

PCM MASTER ENGINE SPECIFICATIONS - 2005

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 (366 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	70 / 100 Amps	100 Amps	70 / 100 Amps
Ignition Timing	Not Adjustable	Not Adjustable	Not Adjustable
CAM Retard	43-47 degrees	43-47 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 - 2005

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	MY '03 Only 57-60 psi @ WOT
Fuel Pressure - FCC Returnless to Rail			MY '04 and newer 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 - 2005

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) Water Temp Lamp Power Reduction	220° F (104.8° C) Water Temp Lamp Power Reduction	220° F (104.8° C) Water Temp Lamp Power Reduction
Transmission Over-Temperature Switch (Optional)	235° F ± 10° F Gen. Warning #1 Trans Temp Lamp Power Reduction	235° F ± 10° F Gen. Warning #1 Trans Temp Lamp Power Reduction	235° F ± 10° F Gen. Warning #1 Trans Temp Lamp Power Reduction
Low Oil Pressure Switch	< 10 psi Gen. Warning #2 Oil Pressure Lamp Power Reduction	< 10 psi Gen. Warning #2 Oil Pressure Lamp Power Reduction	< 10 psi Gen. Warning #2 Oil Pressure Lamp Power Reduction
Exhaust Over-Temperature Switch (Optional)	248° F ± 5° F M.I.L. - DTC 81 Check Engine Lamp	248° F ± 5° F M.I.L. - DTC 81 Check Engine Lamp	248° F ± 5° F M.I.L. - DTC 81 Check Engine Lamp

NOTE: 'Power Reduction' mode limits engine RPM to 2000. Above 2000 RPM the ECM will disable half of the fuel injectors. Reducing engine RPM below 1200 will restore normal engine operation until RPM exceeds 2000. Depending upon Instrument Panel configuration, individual warning lights, Check Engine/Check Gauges indicator, and/or an audible alarm buzzer may light/sound when a malfunction occurs.