

PCM MASTER ENGINE SPECIFICATIONS - 2007

MODEL (Horsepower)	MP 5.0L (275 HP)	MP 5.7L (330 HP)	MP 6.0L (375 HP)
Displacement	5.0L (305 CID)	5.7L (350 CID)	6.0L (364 CID)
Bore	3.75 in. (95.0 mm)	4.0 in. (101.6 mm)	4.0007 in. (101.618 mm)
Stroke	3.48 in. (88.3 mm)	3.48 in. (88.3 mm)	3.622 in. (92.0 mm)
Compression Ratio	9.4:1	9.4:1	9.4:1
Compression Pressure	130 - 215 psi	130 - 215 psi	130 - 215 psi
WOT Operating RPM Preferred WOT RPM	4600-5000 4800	4800 - 5200 5000	4800 - 5300 5200
Cruising RPM (Max)	3800	4000	4000
Idle RPM (In Gear)	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 - 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
Spark Plug P/N Spark Plug Gap	R030010 0.060 in.	R030010 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
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)	NA FWC 160°F (61.7°C)
Over- Temperature	220° F (104.8° C)	220° F (104.8° C)	220° F (104.8° C)
Electrical System	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground	12 Volt Negative (-) Ground
Alternator Rating	100 Amps	100 Amps	100 Amps
Ignition Timing	Not Adjustable	Not Adjustable	Not Adjustable
CAM Retard	0-4 degrees	0-4 degrees	Not Adjustable
Battery Rating	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah	650 CCA (Minimum) 120 Ah

PCM MASTER FUEL PRESSURE SPECIFICATIONS - 2007

MODEL (Horsepower)	MP 5.0L (275 HP)	MP 5.7L (330 HP)	MP 6.0L (375 HP)
Fuel Pressure STD. FCC	57-62 psi @ WOT	57-62 psi @ WOT	
Fuel Pressure - FCC Returnless to Rail			57-62 psi (WOT)
Fuel Pressure - LPFP ALL ENGINES	4 - 7 psi (WOT)	4 - 7 psi (WOT)	4 - 7 psi (WOT)

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

PCM MASTER WARNING/ALARM SPECIFICATIONS - 2007

MODEL (Horsepower)	MP 5.0L (275 HP)	MP 5.7L (330 HP)	MP 6.0L (375 HP)
Coolant Over-Temperature Sensor	220° F (104.8° C) M.I.L. - DTC 116 Check Engine Lamp and/or Buzzer	220° F (104.8° C) M.I.L. - DTC 116 Check Engine Lamp and/or Buzzer	220° F (104.8° C) M.I.L. - DTC 116 Check Engine Lamp and/or Buzzer
Transmission Over-Temperature Switch	235° F ± 10° F M.I.L. - DTC 1542 Check Engine Lamp	235° F ± 10° F M.I.L. - DTC 1542 Check Engine Lamp	235° F ± 10° F M.I.L. - DTC 1542 Check Engine Lamp
Exhaust Over-Temperature Switch	248° F ± 5° F M.I.L. - DTC 2428 Check Engine Lamp and/or Buzzer	248° F ± 5° F M.I.L. - DTC 2428 Check Engine Lamp and/or Buzzer	248° F ± 5° F M.I.L. - DTC 2428 Check Engine Lamp and/or Buzzer
Low Oil Pressure Sensor	< 10 psi M.I.L. - DTC 524 Check Engine Lamp and/or Buzzer	< 10 psi M.I.L. - DTC 524 Check Engine Lamp and/or Buzzer	< 10 psi M.I.L. - DTC 524 Check Engine Lamp and/or Buzzer