

# MAHLE

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## APPLICATION GUIDE 2015

Racing Components

MMS10.Rev.10/14

MAHLE Motorsports, Inc.  
270 Rutledge Rd., Unit C  
Fletcher, North Carolina 28732  
Phone 888-255-1942  
Fax 828-650-0819

**MAHLE**  
motorsport



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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.	1,1, 2mm Part No.
<b>SMALL BLOCK CHEVY FLAT TOP</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
								<b>58cc</b>	<b>64cc</b>	<b>70cc</b>						
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	SBC550000F05	930200000
358	4.030						464	11.3	10.5	9.8					SBC550030F05	930200030
359	4.040						468	11.3	10.5	9.8					SBC550040F05	930200040
362	4.060						477	11.4	10.6	9.9					SBC550060F05	930200060
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	SBC425000F05	930200100
383	4.030						450	12.0	11.1	10.4					SBC425030F05	930200130
385	4.040						454	12.0	11.2	10.4					SBC425040F05	930200140
388	4.060						462	12.1	11.3	10.5					SBC425060F05	930200160
401	4.125						466	12.4	11.6	10.8					SBC425125F05	930200225
407	4.155						478	12.6	11.7	10.9					SBC425155F05	930200255
409	4.165						482	12.6	11.7	11.0					SBC425165F05	930200265
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	SBC250000F05	930200300
358	4.030						428	11.2	10.4	9.7					SBC250030F05	930200330
359	4.040						432	11.3	10.5	9.8					SBC250040F05	930200340
362	4.060						440	11.4	10.6	9.9					SBC250060F05	930200360
374	4.125						444	11.7	10.9	10.2					SBC250125F05	930200425
380	4.155						456	11.8	11.0	10.3					SBC250155F05	930200455
381	4.165						460	11.9	11.0	10.3					SBC250165F05	930200465
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	SBC188125F05	930200525
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	SBC125000F05	930200600
358	4.030						415	11.3	10.5	9.8					SBC125030F05	930200630
359	4.040						419	11.3	10.5	9.8					SBC125040F05	930200640
362	4.060						426	11.4	10.6	9.9					SBC125060F05	930200660
374	4.125						431	11.7	10.9	10.2					SBC125125F05	930200725
380	4.155						442	11.8	11.0	10.3					SBC125155F05	930200755
381	4.165						446	11.9	11.0	10.3					SBC125165F05	930200765
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	SBC125000F05	930200600
383	4.030						415	12.0	11.1	10.4					SBC125030F05	930200630
385	4.040						419	12.0	11.2	10.4					SBC125040F05	930200640
388	4.060						426	12.1	11.3	10.5					SBC125060F05	930200660
401	4.125						431	12.4	11.6	10.8					SBC125125F05	930200725
407	4.155						442	12.6	11.7	10.9					SBC125155F05	930200755
409	4.165						446	12.6	11.7	11.0					SBC125165F05	930200765
395	4.030	3.875	6.000	1.062R	0.927	-5cc	396	12.4	11.5	10.7	4032	0.250	0.0025	0.0033	SBC062030F05	930200830
397	4.040						400	12.4	11.5	10.8					SBC062040F05	930200840
414	4.125						409	12.8	11.9	11.1					SBC062125F05	930200925
420	4.155						419	12.9	12.0	11.2					SBC062155F05	930200955
422	4.165						423	13.0	12.1	11.3					SBC062165F05	930200965
427	4.185					-8cc	436	12.7	11.9	11.2	2618	0.250	0.0046	0.0054	SBC062185F08	930201385
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	SBC000030F05	930201030
410	4.040						391	12.8	11.9	11.1					SBC000040F05	930201040
414	4.060						397	12.9	12.0	11.2					SBC000060F05	930201060
427	4.125						400	13.2	12.3	11.5					SBC000125F05	930201125
434	4.155						410	13.4	12.4	11.6					SBC000155F05	930201155
436	4.165						413	13.4	12.5	11.6					SBC000165F05	930201165
440	4.185					-7cc	411	13.4	12.4	11.6	2618	0.250	0.0046	0.0054	SBC000185F07	930201285

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 Meas.	Guide Min	Guide Max	Assembly Part No.	1,1, 2mm Part No.
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**SMALL BLOCK CHEVY WISSOTA Gasported 22°/23° Asymmetrical Valve Pockets**

.043, .043, 3.0mm 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	419	11.4	10.6	9.9	4032	0.500	0.0036	0.0044	SBC550030T04	930202530
359	4.040						423	11.4	10.6	9.9					SBC550040T04	930202540
361	4.050						427	11.5	10.7	10.0					SBC550050T04	930202550
362	4.060						431	11.5	10.7	10.0					SBC550060T04	930202560
358	4.030	3.500	6.000	1.250	0.927	-4cc	382	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	SBC250030T04	930202630
359	4.040						386	11.4	10.6	9.9					SBC250040T04	930202640
361	4.050						389	11.5	10.7	10.0					SBC250050T04	930202650
362	4.060						393	11.5	10.7	10.0					SBC250060T04	930202660
358	4.030	3.500	6.125	1.125	0.927	-4cc	366	11.4	10.6	9.9	4032	0.250	0.0036	0.0044	SBC125030T04	930202830
359	4.040						369	11.4	10.6	9.9					SBC125040T04	930202840
362	4.060						376	11.5	10.7	10.0					SBC125060T04	930202860
383	4.030	3.750	6.000	1.125	0.927	-4cc	366	12.1	11.3	10.5	4032	0.250	0.0036	0.0044	SBC125030T04	930202830
385	4.040						369	12.2	11.3	10.5					SBC125040T04	930202840
388	4.060						376	12.3	11.4	10.6					SBC125060T04	930202860

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

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	485	11.3	10.5	9.8	4032	0.500	0.0025	0.0033	SBC550030F4V	930203630
359	4.040						489	11.3	10.5	9.8					SBC550040F4V	930203640
362	4.060						497	11.4	10.6	9.9					SBC550060F4V	930203660
358	4.030	3.480/3.500	6.000	1.250	0.927	-5cc	444	11.3	10.5	9.8	4032	0.500	0.0025	0.0033	SBC250030F4V	930203730

**SMALL BLOCK CHEVY 305ci FLAT TOP**

.043, .043, 3.0mm 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	SBC550766F03	930204566
312	3.776						417	10.3	9.6	8.9					SBC550776F03	930204576
313	3.786						421	10.4	9.6	9.0					SBC550786F03	930204586
315	3.796						425	10.4	9.7	9.0					SBC550796F03	930204596

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

.043, .043, 3.0mm 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	SBC550766T01	930205566
312	3.776						414	10.5	9.8	9.1					SBC550776T01	930205576
313	3.786						418	10.6	9.8	9.1					SBC550786T01	930205586
315	3.796						422	10.6	9.9	9.2					SBC550796T01	930205596

**SMALL BLOCK CHEVY 2bbi LIGHT WEIGHT Asymmetrical Valve Pockets**

1.5, 1.5, 3.0mm Performance Ring Set and Light Weight 92 gram pins included																
								58cc	64cc	70cc						
358	4.030	3.500	5.700	1.550	0.927	-2cc	402	11.3	10.8	9.8	4032	0.500	0.0036	0.0044	SBC550030F02	930206530
358	4.040						405	11.3	10.8	9.8					SBC550040F02	930206540
362	4.060						413	11.4	10.9	9.9					SBC550060F02	930206560
358	4.030	3.500	6.000	1.250	0.927	-2cc	365	11.3	10.8	9.8	4032	0.250	0.0036	0.0044	SBC250030F02	930206630
358	4.040						368	11.3	10.8	9.8					SBC250040F02	930206640
362	4.060						375	11.4	10.9	9.9					SBC250060F02	930206660
358	4.030	3.500	6.125	1.125	0.927	-2cc	349	11.3	10.8	9.8	4032	0.250	0.0036	0.0044	SBC125030F02	930206730
358	4.040						352	11.3	10.8	9.8					SBC125040F02	930206740
362	4.060						359	11.4	10.9	9.9					SBC125060F02	930206760
383	4.030	3.750	6.000	1.125	0.927	-2cc	349	12.4	11.5	10.7	4032	0.250	0.0036	0.0044	SBC125030F02	930206730
385	4.040						352	12.4	11.5	10.7					SBC125040F02	930206740
388	4.060						359	12.5	11.6	10.8					SBC125060F02	930206760

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.	1,1, 2mm Part No.
								58cc	64cc	70cc		Min	Max			
<b>GM 604 Crate Engine Drop-In Forged Replacement</b>																
Requires 2.0mm, 1.5mm, 4.0mm Ring Set (Not Included)																
350	4.005	3.480	5.700	1.559	0.927	-5cc		11.3	10.5	9.9	4032	0.500	0.0026	0.0034	930127805*	N/A
353	4.020														930127820*	N/A
355	4.030														930127830*	N/A

\*Weight matches OE cast piston

**SMALL BLOCK CHEVY DOME**

1.5, 1.5, 3.0mm 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.	1,1, 2mm 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	SBC550030D11	930207530
359	4.040						515	14.3	13.0	11.9					SBC550040D11	930207540
362	4.060						523	14.4	13.1	12.0					SBC550060D11	930207560
383	4.030	3.750	5.700	1.425	0.927	11cc	496	15.2	13.8	12.6	2618	0.500	0.0046	0.0054	SBC425030D11	930207730
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	SBC425125D04	930207825
407	4.155						504	14.3	13.1	12.1					SBC425155D04	930207855
409	4.165						507	14.3	13.2	12.2					SBC425165D04	930207865
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	SBC250030D11	930207930
359	4.040						478	14.3	13.0	11.9					SBC250040D11	930207940
362	4.060						485	14.4	13.1	12.0					SBC250060D11	930207960
380	4.155						512	14.9	13.6	12.5					SBC250155D11	930208055
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	SBC125030D11	930208130
359	4.040						464	14.3	13.0	11.9					SBC125040D11	930208140
362	4.060						471	14.4	13.1	12.0					SBC125060D11	930208160
374	4.125						486	14.7	13.4	12.3		0.500	0.0046	0.0054	SBC125125D11	930208225
380	4.155						497	14.9	13.6	12.5					SBC125155D11	930208255
381	4.165						501	15.0	13.6	12.5					SBC125165D11	930208265
383	4.030					6cc	453	13.0	12.0	11.0	2618	0.250	0.0046	0.0054	SBC125030D06	930208330
385	4.040						456	13.1	12.0	11.1					SBC125040D06	930208340
388	4.060						464	13.2	12.1	11.2					SBC125060D06	930208360
374	4.125					4cc	467	13.2	12.2	11.3	2618	0.500	0.0046	0.0054	SBC125125D04	930208425
380	4.155						479	13.4	12.3	11.4					SBC125155D04	930208455
381	4.165						482	13.4	12.3	11.4					SBC125165D04	930208465
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	SBC125030D11	930208130
385	4.040						464	15.2	13.8	12.7					SBC125040D11	930208140
388	4.060						471	15.3	13.9	12.8					SBC125060D11	930208160
401	4.125						486	15.7	14.3	13.1		0.500	0.0046	0.0054	SBC125125D11	930208225
407	4.155						497	15.9	14.5	13.3					SBC125155D11	930208255
409	4.165						501	16.0	14.5	13.3					SBC125165D11	930208265
383	4.030					6cc	453	14.0	12.8	11.8	2618	0.250	0.0046	0.0054	SBC125030D06	930208330
385	4.040						456	14.0	12.9	11.9					SBC125040D06	930208340
388	4.060						464	14.2	13.0	12.0					SBC125060D06	930208360
401	4.125					4cc	467	14.1	12.9	12.0	2618	0.500	0.0046	0.0054	SBC125125D04	930208425
407	4.155						479	14.2	13.1	12.1					SBC125155D04	930208455
409	4.165						482	14.3	13.1	12.2					SBC125165D04	930208465
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	SBC062030D11	930208530
397	4.040						455	15.7	14.3	13.1					SBC062040D11	930208540
401	4.060						462	15.8	14.4	13.2					SBC062060D11	930208560
414	4.125					4cc	447	14.5	13.3	12.4	2618	0.415	0.0046	0.0054	SBC062125D04	930208625
420	4.155						458	14.7	13.5	12.5					SBC062155D04	930208655
422	4.165						462	14.7	13.6	12.5					SBC062165D04	930208665
434	4.155	4.000	6.000	1.000R	0.927	8cc	445	16.1	14.7	13.5	2618	0.350	0.0046	0.0054	SBC000155D08	930208755
427	4.125					4cc	437	15.0	13.7	12.7	2618	0.350	0.0046	0.0054	SBC000125D04	930208825
434	4.155						448	15.1	13.9	12.9					SBC000155D04	930208855
436	4.165						452	15.2	14.0	12.9					SBC000165D04	930208865

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.	1,1, 2mm Part No.
								58cc	64cc	70cc		Min	Max			
<b>SMALL BLOCK CHEVY INVERTED DOME</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	SBC550030I20	930210130
359	4.040						493	9.5	9.0	8.5					SBC550040I20	930210140
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	SBC425030I16	930210230
385	4.040						472	10.6	9.9	9.3					SBC425040I16	930210240
388	4.060						480	10.6	10.0	9.4					SBC425060I16	930210260
407	4.155					-20cc	506	10.6	10.0	9.4	4032	0.500	0.0025	0.0033	SBC425155I20	930210355
409	4.165						511	10.6	10.0	9.5					SBC425165I20	930210365
383	4.030					-26cc	473	9.5	9.0	8.5	2618	0.500	0.0046	0.0054	SBC425030I26	930210430
385	4.040						477	9.5	9.0	8.5					SBC425040I26	930210440
383	4.030					-31cc	477	9.1	8.6	8.2	2618	0.500	0.0046	0.0054	SBC425030I31	930210530
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	SBC250030I20	930210630
359	4.040						452	9.5	8.9	8.4					SBC250040I20	930210640
358	4.030					-26cc	445	8.9	8.4	8.0	2618	0.250	0.0046	0.0054	SBC250030I26	930210730
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	SBC125030I16	930210830
359	4.040						439	9.9	9.3	8.8					SBC125040I16	930210840
362	4.060						446	10.0	9.4	8.9					SBC125060I16	930210860
374	4.125						451	10.2	9.6	9.1					SBC125125I16	930210925
380	4.155						462	10.3	9.8	9.2					SBC125155I16	930210955
382	4.165						466	10.4	9.8	9.2					SBC125165I16	930210965
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	SBC125030I26	930211030
385	4.040						446	9.5	9.0	8.6					SBC125040I26	930211040
407	4.125						460	9.8	9.3	8.8					SBC125125I26	930211125
409	4.155						472	10.0	9.4	8.9					SBC125155I26	930211155
383	4.030					-16cc	435	10.5	9.9	9.3	4032	0.250	0.0025	0.0033	SBC125030I16	930210830
385	4.040						439	10.6	9.9	9.3					SBC125040I16	930210840
388	4.060						446	10.6	10.0	9.4					SBC125060I16	930210860
407	4.155						462	11.1	10.4	9.8					SBC125155I16	930210955
409	4.165						466	11.1	10.4	9.8					SBC125165I16	930210965
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	SBC062030I18	930211230
397	4.040						427	10.5	10.0	9.4					SBC062040I18	930211240
414	4.125					-22cc	443	10.5	9.9	9.4					SBC062125I22	930211325
420	4.155						455	10.6	10.0	9.5					SBC062155I22	930211355
422	4.165						458	10.7	10.1	9.6					SBC062165I22	930211365
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	SBC000125I20	930211425
434	4.155						429	11.2	10.6	10.0					SBC000155I20	930211455
436	4.165						433	11.3	10.6	10.0					SBC000165I20	930211465

Compression Heights with "R" INCLUDE Oil Support Rails

**LS1/2/6 FLAT TOP & DOME**

1.5, 1.5, 3.0mm 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.	1,1, 2mm Part No.
								66cc	64cc	72cc		Min	Max			
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	LS1340898F04	930217698
347	3.905						398	9.9	10.1	9.3					LS1340905F04	930217605
348	3.908						399	9.9	10.1	9.3					LS1340908F04	930217608
364	4.000						433	10.3	10.5	9.6					LS1340000F04	930217700
365	4.005						435	10.3	10.5	9.7					LS1340005F04	930217705
366	4.010						437	10.3	10.6	9.7					LS1340010F04	930217710
370	4.030						445	10.4	10.7	9.8					LS1340030F04	930217730
329	3.800	3.622	6.098	1.330	0.945	-4cc	403	9.5	9.7	8.9	4032	0.500	0.0025	0.0033	LS1330800F04*	930217800
346	3.898	3.622	6.125	1.314	0.927	-4cc	394	9.9	10.1	9.3	4032	0.530	0.0025	0.0033	LS1314898F04	930217998
347	3.905						397	9.9	10.1	9.3					LS1314905F04	930217905
348	3.908						398	9.9	10.1	9.3					LS1314908F04	930217908
364	4.000						432	10.3	10.5	9.7					LS1314000F04	930218000
365	4.005						434	10.3	10.5	9.7					LS1314005F04	930218005
366	4.010						436	10.3	10.5	9.7					LS1314010F04	930218010
370	4.030						443	10.4	10.7	9.8					LS1314030F04	930218030
403	4.005	4.000	6.125	1.105R	0.927	-4cc	396	11.3	11.5	10.6	4032	0.500	0.0025	0.0033	LS1105005F04	930218105
408	4.030						404	11.4	11.7	10.7					LS1105030F04	930218130
363	3.800					0cc	375	10.8	11.1	10.1	4032	0.500	0.0025	0.0033	LS1105800D00	930218200*

Compression Heights with "R" INCLUDE Oil Support Rails

\* 5.3L 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.	1,1, 2mm Part No.
<b>LS1/2/6 INVERTED DOME</b>																
1.5, 1.5, 3.0mm 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	LS1314905116	930219005
348	3.908						408	8.8	8.9	8.3					LS1314908116	930219008
383	3.905	4.000	6.125	1.105R	0.927	-6cc	387	10.6	10.8	9.9	4032	0.500	0.0025	0.0033	LS1105905106	930219205
384	3.908						388	10.6	10.8	10.0					LS1105908106	930219208
403	4.005					-12cc	397	10.3	10.6	9.8	4032	0.500	0.0025	0.0033	LS1105005112	930219305
404	4.010						400	10.4	10.6	9.8					LS1105010112	930219310
408	4.030						407	10.5	10.7	9.9					LS1105030112	930219330
363	3.800					-16cc	348	9.1	9.3	8.6	4032	0.500	0.0025	0.0033	LS1105800116	930219600*
383	3.905					-26cc	373	8.7	8.9	8.3	2618	0.340	0.0050	0.0058	LS1105905126	930219405
403	4.005					-28cc	413	8.9	9.1	8.5	2618	0.500	0.0061	0.0069	LS1105005128	930219505
408	4.030						422	9.0	9.2	8.6					LS1105030128	930219530

Compression Heights with "R" INCLUDE Oil Support Rails

\* 5.3L Application

**LS7 FLAT TOP & INVERTED**

043", 1.5 Napier, 3.0mm File Fit Performance Ring Set included																
								66cc	64cc	72cc						
427	4.125	4.000	6.067	1.181R	0.927	-3cc	436	12.0	12.2	11.2	4032	0.500	0.0025	0.0033	LS7181125F03	930221525
429	4.130						437	12.0	12.3	11.2					LS7181130F03	930221530
427	4.125	4.000	6.125	1.105R	0.927	-3cc	438	12.0	12.2	11.2	4032	0.430	0.0025	0.0033	LS7105125F03	930221625
429	4.130						440	12.0	12.3	11.2					LS7105130F03	930221630
430	4.135						442	12.1	12.4	11.3					LS7105135F03	930221635
427	4.125					-25cc	454	9.7	9.9	9.2	2618	0.430	0.0046	0.0054	LS7105125P25*	930221825
429	4.130						455	9.8	10.0	9.3					LS7105130P25*	930221830
440	4.185					-6cc	436	11.6	11.8	11.0	4032	0.430	0.0025	0.0033	LS7105185106	930221985

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**

1.5, 1.5, 3.0mm 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	L92340065F04	930223065
377	4.070						460		10.1						L92340070F04	930223070
378	4.075						462		10.2						L92340075F04	930223075
365	4.005	3.622	6.125	1.314	0.927	-4cc	444		9.7		4032	0.530	0.0025	0.0033		930223105
366	4.010						446		9.8							930223110
370	4.030						448		10.0						L92314030F04	930223130
376	4.065						456		10.1						L92314065F04	930223165
377	4.070						458		10.1						L92314070F04	930223170
378	4.075						460		10.2						L92314075F04	930223175
403	4.005	4.000	6.125	1.105R	0.927	-4cc	396		10.8		4032	0.500	0.0025	0.0033	L92105005F04	930223205
408	4.030						404		10.9						L92105030F04	930223230
415	4.065						417		11.1						L92105065F04	930223265
416	4.070						418		11.1						L92105070F04	930223270
417	4.075						420		11.2						L92105075F04	930223275
427	4.070	4.125	6.125	1.045R	0.927	-8cc	418		11.1		2618	0.500	0.0052	0.0060	L92045070T08*	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**

1.5, 1.5, 3.0mm 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	L92314010112	930224510
377	4.070						465		9.3						L92314070112	930224570
404	4.010	4.000	6.125	1.105R	0.927	-20cc	409		9.2		2618	0.500	0.0050	0.0058	L92105010120	930224610
408	4.030						415		9.3						L92105030120	930224630
416	4.070					-25cc	428		9.1		4032	0.500	0.0025	0.0033	L92105070125	930224770
417	4.075						430		9.2						L92105075125	930224775
428	4.125						429		9.3						L92105125125	930224825
415	4.065					-25cc	431		9.1		2618	0.500	0.0046	0.0054	L92105065P25*	930224965
416	4.070						433		9.1						L92105070P25*	930224970
428	4.125						450		9.3						L92105125P25*	930225025

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Assembly Part No.	1,1, 2mm Part No.
										Meas.	Min	Max		
<b>LS3 / L92 INVERTED DOME continued....</b>														
428	4.070	4.125	6.125	1.055R	0.927	-30cc	414	9.0	2618	0.500	0.0046	0.0054	L92055070130	930225170
427	4.065					-8cc	421	10.8	4032	0.500	0.0025	0.0033	L92055065108	930225265
428	4.070						423	10.9					L92055070108	930225270
428	4.075						424	10.9					L92055075108	930225275
<b>427</b>	<b>4.070</b>	<b>4.100</b>	<b>6.125</b>	<b>1.045R</b>	<b>0.927</b>	<b>-31cc</b>	<b>414</b>	<b>9.0</b>	<b>2618</b>	<b>0.500</b>	<b>0.0052</b>	<b>0.0060</b>	<b>L92045070P31*</b>	<b>930225370</b>

Compression Heights with "R" INCLUDE Oil Support Rails

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

**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
<b>365</b>	<b>4.005</b>	<b>3.622</b>	<b>6.125</b>	<b>1.304</b>	<b>0.927</b>	<b>12cc</b>	<b>468</b>	<b>11.9</b>	<b>2618</b>	<b>0.500</b>	<b>0.0046</b>	<b>0.0054</b>		<b>197714805*</b>
<b>366</b>	<b>4.010</b>						<b>470</b>	<b>11.9</b>						<b>197714810*</b>
<b>370</b>	<b>4.030</b>						<b>477</b>	<b>12.0</b>						<b>197714830*</b>
<b>376</b>	<b>4.065</b>						<b>490</b>	<b>12.2</b>						<b>197714865*</b>
<b>377</b>	<b>4.070</b>						<b>492</b>	<b>12.2</b>						<b>197714870*</b>
<b>378</b>	<b>4.075</b>						<b>494</b>	<b>12.3</b>						<b>197714875*</b>

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

**LT1**

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

**60cc**

376	4.065	3.622	6.125	1.314	0.927	0cc	460	11.5	2618	TBA	TBA	TBA		TBA
377	4.070						462	11.6		TBA	TBA	TBA		TBA
<b>415</b>	<b>4.065</b>	<b>4.000</b>	<b>6.125</b>	<b>1.105</b>	<b>0.927</b>	<b>-6cc</b>	<b>441</b>	<b>12.0</b>	<b>2618</b>	<b>0.500</b>	<b>0.0046</b>	<b>0.0054</b>		<b>930165365</b>
<b>416</b>	<b>4.070</b>						<b>443</b>	<b>12.1</b>						<b>930165370</b>
<b>427</b>	<b>4.125</b>						<b>457</b>	<b>12.3</b>						<b>930173225</b>
<b>428</b>	<b>4.130</b>						<b>459</b>	<b>12.4</b>						<b>930173230</b>
<b>416</b>	<b>4.070</b>					<b>-22cc</b>	<b>412</b>	<b>10.0</b>						<b>930228070</b>

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

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

043", 1.5 Napier , 3.0mm 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	LSX045125F08	930226525
439	4.130						448	11.6	10.9	10.7					LSX045130F08	930226530

Compression Heights with "R" INCLUDE Oil Support Rails

**NHRA LEGAL COPO CAMARO**

Call for Bore Sizes/Other Tech

**70cc**

<b>427</b>	<b>4.125</b>	<b>4.000</b>	<b>6.100</b>	<b>1.140</b>	<b>0.927</b>	<b>12cc</b>	<b>468</b>	Dependent Upon Bore Size	<b>2618</b>	<b>0.500</b>	<b>0.0046</b>	<b>0.0054</b>	<b>930148525</b>
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**BIG BLOCK CHEVY FLAT TOP**

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	-3cc	528	8.6	8.2	7.9	4032	0.500	0.0041	0.0049	BBC645280F03
468	4.310						542	8.6	8.3	8.0					BBC645310F03
509	4.500						574	9.3	8.9	8.6					BBC645500F03
515	4.530						588	9.4	9.0	8.6					BBC645530F03
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	BBC395500F03
532	4.600						584	9.7	9.3	8.9					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	BBC270280F03
496	4.310						481	9.2	8.8	8.4					BBC270310F03
498	4.320						485	9.2	8.8	8.5					BBC270320F03
505	4.350						498	9.3	8.9	8.6					BBC270350F03
540	4.500						513	9.8	9.4	9.1	4032	0.445	0.0041	0.0049	BBC270500F03
555	4.560						540	10.0	9.6	9.3					BBC270560F03
565	4.600						558	10.2	9.8	9.4					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	BBC160500F03
632	4.600						537	11.3	10.8	10.4					BBC160600F03

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 Meas.	Guide Min	Guide Max	Assembly Part No.	1,1, 2mm Part No.
<b>BIG BLOCK CHEVY 502 MARINE "DROP IN" REPLACEMENT</b>														
1/16 x 1/16 x 3/16 File Fit Performance Ring Set included								118cc						
502	4.470	4.000	6.135	1.645	0.990	1cc	673	9.0	4032	0.415	0.0041	0.0049	MER645470D01	
509	4.500					-3cc	679	9.0	4032	0.415	0.0041	0.0049	MER645500F03	
515	4.530						695	9.1					MER645530F03	

**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	BBC645280D28
468	4.310						640	11.2	10.6	10.1					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	BBC395280D28
467	4.310						601	11.2	10.6	10.1					BBC395310D28
460	4.280					48cc	616	13.8	12.9	12.0	2618	0.600	0.0061	0.0069	BBC395280D48
467	4.310						629	14.0	13.0	12.2					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	BBC270500D10
540	4.500					13cc	543	11.1	10.6	10.1	4032	0.445	0.0041	0.0049	BBC270500D13
548	4.530						557	11.2	10.7	10.2					BBC270530D13
555	4.560						570	11.4	10.8	10.3					BBC270560D13
565	4.600						588	11.5	11.0	10.5					BBC270600D13
489	4.280					18cc	526	10.7	10.2	9.7	4032	0.250	0.0041	0.0049	BBC270280D18
496	4.310						539	10.8	10.3	9.8					BBC270310D18
498	4.320						543	10.9	10.3	9.8					BBC270320D18
505	4.350						555	11.0	10.4	9.9					BBC270350D18
540	4.500					38cc	590	14.1	13.2	12.5	2618	0.445	0.0061	0.0069	BBC270500D38
555	4.560						616	14.4	13.5	12.8					BBC270560D38
565	4.600						635	14.6	13.7	12.9					BBC270600D38
489	4.280					43cc	578	13.8	12.9	12.1	2618	0.445	0.0061	0.0069	BBC270280D43
496	4.310						591	13.9	13.0	12.2					BBC270310D43
498	4.320						595	14.0	13.1	12.3					BBC270320D43
505	4.350						608	14.1	13.2	12.4					BBC270350D43
496	4.310					48cc	605	14.8	13.7	12.8	2618	0.445	0.0061	0.0069	BBC270310D48
505	4.350						622	15.0	14.0	13.0					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	BBC228280D18
511	4.310						549	11.1	10.5	10.1					BBC228310D18
511	4.310					41cc	578	14.0	13.1	12.3	2618	0.400	0.0061	0.0069	BBC228310D41

Compression Heights with "R" INCLUDE Oil Support Rails

**BIG BLOCK CHEVY ELITE SPORTSMAN DRAG SERIES**

.043, .043, 3.0mm File Fit Performance Ring Set included								112cc	118cc	124cc					
582	4.600	4.375	6.535	1.060R	0.990	40cc	TBA	14.8	13.9	13.1	2618	0.445	0.0061	0.0069	930239000
583	4.605							14.9	14.0	13.2					930239005
584	4.610							14.9	14.0	13.2					930239010
588	4.625							15.0	14.0	13.3					930239025
565	4.600	4.250	6.535	1.120R	0.990	42cc	TBA	14.8	13.9	13.0	2618	0.445	0.0061	0.0069	930239100
566	4.605							14.8	13.9	13.1					930239105
567	4.610							14.9	13.9	13.1					930239110
571	4.625							14.9	14.0	13.2					930239125
598	4.600	4.500	6.385	1.155R	0.990	45cc	TBA	16.1	15.1	14.2	2618	0.445	0.0061	0.0069	930239200
599	4.605							16.2	15.1	14.2					930239205
601	4.610							16.2	15.2	14.3					930239210
605	4.625							16.3	15.3	14.4					930239225
565	4.600	4.250	6.385	1.270R	0.990	50cc	TBA	16.2	15.1	14.1	2618	0.445	0.0061	0.0069	930239300
566	4.605							16.3	15.2	14.2					930239305
567	4.610							16.3	15.2	14.2					930239310
571	4.625							16.4	15.3	14.3					930239325
582	4.600	4.375	6.385	1.215R	0.990	50cc	TBA	16.7	15.5	14.5	2618	0.445	0.0061	0.0069	930239400
583	4.605							16.7	15.6	14.6					930239405
584	4.610							16.8	15.6	14.6					930239410
588	4.625							16.9	15.7	14.7					930239425

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.	1,1, 2mm Part No.
												Min	Max			
<b>BIG BLOCK CHEVY ELITE SPORTSMAN DRAG SERIES continued</b>																
.043, .043, 3.0mm File Fit Performance Ring Set included																
								112cc	118cc	124cc						
565	4.600	4.250	6.535	1.120R	0.990	50cc	TBA	16.2	15.1	14.2	2618	0.445	0.0061	0.0069	930239500	
566	4.605							16.3	15.2	14.2					930239505	
567	4.610							16.3	15.2	14.2					930239510	
571	4.625							16.4	15.3	14.3					930239525	
598	4.600	4.500	6.800	1.120R	0.990	50cc	TBA	17.1	16.0	14.9	2618	0.445	0.0061	0.0069	930239500	
599	4.605							17.2	16.0	15.0					930239505	
601	4.610							17.2	16.0	15.0					930239510	
605	4.625							17.3	16.1	15.1					930239525	
632	4.600	4.750	6.700	1.120R	0.990	50cc	TBA	18.0	16.8	15.7	2618	0.445	0.0061	0.0069	930239500	
633	4.605							18.1	16.9	15.8					930239505	
634	4.610							18.1	16.9	15.8					930239510	
638	4.625							18.2	17.0	15.9					930239525	
582	4.600	4.375	6.535	1.060R	0.990	50cc	TBA	16.7	15.5	14.5	2618	0.445	0.0061	0.0069	930239600	
583	4.605							16.7	15.6	14.6					930239605	
584	4.610							16.8	15.6	14.6					930239610	
588	4.625							16.9	15.7	14.7					930239625	

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.

**SMALL BLOCK FORD FLAT TOP**

1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
								58cc	64cc	70cc						
358	4.030	3.500	5.956	1.775	0.912	-6cc	486	11.1	10.3	9.7	4032	0.500	0.0025	0.0033	SBF775030F06	930244030
306	4.030	3.000	5.090	1.600	0.912	-6cc	466	9.7	9.0	8.4	4032	0.500	0.0025	0.0033	SBF600030F06	930244130
308	4.040						470	9.7	9.1	8.5					SBF600040F06	930244140
393	4.030	3.850	5.956	1.600	0.912	-6cc	466	12.1	11.3	10.6	4032	0.500	0.0025	0.0033	SBF600030F06	930244130
395	4.040						470	12.2	11.3	10.6					SBF600040F06	930244140
393	4.030	3.850	6.200	1.350	0.927	-6cc	434	12.1	11.3	10.6	4032	0.500	0.0025	0.0033	SBF350030F06	930244230
408	4.030	4.000	6.250	1.245	0.927	-6cc	420	12.6	11.7	10.8	4032	0.250	0.0025	0.0033	SBF245030F06	930244330
410	4.040						423	10.7	11.6	10.9					SBF245040F06	930244340
414	4.060						431	12.6	11.7	11.0					SBF245060F06	930244360
428	4.125						415	13.0	12.1	11.3					SBF245125F06	930244425
430	4.130						417	13.0	12.1	11.3					SBF245130F06	930244430
434	4.155						426	13.2	12.3	11.5					SBF245155F06	930244455
418	4.030	4.100	6.200	1.245	0.927	-6cc	420	12.9	12.0	11.2	4032	0.250	0.0025	0.0033	SBF245030F06	930244330
420	4.040						423	12.9	12.0	11.2					SBF245040F06	930244340
425	4.060						431	13.0	12.0	11.3					SBF245060F06	930244360
438	4.125						415	13.3	12.4	11.6					SBF245125F06	930244425
440	4.130						417	13.3	12.4	11.6					SBF245130F06	930244430
445	4.155						426	13.5	12.6	11.7					SBF245155F06	930244455
419	4.000	4.170	6.250	1.165	0.927	-6cc	398	12.9	12.0	11.2	4032	0.250	0.0025	0.0033	SBF165000F06	930244500
425	4.030						409	13.0	12.1	11.3					SBF165030F06	930244530
428	4.040						412	13.1	12.2	11.4					SBF165040F06	930244540
327	4.000	3.250	5.400	1.165	0.927	-6cc	398	10.3	9.6	8.9	4032	0.250	0.0025	0.0033	SBF165000F06	930244500
331	4.030						409	10.4	9.7	9.1					SBF165030F06	930244530
333	4.040						412	10.5	9.7	9.1					SBF165040F06	930244540
347	4.125						405	10.8	10.0	9.4					SBF165125F06	930244625
352	4.155	3.250	5.400	1.165	0.927	-6cc	415	10.9	10.1	9.5	4032	0.250	0.0025	0.0033	SBF165155F06	930244655
342	4.000	3.400	5.400	1.090R	0.927	-6cc	385	10.7	9.9	9.3	4032	0.500	0.0025	0.0033	SBF090000F06	930244700
347	4.030						395	10.8	10.1	9.4					SBF090030F06	930244730
348	4.035						397	10.8	10.1	9.4					SBF090035F06	930244735
349	4.040						398	10.9	10.1	9.5					SBF090040F06	930244740
352	4.060						405	11.0	10.2	9.6					SBF090060F06	930244760
364	4.125						404	11.2	10.5	9.8					SBF090125F06	930244825
369	4.155						414	11.4	10.6	9.9					SBF090155F06	930244855

Compression Heights with "R" INCLUDE Oil Support Rails

**SMALL BLOCK FORD DOME**

1.5, 1.5, 3.0mm 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	2618	0.360	0.0025	0.0033	SBF165030D07	930247030
347	4.030	3.400	5.400	1.090R	0.927	7cc	469	13.0	11.9	11.0	2618	0.500	0.0025	0.0033	SBF090030D07	930247130

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.	1,1, 2mm Part No.
<b>SMALL BLOCK FORD INVERTED DOME</b>																
1.5, 1.5, 3.0mm 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	SBF600030I26	930248130
395	4.040						469	9.8	9.2	8.8					SBF600040I26	930248140
408	4.030	4.000	6.200	1.300	0.927	-20cc	413	10.7	10.1	9.5	4032	0.425	0.0025	0.0033	SBF300030I20	930248230
410	4.040						417	10.8	10.2	9.6					SBF300040I20	930248240
408	4.030					-28cc	427	9.9	9.3	8.9	4032	0.425	0.0025	0.0033	SBF300030I28	930248330
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	SBF245030I26	930248430
410	4.040						420	10.1	9.6	9.1					SBF245040I26	930248440
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	SBF245030I26	930248430
420	4.040						420	10.6	10.0	9.5					SBF245040I26	930248440
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	SBF245125I26	930248525
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	SBF245125I26	930248525
408	4.030	4.000	6.250	1.230	0.927	-20cc	403	10.7	10.1	9.5	4032	0.250	0.0025	0.0033	SBF230030I20	930248730
410	4.040						406	10.7	10.1	9.6					SBF230040I20	930248740
425	4.030	4.170	6.250	1.165	0.927	-16cc	406	11.5	10.8	10.2	4032	0.250	0.0025	0.0033	SBF165030I16	930248830
428	4.040						409	11.6	10.9	10.3					SBF165040I16	930248840
331	4.030	3.250	5.400	1.165	0.927	-16cc	406	9.3	8.7	8.2	4032	0.250	0.0025	0.0033	SBF165030I16	930248830
333	4.040						409	9.3	8.7	8.2					SBF165040I16	930248840
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	SBF090030I16	930249130
349	4.040						392	9.7	9.1	8.6					SBF090040I16	930249140
351	4.060						399	9.8	9.2	8.7					SBF090060I16	930249160
364	4.125						412	10.1	9.4	8.9		0.260	0.0025	0.0033	SBF090125I16	930249025

Compression Heights with "R" INCLUDE Oil Support Rails

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

1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
61cc																
408	4.030	4.000	6.250	1.245	0.927	-6cc	440				4032	0.250	0.0025	0.0033	TWF245030F06	930250030
410	4.040						444								TWF245040F06	930250040
408	4.030	4.100	6.200	1.245	0.927	-6cc	440	12.4			4032	0.250	0.0025	0.0033	TWF245030F06	930250030
410	4.040						444	12.4							TWF245040F06	930250040
331	4.030	3.250	5.400	1.165	0.927	-6cc	428	10.0			4032	0.250	0.0025	0.0033	TWF165030F06	930250130
333	4.040						431	10.1							TWF165040F06	930250140
347	4.125						476	10.4							TWF165125F06	930250225
347	4.030	3.400	5.400	1.090R	0.927	-6cc	412	10.4			4032	0.500	0.0025	0.0033	TWF090030F06	930250330
349	4.040						416	10.5							TWF090040F06	930250340
363	4.125						462	10.8			4032	0.500	0.0025	0.0033	TWF090125F06	930250425

Compression Heights with "R" INCLUDE Oil Support Rails

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

1.5, 1.5, 3.0mm 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	TWF165030I16	930251030
333	4.040						441	9.0							TWF165040I16	930251040
347	4.030	3.400	5.400	1.090R	0.927	-16cc	421	9.3			4032	0.500	0.0025	0.0033	TWF090030I16	930251130
349	4.040						425	9.4							TWF090040I16	930251140
363	4.125					-18cc	466	9.5			4032	0.500	0.0025	0.0033	TWF090125I18	930251225

Compression Heights with "R" INCLUDE Oil Support Rails

**SMALL BLOCK FORD CLEVELAND**

1.5, 1.5, 3.0mm 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	FCL450030F03	930252030
393	4.030	3.850	6.000	1.275R	0.927	-3cc	467	12.2	11.6	10.6	4032	0.320	0.0025	0.0033	FCL275030F03	930252130
395	4.040						471	12.3	11.7	10.7					FCL275040F03	930252140
412	4.125						502	12.7	12.1	11.1		0.500	0.0025	0.0033	FCL275125F03	930252225
412	4.125					-20cc	498	10.5	10.1	9.4		0.500	0.0025	0.0033	FCL275125I20	930252325
408	4.030	4.000	6.000	1.200R	0.927	-20cc	443	10.5	10.1	9.3	4032	0.245	0.0025	0.0033	FCL200030I20	930252430
427	4.125					-24cc	481	10.4	10.0	9.3		0.500	0.0025	0.0033	FCL200125I24	930252525
408	4.030					-3cc	455	12.7	12.1	11.0		0.245	0.0025	0.0033	FCL200030F03	930252630
427	4.125						487	13.2	12.5	11.4		0.500	0.0025	0.0033	FCL200125F03	930252725

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 Meas.	Guide Min	Guide Max	Assembly Part No.	1,1, 2mm Part No.
<b>SMALL BLOCK FORD for the KAASE P-38® CYLINDER HEAD</b>														
1.5, 1.5, 3.0mm File Fit Performance Ring Set included <b>60cc</b>														
408	4.030	4.000	6.250	1.245	0.927	-20cc	426	10.2	4032	0.500	0.0025	0.0033	K38245030I20	930255030
427	4.125					-24cc		10.2	2618	TBA	TBA	TBA	K38245125I24	930255125
408	4.030					-33cc	419	9.1	4032	0.5000	0.0025	0.0033	K38245030I33	930255230
427	4.125					-33cc		9.4	2618	TBA	TBA	TBA	K38245125I33	930255325
331	4.030	3.250	5.400	1.165	0.927	-6cc	438	9.9	4032	0.500	0.0025	0.0033	K38165030I06	930254430
347	4.125					-6cc	424	10.2	4032				K38165125I06	930254625
331	4.030					-16cc		8.8	2618	TBA	TBA	TBA	K38165030I16	930254730
347	4.125					-20cc		8.8	2618				K38165125I20	930254925
347	4.030	3.400	5.400	1.090R	0.927	-6cc	427	10.3	4032	0.500	0.0025	0.0033	K38090030I06	930254030
364	4.125					-10cc	443	10.2	4032				K38090125I10	930254225
347	4.030					-20cc		8.8	2618	TBA	TBA	TBA	K38090030I20	930254130
364	4.125					-24cc		8.8	2618				K38090125I24	930254325

Compression Heights with "R" INCLUDE Oil Support Rails

**FORD MODULAR 4.6 2-VALVE or 4-VALVE**

1.5, 1.5, 3.0mm File Fit Performance Ring Set included <b>42cc 46cc 52cc</b>																
281	3.551	3.543	5.930	1.220	0.866	-16cc	350	9.9	9.4	8.7	4032	0.390	0.0006	0.0014	MOD220551I16	930256051
284	3.571						357	10.0	9.5	8.8					MOD220571I16	930256071
285	3.581						361	10.1	9.5	8.8					MOD220581I16	930256081
<b>284</b>	<b>3.571</b>					<b>-22cc</b>	<b>379</b>	<b>9.2</b>	<b>8.8</b>	<b>8.2</b>	<b>2618</b>	<b>0.420</b>	<b>0.0026</b>	<b>0.0034</b>	<b>MOD220571P22*</b>	<b>930256171</b>
281	3.551					0cc	387	12.9	12.0	10.8	4032	0.410	0.0006	0.0014	MOD220551F00	930256251
284	3.571						394	13.0	12.1	10.9					MOD220571F00	930256271

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

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

Call for bore sizes/other tech <b>52cc</b>														
330	3.553	3.543	5.930	1.220	0.866	-13CC	363	Dependent Upon Bore Size	2618	0.500	0.0026	0.0034	FCJ230553I13	

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

1.5, 1.5, 3.0mm File Fit Performance Ring Set included <b>42cc 46cc 52cc</b>																
330	3.551	4.165	6.657	1.220	0.866	-16cc	350	9.7	9.2	8.7	4032	0.390	0.0006	0.0014	MOD220551I16	930256051
334	3.571						357	9.8	9.3	8.8					MOD220571I16	930256071
336	3.581						361	9.8	9.4	8.8					MOD220581I16	930256081
<b>334</b>	<b>3.571</b>					<b>-22cc</b>	<b>379</b>	<b>9.1</b>	<b>8.8</b>	<b>8.3</b>	<b>2618</b>	<b>0.420</b>	<b>0.0026</b>	<b>0.0034</b>	<b>MOD220571P22*</b>	<b>930256171</b>
330	3.551					0cc	387	12.0	11.2	10.4	4032	0.410	0.0006	0.0014	MOD220551F00	930256251
334	3.571						394	12.0	11.3	10.5					MOD220571F00	930256271

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

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

1.2, 1.2, 2.5mm Performance Ring Set included <b>57cc</b>																
302	3.630	3.650	5.933	1.167	0.866	3cc	389	11.2			4032	0.250	0.0006	0.0014	M4V167630D03**	930258030
304	3.640						392	11.2							M4V167640D03**	930258040
302	3.630					-5cc	378	10.0			4032	0.250	0.0026	0.0034	M4V167630I05**	930134030
304	3.640						381	10.0							M4V167640I05**	930134040
<b>302</b>	<b>3.630</b>					<b>10cc</b>	<b>397</b>	<b>12.5</b>			<b>2618</b>	<b>0.250</b>	<b>0.0026</b>	<b>0.0034</b>	<b>M4V167630X10*</b>	<b>930258130</b>
304	3.640						400	12.5							M4V167640X10*	930258140
302	3.630					-13cc	355	9.0							M4V167630P13*	930258230
304	3.640						358	9.0							M4V167640P13*	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 5.0L MODULAR 4-VALVE "COYOTE"**

Call for bore sizes/other tech <b>57cc</b>														
302	3.630	3.650	5.933	1.167	0.866	-9CC	331	Dependent Upon Bore Size	2618	0.500	0.0026	0.0034	FRP167630I09	

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Guide Max	Assembly Part No.	1,1, 2mm Part No.
<b>FORD FLATHEAD - 3/16" STANDARD DOME</b>														
Top ring land is .280" tall to accomodate relieved blocks														
1/16, 1/16, 3/16 Performance Ring Set included														
276	3.312	4.000	7.000	1.438	0.750	13cc	338	9.0	8.1	4032	0.500	0.0016	0.0024	FFH438312D13 930260012
281	3.342						348	9.1	8.2					FFH438342D13 930260042
286	3.375						359	9.3	8.4					FFH438375D13 930260075
284	3.312	4.125	7.000	1.375	0.750	13cc	324	9.2	8.3	4032	0.500	0.0016	0.0024	FFH375312D13 930260112
290	3.342						333	9.4	8.4					FFH375342D13 930260142
295	3.375						344	9.6	8.6					FFH375375D13 930260175
293	3.312	4.250	7.000	1.313	0.750	13cc	310	9.5	8.5	4032	0.500	0.0016	0.0024	FFH313312D13 930260212
298	3.342						320	9.6	8.6					FFH313342D13 930260242
304	3.375						330	9.8	8.8					FFH313375D13 930260275

**2.3L FORD 4 CYLINDER PINTO**

1.5, 1.5, 3.0mm File Fit Performance Ring Set included															
52cc 58cc 62cc															
285	3.810	3.126	5.700	1.090R	0.927	-2cc	365	10.7	9.8	9.2	4032	0.540	0.0025	0.0033	PIN090810F01 930261010
286	3.820						369	10.7	9.8	9.3					PIN090820F01 930261020

Compression Heights with "R" INCLUDE Oil Support Rails

**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	BBF525390I28
503	4.390					-3cc	571	13.1	12.1	11.6	4032	0.235	0.0041	0.0049	BBF525390F03
514	4.440						593	13.3	12.3	11.8					BBF525440F03
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	BBF350390I38
557	4.440						585	10.5	9.9	9.7					BBF350440I38
545	4.390					-3cc	542	14.2	13.0	12.5	4032	0.235	0.0041	0.0049	BBF350390F03
557	4.440						564	14.5	13.3	12.8					BBF350440F03
520	4.390	4.300	6.800	1.350	0.990	-38cc	564	9.8	9.3	9.0	4032	0.235	0.0041	0.0049	BBF350390I38
532	4.440						585	10.0	9.5	9.2					BBF350440I38
520	4.390					-3cc	542	13.4	12.3	11.9	4032	0.235	0.0041	0.0049	BBF350390F03
532	4.440						564	13.7	12.6	12.1					BBF350440F03

**BIG BLOCK FORD for the AIRFLOW RESEARCH 14° CYLINDER HEAD**

1.5, 1.5, 3.0mm File Fit Performance Ring Set included															
75cc 88cc															
503	4.390	4.150	6.700	1.525	0.990	-28cc	591	10.1	9.2		4032	0.235	0.0041	0.0049	930265290
503	4.390					-3cc	571	12.7	11.2		4032	0.235	0.0041	0.0049	930265390
514	4.440						593	12.9	11.4						930265340
545	4.390	4.500	6.700	1.350	0.990	-38cc	564	10.1	9.2		4032	0.235	0.0041	0.0049	930265490
557	4.440						585	10.3	9.4						930265440
545	4.390					-3cc	542	13.7	12.1		4032	0.235	0.0041	0.0049	930265590
557	4.440						564	14.0	12.3						930265540
520	4.390	4.300	6.800	1.350	0.990	-36cc	564	9.8	9.0		4032	0.235	0.0041	0.0049	930265690
532	4.440						585	10.0	9.1						930295640
520	4.390					-3cc	542	12.7	11.3		4032	0.235	0.0041	0.0049	930265790
532	4.440						564	13.0	11.5						930265740

**BIG BLOCK FORD for the KASSE 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	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	KB9345390F08
545	4.390			1.345	0.990	-19cc	600	10.7	10.2		4032	0.250	0.0041	0.0049	930190990

**BIG BLOCK FORD for the KASSE P-51® CYLINDER HEAD**

Also fits FRP SCJ Cylinder Heads

1.5, 1.5, 3.0mm File Fit Performance Ring Set included															
72cc															
545	4.390	4.500	6.700	1.345	0.990	-34cc	559	10.3			4032	0.250	0.0041	0.0049	930190690

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.	1,1, 2mm Part No.
								68cc	72cc	76cc		Min	Max			
<b>FORD FE FLAT TOP</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	FFE665080F07	930264080
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	FFE390080F07	930264280
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	FFE325080F07	930264680
447	4.090						477	11.8	11.3	10.9						930264690
449	4.100						481	11.9	11.4	10.9						930264600
462	4.160						505	12.2	11.7	11.2				FFE325160F07	930265160	
464	4.170						509	12.3	11.8	11.3						930265170
467	4.180						513	12.3	11.8	11.3						930265180
482	4.250	4.250	6.700	1.325	0.990	-9cc	487	12.5	12.0	11.5	4032	0.500	0.0041	0.0049	FFE325250F09	930264850
487	4.270						495	12.6	12.1	11.6					FFE325270F09	930264870
489	4.280						500	12.7	12.1	11.7					FFE325280F09	930264880

<b>FORD FE INVERTED</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	FFE390080I26	930264180
445	4.080	4.250	6.700	1.325	0.990	-20cc	494	10.4	10.0	9.7	4032	0.500	0.0025	0.0033	FFE325080I20	930264480
447	4.090						498	10.4	10.1	9.7						930264490
449	4.100						502	10.5	10.1	9.8						930264400
462	4.160						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	FFE325250I20	929886550
487	4.270						517	11.3	10.9	10.5					FFE325270I20	929886570
489	4.280						521	11.3	10.9	10.5					FFE325280I20	929886580
445	4.080	4.250	6.700	1.325	0.990	-28cc	495	9.7	9.3	3.1	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	4.250	6.700	1.325	0.990	-33cc	520	9.6	9.3	9.1	4032	0.235	0.0025	0.0033	FFE325160I33	930264360

<b>SMALL BLOCK MOPAR FLAT TOP</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	SBM804070F05	930270070
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	SBM670030F05	930270130
367	4.040						475	11.2	10.6	10.0					SBM670040F05	930270140
371	4.060						483	11.3	10.7	10.1					SBM670060F05	930270160
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	SBM460030F05	930270230
410	4.040						449	12.4	11.7	11.1					SBM460040F05	930270240
416	4.070						461	12.6	11.9	11.2					SBM460070F05	930270270

<b>SMALL BLOCK MOPAR INVERTED</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	SBM460030I16	930271030
410	4.040						479	11.0	10.4	9.9					SBM460040I16	930271040
414	4.060						486	11.0	10.5	10.0					SBM460060I16	930271060
408	4.030					-28cc	468	9.7	9.2	8.9	2618	0.625	0.0046	0.0054	SBM460030I28	930271130
410	4.040						472	9.7	9.3	8.9					SBM460040I28	930271140
416	4.070						485	9.8	9.4	9.0					SBM460070I28	930271170

<b>BIG BLOCK MOPAR (RB) / 426, 440 Flat Top</b>																
1.5, 1.5, 3.0mm File Fit Performance Ring Set included																
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	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	BBM865350F08	
499	4.375						592	12.4	11.4	11.0					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	BBM475350F08	
511	4.375						530	12.7	11.7	11.3					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	BBM412350F08	
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	BBM350350F08	
541	4.375						510	13.3	12.3	11.9					BBM350375F08	

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 Meas.	Guide Min	Guide Max	Assembly Part No.	1,1, 2mm Part No.
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**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	BBM120375F08
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Compression Heights with "R" INCLUDE Oil Support Rails

**HEMI 5.7L Stroker**

1.5, 1.5, 3.0mm File Fit Performance Ring Set included **85cc**

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

Compression Heights with "R" INCLUDE Oil Support Rails

**HEMI 6.1L Stroker**

1.5, 1.5, 3.0mm 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	HMI095065I12 930277565
424	4.080						420	10.1							HMI095080I12 930277580
426	4.090						424	10.2							HMI095090I12 930277590

Compression Heights with "R" INCLUDE Oil Support Rails

**HEMI 6.1L also works with the 6.4L CYLINDER HEAD**

1.5, 1.5, 3.0mm Drop In 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	HMI220055F01* 930277655
371	4.060						428	10.1							HMI220060F01* 930277660
371	4.060						440	10.0			2618	0.250	0.0046	0.0054	930277760* 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, NO RINGS (USES OE RINGS) **74cc**

370	4.055	3.580	6.242	1.220	0.984	-1cc	426	10.0			4032	0.250	0.0025	0.0033	930111655* 930111655*
370							439	10.0			2618	0.250	0.0046	0.0054	930277755* 930277755*

\*Hard Anodized Top Ring Groove For Extreme Duty Applications

**HEMI 6.4L**

1.2, 1.2, 2.0mm Performance Ring Set included **74cc**

391	4.090	3.724	6.200	1.210	0.945	4cc	443	10.5			4032	0.250	0.0025	0.0033	HMI210090D04* 930279090
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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	1.260R	0.990	-22cc	489	10.7	10.1	9.7	4032	0.235	0.0025	0.0033	BBO260155I22
495	4.185						501	10.8	10.1	9.8					BBO260185I22

Compression Heights with "R" INCLUDE Oil Support Rails

**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	BBP285155F06
468	4.185						518	12.0	11.1	10.7					BBP285185F06
488	4.155	4.500	6.800	1.160R	0.990	-6cc	480	12.5	11.5	11.1	4032	0.250	0.0025	0.0033	BBP160155F06
495	4.185						492	12.6	11.6	11.2					BBP160185F06

Compression Heights with "R" INCLUDE Oil Support Rails

**BIG BLOCK PONTIAC DISH / 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	-22CC	502	10.2	9.5	9.2	4032	0.250	0.0025	0.0033	BBP285155I22
468	4.185						514	10.3	9.6	9.3					BBP285185I22

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght G	Compression Ratio	Alloy	Clearance Guide			Assembly 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	275	9.0	4032	0.236	0.0016	0.0024	ACR181189I08
81.50mm						282	9.0					ACR181209I08
81.50mm					-1cc	279	10.5	4032	0.236	0.0016	0.0024	ACR181209F01
81.00mm					9cc	294	12.5	4032	0.236	0.0016	0.0024	ACR181189D09
81.25mm						297	12.5					ACR181199D09
81.50mm						300	12.5					ACR181209D09

**ACURA RSX K20 2.0L**

1.2, 1.2, 2.8mm Performance Ring Set Included

**51cc**

86.00mm	86mm	139mm	30mm	22mm	-9cc	326	8.9	4032	0.236	0.0016	0.0024	ACR181386I09
86.50mm						328	9.0					ACR181405I09
87.00mm						330	9.2					ACR181425I09
86.00mm					12cc	325	12.7	4032	0.236	0.0016	0.0024	ACR181386D12
86.50mm						327	12.9					ACR181405D12
87.00mm						329	13.1					ACR181425D12

**ACURA K24 2.4L**

1.2, 1.2, 2.8mm Performance Ring Set Included

**54cc**

87.00mm	99mm	152mm	30mm	22mm	-19cc	293	8.8	4032	0.236	0.0016	0.0024	ACR181425I19
87.25mm						294	8.9					ACR181435I19
88.00mm						298	9.1					ACR181465I19
87.00mm					4cc	280	12.3	4032	0.236	0.0016	0.0024	ACR181425D04
87.25mm						282	12.3					ACR181435D04

**FORD FOCUS ST EcoBoost 2.0L**

1.2, 1.2, 2.8mm Performance Ring Set Included

**43cc**

87.50mm	83mm	156mm	32.78mm	22.5m	-7cc	351	9.3	4032	0.260	0.0016	0.0024	0197713945**
87.50mm					-2cc	344	10.0	4032	0.260	0.0016	0.0024	0197714245**
87.50mm					3cc	370	11.0	2618	0.260	0.0021	0.0029	0197714045*

**\*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	279	9.3	4032	0.236	0.0016	0.0024	ACR181209F01
81.00mm					9cc	294	11.4	4032	0.236	0.0016	0.0024	ACR181189D09
81.25mm						297	11.5					ACR181199D09
81.50mm						300	11.6					ACR181209D09

**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	328	9.0	4032	0.236	0.0016	0.0024	H22220425I07
87.25mm						331	9.0					H22220435I07
87.00mm					-1cc	319	10.0	4032	0.236	0.0016	0.0024	H22220425F01
87.00mm					10cc	342	11.5	4032	0.236	0.0016	0.0024	H22220425D10
87.25mm						348	11.5					H22220435D10

**HONDA H22 2.2L FOR SLEEVED H22 ENGINES ONLY**

1.2, 1.2, 2.8mm Performance Ring Set Included

**54cc**

88.00mm	90.0mm	143mm	31mm	22mm	-7cc	329	9.2	2618	0.236	0.0025	0.0033	HON220464P07*
89.00mm						331	9.4					HON220503P07*
88.00mm					10cc	320	12.0	2618	0.236	0.0025	0.0033	HON220464X10*
89.00mm						322	12.3					HON220503X10*

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

Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt. "Min" and "Max" is the suggested range of clearance over the coating for each application.



Bore	Stroke	Rod	Comp		Pin	Crown	Wght	Compression Ratio	Alloy	Clearance Guide			Assembly
			Height	Diam.						Meas.	Min	Max	
<b>HONDA S2000 F20C 2.0L GOLD SERIES - FOR USE IN FACTORY FRM (FIBER REINFORCED MATRIX) CYLINDERS ONLY</b>													
<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
								<b>54cc</b>					
87.00mm	84mm	153mm	30mm	23mm	6cc	320	11.7	4032	0.374	0.0006	0.0014	S2K181425X06**	
87.00mm							12.6		0.374				0.0006
<b>87.00mm</b>							<b>9.5</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181425P07*</b>	
<b>87.00mm</b>							<b>8.9</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181425P11*</b>	
87.10mm					6cc	320	11.7	4032	0.374	0.0006	0.0014	S2K181429X06**	
87.10mm					9cc	330	12.5	4032	0.374	0.0006	0.0014	S2K181429X09**	
<b>87.10mm</b>							<b>9.5</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181429P07*</b>	
<b>87.10mm</b>							<b>8.9</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181429P11*</b>	
87.25mm					6cc	322	11.7	4032	0.374	0.0006	0.0014	S2K181435X06**	
87.25mm					9cc	332	12.5	4032	0.374	0.0006	0.0014	S2K181435X09**	
<b>87.25mm</b>							<b>9.5</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181435P07*</b>	
<b>87.25mm</b>							<b>8.9</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181435P11*</b>	

\*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**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>															
								<b>54cc</b>							
87.00mm	90.7mm	149.65mm	30mm	23mm	6cc	320	12.5	4032	0.374	0.0006	0.0014	S2K181425X06**			
87.10mm							11.7		0.374				0.0006	0.0014	S2K181429X06**
87.25mm							12.6		0.374				0.0006	0.0014	S2K181435X06**
87.00mm					9cc	330	13.4	4032	0.374	0.0006	0.0014	S2K181425X09**			
87.10mm						330	12.5	4032	0.374	0.0006	0.0014	S2K181429X09**			
87.25mm						332	13.5	4032	0.374	0.0006	0.0014	S2K181435X09**			
<b>87.00mm</b>						<b>301</b>	<b>10.2</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181425P07*</b>			
<b>87.10mm</b>						<b>301</b>	<b>9.5</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181429P07*</b>			
<b>87.25mm</b>						<b>304</b>	<b>10.2</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181435P07*</b>			
<b>87.00mm</b>						<b>299</b>	<b>9.5</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181425P11*</b>			
<b>87.10mm</b>						<b>299</b>	<b>8.9</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181429P11*</b>			
<b>87.25mm</b>						<b>302</b>	<b>9.6</b>	<b>2618</b>	<b>0.374</b>	<b>0.0016</b>	<b>0.0024</b>	<b>S2K181435P11*</b>			

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

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

**HYUNDAI THETA L-4 TURBO 2.0L**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
								<b>59.5cc</b>					
86.00mm	86.00mm	146mm	30mm	22mm	-11cc	295	8.5	2618	0.260	0.0025	0.0033	HYU181385111	

**HYUNDAI LAMBDA V-6 TURBO 3.8L**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
								<b>67cc</b>					
96.00mm	87.00mm	149.5mm	31.47mm	22mm	-23cc	390	9.0	4032	0.236	0.0016	0.0024	HYU239780123	

**MAHLE MITSUBISHI 4G63 2.0L 88-92 ECLIPSE**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
								<b>47cc</b>					
85.50mm	88.0mm	150mm	34.7mm	21mm	-10cc	303	9.0	4032	0.315	0.0016	0.0024	MIT367366110	
86.00mm							9.2					MIT367385110	

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

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
								<b>47cc</b>					
85.50mm	100.0mm	150mm	28.7mm	22mm	-19cc	275	9.0	4032	0.236	0.0016	0.0024	EVO130366119	
86.00mm							9.0					EVO130385119	
<b>85.50mm</b>						<b>281</b>	<b>9.0</b>	<b>2618</b>	<b>0.236</b>	<b>0.0025</b>	<b>0.0033</b>	<b>EVO130366P19</b>	
<b>86.00mm</b>						<b>286</b>	<b>9.0</b>					<b>EVO130385P19</b>	
<b>85.50mm</b>	94.00mm	150mm	31.7mm	22mm	-14cc	307	<b>9.0</b>	2618	0.236	0.0025	0.0033	<b>EVO248366P14</b>	
<b>86.00mm</b>							<b>9.0</b>					<b>EVO248385P14</b>	
85.00mm	88.0mm	150mm	34.7mm	22mm	-10cc	306	9.0	4032	0.315	0.0016	0.0024	EVO367346110	
85.50mm							9.0					EVO367366110	
86.00mm							9.0					EVO367385110	
<b>85.50mm</b>							<b>10cc</b>					<b>315</b>	<b>9.0</b>
<b>86.00mm</b>					<b>319</b>	<b>9.0</b>					<b>EVO367385P10*</b>		

\*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.	
									Meas.	Min	Max		
<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
							<b>55.5cc</b>						
86.00mm	86.0mm	143.75mm	33.37mm	23mm	-4.5cc	333	9.0	2618	0.510	0.0025	0.0033	EVO314385P05*	
86.50mm						339	9.1					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.

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
							<b>46.5cc</b>						
86.50mm	86.0mm	136mm	31.8mm	22mm	-11.5cc	325	8.5	4032	0.236	0.0016	0.0024	NIS253405I12	
87.00mm						326	8.5					NIS253425I12	

**NISSAN KA24 DET 2.4L**

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

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
							<b>46cc</b>						
90.00mm	96.0mm	165.0mm	34mm	21mm	-24cc	360	9.0	2618	0.420	0.0025	0.0033	NIS338543I24	

**NISSAN RB25DET (SKYLINE) 2.5L**

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

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>												
86.50mm	71.7mm	121.5mm	31.3mm	21mm	11.5cc	344	8.5	4032	0.236	0.0016	0.0024	NIS232405D12
87.00mm						345	8.5					NIS232425D12

**NISSAN RB26DET (SKYLINE) 2.6L**

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

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>												
86.50mm	73.7mm	121.5mm	30.25mm	21mm	16cc	320	8.5	2618	0.236	0.0031	0.0039	NIS191405P16*
87.00mm						321	8.5					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.

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>												
86.50mm	85.0mm	152.5mm	32.1mm	21mm	-4.5cc	312	8.5	4032	0.236	0.0016	0.0024	NIS264405I05
87.00mm						313	8.5					NIS264425I05
86.50mm						325	8.5	2618	0.236	0.0031	0.0039	NIS264405P05*
87.00mm						327	8.5					NIS264425P05*

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

**NISSAN VQ35DET (350z, INFINITI G35) 3.5L**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
							<b>56cc</b>						
95.50mm	81.4mm	144.1mm	29.6mm	22mm	-5cc	365	8.5	4032	0.236	0.0016	0.0024	NIS165760I05	
96.00mm						369	8.6					NIS165780I05	

**NISSAN GT-R VR38 DETT 3.8L**

<b>1.2, 1.2, 2.8mm Performance Ring Set Included</b>													
							<b>64cc</b>						
95.51mm	88.4mm	165.1mm	34.25mm	23mm	-4cc	429	9.0	2618	0.250	0.0031	0.0039	NIS348760P04*	

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

**SUBARU 2.0L EJ20/207**

<b>1.2, 1.2, 2.5mm Performance Ring Set Included</b>													
							<b>49cc</b>						
92.00mm	75.0mm	130mm	32.7mm	23mm	-12cc	340	8.0	4032	0.236	0.0016	0.0024	SUB287622I12	
92.50mm						348	8.0					SUB287642I12	
93.00mm						353	8.0					SUB287661I12	
92.50mm					-12cc	354	8.0	2618	0.236	0.0031	0.0039	SUB287642P12*	
93.00mm						357	8.0					SUB287661P12*	

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

Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wgt G	Compression Ratio	Alloy	Clearance Meas.	Guide Min	Max	Assembly Part No.
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### SUBARU 2.2L STROKER

1.2, 1.2, 2.5mm Performance Ring Set Included

49cc

92.50mm	79.0mm	130.4mm	30.3mm	23mm	-16cc	333	8.0	4032	0.236	0.0016	0.0024	SUB193642I16
93.00mm						336	8.1					SUB193661I16
92.50mm					-16cc	340	8.0	2618	0.236	0.0031	0.0039	SUB193642P16*

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

### SUBARU WRX 2.5L STI, FORESTER, LEGACY

1.2, 1.5, 2.8mm Performance Ring Set Included

56cc

99.50mm	79.0mm	130.4mm	30.7mm	23mm	-22cc	385	8.5	4032	0.236	0.0016	0.0024	WRX209917I22
99.75mm						390	8.5					WRX209927I22
100.0mm						395	8.6					WRX209937I22
99.50mm					-22cc	400	8.5	2618	0.236	0.0031	0.0039	WRX209917P22*
99.75mm						405	8.5					WRX209927P22*
100.0mm						410	8.6					WRX209937P22*
99.50mm					-10cc	399	9.0	4032	0.236	0.0016	0.0024	WRX209917I10
99.75mm						401	9.0					WRX209927I10
100.0mm						405	9.0					WRX209937I10

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

### SUBARU WRX 2.5L STI, BOXED STRUT CONSTRUCTION

1.2, 1.5, 2.8mm Performance Ring Set Included

56cc

99.50mm	79.0mm	stock	30.7mm	23mm	-10cc	404	9.0	2618	0.252	0.0031	0.0039	930000917*
99.75mm						408	9.0					930000927*
100.0mm						413	9.0					930000937*

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

### TOYOTA 2ZZ-FE (CELICA GT-S) 1.8L

1.0, 1.2, 2.8mm Performance Ring Set Included

38cc

82.00mm	85.0mm	137.9mm	31.2mm	20mm	-12cc	299	9.0	4032	0.252	0.0021	0.0029	2ZZ228228I12
82.00mm					4.3cc	317	12.3	4032	0.252	0.0021	0.0029	2ZZ228228D04

### TOYOTA 3SGTE 2.0L 90-95 MR2 TURBO

1.2, 1.2, 2.8mm Performance Ring Set Included

51cc

86.50mm	86.0mm	138mm	35.0mm	22mm	-4cc	323	9.0	4032	0.236	0.0016	0.0024	TOY378405I04
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### TOYOTA 2JZ-GTE (SUPRA) 3.0L

1.2, 1.2, 2.0mm Performance Ring Set Included

46cc

86.50mm	86.0mm	142.0mm	34.0mm	22mm	-14cc	319	8.5	2618	0.236	0.0031	0.0039	TOY338405P14*
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\*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

65cc

243	3.633	3.910	6.057	1.216	0.866	-14cc	337	8.7	4032	0.354	0.0025	0.0033	XR6216633I14
307	3.637						338	8.8					XR6216637I14
319	3.652						343	8.8					XR6216652I14
243	3.633					-14cc	344	8.7	2618	0.354	0.0031	0.0039	XR6216633P14*
307	3.637						345	8.8					XR6216637P14*
319	3.652						350	8.8					XR6216652P14*

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

Meas. = The location to measure piston-to-wall clearance, referenced from the bottom of the piston skirt. "Min" and "Max" is the suggested range of clearance over the coating for each application.

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

**EUROSPORT**

**BMW MINI COOPER TRITEC Non-Supercharged 2001-2006 1.6L**

1.0, 1.2, 2.8mm Performance Ring Set Included							<b>Stock</b>					
77.50mm	85.8mm	Stock Rod	24.9mm	19mm	0cc	240	8.3	M142	0.350	0.0010	0.0018	MCT980051F00

**BMW MINI COOPER S TRITEC 2001-2006 1.6L**

1.0, 1.2, 2.8mm Performance Ring Set Included							<b>Stock</b>					
77.50mm	85.8mm	138.5mm	28.5mm	21mm	-4cc	253	9.3	M142	0.350	0.0010	0.0018	MCT122051I04

**BMW MINI COOPER S PRINCE 2007- Current 1.6L**

1.0, 1.2, 2.8mm Performance Ring Set Included							<b>Stock</b>					
77.50mm	85.8mm	138.2mm	28.5mm	20mm	1cc	267	10.3	M142	0.385	0.0010	0.0018	MCP122051D01

**BMW S52 B32 3.2L E36 M3**

1.2, 1.2, 2.8mm Performance Ring Set Included							<b>33cc</b>					
86.60mm	89.6mm	135mm	31mm	22mm	-25cc	304	9.0	2618	0.394	0.0020	0.0028	S52220409P25*
86.60mm					-11cc	326	11.3	4032	0.394	0.0010	0.0018	S52220409P11**
86.60mm					-5cc	342	12.5	4032	0.394	0.0010	0.0018	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							<b>33cc</b>					
87.50mm	91.0mm	139mm	32.3mm	21mm	-29cc	324	9.0	2618	0.252	0.0028	0.0036	S54271445P29*
87.50mm					9cc	347	12.3	2618	0.252	0.0028	0.0036	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							<b>54cc</b>					
100.5mm	78.9mm	150mm	40.8mm	24mm	-21cc	472	8.5	2618	0.400	0.0046	0.0054	POR606956P21*
101.00mm						477	8.6					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							<b>56cc</b>					
104.5mm	87.8mm	150mm	36mm	24mm	-32cc	495	8.5	2618	0.400	0.0046	0.0054	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							<b>42cc</b>					
81.00mm	86.4mm	144mm	32.7mm	20mm	-12cc	290	8.5	4032	0.394	0.0010	0.0018	AUD287189I12
81.50mm						292	8.5					AUD287209I12

**VOLKSWAGEN/AUDI S4 6-cyl. 5V Turbo**

1.0, 1.2, 2.8mm Performance Ring Set Included							<b>42cc</b>					
81.50mm	86.4mm	154mm	30.7mm	21mm	-7cc	297	9.0	4032	0.394	0.0010	0.0018	AUD209209I07

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.

Bore	Stroke	Rod	Comp		Pin	Crown	Wght	Compression Ratio	Alloy	Clearance Guide			Assembly Part No.	
			Height	Diam.						Meas.	Min	Max		
<b>VOLKSWAGEN/AUDI LATE (2000+) 1.8L TURBO</b>														
1.0, 1.2, 2.8mm Performance Ring Set Included								<b>42cc</b>						
81.50mm	86.4mm	144mm	32.7mm	19mm	-12cc	294	8.5	4032	0.394	0.0010	0.0018	TTA287209I12		

**VOLKSWAGEN TFSi 2.0L**

1.2, 1.2, 2.8mm Performance Ring Set Included								<b>45cc</b>						
83.00mm	92.8mm	144mm	29.6mm	20mm	-8cc	305	9.0	2618	0.252	0.0010	0.0018	FSI165268P08*		
83.50mm						309	9.0	2618	0.252	0.0010	0.0018	FSI165287P08*		

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

**VOLKSWAGEN TSi 2.0L**

1.2, 1.5, 2.0mm Performance Ring Set Included								<b>65cc</b>						
82.50 mm	92.8 mm	144 mm	29.6mm	21mm	-7cc	317	9.5	M142	0.275	0.0020	0.0028	TSI165248P07		
83.00 mm							9.6					TSI165268P07		

**VOLKSWAGEN VR6 3.2L 4V**

1.2, 1.2, 2.8mm Performance Ring Set Included								<b>39cc</b>						
84.50mm	95.9mm	164mm	34.7mm	20mm	-23cc	352	9.0	2618	0.177	0.0025	0.0033	VR6354326I23		

**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.

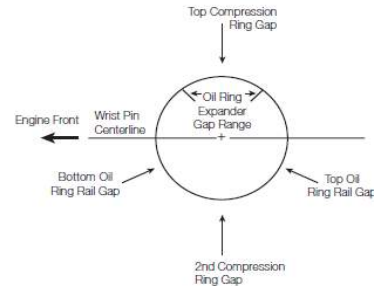
Application	Top Ring	Second Ring	Oil Ring Rail
High Performance Street - NA	Bore x 0.0045"	Bore x 0.0040"	Min 0.015"
Circle Track, Drag Racing - NA	Bore x 0.0050"	Bore x 0.0060"	Min 0.015"
Nitrous up to 200HP (25HP/cyl)	Bore x 0.0060"	Bore x 0.0050"	Min 0.015"
Nitrous over 200HP (25HP/cyl)	Bore x 0.0070"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

Finish Bore	Description	Assembly Part Number
<b>1.5mm, 1.5mm, 3.0mm +.005" File Fit Rings</b>		
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
<b>1.5mm, 1.5mm, 3.0mm STD Tension Drop In Rings</b>		
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
<b>1.0mm, 1.0mm, 2.0mm +.005 File Fit Rings</b>		
3.551"	1.0, 1.0, 2.0mm File Fit	3556MS-112
3.571"	1.0, 1.0, 2.0mm File Fit	3576MS-112
3.581"	1.0, 1.0, 2.0mm File Fit	3586MS-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(4cyl)	3815MS-112
3.820"	1.0,1.0, 2.0mm File Fit(4cyl)	3825MS-112
3.830"	1.0,1.0, 2.0mm File Fit(4cyl)	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
4.030"	1.0, 1.0, 2.0mm File Fit	4035MS-112
4.040"	1.0, 1.0, 2.0mm File Fit	4045MS-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
4.080"	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
4.185"	1.0, 1.0, 2.0mm File Fit	4190MS-112
4.250"	1.0, 1.0, 2.0mm File Fit	4255MS-112
<b>1.0mm, 1.0mm, 2.0mm STD Tension Drop In Rings</b>		
3.551"	1.0, 1.0, 2.0mm Drop-In	3551MS-112D
3.927"	1.0, 1.0, 2.0mm Drop-In	3927MS-112D
3.937"	1.0, 1.0, 2.0mm Drop-In	3937MS-112D
3.947"	1.0, 1.0, 2.0mm Drop-In	3947MS-112D
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
<b>1/16", 1/16", 3/16" +.005" Standard Tension File Fit Rings</b>		
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
<b>1/16", 1/16", 3/16" Standard Tension Drop In Rings</b>		
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
<b>1/16", 1/16", 3/16" +.005" Low Tension File Fit Rings</b>		
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
<b>.043", .043", 3.0mm Low Tension File Fit Rings</b>		
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

Finish Bore	Description	Assembly Part Number
<b>.043", .043", 3.0mm +.005" Low Tension File Fit Rings Cont..</b>		
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
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
<b>1.1mm, 1.5mm, 3.0mm +.005" STD Tension File Fit Rings</b>		
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
<b>Sport Compact Rings</b>		
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
92.76 mm	1.2, 1.2, 2.5mm Drop In	9276MS6-12
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 Drop In	9950MS-12
99.75 mm	1.2, 1.5, 2.8mm Drop In	9975MS-12
100.00 mm	1.2, 1.5, 2.8mm Drop In	10000MS-12

Finish Bore	Description	Assembly Part Number
<b>1.5mm Gas Nitrided Steel Top Ring Sets (8cyl)</b>		
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
<b>3.0mm Oil Ring Standard Tension Rails (8cyl)</b>		
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
<b>3.0mm Oil Ring Standard Tension Expanders (8cyl)</b>		
4.000"	3.0mm STD Tension Expanders (8pcs)	4000-300S
4.030"	3.0mm STD Tension Expanders (8pcs)	4020-300S
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
4.080"	3.0mm STD Tension Expanders (8pcs)	4080-300S
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
<b>Lock'N Tool</b>		
Clip insertion tool for .927" clip		W-927
Clip insertion tool for .990" clip		W-990
<b>Oil Ring Support Rails</b>		
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
3.810-3.840 3mm Support Rail		9302399
3.898-(LS1) 3mm Support Rail		9301680
4.000-4.040 3mm Support Rail		9290024
4.040-4.080 3mm Support Rail		9298684
4.125-4.185 3mm Support Rail		9290032
4.250-4.290 3mm Support Rail		9299227
4.310-4.350 3mm Support Rail		9299226
4.500-4.560 3mm Support Rail		9299228
4.600-4.630 3mm Support Rail		9299225
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

**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

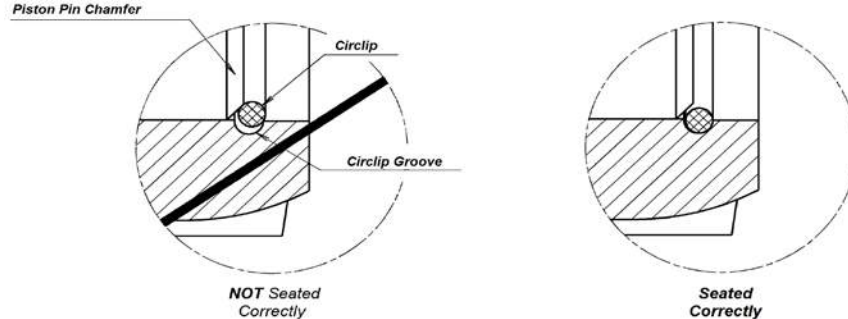
### Important Notice

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

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



### Oil Support Rails

Due to the interrupted oil ring groove, these pistons require an Oil Support Rail to support the oil control ring.

1. Start by installing the oil support rail with the dimple facing down towards the pin bore.

2. Rotate as needed to align the dimple with the pin bore.

**Note:** The dimple will keep the rail from rotating.

3. Finally, on top of the oil support rail install the 3 piece oil ring assembly as normal.

Install 1 rail per piston

Part Number Reference Table



Current Part Number	1,1,2mm Part Number	Current Part Number	1,1,2mm Part Number	Current Part Number	1,1,2mm Part Number
<b>SBC FLAT TOP</b>		<b>SBC 2bbi LIGHT WEIGHT</b>		<b>SBC INVERTED DOME (cont.)</b>	
SBC550000F05	930200000	SBC550030F02	930206530	SBC125040I26	930211040
SBC550030F05	930200030	SBC550040F02	930206540	SBC125125I26	930211125
SBC550040F05	930200040	SBC550060F02	930206560	SBC125155I26	930211155
SBC550060F05	930200060	SBC250030F02	930206630	SBC062030I18	930211230
SBC425000F05	930200100	SBC250040F02	930206640	SBC062040I18	930211240
SBC425030F05	930200130	SBC250060F02	930206660	SBC062125I22	930211325
SBC425040F05	930200140	SBC125030F02	930206730	SBC062155I22	930211355
SBC425060F05	930200160	SBC125040F02	930206740	SBC062165I22	930211365
SBC425125F05	930200225	SBC125060F02	930206760	SBC000125I20	930211425
SBC425155F05	930200255			SBC000155I20	930211455
SBC425165F05	930200265			SBC000165I20	930211465
SBC250000F05	930200300	<b>SBC DOME</b>			
SBC250030F05	930200330	SBC550030D11	930207530	<b>LS1/2/6 FLAT TOP &amp; DOME</b>	
SBC250040F05	930200340	SBC550040D11	930207540	LS1340898F04	930217698
SBC250060F05	930200360	SBC550060D11	930207560	LS1340905F04	930217605
SBC250125F05	930200425	SBC425030D11	930207730	LS1340908F04	930217608
SBC250155F05	930200455	SBC425125D04	930207825	LS1340000F04	930217700
SBC250165F05	930200465	SBC425155D04	930207855	LS1340005F04	930217705
SBC188125F05	930200525	SBC425165D04	930207865	LS1340010F04	930217710
SBC125000F05	930200600	SBC250030D11	930207930	LS1340030F04	930217730
SBC125030F05	930200630	SBC250040D11	930207940	LS1330800F04	930217800
SBC125040F05	930200640	SBC250060D11	930207960	LS1314898F04	930217998
SBC125060F05	930200660	SBC250155D11	930208055	LS1314905F04	930217905
SBC125125F05	930200725	SBC125030D11	930208130	LS1314908F04	930217908
SBC125155F05	930200755	SBC125040D11	930208140	LS1314908F04	930217908
SBC125165F05	930200765	SBC125060D11	930208160	LS1314000F04	930218000
SBC062030F05	930200830	SBC125125D11	930208225	LS1314005F04	930218005
SBC062040F05	930200840	SBC125155D11	930208255	LS1314010F04	930218010
SBC062125F05	930200925	SBC125165D11	930208265	LS1314030F04	930218030
SBC062155F05	930200955	SBC125030D06	930208330	LS1105005F04	930218105
SBC062165F05	930200965	SBC125040D06	930208340	LS1105030F04	930218130
SBC000030F05	930201030	SBC125060D06	930208360	LS1105800D00	930218200
SBC000040F05	930201040	SBC125125D04	930208425	<b>LS1/2/6 INVERTED DOME</b>	
SBC000060F05	930201060	SBC125155D04	930208455	LS1314905I16	930219005
SBC000125F05	930201125	SBC125165D04	930208465	LS1314908I16	930219008
SBC000155F05	930201155	SBC062030D11	930208530	LS1314908I16	930219008
SBC000165F05	930201165	SBC062040D11	930208540	LS1105905I06	930219205
SBC000185F07	930201285	SBC062060D11	930208560	LS1105908I06	930219208
<b>SBC WISSOTA</b>		SBC062125D04	930208625	LS1105005I12	930219305
SBC550030T04	930202530	SBC062155D04	930208655	LS1105010I12	930219310
SBC550040T04	930202540	SBC062165D04	930208665	LS1105030I12	930219330
SBC550050T04	930202550	SBC000155D08	930208665	LS1105905I26	930219405
SBC550060T04	930202560	SBC000125D04	930208755	LS1105005I28	930219505
SBC250030T04	930202630	SBC000155D04	930208825	LS1105030I28	930219530
SBC250040T04	930202640	SBC000165D04	930208855	<b>LS7 FLAT TOP &amp; INVERTED</b>	
SBC250050T04	930202650	SBC000165D04	930208865	LS7181125F03	930221525
SBC250060T04	930202660	<b>SBC INVERTED DOME</b>		LS7181130F03	930221530
SBC125030T04	930202830	SBC550030I20	930210130	LS7105125F03	930221625
SBC125040T04	930202840	SBC550040I20	930210140	LS7105130F03	930221630
SBC125060T04	930202860	SBC425030I16	930210230	LS7105135F03	930221635
<b>SBC 4V FLAT TOP</b>		SBC425040I16	930210240	LS7105125P25	930221825
SBC550030F4V	930203630	SBC425060I16	930210260	LS7105130P25	930221830
SBC550040F4V	930203640	SBC425155I20	930210355	<b>LS3 / L92 FLAT TOP</b>	
SBC550060F4V	930203660	SBC425165I20	930210365	L92340065F04	930223065
SBC250030F4V	930203730	SBC425030I26	930210430	L92340070F04	930223070
<b>SBC 305ci FLAT TOP</b>		SBC425040I26	930210440	L92340075F04	930223075
SBC550766F03	930204566	SBC250030I31	930210530	L92314030F04	930223130
SBC550776F03	930204576	SBC250030I20	930210630	L92314065F04	930223165
SBC550786F03	930204586	SBC250040I20	930210640	L92314070F04	930223170
SBC550796F03	930204596	SBC250030I26	930210730	L92314075F04	930223175
SBC550766T01	930205566	SBC125030I16	930210830	L92105005F04	930223205
SBC550776T01	930205576	SBC125040I16	930210840	L92105030F04	930223230
SBC550786T01	930205586	SBC125060I16	930210860	L92105065F04	930223265
SBC550796T01	930205596	SBC125125I16	930210925	L92105070F04	930223270
		SBC125155I16	930210955	L92105075F04	930223275
		SBC125165I16	930210965	L92045070T08	930223470
		SBC125030I26	930211030		



Part Number Reference Table



Current Part Number	1,1,2mm Part Number	Current Part Number	1,1,2mm Part Number	Current Part Number	1,1,2mm Part Number
<b>LS3 / L92 INVERTED DOME</b>		<b>TWISTED WEDGE FLAT TOP</b>		<b>FORD FLATHEAD - 3/16" STANDARD DOME</b>	
L92314010I12	930224510	TWF245030F06	930250030	FFH438312D13	930260012
L92314070I12	930224570	TWF245040F06	930250040	FFH438342D13	930260042
L92105010I20	930224610	TWF165030F06	930250130	FFH438375D13	930260075
L92105030I20	930224630	TWF165040F06	930250140	FFH375312D13	930260112
L92105070I25	930224770	TWF165125F06	930250225	FFH375342D13	930260142
L92105075I25	930224775	TWF090030F06	930250330	FFH375375D13	930260175
L92105125I25	930224825	TWF090040F06	930250340	FFH313312D13	930260212
L92105065P25	930224965	TWF090125F06	930250425	FFH313342D13	930260242
L92105070P25	930224970			FFH313375D13	930260275
L92105125P25	930225025	<b>TWISTED WEDGE DISH</b>		<b>2.3L FORD 4 CYLINDER PINTO</b>	
L92055070I30	930225170	TWF165030I16	930251030	PIN090810F01	930261010
L92055065I08	930225265	TWF165040I16	930251040	PIN090820F01	930261020
L92055070I08	930225270	TWF090030I16	930251130		
L92055075I08	930225275	TWF090040I16	930251140	<b>FORD FE FLAT TOP &amp; INVERTED</b>	
L92045070P3	930225370	TWF090125I18	930251225	FFE665080F07	930264080
				FFE390080I26	930264180
<b>LSX COMBO FLAT TOP</b>		<b>SMALL BLOCK FORD CLEVELAND</b>		FFE390080F07	930264280
LSX045125F08	930226525	FCL450030F03	930252030	FFE325160I33	930264360
LSX045130F08	930226530	FCL275030F03	930252130	FFE325080I20	930264480
		FCL275040F03	930252140	FFE325250I20	930264550
<b>SBF FLAT TOP</b>		FCL275125F03	930252225	FFE325080F07	930264680
SBF775030F06	930244030	FCL275125I20	930252325	FFE325160F07	930264760
SBF600030F06	930244130	FCL200030I20	930252430		
SBF600040F06	930244140	FCL200125I24	930252525	<b>SMALL BLOCK MOPAR FLAT TOP</b>	
SBF600030F06	930244130	FCL200030F03	930252630	SBM804070F05	930270070
SBF600040F06	930244140	FCL200125F03	930252725	SBM670030F05	930270130
SBF350030F06	930244230			SBM670040F05	930270140
SBF245030F06	930244330	<b>SMALL BLOCK FORD KASSE P-38®</b>		SBM670060F05	930270160
SBF245040F06	930244340	K38090030I06	930254030	SBM460030F05	930270230
SBF245060F06	930244360	K38090030I20	930254130	SBM460040F05	930270240
SBF245125F06	930244425	K38090125I10	930254225	SBM460070F05	930270270
SBF245155F06	930244455	K38090125I24	930254325		
SBF165000F06	930244500	K38165030I06	930254430	<b>SMALL BLOCK MOPAR INVERTED</b>	
SBF165030F06	930244530	K38165030I16	930254625	SBM460030I16	930271030
SBF165040F06	930244540	K38165125I06	930254730	SBM460040I16	930271040
SBF165125F06	930244625	K38165125I20	930254925	SBM460060I16	930271060
SBF165155F06	930244655	K38245030I20	930255030	SBM460030I28	930271130
SBF090000F06	930244700	K38245030I33	930255125	SBM460040I28	930271140
SBF090030F06	930244730	K38245125I24	930255230	SBM460070I28	930271170
SBF090035F06	930244735	K38245125I33	930255325		
SBF090040F06	930244740			<b>HEMI 5.7L Stroker</b>	
SBF090060F06	930244760	<b>FORD MOD 4.6 2V or 4V</b>		HMI095927F02	930276227
SBF090125F06	930244825	MOD220551I16	930256051	HMI095937F02	930276237
SBF090155F06	930244855	MOD220571I16	930256071	HMI095947F02	930276247
		MOD220581I16	930256081	HMI095927D06	930276327
<b>SBF DOME</b>		MOD220571P22	930256171	HMI095947D06	930276347
SBF165030D07	930247030	MOD220551F00	930256251		
SBF090030D07	930247130	MOD220571F00	930256271	<b>HEMI 6.1L</b>	
				HMI095065I12	930277565
<b>SBF INVERTED DOME</b>		<b>FORD MOD 5.4 2V or 4V</b>		HMI095080I12	930277580
SBF600030I26	930248130	MOD220551I16	930256051	HMI095090I12	930277590
SBF600040I26	930248140	MOD220571I16	930256071	HMI220055F01	930277655
SBF300030I20	930248230	MOD220581I16	930256081	HMI220060F01	930277660
SBF300040I20	930248240	MOD220571P22	930256171	930111655	930111655
SBF300030I28	930248330	MOD220551F00	930256251	<b>HEMI 6.4L</b>	
SBF245030I26	930248430	MOD220571F00	930256271	HMI210090D04	930279090
SBF245040I26	930248440				
SBF245125I26	930248525	<b>FORD 5.0L MOD 4V "COYOTE"</b>			
SBF245125I26	930248525	M4V167630D03	930258030		
SBF230030I20	930248730	M4V167640D03	930258040		
SBF230040I20	930248740	M4V167630I05	930134030		
SBF165030I16	930248830	M4V167640I05	930134040		
SBF165040I16	930248840	M4V167630X10	930258130		
SBF090030I16	930248930	M4V167640X10	930258140		
SBF090040I16	930248940	M4V167630P13	930258230		
SBF090060I16	930248960	M4V167640P13	930258240		
SBF090125I16	930249025				

