Diagnostic Trouble Code (DTC) index

DTC	Condition	Possible Causes	Action
P0171	Right-hand cylinders combustion too lean	• Air intake leak between mass air flow (MAF) sensor and cylinder head • Fuel filter/system restriction • Fuel injector restriction • Fuel rail pressure (FRP) sensor fault (low fuel pressure) • Low fuel pump output • HO2S/catalyst monitor sensor harness wiring condition fault • EFT sensor fault (low fuel temperature) • Mass air flow (MAF) sensor fault (low intake air flow) • Exhaust leak (before catalyst) • ECM receiving incorrect signal from one or more of the following sensors; ECT, MAF*, IAT, fuel rail temperature	For intake system, <<303-12>> For fuel injector, Fuel Injectors (18.10.02) For fuel filter and pump, <<310-01>> For FRP sensor circuit tests, GO to Pinpoint Test G206886p2. . For HO2S/Catalyst monitor sensor tests, <<303-14>> For exhaust system, <<309-00>> For sensor tests, <<303-14>> * If this DTC is flagged, pay particular attention to the MAF sensor.
P0172	Right-hand cylinders combustion too rich	• Engine misfire • Restricted air filter • Leaking fuel injector(s) • FRP sensor failure (high fuel pressure) • EFT sensor fault (high fuel temperature) • MAF sensor fault (high intake air flow) • HO2S/catalyst monitor sensor harness wiring condition fault • ECM receiving incorrect signal from one or more of the following sensors; ECT, MAF, IAT, FRP, EFT.	Check for "misfire detected" DTCs in this section; For intake system, <<303-12>> For fuel injector, Fuel Injectors (18.10.02) For FRP sensor circuit tests, GO to Pinpoint Test G206886p2. . For other sensor tests, <<303-14>>
P0174	Left-hand cylinders combustion too lean	• Air intake leak between MAF sensor and cylinder head • Fuel filter/system restriction	For intake system, <<303-12>> For fuel injectors, Fuel Injectors (18.10.02) For fuel filter, pump and

		• Fuel injector restriction • FRP sensor failure (low fuel pressure) • Low fuel pump output • HO2S/catalyst monitor sensor harness wiring condition fault • EFT sensor fault (low fuel temperature) • Mass air flow (MAF) sensor fault (low intake air flow) • Exhaust leak (before catalyst) • ECM receiving incorrect signal from one or more of the following sensors; ECT, MAF*, IAT, FRP, EFT, TP.	lines, <<310-01>> For HO2S/catalyst monitor sensor tests, <<303-14>> For exhaust system, <<309-00>> For FRP sensor tests, GO to Pinpoint Test G206886p2. . For other sensor tests, <<303-14>> * If this DTC is flagged, pay particular attention to the MAF sensor.
P0175	Left-hand cylinders combustion too rich	• Engine misfire • Restricted air filter • Leaking fuel injector(s) • FRP sensor failure (high fuel pressure) • ECM receiving incorrect signal from one or more of the following sensors; ECT, MAF, IAT, fuel rail pressure, fuel rail temperature	Check for "misfire detected" DTCs in this section. For intake system, <<303-12>> For fuel injectors, Fuel Injectors (18.10.02) For FRP sensor tests, GO to Pinpoint Test G206886p2. . For other sensor tests, <<303-14>>
P0191	Fuel rail pressure (FRP) sensor circuit range/performance	• Fuel filter/system restriction • Fuel system leak • Incorrect fuel pump output • FRP sensor to ECM sensing circuit; high resistance, open circuit, short circuit to high voltage • FRP sensor to splice in sensor supply circuit; high resistance, open circuit • FRP sensor to splice in sensor ground circuit; high resistance, open circuit, short circuit to ground, short circuit to high voltage • FRP sensor failure	For fuel filter, pump and lines, <<310-01>> For FRP sensor tests, GO to Pinpoint Test G206886p2. .
P0192	Fuel rail pressure (FRP) sensor circuit low voltage	• FRP sensor disconnected • FRP sensor to ECM sensing	For FRP sensor tests, GO to Pinpoint Test G206886p2.