927	11cc	460	15.2	13.8	12.6	2618	0.250	0.0046	0.0054	930208130	SBC125030D11									
385	4.040						464	15.2	13.8	12.7					930208140	SBC125040D11									
388	4.060						471	15.3	13.9	12.8					930208160	SBC125060D11									
401	4.125						486	15.7	14.3	13.1					2618	0.500	0.0046	0.0054	930208225	SBC125125D11					
407	4.155						497	15.9	14.5	13.3									930208255	SBC125155D11					
409	4.165						501	16.0	14.5	13.3					930208265	SBC125165D11									
383	4.030														6cc	453	14.0	12.8	11.8	2618	0.250	0.0046	0.0054	930208330	SBC125030D06
385	4.040															456	14.0	12.9	11.9					930208340	SBC125040D06
388	4.060															464	14.2	13.0	12.0					930208360	SBC125060D06
401	4.125															4cc	467	14.1	12.9					12.0	2618
407	4.155	479	14.2	13.1	12.1	930212555	SBC125155D04																		
409	4.165	482	14.3	13.1	12.2	930212565	SBC125165D04																		
395	4.030	3.875	6.000	1.062R	0.927	11cc	451	15.6	14.2	13.0	2618	0.250	0.0046	0.0054	930208530	SBC062030D11									
397	4.040						455	15.7	14.3	13.1					930208540	SBC062040D11									
401	4.060						462	15.8	14.4	13.2					930208560	SBC062060D11									

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.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.
								58cc	64cc	70cc		Min	Max			
SMALL BLOCK CHEVY DOME continued																
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
414	4.125	3.875	6.000	1.062R	0.927	4cc	448	14.5	13.3	12.4	2618	0.415	0.0046	0.0054	930208625	SBC062125D04
420	4.155						470	14.7	13.5	12.5					930208655	SBC062155D04
422	4.165						474	14.7	13.6	12.5					930208665	SBC062165D04
434	4.155	4.000	6.000	1.000R	0.927	8cc	471	16.1	14.7	13.5	2618	0.250	0.0046	0.0054	930208755	SBC000155D08
427	4.125					4cc	437	15.0	13.7	12.7	2618	0.350	0.0046	0.0054	930208825	SBC000125D04
434	4.155						448	15.1	13.9	12.9					930208855	SBC000155D04
436	4.165						452	15.2	14.0	12.9					930208865	SBC000165D04

Compression Heights with "R" INCLUDE Oil Support Rails

SMALL BLOCK CHEVY 350ci 23° DOME Gasported / Asymmetrical Valve Pockets

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
64cc																
357	4.030	3.500	6.000	1.250	0.927	12cc	462				2618	0.500	0.0056	0.0064	197754130*	
359	4.040						466								197754140*	
361	4.050						469								197754150*	
362	4.060						473								197754160*	
357	4.030	3.5/3.750	6.125/6.0	1.125	0.927	12cc	444	13.1/14.0			2618	0.250	0.0056	0.0064	197754330*	
359	4.040						447	13.2/14.1							197754340*	
361	4.050						451	13.2/14.1							197754350*	
362	4.060						454	13.2/14.2							197754360*	

*PowerPak Plus 2618 Alloy

SMALL BLOCK CHEVY 400ci 23° DOME Gasported / Asymmetrical Valve Pockets

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
64cc																
400	4.125	3.5/3.750	6.125/6.0	1.125	0.927	9cc	443	13.0/13.9			2618	0.250	0.0056	0.0064	197754525*	
403	4.135						447	13.1/13.9							197754535*	
405	4.145						451	13.1/14.0							197754545*	
407	4.155						454	13.2/14.1							197754555*	
409	4.165						458	13.3/14.1							197754565*	
413	4.185						465	13.4/14.3							197754585*	
414	4.125	3.625/3.875	6.125/6.0	1.062R	0.927	4cc	425	12.4/13.2			2618	0.250	0.0056	0.0064	197754925*	
416	4.135						429	12.4/13.2							197754935*	
418	4.145						432	12.4/13.2							197754945*	
420	4.155						436	12.4/13.2							197754955*	
422	4.165						440	12.5/13.3							197754965*	
426	4.185						447	12.5/13.3							197754985*	
414	4.125					9cc	439	13.4/14.3							197754725*	
415	4.130						441	13.4/14.3							197754730*	
416	4.135						443	13.4/14.3							197754735*	
417	4.140						444	13.5/14.4							197754740*	
418	4.145						446	13.5/14.4							197754745*	
419	4.150						448	13.5/14.4							197754750*	
420	4.155						450	13.6/14.5							197754755*	
421	4.160						451	13.6/14.5							197754760*	
422	4.165						453	13.6/14.5							197754765*	
423	4.170						455	13.6/14.5							197754770*	
426	4.185						461	13.7/14.6							197754785*	

*PowerPak Plus 2618 Alloy

SMALL BLOCK CHEVY INVERTED DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
58cc 64cc 70cc																
358	4.030	3.480/3.500	5.700	1.550	0.927	-20cc	489	9.5	8.9	8.4	4032	0.500	0.0025	0.0033	930210130	SBC550030I20
383	4.030	3.750	5.700	1.425	0.927	-16cc	468	10.5	9.9	9.3	4032	0.500	0.0025	0.0033	930210230	SBC425030I16
385	4.040						472	10.6	9.9	9.3					930210240	SBC425040I16
388	4.060						480	10.6	10.0	9.4					930210260	SBC425060I16
407	4.155					-20cc	506	10.6	10.0	9.4	4032	0.500	0.0025	0.0033	930210355	SBC425155I20
409	4.165						511	10.6	10.0	9.5					930210365	SBC425165I20
383	4.030					-26cc	473	9.5	9.0	8.5	2618	0.500	0.0046	0.0054	930210430	SBC425030I26
385	4.040						477	9.5	9.0	8.5					930210440	SBC425040I26
383	4.030					-31cc	477	9.1	8.6	8.2	2618	0.500	0.0046	0.0054	930210530	SBC425030I31
358	4.030	3.480/3.500	6.000	1.250	0.927	-20cc	448	9.5	8.9	8.4	4032	0.250	0.0025	0.0033	930210630	SBC250030I20
358	4.030					-26cc	445	8.9	8.4	8.0	2618	0.250	0.0046	0.0054	930210730	SBC250030I26

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.					
								58cc	64cc	70cc		Min	Max								
SMALL BLOCK CHEVY INVERTED DOME continued																					
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																					
358	4.030	3.480/3.500	6.125	1.125	0.927	-16cc	435	9.9	9.3	8.8	4032	0.250	0.0025	0.0033	930210830	SBC125030H46					
359	4.040						439	9.9	9.3	8.8					930210840	SBC125040H46					
362	4.060						446	10.0	9.4	8.9					930210860	SBC125060H46					
374	4.125						451	10.2	9.6	9.1					930210925	SBC125125H46					
380	4.155						462	10.3	9.8	9.2					930210955	SBC125155H46					
382	4.165	466	10.4	9.8	9.2	930210965	SBC125165H46														
383	4.030	3.750	6.000	1.125	0.927	-26cc	442	9.5	9.0	8.5	4032	0.250	0.0025	0.0033	930211030	SBC125030H26					
385	4.040						446	9.5	9.0	8.6					930211040	SBC125040H26					
409	4.155						472	10.0	9.4	8.9					930211155	SBC125155H26					
383	4.030						-16cc	435	10.5	9.9					9.3	4032	0.250	0.0025	0.0033	930210830	SBC125030H46
385	4.040							439	10.6	9.9					9.3					930210840	SBC125040H46
388	4.060	446	10.6	10.0	9.4	930210860		SBC125060H46													
400	4.125	451	11.0	10.3	9.7	930210925		SBC125125H46													
407	4.155	462	11.1	10.4	9.8	930210955		SBC125155H46													
409	4.165	466	11.1	10.4	9.8	930210965	SBC125165H46														
395	4.030	3.875	6.000	1.062R	0.927	-18cc	424	10.5	10.0	9.4	4032	0.250	0.0025	0.0033	930211230	SBC062930H48					
397	4.040						427	10.5	10.0	9.4					930211240	SBC062040H48					
414	4.125						-22cc	443	10.5	9.9					9.4	930211325	SBC062125H22				
420	4.155							455	10.6	10.0					9.5	930211355	SBC062155H22				
422	4.165							458	10.7	10.1					9.6	930211365	SBC062165H22				
427	4.125	4.000	6.000	1.000R	0.927	-20cc	419	11.1	10.4	9.9	4032	0.250	0.0025	0.0033	930211425	SBC000125H20					
434	4.155						429	11.2	10.6	10.0					930211455	SBC000155H20					
436	4.165						433	11.3	10.6	10.0					930211465	SBC000165H20					

Compression Heights with "R" INCLUDE Oil Support Rails

SMALL BLOCK CHEVY INVERTED DOME for the 4.3L Syclone and Typhoon

1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
								58cc	64cc	70cc						
358	4.030	3.480/3.500	5.700	1.550	0.927	-20cc	489	9.5	8.9	8.4	4032	0.500	0.0025	0.0033	197751430	
359	4.040						9.5	8.9	8.4	197751440						

LS1/2/6 FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																
								66cc	64cc	72cc						
346	3.898	3.622	6.098	1.340	0.945	-4cc	396	9.9	10.1	9.3	4032	0.580	0.0025	0.0033	930217698	LS1340898F04
347	3.905						398	9.9	10.1	9.3					930217605	LS1340905F04
348	3.908						399	9.9	10.1	9.3					930217608	LS1340908F04
364	4.000						433	10.3	10.5	9.6					930217700	LS1340000F04
365	4.005						435	10.3	10.5	9.7					930217705	LS1340005F04
366	4.010						437	10.3	10.6	9.7					930217710	LS1340010F04
370	4.030						445	10.4	10.7	9.8					930217730	LS1340030F04
346	3.898	3.622	6.125	1.314	0.927	-4cc	394	9.9	10.1	9.3	4032	0.500	0.0025	0.0033	930217998	LS1314898F04
347	3.905						397	9.9	10.1	9.3					930217905	LS1314905F04
348	3.908						398	9.9	10.1	9.3					930217908	LS1314908F04
364	4.000						444	10.3	10.5	9.7					930218000	LS1314000F04
365	4.005						446	10.3	10.5	9.7					930218005	LS1314005F04
366	4.010						448	10.3	10.5	9.7					930218010	LS1314010F04
370	4.030						455	10.4	10.7	9.8					930218030	LS1314030F04
403	4.005	4.000	6.125	1.105	0.927	-4cc	396	11.3	11.5	10.6	4032	0.500	0.0025	0.0033	930218105	LS1105005F04
408	4.030						404	11.4	11.7	10.7					930218130	LS1105030F04

LS1/2/6 INVERTED DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included																					
								66cc	64cc	72cc											
347	3.905	3.622	6.125	1.314	0.927	-16cc	407	8.7	8.9	8.3	2618	0.530	0.0046	0.0054	930219005	LS1314905H46					
348	3.908						408	8.8	8.9	8.3					930219008	LS1314908H46					
383	3.905	4.000	6.125	1.105	0.927	-6cc	387	10.6	10.8	9.9	4032	0.500	0.0025	0.0033	930219205	LS1105905H06					
384	3.908						388	10.6	10.8	10.0					930219208	LS1105908H06					
403	4.005						-12cc	397	10.3	10.6					9.8	4032	0.500	0.0025	0.0033	930219305	LS1105005H42
404	4.010							400	10.4	10.6					9.8					930219310	LS1105010H42
408	4.030							407	10.5	10.7					9.9					930219330	LS1105030H42
383	3.905	4.000	6.125	1.105R	0.927	-26cc	373	8.7	8.9	8.3	2618	0.340	0.0050	0.0058	930219405	LS1105905H26					
403	4.005						-28cc	413	8.9	9.1					8.5	2618	0.500	0.0061	0.0069	930219505	LS1105005H28
408	4.030							422	9.0	9.2					8.6					930219530	LS1105030H28

Compression Heights with "R" INCLUDE Oil Support Rails

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas. Min Max			Assembly Part No.	Old Part No.									
LS1/2/6 5.3L																									
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								62cc	65cc	71cc															
329	3.800	3.622	6.098	1.330	0.945	-4.2cc	414	9.8	9.5	8.9	4032	0.500	0.0025	0.0033	930217800	LS1330800F04									
326	3.780	3.622	6.125	1.299	0.927	-2.1cc	424	9.9	9.5	8.9	2618	0.500	0.0035	0.0043	930218480*										
329	3.800						431	10.0	9.6	9.0					930218400*										
363	3.800	4.000	6.125	1.105	0.927	0cc	375	10.8	11.1	10.1	4032	0.500	0.0025	0.0033	930218200	LS1405800D00									
363	3.800					-16cc	348	9.1	9.3	8.6	4032	0.500	0.0025	0.0033	930219600	LS1405800H6									

*PowerPak Plus 2618 Alloy, Lateral Gas Ports, HD .188" Wall Wrist Pin, & Hard Anodized Top Ring Groove For Extreme Duty Applications

LS7 FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								66cc	64cc	72cc															
427	4.125	4.000	6.067	1.181	0.927	-3cc	436	12.0	12.2	11.2	4032	0.500	0.0025	0.0033	930221525	LS7481125F03									
429	4.130						437	12.0	12.3	11.2					930221530	LS7481130F03									
430	4.135						439	12.1	12.4	11.3					930221535	LS7481135F03									
427	4.125	4.000	6.125	1.105	0.927	-3cc	438	12.0	12.2	11.2	4032	0.430	0.0025	0.0033	930221625	LS7405125F03									
429	4.130						440	12.0	12.3	11.2					930221630	LS7405130F03									
430	4.135						442	12.1	12.4	11.3					930221635	LS7405135F03									

LS7 INVERTED DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								66cc	64cc	72cc															
440	4.185	4.000	6.125	1.105R	0.927	-6cc	436	11.6	11.8	11.0	4032	0.430	0.0025	0.0033	930221985	LS7405185I06									
427	4.125					-25cc	454	9.7	9.9	9.2	2618	0.430	0.0046	0.0054	930221825*	LS7405125P25									

Compression Heights with "R" INCLUDE Oil Support Rails

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

LS3 / L92 FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								70cc																	
376	4.065	3.622	6.098	1.340	0.945	-4cc	458	10.1			4032	0.580	0.0025	0.0033	930223065	L92340065F04									
377	4.070						460	10.1							930223070	L92340070F04									
378	4.075						462	10.2							930223075	L92340075F04									
365	4.005	3.622	6.125	1.314	0.927	-4cc	444	9.7			4032	0.530	0.0025	0.0033	930223105	L9234005F04									
366	4.010						446	9.8							930223110	L9234010F04									
370	4.030						448	10.0							930223130	L9234030F04									
376	4.065						456	10.1							930223165	L9234065F04									
377	4.070						458	10.1							930223170	L9234070F04									
378	4.075						460	10.2							930223175	L9234075F04									
403	4.005	4.000	6.125	1.105	0.927	-4cc	393	10.8			4032	0.500	0.0025	0.0033	930223205	L92405005F04									
408	4.030						402	10.9							930223230	L92405030F04									
415	4.065						415	11.1							930223265	L92405065F04									
416	4.070						417	11.1							930223270	L92405070F04									
417	4.075						418	11.2							930223275	L92405075F04									
427	4.070	4.125	6.125	1.045R	0.927	-8cc	421	11.1			2618	0.500	0.0046	0.0054	930223470*										

Compression Heights with "R" INCLUDE Oil Support Rails

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

LS3 / L92 INVERTED DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set Included								70cc																	
366	4.010	3.622	6.125	1.314	0.927	-12cc	443	9.1			2618	0.530	0.0050	0.0058	930224510	L92314010I2									
370	4.030						450	9.1							930224530	L92314030I2									
377	4.070						465	9.3							930224570	L92314070I2									
408	4.030	4.000	6.125	1.105R	0.927	-20cc	415	9.3			2618	0.500	0.0050	0.0058	930224630	L92405030I20									
416	4.070					-25cc	428	9.1			4032	0.500	0.0025	0.0033	930224770	L92405070I25									
417	4.075						430	9.2							930224775	L92405075I25									
428	4.125						429	9.3							930224825	L92405125I25									
415	4.065			1.105R		-25cc	431	9.1			2618	0.500	0.0046	0.0054	930224965*										
416	4.070						433	9.1							930224970*										
428	4.125						450	9.3							930225025*										
429	4.130						452	9.3							930225030*	L92405130P25									
427	4.065	4.125	6.125	1.055R	0.927	-8cc	421	10.8			4032	0.500	0.0025	0.0033	930225265	L92055065I08									
428	4.070						423	10.9							930225270	L92055070I08									
428	4.075						424	10.9							930225275	L92055075I08									

Compression Heights with "R" INCLUDE Oil Support Rails

*PowerPak Plus 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 Meas.	Guide Min	Max	Assembly Part No.	Old Part No.	
LS3/L92 DOME															
1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included															
								70cc							
365	4.005	3.622	6.125	1.314	0.927	2cc	484	10.5	4032	0.500	0.0025	0.0033	197719205		
366	4.010						486	10.5					197719210		
370	4.030						494	10.6					197719230		
376	4.065						508	10.7					197719265		
377	4.070						510	10.8					197719270		
378	4.075						512	10.8					197719275		
365	4.005	3.622	6.125	1.304	0.927	12cc	468	11.9	2618	0.500	0.0046	0.0054	197714805*		
366	4.010						470	11.9					197714810*		
370	4.030						477	12.0					197714830*		
376	4.065						490	12.2					197714865*		
377	4.070						492	12.2					197714870*		
378	4.075						494	12.3					197714875*		

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

LSA/LS3/LS9 INVERTED DOME

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included															
								69cc							
376	4.065	3.622	6.125	1.299	0.927	-4.5cc	480	10.0	2618	0.500	0.0046	0.0054	197813865*		
377	4.070						482	10.0					197813870*		

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

LT1 FLAT TOP

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included															
								60cc							
376	4.065	3.622	6.125	1.304	0.927	-4cc	483	11.5	2618	0.500	0.0046	0.0054	930228765*		
377	4.070						485	11.6					930228770*		
376	4.065					-16cc	442	10.1					930228365*		
377	4.070						443	10.1					930228370*		
415	4.065	4.000	6.125	1.105	0.927	-4cc	441	12.0	2618	0.500	0.0046	0.0054	930165365*		
416	4.070						443	12.1					930165370*		
427	4.125					-6cc	457	12.3					930173225*		
428	4.130						459	12.4					930173230*		
416	4.070					-22cc	412	10.0					930228070*		

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

LT1 INVERTED DOME

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included															
								60cc							
376	4.065	3.622	6.125	1.304	0.927	-16cc	442	10.1	2618	0.500	0.0046	0.0054	930228365*		
377	4.070						443	10.1					930228370*		
416	4.070	4.000	6.125	1.105	0.927	-22cc	412	10.0	2618	0.500	0.0046	0.0054	930228070*		

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

LSX COMBO FLAT TOP- Valve Pockets fit LS1, LS7, or L92 Heads

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included								64cc	70cc	72cc						
438	4.125	4.125	6.125	1.045R	0.927	-8cc	446	11.5	10.8	10.6	4032	0.500	0.0025	0.0033	930226525	LSX045125F08
439	4.130						448	11.6	10.9	10.7					930226530	LSX045130F08

Compression Heights with "R" INCLUDE Oil Support Rails

NHRA LEGAL COPO CAMARO

Does not include rings or pins. Made to order call for bore sizes/other tech

70cc

2014-2015 COPO 350 Supercharged 530HP - .043", .043", 3.0mm Ring Grooves

350	4.065*	3.370	6.350	1.200	0.927	12.7cc	484	Dependent Upon Bore Size	2618	0.435	0.0056	0.0064	197715800**	
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2016 COPO Supercharged 580HP - .043", .043", 3.0mm Ring Grooves

350	4.125*	3.370	6.350	1.200	0.927	12.7cc	484	Dependent Upon Bore Size	2618	0.435	0.0056	0.0064	197767300**	
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2013-2015 COPO 396 390HP - 1.5mm, 1.5mm, 3.0mm Ring Grooves

396	4.065*	3.825	6.125	1.105	0.927	-4cc	396	Dependent Upon Bore Size	4032	0.500	0.0026	0.0034	197758000**	
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2012-2015 COPO 427 425-430HP - .043", .043", 3.0mm Ring Grooves

427	4.125*	4.000	6.100	1.140	0.927	12cc	468	Dependent Upon Bore Size	2618	0.500	0.0046	0.0054	930148500**	
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*Available in bore sizes up to the legal NHRA limit of .080" oversize

**PowerPak Plus 2618 Alloy

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.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.
								112cc	118cc	124cc		Min	Max			
BIG BLOCK CHEVY FLAT TOP																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
460	4.280	4.000	6.135	1.645	0.990	-3cc	528	8.6	8.2	7.9	4032	0.500	0.0041	0.0049	929870180	BBC645280F03
468	4.310						542	8.6	8.3	8.0					929870110	BBC645310F03
509	4.500						574	9.3	8.9	8.6					928956200	BBC645500F03
515	4.530						588	9.4	9.0	8.6					928956230	BBC645630F03
509	4.500	4.000	6.385	1.395	0.990	-3cc	537	9.3	8.9	8.6	4032	0.600	0.0041	0.0049	928906700	BBC395500F03
532	4.600						584	9.7	9.3	8.9					928906701	BBC395600F03
489	4.280	4.250	6.385	1.270R	0.990	-3cc	469	9.1	8.7	8.3	4032	0.250	0.0041	0.0049	929869580	BBC270280F03
496	4.310						481	9.2	8.8	8.4					929869510	BBC270310F03
498	4.320						485	9.2	8.8	8.5					929869520	BBC270320F03
505	4.350						498	9.3	8.9	8.6					929869550	BBC270350F03
540	4.500						513	9.8	9.4	9.1	4032	0.445	0.0041	0.0049	928957000	BBC270600F03
555	4.560						540	10.0	9.6	9.3					928957060	BBC270660F03
565	4.600						558	10.2	9.8	9.4					928957001	BBC270600F03
604	4.500	4.750	6.660	1.160R	0.990	-3cc	494	10.9	10.4	10.0	4032	0.375	0.0041	0.0049	929908800	BBC160600F03
632	4.600						537	11.3	10.8	10.4					929908801	BBC160600F03

Compression Heights with "R" INCLUDE Oil Support Rails

BIG BLOCK CHEVY 502 MARINE "DROP IN" REPLACEMENT

1/16", 1/16", 3/16" File Fit Performance Ring Set included																
118cc																
509	4.500	4.000	6.135	1.645	0.990	-3cc	679	9.0			4032	0.415	0.0041	0.0049	930077100	MER645500F03

BIG BLOCK CHEVY DOME

1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
112cc 118cc 124cc																
460	4.280	4.000	6.135	1.645	0.990	28cc	626	11.1	10.5	9.9	2618	0.855	0.0061	0.0069	928973780	BBC645280D28
468	4.310						640	11.2	10.6	10.1					928973710	BBC645310D28
460	4.280	4.000	6.385	1.395	0.990	28cc	587	11.1	10.5	9.9	2618	0.600	0.0061	0.0069	928914180	BBC395280D28
467	4.310						601	11.2	10.6	10.1					928914110	BBC395310D28
460	4.280					48cc	616	13.8	12.9	12.0	2618	0.600	0.0061	0.0069	928909180	BBC395280D48
467	4.310						629	14.0	13.0	12.2					928909110	BBC395310D48
540	4.500	4.250	6.385	1.270R	0.990	10cc	538	10.9	10.4	9.9	4032	0.445	0.0041	0.0049	929907500	BBC270500D40
540	4.500					13cc	543	11.1	10.6	10.1	4032	0.445	0.0041	0.0049	928965300	BBC270500D43
548	4.530						557	11.2	10.7	10.2					928965330	BBC270530D43
555	4.560						570	11.4	10.8	10.3					928965360	BBC270560D43
565	4.600						588	11.5	11.0	10.5					928965301	BBC270600D43
489	4.280					18cc	526	10.7	10.2	9.7	4032	0.250	0.0041	0.0049	929907180	BBC270280D48
496	4.310						539	10.8	10.3	9.8					929907110	BBC270310D48
498	4.320						543	10.9	10.3	9.8					929907120	BBC270320D48
505	4.350						555	11.0	10.4	9.9					929907150	BBC270350D48
540	4.500					38cc	590	14.1	13.2	12.5	2618	0.445	0.0061	0.0069	928980200	BBC270500D38
555	4.560						616	14.4	13.5	12.8					928980260	BBC270560D38
565	4.600						635	14.6	13.7	12.9					928980201	BBC270600D38
489	4.280					43cc	578	13.8	12.9	12.1	2618	0.445	0.0061	0.0069	929906780	BBC270280D43
496	4.310						591	13.9	13.0	12.2					929906710	BBC270310D43
498	4.320						595	14.0	13.1	12.3					929906720	BBC270320D43
505	4.350						608	14.1	13.2	12.4					929906750	BBC270350D43
496	4.310					48cc	605	14.8	13.7	12.8	2618	0.445	0.0061	0.0069	929934210	BBC270310D48
505	4.350						622	15.0	14.0	13.0					929934250	BBC270350D48
504	4.280	4.375	6.385	1.228R	0.990	18cc	537	11.0	10.4	9.9	4032	0.402	0.0041	0.0049	929907280	BBC228280D48
511	4.310						549	11.1	10.5	10.1					929907210	BBC228310D48
511	4.310					41cc	578	14.0	13.1	12.3	2618	0.400	0.0061	0.0069	929906910	BBC228310D41

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.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas. Min Max			Assembly Part No.	Old Part No.
BIG BLOCK CHEVY ELITE SPORTSMAN DRAG SERIES																
.043", .043", 3.0mm Rings, not included																
Available in Standard or Low Tension																
112cc 118cc 124cc																
Std. Tension Ring Part #																
565	4.600	4.250	6.385	1.270R	0.990	47cc	663	16.2	15.1	14.1	2618	0.500	0.0061	0.0069	930239300	4605SS-043*
566	4.605						666	16.2	15.1	14.2					930239305	4610SS-043*
567	4.610						668	16.3	15.2	14.2					930239310	4615SS-043*
571	4.625						676	16.4	15.3	14.3					930239325	4630SS-043*
582	4.600	4.375	6.385	1.215R	0.990	47cc	652	16.7	15.5	14.5	2618	0.500	0.0061	0.0069	930239400	4605SS-043*
583	4.605						654	16.7	15.5	14.6					930239405	4610SS-043*
584	4.610						656	16.7	15.6	14.6					930239410	4615SS-043*
588	4.625						664	16.8	15.7	14.7					930239425	4630SS-043*
598	4.600	4.500	6.385	1.155R	0.990	45cc	633	16.6	15.5	14.6	2618	0.500	0.0061	0.0069	930239200	4605SS-043*
599	4.605						635	16.7	15.6	14.6					930239205	4610SS-043*
601	4.610						637	16.7	15.6	14.6					930239210	4615SS-043*
605	4.625						645	16.8	15.7	14.7					930239225	4630SS-043*
565	4.600	4.250	6.535	1.120R	0.990	42cc	617	15.2	14.2	13.4	2618	0.500	0.0061	0.0069	930239100	4605SS-043*
566	4.605						619	15.3	14.3	13.4					930239105	4610SS-043*
567	4.610						621	15.3	14.3	13.4					930239110	4615SS-043*
571	4.625						628	15.4	14.4	13.5					930239125	4630SS-043*
598	4.600	4.500	6.800	1.120R	0.990	42cc	617	16.1	15.1	14.2	2618	0.500	0.0061	0.0069	930239100	4605SS-043*
599	4.605						619	16.1	15.1	14.2					930239105	4610SS-043*
601	4.610						621	16.2	15.1	14.2					930239110	4615SS-043*
605	4.625						628	16.3	15.2	14.3					930239125	4630SS-043*
632	4.600	4.750	6.700	1.120R	0.990	42cc	617	16.9	15.9	14.9	2618	0.500	0.0061	0.0069	930239100	4605SS-043*
633	4.605						619	17.0	15.9	14.9					930239105	4610SS-043*
634	4.610						621	17.0	15.9	14.9					930239110	4615SS-043*
638	4.625						628	17.1	16.0	15.0					930239125	4630SS-043*
632	4.600	4.750	6.700	1.120R	0.990	47cc	631	18.6	17.3	16.1	2618	0.500	0.0061	0.0069	930239500	4605SS-043*
633	4.605						633	18.7	17.3	16.2					930239505	4610SS-043*
634	4.610						635	18.7	17.4	16.2					930239510	4615SS-043*
638	4.625						642	18.8	17.5	16.3					930239525	4630SS-043*
598	4.600	4.500	6.800	1.120R	0.990	47cc	631	17.1	15.9	14.9	2618	0.500	0.0061	0.0069	930239500	4605SS-043*
599	4.605						633	17.1	15.9	14.9					930239505	4610SS-043*
601	4.610						635	17.2	16.0	15.0					930239510	4615SS-043*
605	4.625						642	17.3	16.1	15.1					930239525	4630SS-043*
565	4.600	4.250	6.535	1.120R	0.990	47cc	631	16.2	15.1	14.1	2618	0.500	0.0061	0.0069	930239500	4605SS-043*
566	4.605						633	16.2	15.1	14.2					930239505	4610SS-043*
567	4.610						635	16.3	15.2	14.2					930239510	4615SS-043*
571	4.625						642	16.4	15.3	14.3					930239525	4630SS-043*
582	4.600	4.375	6.535	1.060R	0.990	47cc	617	17.2	16.0	14.9	2618	0.500	0.0061	0.0069	930239600	4605SS-043*
583	4.605						619	17.3	16.0	15.0					930239605	4610SS-043*
584	4.610						621	17.3	16.1	15.0					930239610	4615SS-043*
588	4.625						628	17.4	16.2	15.1					930239625	4630SS-043*
582	4.600	4.375	6.535	1.060R	0.990	40cc	597	15.3	14.3	13.5	2618	0.500	0.0061	0.0069	930239000	4605SS-043*
583	4.605						599	15.3	14.4	13.5					930239005	4610SS-043*
584	4.610						602	15.4	14.4	13.5					930239010	4615SS-043*
588	4.625						609	15.5	14.5	13.6					930239025	4630SS-043*

Compression Heights with "R" INCLUDE Oil Support Rails

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

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

SMALL BLOCK FORD FLAT TOP

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

								58cc	64cc	70cc						
358	4.030	3.500	5.956	1.775	0.912	-6.5cc	497	11.0	10.2	9.6	4032	0.500	0.0025	0.0033	930244030	SBF775030F06
306	4.030	3.000	5.090	1.600	0.912	-6.5cc	477	9.6	8.9	8.4	4032	0.500	0.0025	0.0033	930244130	SBF600030F06
308	4.040						481	9.6	9.0	8.4					930244140	SBF600040F06
393	4.030	3.850	5.956	1.600	0.912	-6.5cc	477	12.0	11.2	10.5	4032	0.500	0.0025	0.0033	930244130	SBF600030F06
395	4.040						481	12.1	11.2	10.5					930244140	SBF600040F06
393	4.030	3.850	6.200	1.350	0.927	-6.5cc	445	12.0	11.2	10.5	4032	0.500	0.0025	0.0033	930244230	SBF350030F06
408	4.030	4.000	6.250	1.245	0.927	-6.5cc	431	12.4	11.6	10.8	4032	0.500	0.0025	0.0033	930244330	SBF245030F06
410	4.040						435	12.5	11.6	10.9					930244340	SBF245040F06
414	4.060						442	12.6	11.7	11.0					930244360	SBF245060F06
428	4.125						415	13.0	12.1	11.3					930244425	SBF245125F06
430	4.130						417	13.0	12.1	11.3					930244430	SBF245130F06
434	4.155						426	13.2	12.3	11.5					930244455	SBF245155F06

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.				
								58cc	64cc	70cc		Min	Max							
SMALL BLOCK FORD FLAT TOP continued																				
1.0, 1.0, 2.0mm File Fit Performance Ring Set included								58cc	64cc	70cc										
418	4.030	4.100	6.200	1.245	0.927	-6.5cc	431	12.7	11.8	11.1	4032	0.500	0.0025	0.0033	930244330	SBF245030F06				
420	4.040						435	12.8	11.9	11.1					930244340	SBF245040F06				
425	4.060						442	12.9	12.0	11.2					930244360	SBF245060F06				
438	4.125						415	13.3	12.4	11.6					930244425	SBF245125F06				
440	4.130						417	13.3	12.4	11.6					930244430	SBF245130F06				
445	4.155						426	13.5	12.6	11.7					930244455	SBF245155F06				
425	4.030	4.170	6.250	1.165	0.927	-6.5cc	409	13.0	12.1	11.3	4032	0.500	0.0025	0.0033	930244530	SBF165030F06				
428	4.040						412	13.1	12.2	11.4					930244540	SBF165040F06				
447	4.125						405	10.8	10.0	9.4					930244625	SBF165125F06				
452	4.155						415	10.9	10.1	9.5					930244655	SBF165155F06				
331	4.030	3.250	5.400	1.165	0.927	-6.5cc	409	10.4	9.7	9.1	4032	0.500	0.0025	0.0033	930244530	SBF165030F06				
333	4.040						412	10.5	9.7	9.1					930244540	SBF165040F06				
347	4.125						405	10.8	10.0	9.4					930244625	SBF165125F06				
352	4.155						415	10.9	10.1	9.5					930244655	SBF165155F06				
383	4.030	3.750	6.200	1.125	0.927	-6.5cc	407	11.7	10.9	10.2	4032	0.500	0.0025	0.0033	930173130*					
385	4.040						411	11.8	11.0	10.2					930173140*					
342	4.000	3.400	5.400	1.090	0.927	-6.5cc	385	10.7	9.9	9.3	4032	0.500	0.0025	0.0033	930244700	SBF090000F06				
347	4.030						395	10.8	10.1	9.4					930244730	SBF090030F06				
348	4.035						397	10.8	10.1	9.4					930244735	SBF090035F06				
349	4.040						398	10.9	10.1	9.5					930244740	SBF090040F06				
352	4.060						405	11.0	10.2	9.6					930244760	SBF090060F06				
364	4.125						404	11.2	10.5	9.8					930244825	SBF090125F06				
369	4.155						414	11.4	10.6	9.9					930244855	SBF090155F06				

*Designed for 9.200" Deck Height Blocks

SMALL BLOCK FORD SEALED RACE ENGINES

1.0, 1.0, 2.0mm File Fit Performance Ring Set included								58cc	64cc	70cc										
374	4.125	3.500	6.200	1.245	0.927	-6cc	415	13.0	12.1	11.3	4032	0.500	0.0025	0.0033	930244425**	SBF245125F06				
375	4.128						416	13.0	12.1	11.3					930244428**	SBF245128F06				
376	4.130						417	13.0	12.1	11.4					930244430**	SBF245130F06				
377	4.132						418	13.1	12.2	11.4					930244432**	SBF245132F06				
378	4.135						419	13.1	12.2	11.4					930244435**	SBF245135F06				
347	4.030	3.400	5.400	1.090	0.927	-6cc	397	10.8	10.1	9.4	4032	0.500	0.0025	0.0033	930244730*	SBF090030F06				
347	4.032						398	10.8	10.1	9.4					930244732*	SBF090032F06				
348	4.035						399	10.8	10.1	9.4					930244735*	SBF090035F06				
348	4.037						400	10.9	10.1	9.5					930244737*	SBF090037F06				
349	4.040						401	10.9	10.1	9.5					930244740*	SBF090040F06				
349	4.042						402	11.0	10.2	9.6					930244742*	SBF090042F06				
350	4.045						403	11.0	10.2	9.6					930244745*	SBF090045F06				

* 8.2" Deck Height, for FRPD347SR and S347JR

** 9.2" Deck Height, for FRP S374W

SMALL BLOCK FORD DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set included								58cc	64cc	70cc										
331	4.030	3.250	5.400	1.165	0.927	7cc	483	12.4	11.4	10.5	4032	0.360	0.0025	0.0033	930247030	SBF165030D07				
347	4.030	3.400	5.400	1.090	0.927	7cc	469	13.0	11.9	11.0	2618	0.500	0.0025	0.0033	930247130	SBF090030D07				

SMALL BLOCK FORD INVERTED DOME

1.0, 1.0, 2.0mm File Fit Performance Ring Set included								58cc	64cc	70cc										
393	4.030	3.850	5.956	1.600	0.912	-26cc	464	9.7	9.2	8.7	4032	0.725	0.0025	0.0033	930248130	SBF600030I26				
395	4.040						469	9.8	9.2	8.8					930248140	SBF600040I26				
408	4.030	4.000	6.200	1.300	0.927	-20cc	418	10.7	10.0	9.5	4032	0.500	0.0025	0.0033	930248230	SBF300030I20				
410	4.040						422	10.7	10.1	9.5					930248240	SBF300040I20				
408	4.030					-28cc	427	9.9	9.3	8.9	4032	0.425	0.0025	0.0033	930248330	SBF300030I28				
408	4.030	4.000	6.250	1.245	0.927	-26cc	416	10.1	9.5	9.0	4032	0.250	0.0025	0.0033	930248430	SBF245030I26				
410	4.040						420	10.1	9.6	9.1					930248440	SBF245040I26				
418	4.030	4.100	6.200	1.245	0.927	-26cc	416	10.5	9.9	9.4	4032	0.250	0.0025	0.0033	930248430	SBF245030I26				
420	4.040						420	10.6	10.0	9.5					930248440	SBF245040I26				
427	4.125	4.000	6.250	1.245	0.927	-26cc	408	10.3	9.7	9.2	4032	0.440	0.0025	0.0033	930248525	SBF245125I26				
438	4.125	4.100	6.200	1.245	0.927	-26cc	408	10.7	10.1	9.6	4032	0.440	0.0025	0.0033	930248525	SBF245125I26				

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.
								58cc	64cc	70cc		Min	Max			
SMALL BLOCK FORD INVERTED DOME continued																
1.0, 1.0, 2.0mm File Fit Performance Ring Set included																
408	4.030	4.000	6.250	1.230	0.927	-20cc	409	10.7	10.0	9.5	4032	0.500	0.0025	0.0033	930248730	SBF230030I20
410	4.040						412	10.7	10.1	9.5					930248740	SBF230040I20
425	4.030	4.170	6.250	1.165	0.927	-16cc	402	11.6	10.8	10.2	4032	0.500	0.0025	0.0033	930248830	SBF165030H6
428	4.040						406	11.6	10.9	10.3					930248840	SBF165040H6
445	4.125						413	11.6	11.0	10.3					930245025	SBF165125H6
452	4.155						419	11.6	11.0	10.4					930245055	SBF125155H6
331	4.030	3.250	5.400	1.165	0.927	-16cc	406	9.3	8.7	8.2	4032	0.500	0.0025	0.0033	930248830	SBF165030H6
333	4.040						409	9.3	8.7	8.2					930248840	SBF165040H6
345	4.125						413	9.4	8.8	8.3					930245025	SBF165125H6
352	4.155						419	9.4	8.8	8.3					930245055	SBF125155H6
347	4.030	3.400	5.400	1.090R	0.927	-16cc	389	9.6	9.0	8.5	4032	0.500	0.0025	0.0033	930249130	SBF090030H6
349	4.040						392	9.7	9.1	8.6					930249140	SBF090040H6
351	4.060						399	9.8	9.2	8.7					930249160	SBF090060H6
364	4.125						412	10.1	9.4	8.9	4032	0.260	0.0025	0.0033	930249025	SBF090125H6

Compression Heights with "R" INCLUDE Oil Support Rails

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

1.0, 1.0, 2.0mm File Fit Performance Ring Set included																
61cc																
331	4.030	3.250	5.400	1.165	0.927	-6cc	438	10.0			4032	0.250	0.0025	0.0033	930250130	TWF165030F06
333	4.040						442	10.1							930250140	TWF165040F06
347	4.030	3.400	5.400	1.090	0.927	-6cc	425	10.4			4032	0.500	0.0025	0.0033	930250330	TWF090030F06
349	4.040						429	10.5							930250340	TWF090040F06

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

1.0, 1.0, 2.0mm File Fit Performance Ring Set included																
61cc																
331	4.030	3.250	5.400	1.165	0.927	-16cc	437	8.9			4032	0.250	0.0025	0.0033	930251030	TWF165030H6
333	4.040						441	9.0							930251040	TWF165040H6
347	4.030	3.400	5.400	1.090R	0.927	-16cc	421	9.3			4032	0.500	0.0025	0.0033	930251130	TWF090030H6
349	4.040						425	9.4							930251140	TWF090040H6
363	4.125					-18cc	466	9.5			4032	0.500	0.0025	0.0033	930251225	TWF090125H6

Compression Heights with "R" INCLUDE Oil Support Rails

SMALL BLOCK FORD CLEVELAND

1.0, 1.0, 2.0mm File Fit Performance Ring Set included																
60cc 64cc 72cc																
358	4.030	3.500	6.000	1.450	0.927	-3cc	477	11.3	10.7	9.8	4032	0.530	0.0025	0.0033	930252030	FCL450030F03
393	4.030	3.850	6.000	1.275	0.927	-3cc	464	12.2	11.6	10.6	4032	0.320	0.0025	0.0033	930252130	FCL275030F03
395	4.040						468	12.3	11.7	10.7					930252140	FCL275040F03
408	4.030	4.000	6.000	1.200	0.927	-20cc	443	10.5	10.1	9.3	4032	0.245	0.0025	0.0033	930252430	FCL200030I20
408	4.030					-3cc	455	12.7	12.1	11.0		0.245	0.0025	0.0033	930252630	FCL200030F03

FORD MODULAR 4.6 2-VALVE or 4-VALVE

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	-16cc	350	9.9	9.4	8.7	M142	0.390	0.0006	0.0014	930256052	MOD220551H16
284	3.572						357	10.0	9.5	8.8					930256072	MOD220571H16
285	3.582						361	10.1	9.5	8.8					930256082	MOD220581H16
284	3.572					-22cc	379	9.2	8.8	8.2	2618	0.420	0.0026	0.0034	930256172*	MOD220571P22
281	3.552					0cc	387	12.9	12.0	10.8	M142	0.410	0.0006	0.0014	930256252	MOD220551F00
284	3.572						394	13.0	12.1	10.9					930256272	MOD220571F00

*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications; for Use with Aftermarket Rods Only

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

Call for bore sizes/other tech - 1.5mm, 1.5mm, 3.0mm Ring Grooves																
52cc																
330	3.553	3.543	5.930	1.220	0.866	-13cc	364	Dependent Upon Bore Size			M142	0.500	0.0060	0.0014	197740100	

Available in bore sizes up to the legal NHRA limit of .080" oversize

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Max	Assembly Part No.	Old Part No.
FORD MODULAR 5.4 2-VALVE or 4 VALVE														
1.0, 1.0, 2.0mm File Fit Performance Ring Set included														
								42cc 46cc 52cc						
330	3.552	4.165	6.657	1.220	0.866	-16cc	350	9.0 8.6 8.1	M142	0.390	0.0006	0.0014	930256052	MOD220554H16
334	3.572						357	9.1 8.7 8.2					930256072	MOD220574H16
336	3.582						361	9.1 8.8 8.3					930256082	MOD220584H16
334	3.572					-22cc	379	8.5 8.2 7.8	2618	0.420	0.0026	0.0034	930256172*	MOD220574P22
330	3.552					0cc	387	10.9 10.4 9.6	M142	0.410	0.0006	0.0014	930256252	MOD220554F00
334	3.572						394	11.0 10.5 9.7					930256272	MOD220574F00

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

FORD 5.0L MODULAR 4-VALVE COYOTE

1.0, 1.0, 2.0mm File Fit Performance Ring Set included														
								57cc						
302	3.630	3.650	5.933	1.167	0.866	10cc	397	12.5	2618	0.250	0.0026	0.0034	930258130*	
304	3.640						400	12.5					930258140*	

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

FORD 5.0L/5.2L MODULAR 4-VALVE COYOTE/VOODOO

1.0mm, 1.0mm, 2.0mm File Fit Performance Ring Set Included														
								57cc						
302	3.630	3.650	5.933	1.167	0.866	3cc	389	11.2	M142	0.250	0.0006	0.0014	930258030**	
304	3.640						392	11.2					930258040**	
302	3.630					-5cc	378	10.0	M142	0.250	0.0006	0.0014	930134030**	M4V167630I05
304	3.640						381	10.0					930134040**	M4V167640I05
302	3.630					-13cc	355	9.0					930258230*	
304	3.640						358	9.0					930258240*	

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

**Hard Anodized Top Ring Groove For Extreme Duty Applications

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

Call for bore sizes/other tech - 1.2mm, 1.2mm, 2.5mm Ring Grooves														
								57cc						
302	3.630	3.650	5.933	1.167	0.866	-9cc	350	Dependent Upon Bore Size	2618	0.500	0.0026	0.0034	197736200*	
	3.650												197736200*	
	3.700												197736200*	

*PowerPak Plus 2618 Alloy

Available in bore sizes up to the legal NHRA limit of .080" oversize

FORD FLATHEAD - 3/16" STANDARD DOME

1/16, 1/16, 3/16 Performance Ring Set included														
								65cc 74cc						
276	3.312	4.000	7.000	1.438	0.750	13cc	338	9.0 8.1	4032	0.500	0.0016	0.0024	930260012	FFH438312D13
281	3.342						348	9.1 8.2					930260042	FFH438342D13
286	3.375						359	9.3 8.4					930260075	FFH438375D13
284	3.312	4.125	7.000	1.375	0.750	13cc	324	9.2 8.3	4032	0.500	0.0016	0.0024	930260112	FFH375312D13
290	3.342						333	9.4 8.4					930260142	FFH375342D13
295	3.375						344	9.6 8.6					930260175	FFH375375D13
293	3.312	4.250	7.000	1.313	0.750	13cc	310	9.5 8.5	4032	0.500	0.0016	0.0024	930260212	FFH313312D13
298	3.342						320	9.6 8.6					930260242	FFH313342D13
304	3.375						330	9.8 8.8					930260275	FFH313375D13

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

BIG BLOCK FORD

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	591	10.4 9.7 9.4	4032	0.235	0.0041	0.0049	930246490	BBF525390I28
514	4.440						610						930246440	BBF525440I28
503	4.390					-3cc	TBD	13.1 12.1 11.6	2618	0.235	0.0061	0.0069	930261590	BBF525390F03
514	4.440						TBD	13.3 12.3 11.8					930261540	BBF525440F03
520	4.390	4.300	6.800	1.350	0.990	-38cc	564	10.3 9.7 9.5	4032	0.235	0.0041	0.0049	930245690	BBF350390I38
532	4.440						585	10.5 9.9 9.7					930245640	BBF350440I38
520	4.390					-3cc	TBD	13.4 12.3 11.9	2618	0.235	0.0061	0.0069	930261690	BBF350390F03
532	4.440						TBD	13.7 12.6 12.1					930261640	BBF350440F03
545	4.390	4.500	6.700	1.350	0.990	-38cc	564	10.3 9.7 9.5	4032	0.235	0.0041	0.0049	930245690	BBF350390I38
557	4.440						585	10.5 9.9 9.7					930245640	BBF350440I38
545	4.390					-3cc	TBD	14.2 13.0 12.5	2618	0.235	0.0061	0.0069	930261690	BBF350390F03
557	4.440						TBD	14.5 13.3 12.8					930261640	BBF350440F03

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio			Alloy	Clearance Guide Meas.			Assembly Part No.	Old Part No.				
								80cc	90cc	100cc		Min	Max							
BIG BLOCK FORD for the SCJ, KAASE P-51®, 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	-28cc	591	10.4	9.7	9.4	4032	0.235	0.0041	0.0049	930261990					
514	4.440						610													
503	4.390	4.150	6.700	1.525	0.990	-3cc	TBD	13.1	12.1	11.6	2618	0.235	0.0061	0.0069	930261790					
514	4.440						TBD	13.3	12.3	11.8										
520	4.390	4.300	6.800	1.350	0.990	-38cc	564	10.3	9.7	9.5	4032	0.235	0.0041	0.0049	930245690	BBF350390I38				
532	4.440						585	10.5	9.9	9.7										
520	4.390	4.300	6.800	1.350	0.990	-3cc	TBD	13.4	12.3	11.9	2618	0.235	0.0061	0.0069	930261890					
532	4.440						TBD	13.7	12.6	12.1										
545	4.390	4.500	6.700	1.350	0.990	-38cc	564	10.3	9.7	9.5	4032	0.235	0.0041	0.0049	930245690	BBF350390I38				
557	4.440						585	10.5	9.9	9.7										
545	4.390	4.500	6.700	1.350	0.990	-3cc	TBD	14.2	13.0	12.5	2618	0.235	0.0061	0.0069	930261890					
557	4.440						TBD	14.5	13.3	12.8										

BIG BLOCK FORD for the KAASE BOSS NINE® CYLINDER HEAD

1.5, 1.5, 3.0mm File Fit Performance Ring Set included																			
								84cc	90cc										
520	4.390	4.300	6.800	1.345	0.990	-8cc	615		11.3	10.7	4032	0.500	0.0041	0.0049	930022790	KB9345390F08			
545	4.390	4.500	6.700	1.345	0.990	-8cc	615		11.7	11.1	4032	0.500	0.0041	0.0049	930022790	KB9345390F08			
545	4.390			1.345	0.990	-19cc	600		10.7	10.2	4032	0.250	0.0041	0.0049	930190990	930190990			

FORD FE FLAT TOP

1.0, 1.0, 2.0mm File Fit Performance Ring Set included																				
								68cc	72cc	76cc										
407	4.080	3.980	6.490	1.665	0.975	-7cc	507	11.0	10.5	10.1	4032	0.500	0.0025	0.0033	930264080	FFE665080F07				
431	4.080	4.125	6.700	1.390	0.990	-7cc	473	11.6	11.1	10.7	4032	0.235	0.0025	0.0033	930264280	FFE390080F07				
434	4.090						477	11.6	11.1	10.8										
444	4.080	4.250	6.700	1.325	0.990	-7cc	473	11.8	11.3	10.8	4032	0.500	0.0025	0.0033	930264680	FFE325080F07				
447	4.090						477	11.8	11.3	10.9										
449	4.100						481	11.9	11.4	10.9					930264600	FFE325100F07				
462	4.160						505	12.2	11.7	11.2					930265160	FFE325160F07				
464	4.170						509	12.3	11.8	11.3					930265170	FFE325170F07				
467	4.180						513	12.3	11.8	11.3					930265180	FFE325180F07				
482	4.250					-9cc	487	12.5	12.0	11.5	4032	0.500	0.0041	0.0049	930266050	FFE325250F09				
487	4.270						495	12.6	12.1	11.6					930266070	FFE325270F09				
489	4.280						500	12.7	12.1	11.7					930266080	FFE325280F09				

FORD FE INVERTED

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	503	9.6	9.3	9.0	4032	0.235	0.0025	0.0033	930264180	FFE390080I26				
433	4.090																			
445	4.080	4.250	6.700	1.325	0.990	-18cc	491	10.4	10.0	9.7	4032	0.500	0.0025	0.0033	930264480	FFE325080I20				
447	4.090						496	10.4	10.1	9.7										
449	4.100						500	10.5	10.1	9.8					930264400					
462	4.160					-20cc	519	10.8	10.4	10.0					930265060					
464	4.170						523	10.8	10.4	10.1					930265070					
467	4.180						527	10.8	10.5	10.1					930265080					
482	4.250						508	11.2	10.8	10.4	4032	0.500	0.0041	0.0049	930264550	FFE325250I20				
487	4.270						517	11.3	10.9	10.5					930264570	FFE325270I20				
489	4.280						521	11.3	10.9	10.5					930264580	FFE325280I20				
445	4.080					-28cc	495	9.7	9.3	9.1	4032	0.500	0.0025	0.0033	930264980					
447	4.090						499	9.7	9.3	9.1					930264990					
449	4.100						503	9.8	9.4	9.1					930264900					
462	4.160					-33cc	520	9.6	9.3	9.1	4032	0.235	0.0025	0.0033	930264360	FFE325160I33				

SMALL BLOCK MOPAR 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	-5cc	503	10.6	10.0	9.5	4032	0.970	0.0025	0.0033	930270070	SBM804070F05				
365	4.030	3.580	6.123	1.670	0.984	-5cc	471	11.2	10.5	10.0	4032	0.840	0.0025	0.0033	930270130	SBM670030F05				
367	4.040						475	11.2	10.6	10.0										
408	4.030	4.000	6.123	1.460	0.984	-5cc	446	12.4	11.7	11.0	4032	0.625	0.0025	0.0033	930270230	SBM460030F05				
410	4.040						449	12.4	11.7	11.1										
416	4.070						461	12.6	11.9	11.2					930270270	SBM460070F05				

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Max	Assembly Part No.	Old Part No.
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SMALL BLOCK MOPAR INVERTED DOME

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	-16cc	475	10.9	10.3	9.8	4032	0.625	0.0025	0.0033	930271030	SBM460030I16
410	4.040						479	11.0	10.4	9.9					930271040	SBM460040I16
414	4.060						486	11.0	10.5	10.0					930271060	SBM460060I16
408	4.030					-28cc	468	9.7	9.2	8.9	2618	0.625	0.0046	0.0054	930271130	SBM460030I28
410	4.040						472	9.7	9.3	8.9					930271140	SBM460040I28
416	4.070						485	9.8	9.4	9.0					930271170	SBM460070I28

BIG BLOCK MOPAR (RB) / 426, 440 Flat Top

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

72cc 80cc 84cc

446	4.350	3.750	6.760	2.065	0.990	-8cc	608	11.2	10.3	10.0	4032	0.350	0.0041	0.0049	929962750	BBM065350F08
493	4.350	4.150	6.760	1.865	0.990	-8cc	580	12.3	11.3	10.9	4032	0.350	0.0041	0.0049	929962650	BBM865350F08
499	4.375						592	12.4	11.4	11.0					929962675	BBM865375F08
505	4.350	4.250	7.100	1.475	0.990	-8cc	519	12.5	11.6	11.2	4032	0.350	0.0041	0.0049	929962550	BBM475350F08
511	4.375						530	12.7	11.7	11.3					929962575	BBM475375F08
520	4.350	4.375	7.100	1.412	0.990	-8cc	509	12.9	11.9	11.5	4032	0.350	0.0041	0.0049	929962450	BBM442350F08
535	4.350	4.500	7.100	1.350	0.990	-8cc	500	13.2	12.2	11.8	4032	0.350	0.0041	0.0049	929962350	BBM350350F08
541	4.375						510	13.3	12.3	11.9					929962375	BBM350375F08

BIG BLOCK MOPAR (B) / 383, 400 Flat Top

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

72cc 80cc 84cc

499	4.375	4.150	6.760	1.120R	0.990	-8cc	467	12.4	11.4	11.0	4032	0.350	0.0041	0.0049		
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Compression Heights with "R" INCLUDE Oil Support Rails

HEMI 5.7L Stroker

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

74cc 85cc

392	3.927	4.050	6.125	1.095R	0.927	-2cc	408	10.4	9.3		4032	0.235	0.0025	0.0033	930276227	HMI095927F02
394	3.937						411	10.4	9.3						930276237	HMI095937F02
396	3.947						415	10.5	9.4						930276247	HMI095947F02
392	3.927					6cc	434		10.5		4032	0.220	0.0025	0.0033	930276327	HMI095927D06
396	3.947						440		10.6						930276347	HMI095947D06

Compression Heights with "R" INCLUDE Oil Support Rails

HEMI 6.1L Stroker

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

74cc

420	4.065	4.050	6.125	1.095R	0.927	-12cc	415		10.0		4032	0.220	0.0025	0.0033	930277565	HMI095065H12
424	4.080						420		10.1						930277580	HMI095080H12
426	4.090						424		10.2						930277590	HMI095090H12

Compression Heights with "R" INCLUDE Oil Support Rails

NHRA LEGAL 6.1L HEMI

Call for bore sizes/other tech - 1.5mm, 1.5mm, 3.0mm Ring Grooves

74cc

370	4.055	3.580	6.200	1.262	0.927	10.5cc	512	Dependent Upon Bore Size			2618	0.250	0.0046	0.0054	9299871**	
370	4.055		6.242	1.220	0.985	-1cc	420	Dependent Upon Bore Size			4032	0.250	0.0025	0.0033	197729300*	
371	4.060														197729300*	

*Hard Anodized Top Ring Groove For Extreme Duty Applications

**PowerPak Plus 2618 Alloy and Hard Anodized Top Ring Grooves

Available in bore sizes up to the legal NHRA limit of .080" oversize

NHRA LEGAL 6.4L HEMI

Call for bore sizes/other tech - 1.2mm, 1.2mm, 2.0mm Ring Grooves

74cc

392	4.090	3.724	6.200	1.210	0.945	4cc	443	Dependent Upon Bore Size			4032	0.250	0.0025	0.0033	197729200*	
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*Hard Anodized Top Ring Groove For Extreme Duty Applications

Available in bore sizes up to the legal NHRA limit of .080" oversize

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.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Assembly Part No.	Old Part No.
										Meas.	Min	Max		
HEMI 6.1L also works with the 6.4L CYLINDER HEAD														
1.0, 1.0, 2.0mm File Fit Performance Ring Set included								74cc						
370	4.055	3.580	6.242	1.220	0.984	-1cc	426	10.0	4032	0.250	0.0025	0.0033	930277655*	HMI220055F04
371	4.060						428	10.1					930277660*	HMI220060F04
370	4.055						450	10.0	2618	0.250	0.0046	0.0054	930277855*	930277755
371	4.060						452	10.0					930277860*	930277760

*Hard Anodized Top Ring Groove For Extreme Duty Applications

HEMI 6.1L DROP-IN FORGED REPLACEMENT ASSEMBLY also works with the 6.4L CYLINDER HEAD

NO BALANCING, NO COMP RATIO CHANGE

370	4.055	3.580	6.242	1.220	0.984	-1cc	426	10.0	4032	0.250	0.0025	0.0033	930111655*
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*Hard Anodized Top Ring Groove For Extreme Duty Applications

HEMI 6.4L

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

392	4.090	3.724	6.200	1.210	0.945	4cc	443	10.5	4032	0.250	0.0025	0.0033	930279090*	HMI210090D04
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*Hard Anodized Top Ring Groove For Extreme Duty Applications

BIG BLOCK OLDSMOBILE / 455 Stroker

1/16", 1/16", 3/16" File Fit Performance Ring Set included

								72cc	80cc	84cc						
488	4.155	4.500	7.100	1.260	0.990	-22cc	489	10.7	10.1	9.7	4032	0.235	0.0025	0.0033	930274555	BB0260155I22
495	4.185						501	10.8	10.1	9.8					930274585	BB0260185I22

BIG BLOCK PONTIAC FLAT TOP / 455 Stroker

1/16", 1/16", 3/16" File Fit Performance Ring Set included

								72cc	80cc	84cc						
461	4.155	4.250	6.800	1.285	0.990	-6cc	506	11.9	11.0	10.5	4032	0.235	0.0025	0.0033	930275055	BBP285155F06
468	4.185						518	12.0	11.1	10.7					930275085	BBP285185F06
488	4.155	4.500	6.800	1.160	0.990	-6cc	480	12.5	11.5	11.1	4032	0.250	0.0025	0.0033	930275155	BBP160155F06
495	4.185						492	12.6	11.6	11.2					930275185	BBP160185F06

PREPARING THE RINGS Drop in ring sets typically require no adjustment to end gaps, but MAHLE recommends that the rings be checked for minimum end gap. File fit rings require individual gap adjustments to the top and second rings. This allows you to set the ring gap precisely to your exact needs. The following chart gives suggested minimum ring end gaps for various applications. If running aggressive boost or nitrous applications it may be necessary to increase end gaps.

PROPER RING GAP MEASUREMENT (See chart) A torque plate is highly recommended to insure correct measurements. The ring should be square in the bore, 1 inch down from the deck. Measure the end gap with a feeler gauge or other measuring device.

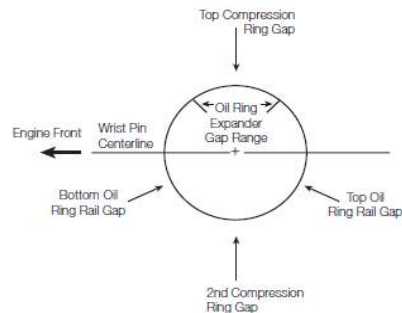
Application	Top Ring	Second Ring	Oil Ring Rail
High Performance Street - NA	Bore x 0.0045"	Bore x 0.0040"	Min 0.015"
Circle Track, Drag Racing - NA	Bore x 0.0050"	Bore x 0.0060"	Min 0.015"
Nitrous up to 200HP (25HP/cyl)	Bore x 0.0060"	Bore x 0.0050"	Min 0.015"
Nitrous over 200HP (25HP/cyl)	Bore x 0.0070"	Bore x 0.0070"	Min 0.015"
Turbo/Supercharged up to 15lb	Bore x 0.0060"	Bore x 0.0050"	Min 0.015"
Turbo/Supercharged over 15lb	Bore x 0.0070"	Bore x 0.0070"	Min 0.015"
Diesel - Turbocharged	Bore x 0.0060"	Bore x 0.0055"	Min 0.015"

OIL CONTROL RING TENSION MMS highly recommends that all wet sump or aluminum block applications use standard tension. Standard tension (3mm) expander sets are available to supplement the "ML-043" sets which are low tension.

PROPER RING FILING

The ring gap should be filed using the proper ring gap filing tool. Ring gap should only be filed in an inward direction and square to the ring sides.

PROPER RING ALIGNMENT



Due to the nature of performance applications, this information should not be considered absolute. Final decisions concerning the installation and use of these products is ultimately the responsibility of the customer.

WARNING: Tight ring gap clearances may cause major engine damage.

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

SPORT COMPACT

ACURA B18C1 DOHC VTEC 1.8L

1.0, 1.2, 2.8mm Performance Ring Set Included

41cc

81.00mm	87.2mm	137.9mm	30mm	21mm	-8cc	272	9.0	4032	0.236	0.0016	0.0024	929116289	AGR181489I08
81.50mm						277	9.0					929116209	AGR181209I08
81.50mm					-1cc	290	10.5	4032	0.236	0.0016	0.0024	929112109	AGR181209F04
81.00mm					9cc	307	12.5	4032	0.236	0.0016	0.0024	929114789	AGR181489D09
81.25mm						309	12.5					929114799	AGR181489D09
81.50mm						312	12.5					929114709	AGR181209D09

ACURA RSX K20 2.0L

1.2, 1.2, 2.8mm Performance Ring Set Included

51cc

86.00mm	86mm	139mm	30mm	22mm	-9cc	278	8.9	4032	0.236	0.0016	0.0024	929172586	AGR181386I09
86.50mm						284	9.0					929172505	AGR181405I09
87.00mm						290	9.2					929172525	AGR181426I09
86.00mm					12cc	327	12.7	4032	0.236	0.0016	0.0024	929170986	AGR181386D12
86.50mm						333	12.9					929170905	AGR181405D12
87.00mm						339	13.1					929170925	AGR181426D12

ACURA K24 2.4L

1.2, 1.2, 2.8mm Performance Ring Set Included

54cc

87.00mm	99.0mm	152.0mm	30mm	22mm	4cc	318	12.3	4032	0.236	0.0016	0.0024	930024125	AGR181425D04
87.25mm						321	12.3					930024135	AGR181435D04

FORD ST EcoBoost 2.0L

1.2, 1.2, 2.8mm Performance Ring Set Included

43cc

87.50mm	83.1mm	155.87mm	32.8mm	22.5m	-7cc	351	9.3	4032	0.250	0.0016	0.0024	197713945**	
88.00mm						354	9.4	4032	0.250	0.0016	0.0024	197713965**	
87.50mm						361	9.3	2618	0.260	0.0021	0.0029	197729445*	
88.00mm						364	9.4	2618	0.260	0.0021	0.0029	197729465*	
87.50mm					-2cc	347	10.0	4032	0.250	0.0021	0.0029	197714245**	
87.50mm					3cc	373	11.0	2618	0.250	0.0021	0.0029	197714045*	

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

**Hard Anodized Top Ring Groove For Extreme Duty Applications

FORD EcoBoost 2.3L

1.2, 1.2, 2.8mm Performance Ring Set Included

43cc

87.50mm	94.0mm	149.3mm	32.8mm	22.5m	-7cc	359	9.5	2618	0.475	0.0021	0.0029	197755345*	
88.00mm						366	9.6					197755365*	

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

**Hard Anodized Top Ring Groove For Extreme Duty Applications

HONDA B16 A1, A2, A3 DOHC VTEC 1.6L

1.0, 1.2, 2.8mm Performance Ring Set Included

42cc

81.50mm	77.4mm	134.5mm	30mm	21mm	-1cc	290	9.3	4032	0.236	0.0016	0.0024	929112109	AGR181209F04
81.00mm					9cc	307	11.4	4032	0.236	0.0016	0.0024	929114789	AGR181489D09
81.25mm						309	11.5					929114799	AGR181489D09
81.50mm						312	11.6					929114709	AGR181209D09

HONDA H22 GOLD SERIES 2.2L- FOR USE IN FACTORY FRM (FIBER REINFORCED MATRIX) CYLINDERS ONLY

1.2, 1.2, 2.8mm Performance Ring Set Included

54cc

87.00mm	90.0mm	143mm	31mm	22mm	-7cc	291	9.0	4032	0.236	0.0016	0.0024	930081525	H22220425I07
87.25mm						294	9.0					930081535	H22220435I07
87.00mm					-1cc	307	10.0	4032	0.236	0.0016	0.0024	930082325	H22220425F04
87.00mm					10cc	336	11.5	4032	0.236	0.0016	0.0024	930083125	H22220425D10
87.25mm						339	11.5					930083135	H22220435D10

HONDA S2000 F20C 2.0L 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

54cc

87.00mm					9cc	331	12.6	4032	0.374	0.0006	0.0014	929986125**	S2K181425X09**
87.10mm						332	12.5	4032	0.374	0.0006	0.0014	929986129**	S2K181429X09**
87.25mm						334	12.5	4032	0.374	0.0006	0.0014	929986135**	S2K181435X09**
87.00mm					-11cc	303	8.9	2618	0.374	0.0016	0.0024	929986425*	S2K181425P14*
87.25mm						306	8.9	2618	0.374	0.0016	0.0024	929986435*	S2K181435P14*

*PowerPak Plus 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

54cc

87.00mm					9cc	331	13.4	4032	0.374	0.0006	0.0014	929986125**	S2K181425X09**
87.10mm						332	13.5	4032	0.374	0.0006	0.0014	929986129**	S2K181429X09**
87.25mm						334	13.5	4032	0.374	0.0006	0.0014	929986135**	S2K181435X09**
87.00mm					-11cc	301	9.5	2618	0.374	0.0016	0.0024	929986425*	S2K181425P14*
87.25mm						305	9.6	2618	0.374	0.0016	0.0024	929986435*	S2K181435P14*

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

**Hard Anodized Top Ring Groove For Extreme Duty Applications

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Guide Max	Assembly Part No.	Old Part No.
HYUNDAI THETA L-4 TURBO 2.0L													
1.2, 1.2, 2.8mm Performance Ring Set Included													
86.00mm	86.0mm	146mm	30mm	22mm	-11cc	300	8.5	2618	0.260	0.0025	0.0033	929960585	HYU1481385H14
50.5cc													
HYUNDAI LAMBDA V-6 TURBO 3.8L													
1.2, 1.2, 2.8mm Performance Ring Set Included													
96.00mm	87.0mm	149.5mm	31.47mm	22mm	-23cc	396	9.0	4032	0.236	0.0016	0.0024	929959680	HYU239780I23
67cc													
MAZDA MZR													
1.2, 1.2, 2.8mm Performance Ring Set Included													
87.50mm	94.0mm	150.6mm	32.87mm	22.5mm	-15cc	342	9.5	2618	0.250	0.0021	0.0029	197723845*	
88.00mm						346	9.6					197723865*	
87.50mm						333	9.5	4032	0.250	0.0016	0.0024	197786145**	
88.00mm						337	9.6					197786165**	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
**Hard Anodized Top Ring Groove													
MITSUBISHI 4G63 2.0L 88-92 ECLIPSE													
1.2, 1.2, 2.8mm Performance Ring Set Included													
85.50mm	88.0mm	150mm	34.7mm	21mm	-10cc	313	9.0	4032	0.315	0.0016	0.0024	929981966	MIT367366H10
86.00mm						319	9.2					929981986	MIT367385H10
47cc													
MITSUBISHI 4G63 2.0L 93-02 ECLIPSE 03-09 LANCER EVO													
1.2, 1.2, 2.8mm Performance Ring Set Included													
85.50mm	100.0mm	150mm	28.7mm	22mm	-19cc	276	9.0	4032	0.236	0.0016	0.0024	930131866	EVO130366H19
86.00mm						282	9.0					930131886	EVO130385H19
85.50mm						281	9.0	2618	0.236	0.0025	0.0033	929990666*	EVO130366P19*
86.00mm						286	9.0					929990685*	EVO130385P19*
85.50mm	94.0mm	150mm	31.7mm	22mm	-14cc	312	9.0	2618	0.236	0.0025	0.0033	930143666*	EVO248366P14*
86.00mm						318	9.0					930143685*	EVO248385P14*
85.00mm	88.0mm	150mm	34.7mm	22mm	-10cc	305	9.0	4032	0.236	0.0016	0.0024	930130046	EVO367346H10
85.50mm						311	9.0					930130066	EVO367366H10
86.00mm						317	9.0					930130086	EVO367385H10
85.50mm					-10cc	315	9.0	2618	0.236	0.0025	0.0033	929925866*	EVO367366P10*
86.00mm						321	9.0					929925885*	EVO367385P10*
*PowerPak Plus 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													
86.00mm	86.0mm	143.75mm	33.37mm	23mm	-4.5cc	333	9.3	2618	0.510	0.0025	0.0033	929945985*	EVO314385P05*
86.50mm						339	9.4					929945905*	EVO314405P05*
*PowerPak Plus 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													
86.50mm	86.0mm	136mm	31.8mm	22mm	-11.5cc	307	8.5	4032	0.236	0.0016	0.0024	930101105	NIS253405H12
87.00mm						313	8.5					930101125	NIS253425H12
46.5cc													
NISSAN KA24 DET 2.4L													
NOTE : Must check oil squirter clearance, possible modification needed.													
1.2, 1.2, 2.8mm Performance Ring Set Included													
90.00mm	96.0mm	165.0mm	34mm	21mm	-24cc	366	9.0	2618	0.420	0.0025	0.0033	929931143	NIS338543I24
46cc													
NISSAN RB25DET (SKYLINE) 2.5L													
NOTE : Must check oil squirter clearance, possible modification needed.													
1.2, 1.2, 2.8mm Performance Ring Set Included													
86.50mm	71.7mm	121.5mm	31.3mm	21mm	11.5cc	353	8.5	4032	0.236	0.0016	0.0024	929811650	NIS232405D12
87.00mm						359	8.5					929811601	NIS232425D12
62cc													
NISSAN RB26DET (SKYLINE) 2.6L													
NOTE : Must check oil squirter clearance, possible modification needed.													
1.2, 1.2, 2.8mm Performance Ring Set Included													
86.50mm	73.7mm	121.5mm	30.25mm	21mm	16cc	366	8.5	2618	0.236	0.0031	0.0039	930110205*	NIS191405P16*
87.00mm						372	8.5					930110225*	NIS191425P16*
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications													
NISSAN RB30DET(SKYLINE) 3.0L													
NOTE : Must check oil squirter clearance, possible modification needed.													
1.2, 1.2, 2.8mm Performance Ring Set Included													
86.50mm	85.0mm	152.5mm	32.1mm	21mm	-4.5cc	323	8.5	4032	0.236	0.0016	0.0024	929810950	NIS264405I05
87.00mm						329	8.5					929810901	NIS264425I05
86.50mm						332	8.5	2618	0.236	0.0031	0.0039	929994605*	NIS264405P05*
87.00mm						339	8.5					929994625*	NIS264425P05*
*PowerPak Plus 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			Assembly Part No.	Old Part No.
										Meas.	Min	Max		
NISSAN VQ35DET (350z, INFINITI G35) 3.5L														
1.2, 1.2, 2.8mm Performance Ring Set Included														
95.50mm	81.4mm	144.1mm	29.6mm	22mm	-5cc	388	8.5	4032	0.236	0.0016	0.0024	929809360	NHS165760I05	
96.00mm						394	8.6					929809380	NHS165780I05	
NISSAN GT-R VR38 DETT 3.8L														
1.2, 1.2, 2.8mm Performance Ring Set Included														
95.51mm	88.4mm	165.1mm	34.25mm	23mm	-4cc	430	9.0	2618	0.250	0.0031	0.0039	929942860*	NHS348760P04*	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
SUBARU 2.0L EJ20/207														
1.2, 1.2, 2.5mm Performance Ring Set Included														
92.00mm	75.0mm	130mm	32.7mm	23mm	-12cc	346	8.0	4032	0.236	0.0022	0.0030	930020322	SUB287622H2	
92.50mm						352	8.0					930020342	SUB287642H2	
93.00mm						359	8.0					930020362	SUB287664H2	
92.50mm					-12cc	362	8.0	2618	0.236	0.0031	0.0039	929927942*	SUB287642P12*	
93.00mm						369	8.0					929927961*	SUB287664P12*	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
SUBARU 2.2L STROKER														
1.2, 1.2, 2.5mm Performance Ring Set Included														
92.50mm	79.0mm	130.4mm	30.3mm	23mm	-16cc	337	8.0	4032	0.236	0.0022	0.0030	929847842	SUB193642H6	
93.00mm						344	8.1					929847861	SUB193664H6	
92.50mm					-16cc	347	8.0	2618	0.236	0.0031	0.0039	929928142*	SUB193642P16*	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
SUBARU FA20 TURBO														
1.2, 1.2, 2.8mm Performance Ring Set Included														
86.00mm	86.0mm	129.3mm	32.5mm	22mm	-8cc	339	10.5	2618	0.500	0.0031	0.0039	197769285*	197769285*	
86.50mm						345	10.6					197769205*	197769205*	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
SUBARU WRX 2.5L STI, FORESTER, LEGACY														
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included														
99.50mm	79.0mm	130.5mm	30.7mm	23mm	-19.25cc	397	9.1	8.5	4032	0.252	0.0022	0.0030	930285017	WRX209917I22
99.75mm						401	9.1	8.5					930285027	WRX209927H22
100.0mm						404	9.1	8.5					930285037	WRX209937I22
99.50mm					-19.25cc	409	9.1	8.5	2618	0.252	0.0032	0.0040	930285117*	WRX209917P22*
99.75mm						413	9.1	8.5					930285127*	WRX209927P22*
100.0mm						416	9.1	8.5					930285137*	WRX209937P22*
99.50mm					-14.1cc	411	9.6	9.0	4032	0.252	0.0022	0.0030	930285217	WRX209917H40
99.75mm						414	9.7	9.0					930285227	WRX209927H40
100.00mm						417	9.7	9.0					930285237	WRX209937H40
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
SUBARU WRX 2.5L STI, BOXED STRUT CONSTRUCTION														
1.0, 1.0, 2.0mm File Fit Performance Ring Set Included														
99.50mm	79.0mm	130.5mm	30.7mm	23mm	-14.1cc	403	9.6	9.0	2618	0.252	0.0032	0.0040	930285417*	930000917*
99.75mm						406	9.7	9.0					930285427*	930000927*
100.00mm						409	9.7	9.0					930285437*	930000937*
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
TOYOTA 2ZZ-GE (CELICA GT-S) 1.8L														
1.0, 1.2, 2.8mm Performance Ring Set Included														
82.00mm	85.0mm	137.9mm	31.2mm	20mm	-12cc	298	9.0	4032	0.252	0.0021	0.0029	929833600	2ZZ228228H2	
82.00mm					4.3cc	330	12.3	4032	0.252	0.0021	0.0029	929833700	2ZZ228228D04	
TOYOTA 3SGTE 2.0L 90-95 MR2 TURBO														
1.2, 1.2, 2.8mm Performance Ring Set Included														
86.50mm	86.0mm	138mm	35.0mm	22mm	-4cc	343	9.0	4032	0.236	0.0016	0.0024	929807705	TOY378405I04	
TOYOTA 2JZ-GTE (SUPRA) 3.0L														
1.2, 1.2, 2.0mm Performance Ring Set Included														
86.50mm	86.0mm	142.0mm	34.0mm	22mm	-14cc	336	8.5	2618	0.236	0.0031	0.0039	928989305*	TOY338405P14*	
87.00mm						338	8.5					928989325*	TOY338425P14*	
*PowerPak Plus 2618 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications														
XR6 for Australian Fords 4.0L														
1.2, 1.2, 2.5mm Performance Ring Set Included														
243	3.633	3.910	6.057	1.216	0.866	-14cc	335	8.7	4032	0.354	0.0025	0.0033	929984815	XR6246633H4
244	3.637						336	8.8					929984805	XR6246637H4
246	3.652						341	8.8					929984820	XR6246652H4
243	3.633					-14cc	345	8.7	2618	0.354	0.0031	0.0039	929966115*	XR6246633P14*
244	3.637						346	8.8					929966105*	XR6246637P14*
246	3.652						351	8.8					929966120*	XR6246652P14*
*PowerPak Plus 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 Meas.	Guide Min	Guide Max	Assembly Part No.	Old Part No.
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EUROSPORT

BMW MINI COOPER S PRINCE 2007- Current 1.6L

1.0, 1.2, 2.8mm Performance Ring Set Included							Stock						
77.50mm	85.8mm	138.2mm	28.5mm	20mm	1cc	273	10.3	M142	0.385	0.0010	0.0018	930067351	MCP122054D01

BMW S52 B32 3.2L E36 M3

1.2, 1.2, 2.8mm Performance Ring Set Included							33cc						
86.60mm	89.6mm	135mm	31mm	22mm	-25cc	304	9.0	2618	0.394	0.0020	0.0028	930024709*	S52220409P25*
86.60mm					-11cc	324	11.3	4032	0.394	0.0010	0.0018	930024409	S52220409P11**
86.60mm					-5cc	340	12.5	4032	0.394	0.0010	0.0018	930024609	S52220409P05**

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

**Hard Anodized Top Ring Groove For Extreme Duty Applications

BMW S54B 32 3.2L E46 M3

1.2, 1.2, 2.8mm Performance Ring Set Included							33cc						
87.50mm	91.0mm	139mm	32.3mm	21mm	-29cc	334	9.0	2618	0.252	0.0028	0.0036	930000045*	S54271445P29*
87.50mm					9cc	357	12.3	2618	0.252	0.0028	0.0036	930000145*	S54271445T09*

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

PORSCHE 944 TURBO 2.5L for use in factory aluminum bores only

1.2, 1.5, 3.0mm Performance Ring Set Included							54cc						
100.5mm	78.9mm	150mm	40.8mm	24mm	-21cc	473	8.5	2618	0.500	0.0036	0.0044	930070756*	POR606956P21*
101.00mm						479	8.6					930070776*	POR606976P21*

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

PORSCHE 968 TURBO 3.0L for use in factory aluminum bores only

1.2, 1.5, 3.0mm Performance Ring Set Included							56cc						
104.5mm	87.8mm	150mm	36mm	24mm	-32cc	501	8.5	2618	0.400	0.0036	0.0044	930130214*	POR417114P32*

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

VOLKSWAGEN/AUDI EARLY (95-2000) 1.8L TURBO

1.0, 1.2, 2.8mm Performance Ring Set Included							42cc						
81.50mm	86.4mm	144mm	32.7mm	20mm	-12cc	294	8.5	4032	0.394	0.0010	0.0018	930229009	AUD287209H12

VOLKSWAGEN/AUDI S4 6-cyl. 5V Turbo

1.0, 1.2, 2.8mm Performance Ring Set Included							42cc						
81.50mm	86.4mm	154mm	30.7mm	21mm	-7cc	295	9.0	4032	0.394	0.0010	0.0018	930070509	AUD299209H07

VOLKSWAGEN/AUDI LATE (2000+) 1.8L TURBO

1.0, 1.2, 2.8mm Performance Ring Set Included							42cc						
81.50mm	86.4mm	144mm	32.7mm	19mm	-12cc	296	8.5	4032	0.394	0.0010	0.0018	929960209	TTA287209H12

VOLKSWAGEN TFSi (2006-2009) 2.0L

Performance Ring Set Included							45cc						
82.50mm	92.8mm	144mm	29.6mm	20mm	-10cc	312	9.3	M142	0.252	0.0010	0.0018	197799948*	
83.00mm					-11cc	318	9.3					197800168*	
83.50mm						322	9.3					197800187*	

*PowerPak Plus M142 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

VOLKSWAGEN TSi (2010+) 2.0L

1.2, 1.5, 2.0mm Performance Ring Set Included							46cc						
82.50 mm	92.8 mm	144 mm	29.6mm	21mm	-7cc	323	9.5	M142	0.275	0.0010	0.0018	930188548*	TSI165248P07*
83.00 mm						328	9.6					930188568*	TSI165268P07*

*PowerPak Plus M142 Alloy & Hard Anodized Top Ring Groove For Extreme Duty Applications

VOLKSWAGEN VR6 3.2L 4V

1.2, 1.2, 2.8mm Performance Ring Set Included							39cc						
84.50mm	95.9mm	164mm	34.7mm	20mm	-23cc	359	9.0	2618	0.177	0.0025	0.0033	930016626	VR6354326H23

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.

Finish Bore	Description	Assembly Part Number
1.5mm, 1.5mm, 3.0mm +.005" File Fit Rings		
3.551"	1.5, 1.5, 3.0mm File Fit	3556MS-15
3.571"	1.5, 1.5, 3.0mm File Fit	3576MS-15
3.581"	1.5, 1.5, 3.0mm File Fit	3586MS-15
3.766"	1.5, 1.5, 3.0mm File Fit	3771MS-15
3.796"	1.5, 1.5, 3.0mm File Fit	3801MS-15
3.810"	1.5, 1.5, 3.0mm 4cyl File Fit	3815MS-15
3.820"	1.5, 1.5, 3.0mm 4cyl File Fit	3825MS-15
3.830"	1.5, 1.5, 3.0mm 4cyl File Fit	3835MS-15
3.898"	1.5, 1.5, 3.0mm File Fit	3903MS-15
3.905"	1.5, 1.5, 3.0mm File Fit	3910MS-15
3.910"	1.5, 1.5, 3.0mm File Fit	3915MS-15
4.000"	1.5, 1.5, 3.0mm File Fit	4005MS-15
4.010"	1.5, 1.5, 3.0mm File Fit	4015MS-15
4.020"	1.5, 1.5, 3.0mm File Fit	4025MS-15
4.030"	1.5, 1.5, 3.0mm File Fit	4035MS-15
4.040"	1.5, 1.5, 3.0mm File Fit	4045MS-15
4.055"	1.5, 1.5, 3.0mm File Fit	4060MS-15
4.060"	1.5, 1.5, 3.0mm File Fit	4065MS-15
4.065"	1.5, 1.5, 3.0mm File Fit	4070MS-15
4.070"	1.5, 1.5, 3.0mm File Fit	4075MS-15
4.080"	1.5, 1.5, 3.0mm File Fit	4085MS-15
4.090"	1.5, 1.5, 3.0mm File Fit	4095MS-15
4.100"	1.5, 1.5, 3.0mm File Fit	4105MS-15
4.110"	1.5, 1.5, 3.0mm File Fit	4115MS-15
4.120"	1.5, 1.5, 3.0mm File Fit	4125MS-15
4.125"	1.5, 1.5, 3.0mm File Fit	4130MS-15
4.130"	1.5, 1.5, 3.0mm File Fit	4135MS-15
4.135"	1.5, 1.5, 3.0mm File Fit	4140MS-15
4.140"	1.5, 1.5, 3.0mm File Fit	4145MS-15
4.145"	1.5, 1.5, 3.0mm File Fit	4150MS-15
4.150"	1.5, 1.5, 3.0mm File Fit	4155MS-15
4.155"	1.5, 1.5, 3.0mm File Fit	4160MS-15
4.160"	1.5, 1.5, 3.0mm File Fit	4165MS-15
4.165"	1.5, 1.5, 3.0mm File Fit	4170MS-15
4.250"	1.5, 1.5, 3.0mm File Fit	4255MS-15
4.280"	1.5, 1.5, 3.0mm File Fit	4285MS-15
4.310"	1.5, 1.5, 3.0mm File Fit	4315MS-15
4.320"	1.5, 1.5, 3.0mm File Fit	4325MS-15
4.350"	1.5, 1.5, 3.0mm File Fit	4355MS-15
4.375"	1.5, 1.5, 3.0mm File Fit	4380MS-15
4.390"	1.5, 1.5, 3.0mm File Fit	4395MS-15
4.440"	1.5, 1.5, 3.0mm File Fit	4445MS-15
4.500"	1.5, 1.5, 3.0mm File Fit	4505MS-15
4.530"	1.5, 1.5, 3.0mm File Fit	4535MS-15
4.560"	1.5, 1.5, 3.0mm File Fit	4565MS-15
4.600"	1.5, 1.5, 3.0mm File Fit	4605MS-15

Finish Bore	Description	Assembly Part Number
1.5mm, 1.5mm, 3.0mm STD Tension Drop In Rings		
3.551"	1.5, 1.5, 3.0 mm Drop In	3551MS-15
3.927"	1.5, 1.5, 3.0 mm Drop In	3927MS-15
3.937"	1.5, 1.5, 3.0 mm Drop In	3937MS-15
3.947"	1.5, 1.5, 3.0 mm Drop In	3947MS-15
4.000"	1.5, 1.5, 3.0 mm Drop In	4000MS-15D
4.030"	1.5, 1.5, 3.0 mm Drop In	4030MS-15D
4.125"	1.5, 1.5, 3.0 mm Drop In	4125MS-15D
4.155"	1.5, 1.5, 3.0 mm Drop In	4155MS-15D
4.250"	1.5, 1.5, 3.0 mm Drop In	4250MS-15D
4.500"	1.5, 1.5, 3.0 mm Drop In	4500MS-15D
4.600"	1.5, 1.5, 3.0 mm Drop In	4600MS-15D

Finish Bore	Description	Assembly Part Number
1.0mm, 1.0mm, 2.0mm +.005 File Fit Rings		
3.551"	1.0, 1.0, 2.0mm File Fit	3557MS-112
3.571"	1.0, 1.0, 2.0mm File Fit	3577MS-112
3.581"	1.0, 1.0, 2.0mm File Fit	3587MS-112
3.630"	1.0, 1.0, 2.0mm File Fit	3635MS-112
3.640"	1.0, 1.0, 2.0mm File Fit	3645MS-112
3.766"	1.0, 1.0, 2.0mm File Fit	3771MS-112
3.776"	1.0, 1.0, 2.0mm File Fit	3781MS-112
3.786"	1.0, 1.0, 2.0mm File Fit	3791MS-112
3.796"	1.0, 1.0, 2.0mm File Fit	3801MS-112
3.800"	1.0, 1.0, 2.0mm File Fit	3805MS-112
3.810"	1.0, 1.0, 2.0mm File Fit	3815MS-112
3.820"	1.0, 1.0, 2.0mm File Fit	3825MS-112
3.830"	1.0, 1.0, 2.0mm File Fit	3835MS-112
3.898"	1.0, 1.0, 2.0mm File Fit	3903MS-112
3.905"	1.0, 1.0, 2.0mm File Fit	3910MS-112
4.000"	1.0, 1.0, 2.0mm File Fit	4005MS-112
4.005"	1.0, 1.0, 2.0mm File Fit	4010MS-112
4.010"	1.0, 1.0, 2.0mm File Fit	4015MS-112
4.020"	1.0, 1.0, 2.0mm File Fit	4025MS-112
4.025"	1.0, 1.0, 2.0mm File Fit	4030MS-112
4.030"	1.0, 1.0, 2.0mm File Fit	4035MS-112
4.035"	1.0, 1.0, 2.0mm File Fit	4040MS-112
4.040"	1.0, 1.0, 2.0mm File Fit	4045MS-112
4.045"	1.0, 1.0, 2.0mm File Fit	4050MS-112
4.050"	1.0, 1.0, 2.0mm File Fit	4055MS-112
4.055"	1.0, 1.0, 2.0mm File Fit	4060MS-112
4.060"	1.0, 1.0, 2.0mm File Fit	4065MS-112
4.065"	1.0, 1.0, 2.0mm File Fit	4070MS-112
4.070"	1.0, 1.0, 2.0mm File Fit	4075MS-112
4.075"	1.0, 1.0, 2.0mm File Fit	4080MS-112
4.080"	1.0, 1.0, 2.0mm File Fit	4085MS-112
4.090"	1.0, 1.0, 2.0mm File Fit	4095MS-112
4.100"	1.0, 1.0, 2.0mm File Fit	4105MS-112
4.125"	1.0, 1.0, 2.0mm File Fit	4130MS-112
4.130"	1.0, 1.0, 2.0mm File Fit	4135MS-112
4.135"	1.0, 1.0, 2.0mm File Fit	4140MS-112
4.140"	1.0, 1.0, 2.0mm File Fit	4145MS-112
4.145"	1.0, 1.0, 2.0mm File Fit	4150MS-112
4.150"	1.0, 1.0, 2.0mm File Fit	4155MS-112
4.155"	1.0, 1.0, 2.0mm File Fit	4160MS-112
4.160"	1.0, 1.0, 2.0mm File Fit	4165MS-112
4.165"	1.0, 1.0, 2.0mm File Fit	4170MS-112
4.170"	1.0, 1.0, 2.0mm File Fit	4175MS-112
4.175"	1.0, 1.0, 2.0mm File Fit	4180MS-112
4.185"	1.0, 1.0, 2.0mm File Fit	4190MS-112
4.245"	1.0, 1.0, 2.0mm File Fit	4250MS-112
4.250"	1.0, 1.0, 2.0mm File Fit	4255MS-112
4.255"	1.0, 1.0, 2.0mm File Fit	4260MS-112
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

Finish Bore	Description	Assembly Part Number
1.0mm, 1.0mm, 2.0mm STD Tension Drop In Rings		
4.000"	1.0, 1.0, 2.0mm Drop-In	4000MS-112D
4.030"	1.0, 1.0, 2.0mm Drop-In	4030MS-112D
4.040"	1.0, 1.0, 2.0mm Drop-In	4040MS-112D
4.055"	1.0, 1.0, 2.0mm Drop-In	4055MS-112D
4.125"	1.0, 1.0, 2.0mm Drop-In	4125MS-112D
4.155"	1.0, 1.0, 2.0mm Drop-In	4155MS-112D

Finish Bore	Description	Assembly Part Number
1/16", 1/16", 3/16" +.005" Standard Tension File Fit Rings		
4.020"	1/16", 1/16", 3/16" File Fit	4025MS
4.030"	1/16", 1/16", 3/16" File Fit	4035MS
4.040"	1/16", 1/16", 3/16" File Fit	4045MS
4.045"	1/16", 1/16", 3/16" File Fit	4050MS
4.060"	1/16", 1/16", 3/16" File Fit	4065MS
4.070"	1/16", 1/16", 3/16" File Fit	4075MS
4.100"	1/16", 1/16", 3/16" File Fit	4105MS
4.125"	1/16", 1/16", 3/16" File Fit	4130MS
4.130"	1/16", 1/16", 3/16" File Fit	4135MS
4.135"	1/16", 1/16", 3/16" File Fit	4140MS
4.145"	1/16", 1/16", 3/16" File Fit	4150MS
4.155"	1/16", 1/16", 3/16" File Fit	4160MS
4.165"	1/16", 1/16", 3/16" File Fit	4170MS
4.185"	1/16", 1/16", 3/16" File Fit	4190MS
4.250"	1/16", 1/16", 3/16" File Fit	4255MS
4.260"	1/16", 1/16", 3/16" File Fit	4265MS
4.270"	1/16", 1/16", 3/16" File Fit	4275MS
4.280"	1/16", 1/16", 3/16" File Fit	4285MS
4.290"	1/16", 1/16", 3/16" File Fit	4295MS
4.310"	1/16", 1/16", 3/16" File Fit	4315MS
4.320"	1/16", 1/16", 3/16" File Fit	4325MS
4.350"	1/16", 1/16", 3/16" File Fit	4355MS
4.360"	1/16", 1/16", 3/16" File Fit	4365MS
4.375"	1/16", 1/16", 3/16" File Fit	4380MS
4.440"	1/16", 1/16", 3/16" File Fit	4445MS
4.470"	1/16", 1/16", 3/16" File Fit	4475MS
4.500"	1/16", 1/16", 3/16" File Fit	4505MS
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

Finish Bore	Description	Assembly Part Number
1/16", 1/16", 3/16" Standard Tension Drop In Rings		
4.000"	1/16", 1/16", 3/16" Drop In	4000MS
4.020"	1/16", 1/16", 3/16" Drop In	4020MS
4.030"	1/16", 1/16", 3/16" Drop In	4030MS
4.040"	1/16", 1/16", 3/16" Drop In	4040MS
4.060"	1/16", 1/16", 3/16" Drop In	4060MS
4.080"	1/16", 1/16", 3/16" Drop In	4080MS
4.125"	1/16", 1/16", 3/16" Drop In	4125MS
4.145"	1/16", 1/16", 3/16" Drop In	4145MS
4.155"	1/16", 1/16", 3/16" Drop In	4155MS
4.165"	1/16", 1/16", 3/16" Drop In	4165MS
4.185"	1/16", 1/16", 3/16" Drop In	4185MS
4.250"	1/16", 1/16", 3/16" Drop In	4250MS
4.260"	1/16", 1/16", 3/16" Drop In	4260MS
4.270"	1/16", 1/16", 3/16" Drop In	4270MS
4.280"	1/16", 1/16", 3/16" Drop In	4280MS
4.290"	1/16", 1/16", 3/16" Drop In	4290MS
4.310"	1/16", 1/16", 3/16" Drop In	4310MS
4.330"	1/16", 1/16", 3/16" Drop In	4330MS
4.360"	1/16", 1/16", 3/16" Drop In	4360MS
4.390"	1/16", 1/16", 3/16" Drop In	4390MS
4.400"	1/16", 1/16", 3/16" Drop In	4400MS
4.420"	1/16", 1/16", 3/16" Drop In	4420MS
4.466"	1/16", 1/16", 3/16" Drop In	4466MS
4.500"	1/16", 1/16", 3/16" Drop In	4500MS
4.600"	1/16", 1/16", 3/16" Drop In	4600MS
4.630"	1/16", 1/16", 3/16" Drop In	4630MS

Finish Bore	Description	Assembly Part Number
1/16", 1/16", 3/16" +.005" Low Tension File Fit Rings		
4.000"	1/16", 1/16", 3/16" File Fit	4005ML
4.020"	1/16", 1/16", 3/16" File Fit	4025ML
4.030"	1/16", 1/16", 3/16" File Fit	4035ML
4.040"	1/16", 1/16", 3/16" File Fit	4045ML
4.045"	1/16", 1/16", 3/16" File Fit	4050ML
4.060"	1/16", 1/16", 3/16" File Fit	4065ML
4.070"	1/16", 1/16", 3/16" File Fit	4075ML
4.100"	1/16", 1/16", 3/16" File Fit	4105ML
4.125"	1/16", 1/16", 3/16" File Fit	4130ML
4.130"	1/16", 1/16", 3/16" File Fit	4135ML
4.135"	1/16", 1/16", 3/16" File Fit	4140ML
4.145"	1/16", 1/16", 3/16" File Fit	4150ML
4.155"	1/16", 1/16", 3/16" File Fit	4160ML
4.165"	1/16", 1/16", 3/16" File Fit	4170ML
4.185"	1/16", 1/16", 3/16" File Fit	4190ML
4.250"	1/16", 1/16", 3/16" File Fit	4255ML
4.270"	1/16", 1/16", 3/16" File Fit	4275ML
4.280"	1/16", 1/16", 3/16" File Fit	4285ML
4.290"	1/16", 1/16", 3/16" File Fit	4295ML
4.310"	1/16", 1/16", 3/16" File Fit	4315ML
4.320"	1/16", 1/16", 3/16" File Fit	4325ML
4.350"	1/16", 1/16", 3/16" File Fit	4355ML
4.360"	1/16", 1/16", 3/16" File Fit	4365ML
4.375"	1/16", 1/16", 3/16" File Fit	4380ML
4.380"	1/16", 1/16", 3/16" File Fit	4385ML
4.390"	1/16", 1/16", 3/16" File Fit	4395ML
4.400"	1/16", 1/16", 3/16" File Fit	4405ML
4.470"	1/16", 1/16", 3/16" File Fit	4475ML
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

Finish Bore	Description	Assembly Part Number
.043", .043", 3.0mm Low Tension File Fit Rings		
3.551"	.043", .043", 3.0mm File Fit	3556ML-043
3.571"	.043", .043", 3.0mm File Fit	3576ML-043
3.581"	.043", .043", 3.0mm File Fit	3586ML-043
3.766"	.043", .043", 3.0mm File Fit	3771MS-043
3.776"	.043", .043", 3.0mm File Fit	3781MS-043
3.786"	.043", .043", 3.0mm File Fit	3791MS-043
3.796"	.043", .043", 3.0mm File Fit	3801MS-043
3.810"	.043", .043", 3.0mm 2.3L File fit	3815ML-043
3.820"	.043", .043", 3.0mm 2.3L File fit	3825ML-043
3.830"	.043", .043", 3.0mm 2.3L File fit	3835ML-043
3.898"	.043", .043", 3.0mm File Fit	3903ML-043
3.905"	.043", .043", 3.0mm File Fit	3910ML-043
3.910"	.043", .043", 3.0mm File Fit	3915ML-043
4.000"	.043", .043", 3.0mm File Fit	4005ML-043
4.005"	.043", .043", 3.0mm File Fit	4010ML-043
4.010"	.043", .043", 3.0mm File Fit	4015ML-043
4.020"	.043", .043", 3.0mm File Fit	4025ML-043
4.025"	.043", .043", 3.0mm File Fit	4030ML-043
4.030"	.043", .043", 3.0mm File Fit	4035ML-043
4.035"	.043", .043", 3.0mm File Fit	4040ML-043
4.040"	.043", .043", 3.0mm File Fit	4045ML-043
4.045"	.043", .043", 3.0mm File Fit	4050ML-043
4.050"	.043", .043", 3.0mm File Fit	4055ML-043
4.055"	.043", .043", 3.0mm File Fit	4060ML-043
4.060"	.043", .043", 3.0mm File Fit	4065ML-043
4.065"	.043", .043", 3.0mm File Fit	4070ML-043
4.070"	.043", .043", 3.0mm File Fit	4075ML-043
4.080"	.043", .043", 3.0mm File Fit	4085ML-043
4.100"	.043", .043", 3.0mm File Fit	4105ML-043
4.125"	.043", .043", 3.0mm File Fit	4130ML-043
4.130"	.043", .043", 3.0mm File Fit	4135ML-043
4.135"	.043", .043", 3.0mm File Fit	4140ML-043
4.140"	.043", .043", 3.0mm File Fit	4145ML-043

Finish Bore	Description	Assembly Part Number
.043", .043", 3.0mm +.005" Low Tension File Fit Rings Cont..		
4.145"	.043", .043", 3.0mm File Fit	4150ML-043
4.150"	.043", .043", 3.0mm File Fit	4155ML-043
4.155"	.043", .043", 3.0mm File Fit	4160ML-043
4.160"	.043", .043", 3.0mm File Fit	4165ML-043
4.165"	.043", .043", 3.0mm File Fit	4170ML-043
4.170"	.043", .043", 3.0mm File Fit	4175ML-043
4.175"	.043", .043", 3.0mm File Fit	4180ML-043
4.180"	.043", .043", 3.0mm File Fit	4185ML-043
4.185"	.043", .043", 3.0mm File Fit	4190ML-043
.043", .043", 3.0mm +.005" Steel Low Tension File Fit Rings		
4.600"	.043", .043", 3.0mm File Fit	4605SL-043
4.605"	.043", .043", 3.0mm File Fit	4610SL-043
4.610"	.043", .043", 3.0mm File Fit	4615SL-043
4.625"	.043", .043", 3.0mm File Fit	4630SL-043
.043", .043", 3.0mm +.005" Steel STD Tension File Fit Rings		
4.600"	.043", .043", 3.0mm File Fit	4605SS-043
4.605"	.043", .043", 3.0mm File Fit	4610SS-043
4.610"	.043", .043", 3.0mm File Fit	4615SS-043
4.615"	.043", .043", 3.0mm File Fit	4620SS-043
4.620"	.043", .043", 3.0mm File Fit	4625SS-043
4.625"	.043", .043", 3.0mm File Fit	4630SS-043
4.630"	.043", .043", 3.0mm File Fit	4635SS-043
1.1mm, 1.5mm, 3.0mm +.005" STD Tension File Fit Rings		
4.125"	1.1, 1.5, 3.0mm File Fit	4130MS-1115
4.130"	1.1, 1.5, 3.0mm File Fit	4135MS-1115
4.135"	1.1, 1.5, 3.0mm File Fit	4140MS-1115
4.140"	1.1, 1.5, 3.0mm File Fit	4145MS-1115
4.145"	1.1, 1.5, 3.0mm File Fit	4150MS-1115
4.150"	1.1, 1.5, 3.0mm File Fit	4155MS-1115
4.155"	1.1, 1.5, 3.0mm File Fit	4160MS-1115
4.160"	1.1, 1.5, 3.0mm File Fit	4165MS-1115
4.165"	1.1, 1.5, 3.0mm File Fit	4170MS-1115
4.185"	1.1, 1.5, 3.0mm File Fit	4190MS-1115
4.250"	1.1, 1.5, 3.0mm File Fit	4255MS-1115
Sport Compact Rings		
80.50 mm	1.0, 1.2, 2.8mm Drop In	8050MS-10
81.00 mm	1.0, 1.2, 2.8mm Drop In	8100MS-10
81.25 mm	1.0, 1.2, 2.8mm Drop In	8125MS-10
81.50 mm	1.0, 1.2, 2.8mm Drop In	8150MS-10
82.00 mm	1.0, 1.2, 2.8mm Drop In	8200MS-10
83.00 mm	1.2, 1.2, 2.8mm Drop In	8300MS-12
83.50 mm	1.2, 1.2, 2.8mm Drop In	8350MS-12
84.00 mm	1.2, 1.2, 2.8mm Drop In	8400MS-12
84.50 mm	1.2, 1.2, 2.8mm Drop In	8450MS-12
85.00 mm	1.2, 1.2, 2.8mm Drop In	8500MS-12
85.50 mm	1.2, 1.2, 2.8mm Drop In	8550MS-12
86.00 mm	1.2, 1.2, 2.8mm Drop In	8600MS-12
86.50 mm	1.2, 1.2, 2.8mm Drop In	8650MS-12
87.00 mm	1.2, 1.2, 2.8mm Drop In	8700MS-12
87.25 mm	1.2, 1.2, 2.8mm Drop In	8725MS-12
87.50 mm	1.2, 1.2, 2.8mm Drop In	8750MS-12
88.00 mm	1.2, 1.2, 2.8mm Drop In	8800MS-12
88.50 mm	1.2, 1.2, 2.8mm Drop In	8850MS-12
89.00 mm	1.2, 1.2, 2.8mm Drop In	8900MS-12
92.00 mm	1.2, 1.2, 2.5mm Drop In	9200MS-12
92.30 mm	1.2, 1.2, 2.5mm Drop In	9230MS6-12
92.38 mm	1.2, 1.2, 2.5mm Drop In	9238MS6-12
92.50 mm	1.2, 1.2, 2.5mm Drop In	9250MS-12
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
95.50 mm	1.2, 1.2, 2.5mm Drop In	9550MS-12
96.00 mm	1.2, 1.2, 2.5mm Drop In	9600MS-12
99.50 mm	1.2, 1.5, 2.8mm File Fit	9950MS-12
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

Finish Bore	Description	Assembly Part Number
1.5mm Gas Nitrided Steel Top Ring Sets (8cyl)		
4.280"	1.5mm GNS Top Ring File Fit	4280GNS-15T
4.310"	1.5mm GNS Top Ring File Fit	4310GNS-15T
4.320"	1.5mm GNS Top Ring File Fit	4320GNS-15T
4.350"	1.5mm GNS Top Ring File Fit	4350GNS-15T
4.375"	1.5mm GNS Top Ring File Fit	4375GNS-15T
4.390"	1.5mm GNS Top Ring File Fit	4390GNS-15T
4.440"	1.5mm GNS Top Ring File Fit	4440GNS-15T
4.500"	1.5mm GNS Top Ring File Fit	4500GNS-15T
4.530"	1.5mm GNS Top Ring File Fit	4530GNS-15T
4.560"	1.5mm GNS Top Ring File Fit	4560GNS-15T
4.600"	1.5mm GNS Top Ring File Fit	4600GNS-15T
3.0mm Oil Ring Standard Tension Rails (8cyl)		
4.000"	3.0mm STD Tension Rails (16pcs)	4000-300R
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
4.145"	3.0mm STD Tension Rails (16pcs)	4145-300R
4.155"	3.0mm STD Tension Rails (16pcs)	4155-300R
4.165"	3.0mm STD Tension Rails (16pcs)	4165-300R
3.0mm Oil Ring Standard Tension Expanders (8cyl)		
4.000"	3.0mm STD Tension Expanders (8pcs)	4000-300S
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
Lock'N Tool		
Clip insertion tool for .927" clip		W-927
Clip insertion tool for .990" clip		W-990
Oil Ring Support Rails		
3.898-3.947 2mm Support Rail		9301947
4.000-4.040 2mm Support Rail		9301835
4.040-4.080 2mm Support Rail		9301838
4.080-4.120 2mm Support Rail		9301922
4.125-4.165 2mm Support Rail		9301840
4.165-4.205 2mm Support Rail		9301923
4.240-4.280 2mm Support Rail		1977167
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
4.125-4.185 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		9301926
4.500-4.560 3mm Support Rail		9299228
4.600-4.630 3mm Support Rail		9299225
4.130-4.180 3mm Support Rail		9298909
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

Piston Pins	
0.912 x 2.287 x 0.121W CH 87g LW	9900159
0.927 x 2.288 x 0.129W CH 93g LW	9900184
0.792 x 2.250 x 0.140W CH 83g	9900211
0.866 x 2.406 x 0.177W CH 118g	6458160
0.867 x 2.288 x 0.178W CH 112g	9900107
0.912 x 2.287 x 0.171W CH 116g	6458152
0.927 x 2.288 x 0.168W CH 118g	6457808
0.928 x 2.288 x 0.169W CH 118g	9900536
0.930 x 2.288 x 0.170W CH 119g	9900538
0.945 x 2.287 x 0.177W CH 125g	9900079
0.975 x 2.519 x 0.172W CH 130g	9311348
0.984 x 2.287 x 0.162W CH 122g	9299391
0.990 x 2.520 x 0.180W CH 148g	7758139
1.094 x 2.520 x 0.163W CH 153g	9839256
0.927 x 2.288 x 0.188W CH 128g HD	6457147
0.928 x 2.288 x 0.188W CH 128g HD	9900108
0.929 x 2.244 x 0.189W R 127g HD	6455117
0.990 x 2.520 x 0.220W CH 171g HD	9866438

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

Sport Compact Pins	
20 x 50.8mm CH 84g	9900293
21 x 50mm CH 98g	9900109
22 x 52mm CH 103g	5859988
22 x 58.11mm CH 112g	9900106
23 x 57.404mm CH 124g	9298392

Clips (each)	
.792" x 1.6mm no tang Clip	9900215
.866" x 1.6mm no tang Clip	2042968
.912" x 1.6mm no tang Clip	6458129
.927" x 1.6mm no tang Clip	6441489
.927" x 1.6mm w/ tang Clip	6436901
.945" x 1.6mm no tang Clip	9900539
.990" x 1.6mm no tang Clip	6458137

Sport Compact Clips (each)	
20mm x 1.6mm no tang	9900112
21mm x 1.6mm no tang	9900110
22mm x 1.6mm no tang	2042968
23mm x 1.6mm no tang	6458129
23mm OE Subaru (double tang)	9298265

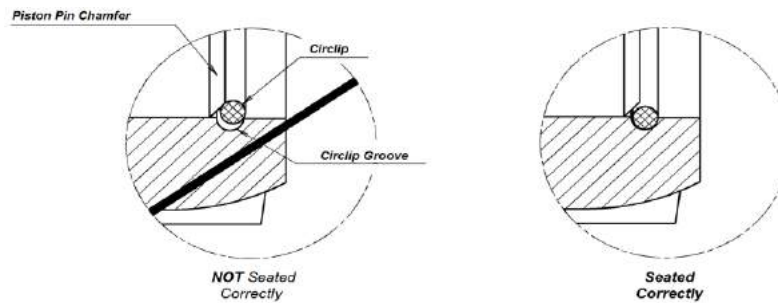
Important Notice

It is very important and critical for sustained durability that the "round wire locks" are properly seated in the lock groove of the piston.

The following is the recommended procedure for proper ring seating:

After placing the first round wire lock in the groove (caution: do not collapse the lock using pliers, but gently work the lock into the groove with a blunt edge tool) place **piston pin** in piston and gently tap the piston pin against the installed wire lock using a wooden or plastic dowel.

Upon final assembly of piston, pin, connecting rod, and remaining lock, repeat the seating process on the newly installed lock.



Part Number Reference Table



New Part Number	Old Part Number	New Part Number	Old Part Number	New Part Number	Old Part Number
197713945	197713945	929172525	ACR181425I09	929986135	S2K181435X09
197713965	197713965	929172586	ACR181386I09	929986135	S2K181435X09
197714045	197714045	929807705	TOY378405I04	929986425	S2K181425P11
197714245	197714245	929809360	NIS165760I05	929986425	S2K181425P11
197715800	197715800	929809380	NIS165780I05	929986435	S2K181435P11
197719205	197719205	929810901	NIS264425I05	929986435	S2K181435P11
197719210	197719210	929810950	NIS264405I05	929990666	EVO130366P19
197719230	197719230	929811601	NIS232425D12	929990685	EVO130385P19
197723845	197723845	929811650	NIS232405D12	929994605	NIS264405P05
197723865	197723865	929833600	2ZZ228228I12	929994625	NIS264425P05
197725130	WIS550030F05	929833700	2ZZ228228D04	930000045	S54271445P29
197725140	WIS550040F05	929847842	SUB193642I16	930000145	S54271445T09
197725150	WIS550050F05	929847861	SUB193661I16	930016626	VR6354326I23
197725160	WIS550060F05	929869510	BBC270310F03	930020322	SUB287622I12
197729300	197729300	929869520	BBC270320F03	930020342	SUB287642I12
197729445	197729445	929869550	BBC270350F03	930020362	SUB287661I12
197729465	197729465	929869580	BBC270280F03	930022790	KB9345390F08
197736200	197736200	929870110	BBC645310F03	930024125	ACR181425D04
197740100	197740100	929870180	BBC645280F03	930024135	ACR181435D04
197751430	197751430	929906710	BBC270310D43	930024409	S52220409P11
197751440	197751440	929906720	BBC270320D43	930024609	S52220409P05
197755345	197755345	929906750	BBC270350D43	930024709	S52220409P25
197755365	197755365	929906780	BBC270280D43	930067351	MCP122051D01
197769205	197769205	929906910	BBC228310D41	930070509	AUD209209I07
197769285	197769285	929907110	BBC270310D18	930070756	POR606956P21
197786145	197786145	929907120	BBC270320D18	930070776	POR606976P21
197786165	197786165	929907150	BBC270350D18	930077100	MER645500F03
197799948	197799948	929907180	BBC270280D18	930081525	H22220425I07
197800168	197800168	929907210	BBC228310D18	930081535	H22220435I07
197800187	197800187	929907280	BBC228280D18	930082325	H22220425F01
197813865	197813865	929907500	BBC270500D10	930083125	H22220425D10
197813870	197813870	929908800	BBC160500F03	930083135	H22220435D10
928906700	BBC395500F03	929908801	BBC160600F03	930087551	MCT122051I04
928906701	BBC395600F03	929925866	EVO367366P10	930101105	NIS253405I12
928909110	BBC395310D48	929925885	EVO367385P10	930101125	NIS253425I12
928909180	BBC395280D48	929927942	SUB287642P12	930110205	NIS191405P16
928914110	BBC395310D28	929927961	SUB287661P12	930110225	NIS191425P16
928914180	BBC395280D28	929928142	SUB193642P16	930111655	930111655
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Part Number Reference Table



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Part Number Reference Table



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Tech Information

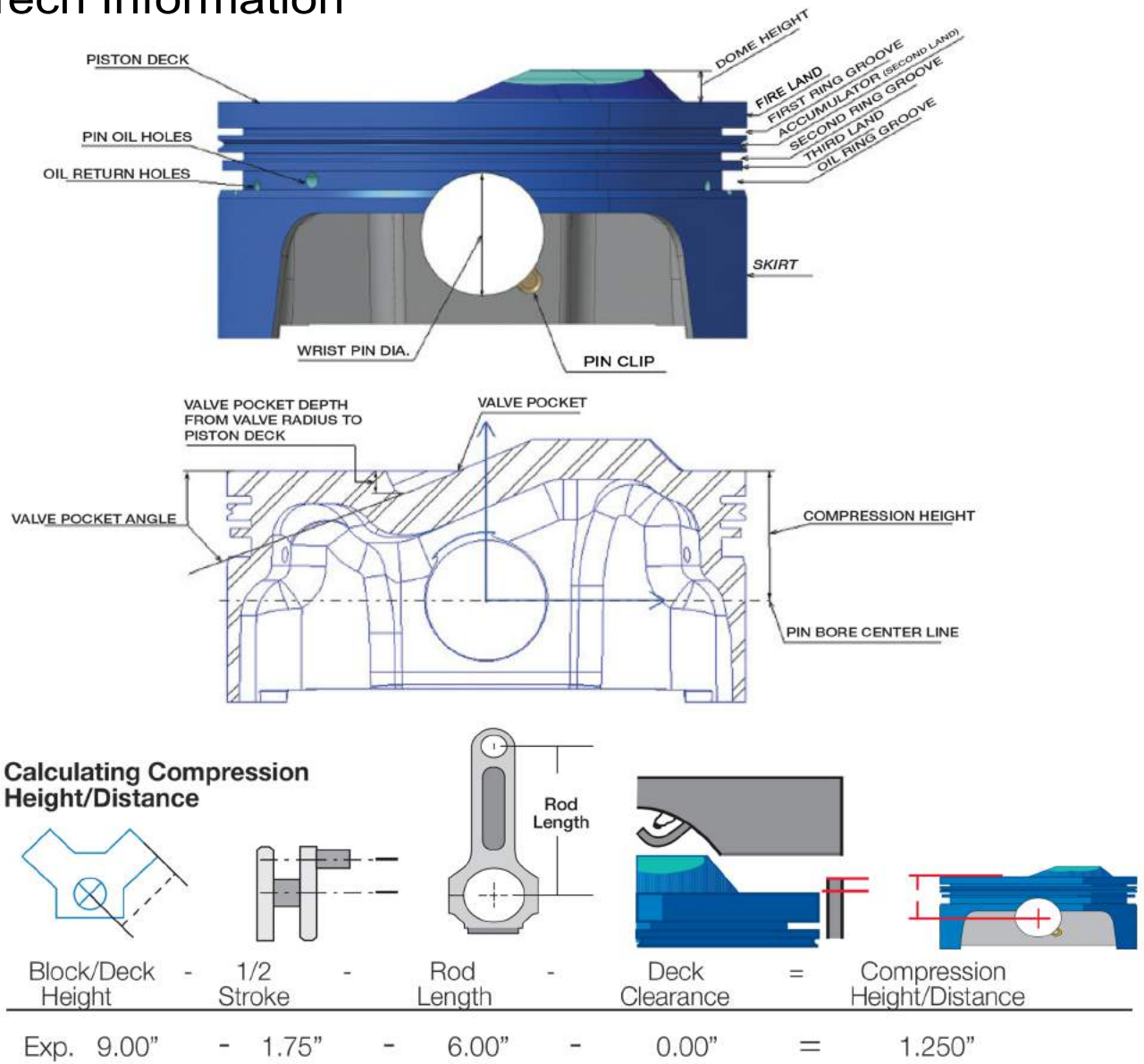


Fig. 1 Piston Sparkplug/Cylinder Head Clearance

Always check for adequate piston to sparkplug/cylinder head clearance. Use clay to measure clearance with piston installed on rod at TDC. Rock the piston to get minimum clearance. Minimum clearance for aluminum rods = .060" for steel rods = .040".

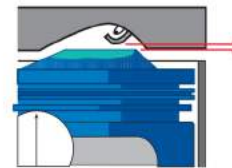


Fig. 2 Rod to Piston Clearance

Due to the multitude of variations in connecting rod materials and design, piston to rod clearances need to be checked. The minimum recommended clearance is .050" per side and .050" from the top of the rod to the underside of the piston. With the piston installed on the rod, rock the piston side to side, back and forth, checking for adequate clearance.

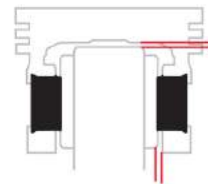


Fig 3 Crankshaft Counterweight Clearance

Always check counterweight to piston clearance at BDC. Recommended minimum is .060".

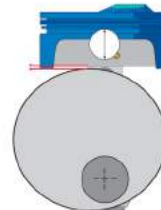


Fig. 4 Valve Relief Orientation/Clearance

Minimum recommended clearance for both intake and exhaust is .100" deep and .050" radially. Using clay or the cam manufacturer's recommendations, check for clearance. The cam must be degreed exactly as it will be during operation.

