

	Concern with engine coolant temperature	<ul style="list-style-type: none"> ● Engine coolant temperature sensor ● Harness fault ● ECM failure 	REFER to Section <u>303-14A Electronic Engine Controls / 303-14B Electronic Engine Controls / 303-14C Electronic Engine Controls.</u>
P0203, P0204, P0205, P0206, P0207, P0208	Concern with fuel injectors	<ul style="list-style-type: none"> ● Faulty injector(s) ● Harness fault ● ECM failure 	REFER to <u>Fuel Injectors / Fuel Charging Wiring Harness</u> in this section.REFER to Section <u>303-14A Electronic Engine Controls / 303-14B Electronic Engine Controls / 303-14C Electronic Engine Controls.</u> GO to Pinpoint Test <u>A.</u>
P0191	Concern with fuel rail pressure sensor	<ul style="list-style-type: none"> ● Fuel rail pressure sensor ● Harness fault ● Fuel filter/system restriction ● Fuel system leak ● Incorrect fuel pump output ● Fuel rail pressure sensor to ECM sensing circuit; high resistance, open circuit, short circuit to high voltage ● Fuel rail pressure sensor to splice in sensor supply circuit; high resistance, open circuit ● Fuel rail pressure sensor to splice in sensor ground circuit; high resistance, open circuit ● Fuel rail pressure sensor to splice in sensor ground circuit; high resistance, open circuit, short circuit to ground, short circuit to high voltage ● Fuel rail pressure sensor failure 	REFER to <u>Fuel Charging Wiring Harness</u> in this section.REFER to Section <u>303-14A Electronic Engine Controls / 303-14B Electronic Engine Controls / 303-14C Electronic Engine Controls.</u> GO to Pinpoint Test <u>B.</u>
P0192	Concern with fuel rail pressure sensor (low voltage/low pressure)	<ul style="list-style-type: none"> ● Fuel rail pressure sensor disconnected ● Fuel rail pressure sensor to ECM sensing circuit; open circuit or short circuit to ground ● Fuel rail pressure sensor to splice in sensor supply circuit; high resistance, open circuit ● Fuel rail pressure sensor failure 	GO to Pinpoint Test <u>B.</u>
P0193	Concern with fuel rail pressure sensor (high voltage/high pressure)	<ul style="list-style-type: none"> ● Fuel rail pressure sensor to ECM wiring (supply/sense) short circuit to each other ● Fuel rail pressure sensor to ECM sense circuit; short circuit to high voltage ● Fuel rail pressure sensor to splice in sensor ground circuit; open circuit ● Fuel rail pressure sensor failure 	GO to Pinpoint Test <u>B.</u>
P0460	Concern with fuel level sensors	<ul style="list-style-type: none"> ● Fuel level sensor to instrument cluster circuit(s); intermittent short circuit, open circuit, high resistance ● Fuel level sensor failure ● Instrument cluster fault 	GO to Pinpoint Test <u>C.</u>
P1236	Concern with fuel pump commands (fuel pump not activated when requested by ECM)	<ul style="list-style-type: none"> ● ECM to REM input wire open circuit, short circuit, high resistance ● REM to fuel pump circuits open circuit ● REM failure 	GO to Pinpoint Test <u>D.</u>
P1229	Concern with throttle motor control circuit	<ul style="list-style-type: none"> ● Throttle motor disconnected ● Throttle motor to ECM drive circuits; short circuit or open circuit ● Throttle motor failure 	GO to Pinpoint Test <u>E.</u> REFER to Section <u>303-14A Electronic Engine Controls / 303-14B Electronic Engine Controls / 303-14C Electronic Engine Controls.</u>
P1224	Concern with throttle control position	<ul style="list-style-type: none"> ● Throttle adaptions not performed after battery disconnect ● TP sensor disconnected ● TP sensor to ECM sense circuits; open circuit, high resistance ● Throttle motor relay failure ● Throttle motor relay to ECM circuit fault ● Throttle motor relay power supply open circuit ● ECM ground circuit fault (relay coil drive) ● Throttle motor to ECM drive circuits; open circuit, short circuit, high resistance 	GO to Pinpoint Test <u>G.</u> REFER to Section <u>303-14A Electronic Engine Controls / 303-14B Electronic Engine Controls / 303-14C Electronic Engine Controls.</u> Individual Pinpoint tests for components and circuits listed