

MAHLE

Motorsport

2018 Diesel Application Guide



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**ULTIMATE
— CALLOUT —
CHALLENGE**

Performance Cast

Designed for street/strip or pulling trucks making 400-1000HP that still get used as a daily driver or work truck. Machined from OE castings (retaining the steel top ring insert), giving the same drivability and longevity of an OE piston with additional strength through industry leading design technology.

Performance Forged

Forged diesel pistons are best suited for dedicated drag and pulling vehicles. Although the performance forged pistons are stronger, the lack of a steel top ring groove in the forging will result in a limited life cycle for street applications. Strength and design flexibility still make the performance forged piston a favorite for competition only applications.

Extreme Duty Monotherm®

Providing unmatched strength and durability, the Monotherm® piston will enable you to step to the next level or tow longer with confidence.

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght g	Compression Ratio	Alloy	Clearance Guide			Assembly
										Meas.	Min	Max	Part Number
CUMMINS 5.9L B-Series Cast Performance Pistons - 12V													
Early 12V and marine-style bowl, short pin design, coated skirt - Ring Set (S42170) Included													
4.015		4.724	7.559	2.817	1.575	-47.1cc	1119	16.5	M124	0.500	0.0055	0.0065	930036315
4.035							1138	16.6					930036335
4.055							1158	16.8					930036355
4.015		4.724	7.559	2.817	1.575	-52.3cc	1105	15.3	M124	0.500	0.0055	0.0065	930036515
4.035							1124	15.5					930036535
4.055							1144	15.6					930036555

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

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

4.015		4.724	7.559	2.817	1.575	-54.1cc	1099	14.9	M124	0.500	0.0055	0.0065	930036415
4.035							1117	15.1					930036435
4.055							1137	15.2					930036455
4.015		4.724	7.559	2.817	1.575	-59.2cc	1085	14.0	M124	0.500	0.0055	0.0065	930036615
4.035							1104	14.1					930036635
4.055							1123	14.3					930036655

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

Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx-6) Included

4.015		4.724	7.559	2.805	1.575	-53.5cc	1191	15.0	M142P	0.500	0.0075	0.0085	197808815
4.035							1209	15.1					197808835
4.055							1229	15.2					197808855
4.015		4.724	7.559	2.805	1.575	-59cc	1183	14.0	M142P	0.500	0.0075	0.0085	197808715
4.035							1202	14.1					197808735
4.055							1221	14.2					197808755

Cubic Inches	Bore	Stroke	Rod	Comp Height	Pin Diam.	Crown Vol	Wght g	Compression Ratio	Alloy	Clearance Guide			Assembly Part Number
										Meas.	Min	Max	
CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 24V w/ 0.100" deep valve pockets													
Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx-6) Included													
4.015		4.724	7.559	2.805	1.575	-46.7cc	1203	16.5	M142P	0.500	0.0075	0.0085	197809915
4.035							1222	16.6					197809935
4.055							1241	16.7					197809955
4.015		4.724	7.559	2.805	1.575	-51cc	1196	15.5	M142P	0.500	0.0075	0.0085	197809815
4.035							1214	15.6					197809835
4.055							1234	15.7					197809855

CUMMINS 5.9L B-Series Forged Aluminum Race Pistons - 12V or 24V (Custom Order)

Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (9300440xx) Included

4.015+	made to order	made to order	made to order	M142P	0.750	0.0075	0.0085	9299430xx
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CUMMINS 5.9L B-Series Forged Steel MONOTHERM - 24V 03-04, 04.5-07 Commonrail (using 04.5-07 Injectors)

CH reduced 0.010", modified version of 03-04, 04.5-07 bowl for reduced CR, 0.075" pockets, DLC coated pin - Ring Set (S42170) Included

4.015	4.724	7.559	2.804	1.575	-48.6cc	1680	15.8		0.750	0.0025	0.0035	929969315
4.035						1707	16.0					929969335
4.055						1735	16.1					929969355

FORD 6.0L Powerstroke Forged Aluminum Race Pistons (Custom Order)

Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S41940) Included

3.740+	made to order	made to order	made to order	M142P	0.500	0.0050	0.0060	9299013xx
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FORD 6.4L Powerstroke Forged Aluminum Race Pistons (Custom Order)

Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S42097) Included

3.866+	made to order	made to order	made to order	M142P	0.500	0.0050	0.0060	9300602xx
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FORD 7.3L Powerstroke Forged Aluminum Race Pistons (Custom Order)

Call for details. Coated skirt and Hard Anodized top ring groove - Ring Set (S41768) Included

4.110+	made to order	made to order	made to order	M142P	0.500	0.0075	0.0085	9299093xx
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GM 6.6L Duramax Cast Performance Pistons

Revised casting with improved crown geometry and Performance bowl design, coated skirt, LB7, LLY, LBZ, LMM - Ring Set (40xxMDK-D) Included

4.055	3.898	6.417	1.951	1.358	-40.7cc	866	16.7	M142	0.500	0.0015	0.0025	930036055
4.075						882	16.8					930036075
4.095						898	17.0					930036095

GM 6.6L Duramax Cast Performance Pistons w/ Valve Pockets (0.075")

Revised casting with improved crown geometry and Performance bowl design, coated skirt, LB7, LLY, LBZ, LMM - Ring Set (40xxMDK-D) Included

4.055	3.898	6.417	1.951	1.358	-41.8cc	863	16.3	M142	0.500	0.0015	0.0025	930029855
4.075						879	16.5					930029875
4.095						894	16.6					930029895

GM 6.6L Duramax Forged Aluminum Race Pistons

Shelf stock version of the Custom Race Piston, Coated skirt and Hard Anodized top ring groove - Ring Set (40xxMDR) Included

4.055	3.898	6.417	1.951	1.358	-41.8cc	775	16.3	M142P	0.500	0.0055	0.0065	930036255
4.075						786	16.5					930036275
4.095						797	16.6					930036295

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.