

# PCM MASTER ENGINE SPECIFICATIONS - 2002-2004

MODEL (Horsepower)	MP 5.0L (275 HP)	MP 5.7L (330 HP)	MP 8.1L (STD) (385 HP)	MP 8.1L (HO) (425 HP)	MP 6.0L (375 HP)
Displacement	5.0L (305 CID)	5.7L (350 CID)	8.1L (496 CID)	8.1L (496 CID)	6.0L (366 CID)
Bore	3.75 in. (95.0 mm)	4.0 in. (101.6 mm)	4.25 in. (107.95 mm)	4.25 in. (107.95 mm)	4.0007 in. (101.618 mm)
Stroke	3.48 in. (88.3 mm)	3.48 in. (88.3 mm)	4.370 in. (111.0 mm)	4.370 in. (111.0 mm)	3.622 in. (92.0 mm)
Compression Ratio	9.4:1	9.4:1	9.1:1	9.1:1	9.4:1
Compression Pressure	130 - 215 psi	130 - 215 psi	130 - 175 psi	130 - 175 psi	130 - 215 psi
WOT Operating RPM Preferred WOT RPM	4600-5000 4800	4800 - 5200 5000	4400 - 4800 4600	4800 - 5200 5000	4800 - 5300 5200
Cruising RPM (Max)	3800	4000	3800	4000	4000
Idle RPM (In Gear)	650 (Not Adjustable)	650 (Not Adjustable)	650 (Not Adjustable)	650 (Not Adjustable)	650 (Not Adjustable)
Oil Pressure @ 2000 RPM	25 - 60 psi (172 - 414 kPa)	25 - 60 psi (172 - 414 kPa)	25 - 60 psi (172 - 414 kPa)	25 - 60 psi (172 - 414 kPa)	25 - 80 psi (172 - 552 kPa)
Minimum Oil Pressure	10 psi (69 kPa) at Idle	10 psi (69 kPa) at Idle	10 psi (69 kPa) at Idle	10 psi (69 kPa) at Idle	10 psi (69 kPa) at Idle
Spark Plug P/N Spark Plug Gap	R030010 0.060 in.	R030010 0.060 in.	R030009 0.060 in.	R030009 0.060 in.	R030011 0.060 in.
Firing Order	1-8-4-3-6-5-7-2 (LH) 1-2-7-5-6-3-4-8 (RH)	1-8-4-3-6-5-7-2 (LH) 1-2-7-5-6-3-4-8 (RH)	1-8-7-2-6-5-4-3 (LH) NA	1-8-7-2-6-5-4-3 (LH) NA	1-8-7-2-6-5-4-3 (LH) NA
Thermostat	RWC 160°F (61.7°C) FWC 170°F (76.7°C)	RWC 160°F (61.7°C) FWC 170°F (76.7°C)	RWC 160°F (61.7°C) FWC 170°F (76.7°C)	RWC 160°F (61.7°C) FWC 170°F (76.7°C)	NA FWC 160°F (61.7°C)
Over- Temperature	193° F (89.8° C)	193° F (89.8° C)	220° F (104.8° C)	208° F (98° C)	220° F (104.8° C)
Electrical System	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground
Alternator Rating	70 Amps	70 / 100 Amps	70 / 100 Amps	70 / 100 Amps	70 Amps
Ignition Timing	Not Adjustable	Not Adjustable	Not Adjustable	Not Adjustable	Not Adjustable
CAM Retard	43-47 degrees	43-47 degrees	Not Adjustable	Not Adjustable	Not Adjustable
Battery Rating	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah

**PCM MASTER FUEL PRESSURE SPECIFICATIONS - 2002-2004**

<b>MODEL (Horsepower)</b>	<b>MP 5.0L (275 HP)</b>	<b>MP 5.7L (330 HP)</b>	<b>MP 8.1L (STD) (385 HP)</b>	<b>MP 8.1L (HO) (425 HP)</b>	<b>MP 6.0L (375 HP)</b>
<b>Fuel Pressure STD. FCC</b>	57-62 psi @ WOT	57-62 psi @ WOT	44-48 psi @ WOT	44-48 psi @ WOT	<b><u>MY '03 Only</u></b> 57-60 psi @ WOT
<b>Fuel Pressure - FCC Returnless to Rail</b>					<b><u>MY '04</u></b> 59-61 psi (WOT)
<b>Fuel Pressure - LPFP ALL ENGINES</b>	4 - 7 psi (WOT)	4 - 7 psi (WOT)	4 - 7 psi (WOT)	4 - 7 psi (WOT)	4 - 7 psi (WOT)

***IMPORTANT: FUEL PRESSURE MEASUREMENT MUST BE MADE WITH THE ENGINE UNDER LOAD.***