

## Appendix C DTCs, English

This section contains the J2012 Recommended Powertrain Diagnostic Trouble Codes. These codes are recommendations not a requirement. Manufacturers may not follow these, but most do. Check your vehicle's service manual for DTC meaning if you think the codes you are getting do not make sense.

### Remember:

- 1) Visual inspections are important!
- 2) Problems with wiring and connectors are common, especially for intermittent faults.
- 3) Mechanical problems (vacuum leaks, binding or sticking linkages, etc.) can make a good sensor look bad to the computer.
- 4) Incorrect information from a sensor may cause the computer to control the engine in the wrong way. Faulty engine operation might even make the computer show a known good sensor as being bad!

#### **P0001**

Fuel Volume Regulator Control Circuit/Open

#### **P0002**

Fuel Volume Regulator Control Circuit Range/Performance

#### **P0003**

Fuel Volume Regulator Control Circuit Low

#### **P0004**

Fuel Volume Regulator Control Circuit High

#### **P0005**

Fuel Shutoff Valve Control Circuit/Open

#### **P0006**

Fuel Shutoff Valve Control Circuit Low

#### **P0007**

Fuel Shutoff Valve Control Circuit High

#### **P0008**

Engine Position System Performance (Bank 1)

#### **P0009**

Engine Position System Performance (Bank 2)

#### **P0010**

A Camshaft Position Actuator Circuit (Bank 1)

#### **P0011**

A Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)

#### **P0012**

A Camshaft Position - Timing Over-Retarded (Bank 1)

#### **P0013**

B Camshaft Position - Actuator Circuit (Bank 1)

#### **P0014**

B Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)

#### **P0015**

B Camshaft Position - Timing Over-Retarded (Bank 1)

#### **P0016**

Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)

#### **P0017**

Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)

#### **P0018**

Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)

#### **P0019**

Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B)

#### **P0020**

A Camshaft Position Actuator Circuit (Bank 2)

**P0021**

A Camshaft Position - Timing  
Over-Advanced or System Performance  
(Bank 2)

**P0022**

A Camshaft Position - Timing Over-Retarded  
(Bank 2)

**P0023**

B Camshaft Position - Actuator Circuit (Bank 2)

**P0024**

B Camshaft Position - Timing  
Over-Advanced or System Performance  
(Bank 2)

**P0025**

B Camshaft Position - Timing Over-Retarded  
(Bank 2)

**P0026**

Intake Valve Control Solenoid Circuit  
Range/Performance (Bank 1)

**P0027**

Exhaust Valve Control Solenoid Circuit  
Range/Performance (Bank 1)

**P0028**

Intake Valve Control Solenoid Circuit  
Range/Performance (Bank 2)

**P0029**

Exhaust Valve Control Solenoid Circuit  
Range/Performance (Bank 2)

**P0030**

HO2S Heater Control Circuit (Bank 1  
Sensor 1)

**P0031**

HO2S Heater Control Circuit Low (Bank 1  
Sensor 1)

**P0032**

HO2S Heater Control Circuit High (Bank 1  
Sensor 1)

**P0033**

Turbo Charger Bypass Valve Control Circuit

**P0034**

Turbo Charger Bypass Valve Control Circuit  
Low

**P0035**

Turbo Charger Bypass Valve Control Circuit  
High

**P0036**

HO2S Heater Control Circuit (Bank 1 Sensor  
2)

**P0037**

HO2S Heater Control Circuit Low (Bank 1  
Sensor 2)

**P0038**

HO2S Heater Control Circuit High (Bank 1  
Sensor 2)

**P0039**

Turbo/Super Charger Bypass Valve Control  
Circuit Range/Performance

**P0040**

O2 Sensor Signals Swapped Bank 1 Sensor  
1/ Bank 2 Sensor 1

**P0041**

O2 Sensor Signals Swapped Bank 1 Sensor  
2/ Bank 2 Sensor 2

**P0042**

HO2S Heater Control Circuit (Bank 1 Sensor  
3)

**P0043**

HO2S Heater Control Circuit Low (Bank 1  
Sensor 3)

**P0044**

HO2S Heater Control Circuit High (Bank 1  
Sensor 3)

**P0045**

Turbo/Super Charger Boost Control  
Solenoid Circuit/Open

**P0046**

Turbo/Super Charger Boost Control  
Solenoid Circuit Range/Performance

**P0047**

Turbo/Super Charger Boost Control  
Solenoid Circuit Low

**P0048**

Turbo/Super Charger Boost Control  
Solenoid Circuit High

**P0049**

Turbo/Super Charger Turbine Overspeed

**P0050**

HO2S Heater Control Circuit (Bank 2 Sensor  
1)

**P0051**

HO2S Heater Control Circuit Low (Bank 2  
Sensor 1)

**P0052**

HO2S Heater Control Circuit High (Bank 2  
Sensor 1)

**P0053**

HO2S Heater Resistance (Bank 1 Sensor 1)

**P0054**

HO2S Heater Resistance (Bank 1 Sensor 2)

**P0055**

HO2S Heater Resistance (Bank 1 Sensor 3)

**P0056**

HO2S Heater Control Circuit (Bank 2 Sensor  
2)

**P0057**  
HO2S Heater Control Circuit Low (Bank 2 Sensor 2)

**P0058**  
HO2S Heater Control Circuit High (Bank 2 Sensor 2)

**P0059**  
HO2S Heater Resistance (Bank 2 Sensor 1)

**P0060**  
HO2S Heater Resistance (Bank 2 Sensor 2)

**P0061**  
HO2S Heater Resistance (Bank 2 Sensor 3)

**P0062**  
HO2S Heater Control Circuit (Bank 2 Sensor 3)

**P0063**  
HO2S Heater Control Circuit Low (Bank 2 Sensor 3)

**P0064**  
HO2S Heater Control Circuit High (Bank 2 Sensor 3)

**P0065**  
Air Assisted Injector Control Range/Performance

**P0066**  
Air Assisted Injector Control Circuit or Circuit Low

**P0067**  
Air Assisted Injector Control Circuit High

**P0068**  
MAP/MAF – Throttle Position Correlation

**P0069**  
Manifold Absolute Pressure – Barometric Pressure Correlation

**P0070**  
Ambient Air Temperature Sensor Circuit

**P0071**  
Ambient Air Temperature Sensor Range/Performance

**P0072**  
Ambient Air Temperature Sensor Circuit Low

**P0073**  
Ambient Air Temperature Sensor Circuit High

**P0074**  
Ambient Air Temperature Sensor Circuit Intermittent

**P0075**  
Intake Valve Control Solenoid Circuit (Bank 1)

**P0076**  
Intake Valve Control Solenoid Circuit Low (Bank 1)

**P0077**  
Intake Valve Control Solenoid Circuit High (Bank 1)

**P0078**  
Exhaust Valve Control Solenoid Circuit (Bank 1)

**P0079**  
Exhaust Valve Control Solenoid Circuit Low (Bank 1)

**P0080**  
Exhaust Valve Control Solenoid Circuit High (Bank 1)

**P0081**  
Intake Valve Control Solenoid Circuit (Bank 2)

**P0082**  
Intake Valve Control Solenoid Circuit Low (Bank 2)

**P0083**  
Intake Valve Control Solenoid Circuit High (Bank 2)

**P0084**  
Exhaust Valve Control Solenoid Circuit (Bank 2)

**P0085**  
Exhaust Valve Control Solenoid Circuit Low (Bank 2)

**P0086**  
Exhaust Valve Control Solenoid Circuit High (Bank 2)

**P0087**  
Fuel Rail/System Pressure - Too Low

**P0088**  
Fuel Rail/System Pressure - Too High

**P0089**  
Fuel Pressure Regulator 1 Performance

**P0090**  
Fuel Pressure Regulator 1 Control Circuit

**P0091**  
Fuel Pressure Regulator 1 Control Circuit Low

**P0092**  
Fuel Pressure Regulator 1 Control Circuit High

**P0093**  
Fuel System Leak Detected – Large Leak

**P0094**  
Fuel System Leak Detected – Small Leak

**P0095**  
Intake Air Temperature Sensor 2 Circuit

**P0096**  
Intake Air Temperature Sensor 2 Circuit Range/Performance

**P0097**  
Intake Air Temperature Sensor 2 Circuit Low

**P0098**  
Intake Air Temperature Sensor 2 Circuit High

**P0099**  
Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic

**P0100**  
Mass or Volume Air Flow Circuit

**P0101**  
Mass or Volume Air Flow Circuit Range/Performance

**P0102**  
Mass or Volume Air Flow Circuit Low Input

**P0103**  
Mass or Volume Air Flow Circuit High Input

**P0104**  
Mass or Volume Air Flow Circuit Intermittent

**P0105**  
Manifold Absolute Pressure/Barometric Pressure Circuit

**P0106**  
Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance

**P0107**  
Manifold Absolute Pressure/Barometric Pressure Circuit Low Input

**P0108**  
Manifold Absolute Pressure/Barometric Pressure Circuit High Input

**P0109**  
Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent

**P0110**  
Intake Air Temperature Sensor 1 Circuit

**P0111**  
Intake Air Temperature Sensor 1 Circuit Range/Performance

**P0112**  
Intake Air Temperature Sensor 1 Circuit Low

**P0113**  
Intake Air Temperature Sensor 1 Circuit High

**P0114**  
Intake Air Temperature Sensor 1 Circuit Intermittent

**P0115**  
Engine Coolant Temperature Circuit

**P0116**  
Engine Coolant Temperature Circuit Range/Performance

**P0117**  
Engine Coolant Temperature Circuit Low

**P0118**  
Engine Coolant Temperature Circuit High

**P0119**  
Engine Coolant Temperature Circuit Intermittent

**P0120**  
Throttle/Pedal Position Sensor/Switch "A" Circuit

**P0121**  
Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance

**P0122**  
Throttle/Pedal Position Sensor/Switch "A" Circuit Low

**P0123**  
Throttle/Pedal Position Sensor/Switch "A" Circuit High

**P0124**  
Throttle/Pedal Position Sensor/Switch "A" Circuit Intermittent

**P0125**  
Insufficient Coolant Temperature for Closed Loop Fuel Control

**P0126**  
Insufficient Coolant Temperature for Stable Operation

**P0127**  
Intake Air Temperature Too High

**P0128**  
Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)

**P0129**  
Barometric Pressure Too Low

**P0130**  
O2 Sensor Circuit (Bank 1 Sensor 1)

**P0131**  
O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)

**P0132**  
O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)

**P0133**  
O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)

**P0134**  
O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)

**P0135**  
O2 Sensor Heater Circuit (Bank 1 Sensor 1)

**P0136**  
O2 Sensor Circuit (Bank 1 Sensor 2)

**P0137**  
O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)

**P0138**  
O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)

**P0139**  
O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)

**P0140**  
O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)

**P0141**  
O2 Sensor Heater Circuit (Bank 1 Sensor 2)

**P0142**  
O2 Sensor Circuit (Bank 1 Sensor 3)

**P0143**  
O2 Sensor Circuit Low Voltage (Bank 1 Sensor 3)

**P0144**  
O2 Sensor Circuit High Voltage (Bank 1 Sensor 3)

**P0145**  
O2 Sensor Circuit Slow Response (Bank 1 Sensor 3)

**P0146**  
O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 3)

**P0147**  
O2 Sensor Heater Circuit (Bank 1 Sensor 3)

**P0148**  
Fuel Delivery Error

**P0149**  
Fuel Timing Error

**P0150**  
O2 Sensor Circuit (Bank 2 Sensor 1)

**P0151**  
O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)

**P0152**  
O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)

**P0153**  
O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)

**P0154**  
O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)

**P0155**  
O2 Sensor Heater Circuit (Bank 2 Sensor 1)

**P0156**  
O2 Sensor Circuit (Bank 2 Sensor 2)

**P0157**  
O2 Sensor Circuit Low Voltage (Bank 2 Sensor 2)

**P0158**  
O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)

**P0159**  
O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)

**P0160**  
O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)

**P0161**  
O2 Sensor Heater Circuit (Bank 2 Sensor 2)

**P0162**  
O2 Sensor Circuit (Bank 2 Sensor 3)

**P0163**  
O2 Sensor Circuit Low Voltage (Bank 2 Sensor 3)

**P0164**  
O2 Sensor Circuit High Voltage (Bank 2 Sensor 3)

**P0165**  
O2 Sensor Circuit Slow Response (Bank 2 Sensor 3)

**P0166**  
O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)

**P0167**  
O2 Sensor Heater Circuit (Bank 2 Sensor 3)

**P0168**  
Fuel Temperature Too High

**P0169**  
Incorrect Fuel Composition

**P0170**  
Fuel Trim (Bank 1)

**P0171**  
System Too Lean (Bank 1)

**P0172**  
System Too Rich (Bank 1)

**P0173**  
Fuel Trim (Bank 2)

**P0174**  
System Too Lean (Bank 2)

**P0175**  
System Too Rich (Bank 2)

**P0176**  
Fuel Composition Sensor Circuit

**P0177**  
Fuel Composition Sensor Circuit Range/Performance

**P0178**  
Fuel Composition Sensor Circuit Low

**P0179**  
Fuel Composition Sensor Circuit High

**P0180**  
Fuel Temperature Sensor A Circuit

**P0181**  
Fuel Temperature Sensor A Circuit  
Range/Performance

**P0182**  
Fuel Temperature Sensor A Circuit Low

**P0183**  
Fuel Temperature Sensor A Circuit High

**P0184**  
Fuel Temperature Sensor A Circuit  
Intermittent

**P0185**  
Fuel Temperature Sensor B Circuit

**P0186**  
Fuel Temperature Sensor B Circuit  
Range/Performance

**P0187**  
Fuel Temperature Sensor B Circuit Low

**P0188**  
Fuel Temperature Sensor B Circuit High

**P0189**  
Fuel Temperature Sensor B Circuit  
Intermittent

**P0190**  
Fuel Rail Pressure Sensor Circuit

**P0191**  
Fuel Rail Pressure Sensor Circuit  
Range/Performance

**P0192**  
Fuel Rail Pressure Sensor Circuit Low

**P0193**  
Fuel Rail Pressure Sensor Circuit High

**P0194**  
Fuel Rail Pressure Sensor Circuit  
Intermittent

**P0195**  
Engine Oil Temperature Sensor

**P0196**  
Engine Oil Temperature Sensor  
Range/Performance

**P0197**  
Engine Oil Temperature Sensor Low

**P0198**  
Engine Oil Temperature Sensor High

**P0199**  
Engine Oil Temperature Sensor Intermittent

**P0200**  
Injector Circuit/Open

**P0201**  
Injector Circuit/Open – Cylinder 1

**P0202**  
Injector Circuit/Open – Cylinder 2

**P0203**  
Injector Circuit/Open – Cylinder 3

**P0204**  
Injector Circuit/Open – Cylinder 4

**P0205**  
Injector Circuit/Open – Cylinder 5

**P0206**  
Injector Circuit/Open – Cylinder 6

**P0207**  
Injector Circuit/Open – Cylinder 7

**P0208**  
Injector Circuit/Open – Cylinder 8

**P0209**  
Injector Circuit/Open – Cylinder 9

**P0210**  
Injector Circuit/Open – Cylinder 10

**P0211**  
Injector Circuit/Open – Cylinder 11

**P0212**  
Injector Circuit/Open – Cylinder 12

**P0213**  
Cold Start Injector 1

**P0214**  
Cold Start Injector 2

**P0215**  
Engine Shutoff Solenoid

**P0216**  
Injector/Injection Timing Control Circuit

**P0217**  
Engine Coolant Over Temperature Condition

**P0218**  
Transmission Fluid Over Temperature  
Condition

**P0219**  
Engine Overspeed Condition

**P0220**  
Throttle/Pedal Position Sensor/Switch "B"  
Circuit

**P0221**  
Throttle/Pedal Position Sensor/Switch "B"  
Circuit Range/Performance

**P0222**  
Throttle/Pedal Position Sensor/Switch "B"  
Circuit Low

**P0223**  
Throttle/Pedal Position Sensor/Switch "B"  
Circuit High

**P0224**  
Throttle/Pedal Position Sensor/Switch "B"  
Circuit Intermittent

**P0225**  
Throttle/Pedal Position Sensor/Switch "C"  
Circuit

**P0226**  
Throttle/Pedal Position Sensor/Switch "C"  
Circuit Range/Performance

**P0227**  
Throttle/Pedal Position Sensor/Switch "C"  
Circuit Low

**P0228**  
Throttle/Pedal Position Sensor/Switch "C"  
Circuit High

**P0229**  
Throttle/Pedal Position Sensor/Switch "C"  
Circuit Intermittent

**P0230**  
Fuel Pump Primary Circuit

**P0231**  
Fuel Pump Secondary Circuit Low

**P0232**  
Fuel Pump Secondary Circuit High

**P0233**  
Fuel Pump Secondary Circuit Intermittent

**P0234**  
Turbo/Super Charger Overboost Condition

**P0235**  
Turbo/Super Charger Boost Sensor "A"  
Circuit

**P0236**  
Turbo/Super Charger Boost Sensor "A"  
Circuit Range/Performance

**P0237**  
Turbo/Super Charger Boost Sensor "A"  
Circuit Low

**P0238**  
Turbo/Super Charger Boost Sensor "A"  
Circuit High

**P0239**  
Turbo/Super Charger Boost Sensor "B"  
Circuit

**P0240**  
Turbo/Super Charger Boost Sensor "B"  
Circuit Range/Performance

**P0241**  
Turbo/Super Charger Boost Sensor "B"  
Circuit Low

**P0242**  
Turbo/Super Charger Boost Sensor "B"  
Circuit High

**P0243**  
Turbo/Super Charger Wastegate Solenoid  
"A"

**P0244**  
Turbo/Super Charger Wastegate Solenoid  
"A" Range/Performance

**P0245**  
Turbo/Super Charger Wastegate Solenoid  
"A" Low

**P0246**  
Turbo/Super Charger Wastegate Solenoid  
"A" High

**P0247**  
Turbo/Super Charger Wastegate Solenoid  
"B"

**P0248**  
Turbo/Super Charger Wastegate Solenoid  
"B" Range/Performance

**P0249**  
Turbo/Super Charger Wastegate Solenoid  
"B" Low

**P0250**  
Turbo/Super Charger Wastegate Solenoid  
"B" High

**P0251**  
Injection Pump Fuel Metering Control "A"  
(Cam/Rotor/Injector)

**P0252**  
Injection Pump Fuel Metering Control "A"  
Range/Performance (Cam/Rotor/Injector)

**P0253**  
Injection Pump Fuel Metering Control "A"  
Low (Cam/Rotor/Injector)

**P0254**  
Injection Pump Fuel Metering Control "A"  
High (Cam/Rotor/Injector)

**P0255**  
Injection Pump Fuel Metering Control "A"  
Intermittent (Cam/Rotor/Injector)

**P0256**  
Injection Pump Fuel Metering Control "B"  
(Cam/Rotor/Injector)

**P0257**  
Injection Pump Fuel Metering Control "B"  
Range/Performance (Cam/Rotor/Injector)

**P0258**  
Injection Pump Fuel Metering Control "B"  
Low (Cam/Rotor/Injector)

**P0259**  
Injection Pump Fuel Metering Control "B"  
High (Cam/Rotor/Injector)

**P0260**  
Injection Pump Fuel Metering Control "B"  
Intermittent (Cam/Rotor/Injector)

**P0261**  
Cylinder 1 Injector Circuit Low

**P0262**  
Cylinder 1 Injector Circuit High

**P0263**  
Cylinder 1 Contribution/Balance

**P0264**  
Cylinder 2 Injector Circuit Low

**P0265**  
Cylinder 2 Injector Circuit High

**P0266**  
Cylinder 2 Contribution/Balance

**P0267**  
Cylinder 3 Injector Circuit Low

**P0268**  
Cylinder 3 Injector Circuit High

**P0269**  
Cylinder 3 Contribution/Balance

**P0270**  
Cylinder 4 Injector Circuit Low

**P0271**  
Cylinder 4 Injector Circuit High

**P0272**  
Cylinder 4 Contribution/Balance

**P0273**  
Cylinder 5 Injector Circuit Low

**P0274**  
Cylinder 5 Injector Circuit High

**P0275**  
Cylinder 5 Contribution/Balance

**P0276**  
Cylinder 6 Injector Circuit Low

**P0277**  
Cylinder 6 Injector Circuit High

**P0278**  
Cylinder 6 Contribution/Balance

**P0279**  
Cylinder 7 Injector Circuit Low

**P0280**  
Cylinder 7 Injector Circuit High

**P0281**  
Cylinder 7 Contribution/Balance

**P0282**  
Cylinder 8 Injector Circuit Low

**P0283**  
Cylinder 8 Injector Circuit High

**P0284**  
Cylinder 8 Contribution/Balance

**P0285**  
Cylinder 9 Injector Circuit Low

**P0286**  
Cylinder 9 Injector Circuit High

**P0287**  
Cylinder 9 Contribution/Balance

**P0288**  
Cylinder 10 Injector Circuit Low

**P0289**  
Cylinder 10 Injector Circuit High

**P0290**  
Cylinder 10 Contribution/Balance

**P0291**  
Cylinder 11 Injector Circuit Low

**P0292**  
Cylinder 11 Injector Circuit High

**P0293**  
Cylinder 11 Contribution/Balance

**P0294**  
Cylinder 12 Injector Circuit Low

**P0295**  
Cylinder 12 Injector Circuit High

**P0296**  
Cylinder 12 Contribution/Balance

**P0297**  
Vehicle Overspeed Condition

**P0298**  
Engine Oil Over Temperature

**P0299**  
Turbo/Super Charger Underboost

**P0300**  
Random/Multiple Cylinder Misfire Detected

**P0301**  
Cylinder 1 Misfire Detected

**P0302**  
Cylinder 2 Misfire Detected

**P0303**  
Cylinder 3 Misfire Detected

**P0304**  
Cylinder 4 Misfire Detected

**P0305**  
Cylinder 5 Misfire Detected

**P0306**  
Cylinder 6 Misfire Detected

**P0307**  
Cylinder 7 Misfire Detected

**P0308**  
Cylinder 8 Misfire Detected

**P0309**  
Cylinder 9 Misfire Detected



**P0310**  
Cylinder 10 Misfire Detected

**P0311**  
Cylinder 11 Misfire Detected

**P0312**  
Cylinder 12 Misfire Detected

**P0313**  
Misfire Detected with Low Fuel

**P0314**  
Single Cylinder Misfire (Cylinder not Specified)

**P0315**  
Crankshaft Position System Variation Not Learned

**P0316**  
Engine Misfire Detected on Startup (First 1000 Revolutions)

**P0317**  
Rough Road Hardware Not Present

**P0318**  
Rough Road Sensor "A" Signal Circuit

**P0319**  
Rough Road Sensor "B"

**P0320**  
Ignition/Distributor Engine Speed Input Circuit

**P0321**  
Ignition/Distributor Engine Speed Input Circuit Range/Performance

**P0322**  
Ignition/Distributor Engine Speed Input Circuit No Signal

**P0323**  
Ignition/Distributor Engine Speed Input Circuit Intermittent

**P0324**  
Knock Control System Error

**P0325**  
Knock Sensor 1 Circuit (Bank 1 or Single Sensor)

**P0326**  
Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)

**P0327**  
Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)

**P0328**  
Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)

**P0329**  
Knock Sensor 1 Circuit Input Intermittent (Bank 1 or Single Sensor)

**P0330**  
Knock Sensor 2 Circuit (Bank 2)

**P0331**  
Knock Sensor 2 Circuit Range/Performance (Bank 2)

**P0332**  
Knock Sensor 2 Circuit Low (Bank 2)

**P0333**  
Knock Sensor 2 Circuit High (Bank 2)

**P0334**  
Knock Sensor 2 Circuit Input Intermittent (Bank 2)

**P0335**  
Crankshaft Position Sensor "A" Circuit

**P0336**  
Crankshaft Position Sensor "A" Circuit Range/Performance

**P0337**  
Crankshaft Position Sensor "A" Circuit Low

**P0338**  
Crankshaft Position Sensor "A" Circuit High

**P0339**  
Crankshaft Position Sensor "A" Circuit Intermittent

**P0340**  
Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)

**P0341**  
Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)

**P0342**  
Camshaft Position Sensor "A" Circuit Low (Bank 1 or Single Sensor)

**P0343**  
Camshaft Position Sensor "A" Circuit High (Bank 1 or Single Sensor)

**P0344**  
Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or Single Sensor)

**P0345**  
Camshaft Position Sensor "A" Circuit (Bank 2)

**P0346**  
Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)

**P0347**  
Camshaft Position Sensor "A" Circuit Low (Bank 2)

**P0348**  
Camshaft Position Sensor "A" Circuit High (Bank 2)

**P0349**

Camshaft Position Sensor "A" Circuit  
Intermittent (Bank 2)

**P0350**

Ignition Coil Primary/Secondary Circuit

**P0351**

Ignition Coil "A" Primary/Secondary Circuit

**P0352**

Ignition Coil "B" Primary/Secondary Circuit

**P0353**

Ignition Coil "C" Primary/Secondary Circuit

**P0354**

Ignition Coil "D" Primary/Secondary Circuit

**P0355**

Ignition Coil "E" Primary/Secondary Circuit

**P0356**

Ignition Coil "F" Primary/Secondary Circuit

**P0357**

Ignition Coil "G" Primary/Secondary Circuit

**P0358**

Ignition Coil "H" Primary/Secondary Circuit

**P0359**

Ignition Coil "I" Primary/Secondary Circuit

**P0360**

Ignition Coil "J" Primary/Secondary Circuit

**P0361**

Ignition Coil "K" Primary/Secondary Circuit

**P0362**

Ignition Coil "L" Primary/Secondary Circuit

**P0363**

Misfire Detected – Fueling Disabled

**P0364**

Reserved

**P0365**

Camshaft Position Sensor "B" Circuit (Bank 1)

**P0366**

Camshaft Position Sensor "B" Circuit  
Range/Performance (Bank 1)

**P0367**

Camshaft Position Sensor "B" Circuit Low  
(Bank 1)

**P0368**

Camshaft Position Sensor "B" Circuit High  
(Bank 1)

**P0369**

Camshaft Position Sensor "B" Circuit  
Intermittent (Bank 1)

**P0370**

Timing Reference High Resolution Signal "A"

**P0371**

Timing Reference High Resolution Signal "A"  
Too Many Pulses

**P0372**

Timing Reference High Resolution Signal "A"  
Too Few Pulses

**P0373**

Timing Reference High Resolution Signal "A"  
Intermittent/Erratic Pulses

**P0374**

Timing Reference High Resolution Signal "A"  
No Pulse

**P0375**

Timing Reference High Resolution Signal "B"

**P0376**

Timing Reference High Resolution Signal "B"  
Too Many Pulses

**P0377**

Timing Reference High Resolution Signal "B"  
Too Few Pulses

**P0378**

Timing Reference High Resolution Signal "B"  
Intermittent/Erratic Pulses

**P0379**

Timing Reference High Resolution Signal "B"  
No Pulses

**P0380**

Glow Plug/Heater Circuit "A"

**P0381**

Glow Plug/Heater Indicator Circuit

**P0382**

Glow Plug/Heater Circuit "B"

**P0385**

Crankshaft Position Sensor "B" Circuit

**P0386**

Crankshaft Position Sensor "B" Circuit  
Range/Performance

**P0387**

Crankshaft Position Sensor "B" Circuit Low

**P0388**

Crankshaft Position Sensor "B" Circuit High

**P0389**

Crankshaft Position Sensor "B" Circuit  
Intermittent

**P0390**

Camshaft Position Sensor "B" Circuit (Bank 2)

**P0391**

Camshaft Position Sensor "B" Circuit  
Range/Performance (Bank 2)

**P0392**

Camshaft Position Sensor "B" Circuit Low  
(Bank 2)

**P0393**  
Camshaft Position Sensor "B" Circuit High  
(Bank 2)

**P0394**  
Camshaft Position Sensor "B" Circuit  
Intermittent (Bank 2)

**P0400**  
Exhaust Gas Recirculation Flow

**P0401**  
Exhaust Gas Recirculation Flow Insufficient  
Detected

**P0402**  
Exhaust Gas Recirculation Flow Excessive  
Detected

**P0403**  
Exhaust Gas Recirculation Control Circuit

**P0404**  
Exhaust Gas Recirculation Control Circuit  
Range/Performance

**P0405**  
Exhaust Gas Recirculation Sensor "A"  
Circuit Low

**P0406**  
Exhaust Gas Recirculation Sensor "A"  
Circuit High

**P0407**  
Exhaust Gas Recirculation Sensor "B"  
Circuit Low

**P0408**  
Exhaust Gas Recirculation Sensor "B"  
Circuit High

**P0409**  
Exhaust Gas Recirculation Sensor "A"  
Circuit

**P0410**  
Secondary Air Injection System

**P0411**  
Secondary Air Injection System Incorrect  
Flow Detected

**P0412**  
Secondary Air Injection System Switching  
Valve "A" Circuit

**P0413**  
Secondary Air Injection System Switching  
Valve "A" Circuit Open

**P0414**  
Secondary Air Injection System Switching  
Valve "A" Circuit Shorted

**P0415**  
Secondary Air Injection System Switching  
Valve "B" Circuit

**P0416**  
Secondary Air Injection System Switching  
Valve "B" Circuit Open

**P0417**  
Secondary Air Injection System Switching  
Valve "B" Circuit Shorted

**P0418**  
Secondary Air Injection System Control "A"  
Circuit

**P0419**  
Secondary Air Injection System Control "B"  
Circuit

**P0420**  
Catalyst System Efficiency Below Threshold  
(Bank 1)

**P0421**  
Warm Up Catalyst Efficiency Below  
Threshold (Bank 1)

**P0422**  
Main Catalyst Efficiency Below Threshold  
(Bank 1)

**P0423**  
Heated Catalyst Efficiency Below Threshold  
(Bank 1)

**P0424**  
Heated Catalyst Temperature Below  
Threshold (Bank 1)

**P0425**  
Catalyst Temperature Sensor (Bank 1)

**P0426**  
Catalyst Temperature Sensor  
Range/Performance (Bank 1)

**P0427**  
Catalyst Temperature Sensor Low (Bank 1)

**P0428**  
Catalyst Temperature Sensor High (Bank 1)

**P0429**  
Catalyst Heater Control Circuit (Bank 1)

**P0430**  
Catalyst System Efficiency Below Threshold  
(Bank 2)

**P0431**  
Warm Up Catalyst Efficiency Below  
Threshold (Bank 2)

**P0432**  
Main Catalyst Efficiency Below Threshold  
(Bank 2)

**P0433**  
Heated Catalyst Efficiency Below Threshold  
(Bank 2)

**P0434**  
Heated Catalyst Temperature Below  
Threshold (Bank 2)

**P0435**  
Catalyst Temperature Sensor (Bank 2)

**P0436**

Catalyst Temperature Sensor  
Range/Performance (Bank 2)

**P0437**

Catalyst Temperature Sensor Low (Bank 2)

**P0438**

Catalyst Temperature Sensor High (Bank 2)

**P0439**

Catalyst Heater Control Circuit (Bank 2)

**P0440**

Evaporative Emission System

**P0441**

Evaporative Emission System Incorrect  
Purge Flow

**P0442**

Evaporative Emission System Leak  
Detected (small leak)

**P0443**

Evaporative Emission System Purge Control  
Valve Circuit

**P0444**

Evaporative Emission System Purge Control  
Valve Circuit Open

**P0445**

Evaporative Emission System Purge Control  
Valve Circuit Shorted

**P0446**

Evaporative Emission System Vent Control  
Circuit

**P0447**

Evaporative Emission System Vent Control  
Circuit Open

**P0448**

Evaporative Emission System Vent Control  
Circuit Shorted

**P0449**

Evaporative Emission System Vent  
Valve/Solenoid Circuit

**P0450**

Evaporative Emission System Pressure  
Sensor/Switch

**P0451**

Evaporative Emission System Pressure  
Sensor/Switch Range/Performance

**P0452**

Evaporative Emission System Pressure  
Sensor/Switch Low

**P0453**

Evaporative Emission System Pressure  
Sensor/Switch High

**P0454**

Evaporative Emission System Pressure  
Sensor/Switch Intermittent

**P0455**

Evaporative Emission System Leak  
Detected (large leak)

**P0456**

Evaporative Emission System Leak  
Detected (very small leak)

**P0457**

Evaporative Emission System Leak  
Detected (fuel cap loose/off)

**P0458**

Evaporative Emission System Purge Control  
Valve Circuit Low

**P0459**

Evaporative Emission System Purge Control  
Valve Circuit High

**P0460**

Fuel Level Sensor "A" Circuit

**P0461**

Fuel Level Sensor "A" Circuit  
Range/Performance

**P0462**

Fuel Level Sensor "A" Circuit Low

**P0463**

Fuel Level Sensor "A" Circuit High

**P0464**

Fuel Level Sensor "A" Circuit Intermittent

**P0465**

EVAP Purge Flow Sensor Circuit

**P0466**

EVAP Purge Flow Sensor Circuit  
Range/Performance

**P0467**

EVAP Purge Flow Sensor Circuit Low

**P0468**

EVAP Purge Flow Sensor Circuit High

**P0469**

EVAP Purge Flow Sensor Circuit Intermittent

**P0470**

Exhaust Pressure Sensor

**P0471**

Exhaust Pressure Sensor  
Range/Performance

**P0472**

Exhaust Pressure Sensor Low

**P0473**

Exhaust Pressure Sensor High

**P0474**

Exhaust Pressure Sensor Intermittent

**P0475**

Exhaust Pressure Control Valve

**P0476**  
Exhaust Pressure Control Valve  
Range/Performance

**P0477**  
Exhaust Pressure Control Valve Low

**P0478**  
Exhaust Pressure Control Valve High

**P0479**  
Exhaust Pressure Control Valve Intermittent

**P0480**  
Fan 1 Control Circuit

**P0481**  
Fan 2 Control Circuit

**P0482**  
Fan 3 Control Circuit

**P0483**  
Fan Rationality Check

**P0484**  
Fan Circuit Over Current

**P0485**  
Fan Power/Ground Circuit

**P0486**  
Exhaust Gas Recirculation Sensor "B"  
Circuit

**P0487**  
Exhaust Gas Recirculation Throttle Position  
Control Circuit

**P0488**  
Exhaust Gas Recirculation Throttle Position  
Control Range/Performance

**P0489**  
Exhaust Gas Recirculation Control Circuit  
Low

**P0490**  
Exhaust Gas Recirculation Control Circuit  
High

**P0491**  
Secondary Air Injection System (Bank 1)

**P0492**  
Secondary Air Injection System (Bank 2)

**P0493**  
Fan Overspeed

**P0494**  
Fan Speed Low

**P0495**  
Fan Speed High

**P0496**  
Evaporative Emission System High Purge  
Flow

**P0497**  
Evaporative Emission System Low Purge  
Flow

**P0498**  
Evaporative Emission System Vent Valve  
Control Circuit Low

**P0499**  
Evaporative Emission System Vent Valve  
Control Circuit High

**P0500**  
Vehicle Speed Sensor "A"

**P0501**  
Vehicle Speed Sensor "A"  
Range/Performance

**P0502**  
Vehicle Speed Sensor "A" Circuit Low Input

**P0503**  
Vehicle Speed Sensor "A"  
Intermittent/Erratic/High

**P0504**  
Brake Switch "A"/"B" Correlation

**P0505**  
Idle Air Control System

**P0506**  
Idle Air Control System RPM Lower Than  
Expected

**P0507**  
Idle Air Control System RPM Higher Than  
Expected

**P0508**  
Idle Air Control System Circuit Low

**P0509**  
Idle Air Control System Circuit High

**P0510**  
Closed Throttle Position Switch

**P0511**  
Idle Air Control Circuit

**P0512**  
Starter Request Circuit

**P0513**  
Incorrect Immobilizer Key

**P0514**  
Battery Temperature Sensor Circuit  
Range/Performance

**P0515**  
Battery Temperature Sensor Circuit

**P0516**  
Battery Temperature Sensor Circuit Low

**P0517**  
Battery Temperature Sensor Circuit High

**P0518**  
Idle Air Control Circuit Intermittent

**P0519**  
Idle Air Control System Performance

**P0520**  
Engine Oil Pressure Sensor/Switch Circuit

**P0521**  
Engine Oil Pressure Sensor/Switch  
Range/Performance

**P0522**  
Engine Oil Pressure Sensor/Switch Low  
Voltage

**P0523**  
Engine Oil Pressure Sensor/Switch High  
Voltage

**P0524**  
Engine Oil Pressure Too Low

**P0525**  
Cruise Control Servo Control Circuit  
Range/Performance

**P0526**  
Fan Speed Sensor Circuit

**P0527**  
Fan Speed Sensor Circuit  
Range/Performance

**P0528**  
Fan Speed Sensor Circuit No Signal

**P0529**  
Fan Speed Sensor Circuit Intermittent

**P0530**  
A/C Refrigerant Pressure Sensor "A" Circuit

**P0531**  
A/C Refrigerant Pressure Sensor "A" Circuit  
Range/Performance

**P0532**  
A/C Refrigerant Pressure Sensor "A" Circuit  
Low

**P0533**  
A/C Refrigerant Pressure Sensor "A" Circuit  
High

**P0534**  
Air Conditioner Refrigerant Charge Loss

**P0535**  
A/C Evaporator Temperature Sensor Circuit

**P0536**  
A/C Evaporator Temperature Sensor Circuit  
Range/Performance

**P0537**  
A/C Evaporator Temperature Sensor Circuit  
Low

**P0538**  
A/C Evaporator Temperature Sensor Circuit  
High

**P0539**  
A/C Evaporator Temperature Sensor Circuit  
Intermittent

**P0540**  
Intake Air Heater "A" Circuit

**P0541**  
Intake Air Heater "A" Circuit Low

**P0542**  
Intake Air Heater "A" Circuit High

**P0543**  
Intake Air Heater "A" Circuit Open

**P0544**  
Exhaust Gas Temperature Sensor Circuit  
(Bank 1 Sensor 1)

**P0545**  
Exhaust Gas Temperature Sensor Circuit  
Low (Bank 1 Sensor 1)

**P0546**  
Exhaust Gas Temperature Sensor Circuit  
High (Bank 1 Sensor 1)

**P0547**  
Exhaust Gas Temperature Sensor Circuit  
(Bank 2 Sensor 1)

**P0548**  
Exhaust Gas Temperature Sensor Circuit  
Low (Bank 2 Sensor 1)

**P0549**  
Exhaust Gas Temperature Sensor Circuit  
High (Bank 2 Sensor 1)

**P0550**  
Power Steering Pressure Sensor/Switch  
Circuit

**P0551**  
Power Steering Pressure Sensor/Switch  
Circuit Range/Performance

**P0552**  
Power Steering Pressure Sensor/Switch  
Circuit Low Input

**P0553**  
Power Steering Pressure Sensor/Switch  
Circuit High Input

**P0554**  
Power Steering Pressure Sensor/Switch  
Circuit Intermittent

**P0555**  
Brake Booster Pressure Sensor Circuit

**P0556**  
Brake Booster Pressure Sensor Circuit  
Range/Performance

**P0557**  
Brake Booster Pressure Sensor Circuit Low  
Input

**P0558**  
Brake Booster Pressure Sensor Circuit High  
Input

**P0559**  
Brake Booster Pressure Sensor Circuit Intermittent

**P0560**  
System Voltage

**P0561**  
System Voltage Unstable

**P0562**  
System Voltage Low

**P0563**  
System Voltage High

**P0564**  
Cruise Control Multi-Function Input "A" Circuit

**P0565**  
Cruise Control On Signal

**P0566**  
Cruise Control Off Signal

**P0567**  
Cruise Control Resume Signal

**P0568**  
Cruise Control Set Signal

**P0569**  
Cruise Control Coast Signal

**P0570**  
Cruise Control Accelerate Signal

**P0571**  
Brake Switch "A" Circuit

**P0572**  
Brake Switch "A" Circuit Low

**P0573**  
Brake Switch "A" Circuit High

**P0574**  
Cruise Control System - Vehicle Speed Too High

**P0575**  
Cruise Control Input Circuit

**P0576**  
Cruise Control Input Circuit Low

**P0577**  
Cruise Control Input Circuit High

**P0578**  
Cruise Control Multi-Function Input "A" Circuit Stuck

**P0579**  
Cruise Control Multi-Function Input "A" Circuit Range/Performance

**P0580**  
Cruise Control Multi-Function Input "A" Circuit Low

**P0581**  
Cruise Control Multi-Function Input "A" Circuit High

**P0582**  
Cruise Control Vacuum Control Circuit/Open

**P0583**  
Cruise Control Vacuum Control Circuit Low

**P0584**  
Cruise Control Vacuum Control Circuit High

**P0585**  
Cruise Control Multi-Function Input "A"/"B" Correlation

**P0586**  
Cruise Control Vent Control Circuit/Open

**P0587**  
Cruise Control Vent Control Circuit Low

**P0588**  
Cruise Control Vent Control Circuit High

**P0589**  
Cruise Control Multi-Function Input "B" Circuit

**P0590**  
Cruise Control Multi-Function Input "B" Circuit Stuck

**P0591**  
Cruise Control Multi-Function Input "B" Circuit Range/Performance

**P0592**  
Cruise Control Multi-Function Input "B" Circuit Low

**P0593**  
Cruise Control Multi-Function Input "B" Circuit High

**P0594**  
Cruise Control Servo Control Circuit/Open

**P0595**  
Cruise Control Servo Control Circuit Low

**P0596**  
Cruise Control Servo Control Circuit High

**P0597**  
Thermostat Heater Control Circuit/Open

**P0598**  
Thermostat Heater Control Circuit Low

**P0599**  
Thermostat Heater Control Circuit High

**P0600**  
Serial Communication Link

**P0601**  
Internal Control Module Memory Check Sum Error

**P0602**  
Control Module Programming Error

**P0603**

Internal Control Module Keep Alive Memory (KAM) Error

**P0604**

Internal Control Module Random Access Memory (RAM) Error

**P0605**

Internal Control Module Read Only Memory (ROM) Error

**P0606**

ECM/PCM Processor

**P0607**

Control Module Performance

**P0608**

Control Module VSS Output "A"

**P0609**

Control Module VSS Output "B"

**P0610**

Control Module Vehicle Options Error

**P0611**

Fuel Injector Control Module Performance

**P0612**

Fuel Injector Control Module Relay Control

**P0613**

TCM Processor

**P0614**

ECM / TCM Incompatible

**P0615**

Starter Relay Circuit

**P0616**

Starter Relay Circuit Low

**P0617**

Starter Relay Circuit High

**P0618**

Alternative Fuel Control Module KAM Error

**P0619**

Alternative Fuel Control Module RAM/ROM Error

**P0620**

Generator Control Circuit

**P0621**

Generator Lamp/L Terminal Circuit

**P0622**

Generator Field/F Terminal Circuit

**P0623**

Generator Lamp Control Circuit

**P0624**

Fuel Cap Lamp Control Circuit

**P0625**

Generator Field/F Terminal Circuit Low

**P0626**

Generator Field/F Terminal Circuit High

**P0627**

Fuel Pump "A" Control Circuit /Open

**P0628**

Fuel Pump "A" Control Circuit Low

**P0629**

Fuel Pump "A" Control Circuit High

**P0630**

VIN Not Programmed or Incompatible – ECM/PCM

**P0631**

VIN Not Programmed or Incompatible – TCM

**P0632**

Odometer Not Programmed – ECM/PCM

**P0633**

Immobilizer Key Not Programmed – ECM/PCM

**P0634**

PCM/ECM/TCM Internal Temperature Too High

**P0635**

Power Steering Control Circuit

**P0636**

Power Steering Control Circuit Low

**P0637**

Power Steering Control Circuit High

**P0638**

Throttle Actuator Control Range/Performance (Bank 1)

**P0639**

Throttle Actuator Control Range/Performance (Bank 2)

**P0640**

Intake Air Heater Control Circuit

**P0641**

Sensor Reference Voltage "A" Circuit/Open

**P0642**

Sensor Reference Voltage "A" Circuit Low

**P0643**

Sensor Reference Voltage "A" Circuit High

**P0644**

Driver Display Serial Communication Circuit

**P0645**

A/C Clutch Relay Control Circuit

**P0646**

A/C Clutch Relay Control Circuit Low

**P0647**

A/C Clutch Relay Control Circuit High

**P0648**

Immobilizer Lamp Control Circuit



**P0649**  
Speed Control Lamp Control Circuit

**P0650**  
Malfunction Indicator Lamp (MIL) Control Circuit

**P0651**  
Sensor Reference Voltage "B" Circuit/Open

**P0652**  
Sensor Reference Voltage "B" Circuit Low

**P0653**  
Sensor Reference Voltage "B" Circuit High

**P0654**  
Engine RPM Output Circuit

**P0655**  
Engine Hot Lamp Output Control Circuit

**P0656**  
Fuel Level Output Circuit

**P0657**  
Actuator Supply Voltage Circuit/Open

**P0658**  
Actuator Supply Voltage Circuit Low

**P0659**  
Actuator Supply Voltage Circuit High

**P0660**  
Intake Manifold Tuning Valve Control Circuit/Open (Bank 1)

**P0661**  
Intake Manifold Tuning Valve Control Circuit Low (Bank 1)

**P0662**  
Intake Manifold Tuning Valve Control Circuit High (Bank 1)

**P0663**  
Intake Manifold Tuning Valve Control Circuit/Open (Bank 2)

**P0664**  
Intake Manifold Tuning Valve Control Circuit Low (Bank 2)

**P0665**  
Intake Manifold Tuning Valve Control Circuit High (Bank 2)

**P0666**  
PCM/ECM/TCM Internal Temperature Sensor Circuit

**P0667**  
PCM/ECM/TCM Internal Temperature Sensor Range/Performance

**P0668**  
PCM/ECM/TCM Internal Temperature Sensor Circuit Low

**P0669**  
PCM/ECM/TCM Internal Temperature Sensor Circuit High

**P0670**  
Glow Plug Module Control Circuit

**P0671**  
Cylinder 1 Glow Plug Circuit

**P0672**  
Cylinder 2 Glow Plug Circuit

**P0673**  
Cylinder 3 Glow Plug Circuit

**P0674**  
Cylinder 4 Glow Plug Circuit

**P0675**  
Cylinder 5 Glow Plug Circuit

**P0676**  
Cylinder 6 Glow Plug Circuit

**P0677**  
Cylinder 7 Glow Plug Circuit

**P0678**  
Cylinder 8 Glow Plug Circuit

**P0683**  
Glow Plug Control Module to PCM Communication Circuit

**P0684**  
Glow Plug Control Module to PCM Communication Circuit Range/Performance

**P0685**  
ECM/PCM Power Relay Control Circuit /Open

**P0686**  
ECM/PCM Power Relay Control Circuit Low

**P0687**  
ECM/PCM Power Relay Control Circuit High

**P0688**  
ECM/PCM Power Relay Sense Circuit /Open

**P0689**  
ECM/PCM Power Relay Sense Circuit Low

**P0690**  
ECM/PCM Power Relay Sense Circuit High

**P0691**  
Fan 1 Control Circuit Low

**P0692**  
Fan 1 Control Circuit High

**P0693**  
Fan 2 Control Circuit Low

**P0694**  
Fan 2 Control Circuit High

**P0695**  
Fan 3 Control Circuit Low

**P0696**  
Fan 3 Control Circuit High

**P0697**  
Sensor Reference Voltage "C" Circuit/Open

**P0698**  
Sensor Reference Voltage "C" Circuit Low

**P0699**  
Sensor Reference Voltage "C" Circuit High

**P0700**  
Transmission Control System (MIL Request)

**P0701**  
Transmission Control System  
Range/Performance

**P0702**  
Transmission Control System Electrical

**P0703**  
Brake Switch "B" Circuit

**P0704**  
Clutch Switch Input Circuit Malfunction

**P0705**  
Transmission Range Sensor Circuit  
Malfunction (PRNDL Input)

**P0706**  
Transmission Range Sensor Circuit  
Range/Performance

**P0707**  
Transmission Range Sensor Circuit Low

**P0708**  
Transmission Range Sensor Circuit High

**P0709**  
Transmission Range Sensor Circuit  
Intermittent

**P0710**  
Transmission Fluid Temperature Sensor "A"  
Circuit

**P0711**  
Transmission Fluid Temperature Sensor "A"  
Circuit Range/Performance

**P0712**  
Transmission Fluid Temperature Sensor "A"  
Circuit Low

**P0713**  
Transmission Fluid Temperature Sensor "A"  
Circuit High

**P0714**  
Transmission Fluid Temperature Sensor "A"  
Circuit Intermittent

**P0715**  
Input/Turbine Speed Sensor "A" Circuit

**P0716**  
Input/Turbine Speed Sensor "A" Circuit  
Range/Performance

**P0717**  
Input/Turbine Speed Sensor "A" Circuit No  
Signal

**P0718**  
Input/Turbine Speed Sensor "A" Circuit  
Intermittent

**P0719**  
Brake Switch "B" Circuit Low

**P0720**  
Output Speed Sensor Circuit

**P0721**  
Output Speed Sensor Circuit  
Range/Performance

**P0722**  
Output Speed Sensor Circuit No Signal

**P0723**  
Output Speed Sensor Circuit Intermittent

**P0724**  
Brake Switch "B" Circuit High

**P0725**  
Engine Speed Input Circuit

**P0726**  
Engine Speed Input Circuit  
Range/Performance

**P0727**  
Engine Speed Input Circuit No Signal

**P0728**  
Engine Speed Input Circuit Intermittent

**P0729**  
Gear 6 Incorrect Ratio

**P0730**  
Incorrect Gear Ratio

**P0731**  
Gear 1 Incorrect Ratio

**P0732**  
Gear 2 Incorrect Ratio

**P0733**  
Gear 3 Incorrect Ratio

**P0734**  
Gear 4 Incorrect Ratio

**P0735**  
Gear 5 Incorrect Ratio

**P0736**  
Reverse Incorrect Ratio

**P0737**  
TCM Engine Speed Output Circuit

**P0738**  
TCM Engine Speed Output Circuit Low

**P0739**  
TCM Engine Speed Output Circuit High

**P0740**  
Torque Converter Clutch Circuit/Open

**P0741**  
Torque Converter Clutch Circuit  
Performance or Stuck Off

**P0742**  
Torque Converter Clutch Circuit Stuck On

**P0743**  
Torque Converter Clutch Circuit Electrical

**P0744**  
Torque Converter Clutch Circuit Intermittent

**P0745**  
Pressure Control Solenoid "A"

**P0746**  
Pressure Control Solenoid "A" Performance  
or Stuck Off

**P0747**  
Pressure Control Solenoid "A" Stuck On

**P0748**  
Pressure Control Solenoid "A" Electrical

**P0749**  
Pressure Control Solenoid "A" Intermittent

**P0750**  
Shift Solenoid "A"

**P0751**  
Shift Solenoid "A" Performance or Stuck Off

**P0752**  
Shift Solenoid "A" Stuck On

**P0753**  
Shift Solenoid "A" Electrical

**P0754**  
Shift Solenoid "A" Intermittent

**P0755**  
Shift Solenoid "B"

**P0756**  
Shift Solenoid "B" Performance or Stuck Off

**P0757**  
Shift Solenoid "B" Stuck On

**P0758**  
Shift Solenoid "B" Electrical

**P0759**  
Shift Solenoid "B" Intermittent

**P0760**  
Shift Solenoid "C"

**P0761**  
Shift Solenoid "C" Performance or Stuck Off

**P0762**  
Shift Solenoid "C" Stuck On

**P0763**  
Shift Solenoid "C" Electrical

**P0764**  
Shift Solenoid "C" Intermittent

**P0765**  
Shift Solenoid "D"

**P0766**  
Shift Solenoid "D" Performance or Stuck Off

**P0767**  
Shift Solenoid "D" Stuck On

**P0768**  
Shift Solenoid "D" Electrical

**P0769**  
Shift Solenoid "D" Intermittent

**P0770**  
Shift Solenoid "E"

**P0771**  
Shift Solenoid "E" Performance or Stuck Off

**P0772**  
Shift Solenoid "E" Stuck On

**P0773**  
Shift Solenoid "E" Electrical

**P0774**  
Shift Solenoid "E" Intermittent

**P0775**  
Pressure Control Solenoid "B"

**P0776**  
Pressure Control Solenoid "B" Performance  
or Stuck off

**P0777**  
Pressure Control Solenoid "B" Stuck On

**P0778**  
Pressure Control Solenoid "B" Electrical

**P0779**  
Pressure Control Solenoid "B" Intermittent

**P0780**  
Shift Error

**P0781**  
1-2 Shift

**P0782**  
2-3 Shift

**P0783**  
3-4 Shift

**P0784**  
4-5 Shift

**P0785**  
Shift/Timing Solenoid

**P0786**  
Shift/Timing Solenoid Range/Performance

**P0787**  
Shift/Timing Solenoid Low

**P0788**  
Shift/Timing Solenoid High

**P0789**  
Shift/Timing Solenoid Intermittent

**P0790**

Normal/Performance Switch Circuit

**P0791**

Intermediate Shaft Speed Sensor "A" Circuit

**P0792**

Intermediate Shaft Speed Sensor "A" Circuit Range/Performance

**P0793**

Intermediate Shaft Speed Sensor "A" Circuit No Signal

**P0794**

Intermediate Shaft Speed Sensor "A" Circuit Intermittent

**P0795**

Pressure Control Solenoid "C"

**P0796**

Pressure Control Solenoid "C" Performance or Stuck off

**P0797**

Pressure Control Solenoid "C" Stuck On

**P0798**

Pressure Control Solenoid "C" Electrical

**P0799**

Pressure Control Solenoid "C" Intermittent

**P0800**

Transfer Case Control System (MIL Request)

**P0801**

Reverse Inhibit Control Circuit

**P0802**

Transmission Control System MIL Request Circuit/Open

**P0803**

1-4 Upshift (Skip Shift) Solenoid Control Circuit

**P0804**

1-4 Upshift (Skip Shift) Lamp Control Circuit

**P0805**

Clutch Position Sensor Circuit

**P0806**

Clutch Position Sensor Circuit Range/Performance

**P0807**

Clutch Position Sensor Circuit Low

**P0808**

Clutch Position Sensor Circuit High

**P0809**

Clutch Position Sensor Circuit Intermittent

**P0810**

Clutch Position Control Error

**P0811**

Excessive Clutch Slippage

**P0812**

Reverse Input Circuit

**P0813**

Reverse Output Circuit

**P0814**

Transmission Range Display Circuit

**P0815**

Upshift Switch Circuit

**P0816**

Downshift Switch Circuit

**P0817**

Starter Disable Circuit

**P0818**

Driveline Disconnect Switch Input Circuit

**P0819**

Up and Down Shift Switch to Transmission Range Correlation

**P0820**

Gear Lever X-Y Position Sensor Circuit

**P0821**

Gear Lever X Position Circuit

**P0822**

Gear Lever Y Position Circuit

**P0823**

Gear Lever X Position Circuit Intermittent

**P0824**

Gear Lever Y Position Circuit Intermittent

**P0825**

Gear Lever Push-Pull Switch (Shift Anticipate)

**P0826**

Up and Down Shift Switch Circuit

**P0827**

Up and Down Shift Switch Circuit Low

**P0828**

Up and Down Shift Switch Circuit High

**P0829**

5-6 Shift

**P0830**

Clutch Pedal Switch "A" Circuit

**P0831**

Clutch Pedal Switch "A" Circuit Low

**P0832**

Clutch Pedal Switch "A" Circuit High

**P0833**

Clutch Pedal Switch "B" Circuit

**P0834**

Clutch Pedal Switch "B" Circuit Low

**P0835**

Clutch Pedal Switch "B" Circuit High

**P0836**  
Four Wheel Drive (4WD) Switch Circuit

**P0837**  
Four Wheel Drive (4WD) Switch Circuit Range/Performance

**P0838**  
Four Wheel Drive (4WD) Switch Circuit Low

**P0839**  
Four Wheel Drive (4WD) Switch Circuit High

**P0840**  
Transmission Fluid Pressure Sensor/Switch "A" Circuit

**P0841**  
Transmission Fluid Pressure Sensor/Switch "A" Circuit Range/Performance

**P0842**  
Transmission Fluid Pressure Sensor/Switch "A" Circuit Low

**P0843**  
Transmission Fluid Pressure Sensor/Switch "A" Circuit High

**P0844**  
Transmission Fluid Pressure Sensor/Switch "A" Circuit Intermittent

**P0845**  
Transmission Fluid Pressure Sensor/Switch "B" Circuit

**P0846**  
Transmission Fluid Pressure Sensor/Switch "B" Circuit Range/Performance

**P0847**  
Transmission Fluid Pressure Sensor/Switch "B" Circuit Low

**P0848**  
Transmission Fluid Pressure Sensor/Switch "B" Circuit High

**P0849**  
Transmission Fluid Pressure Sensor/Switch "B" Circuit Intermittent

**P0850**  
Park/Neutral Switch Input Circuit

**P0851**  
Park/Neutral Switch Input Circuit Low

**P0852**  
Park/Neutral Switch Input Circuit High

**P0853**  
Drive Switch Input Circuit

**P0854**  
Drive Switch Input Circuit Low

**P0855**  
Drive Switch Input Circuit High

**P0856**  
Traction Control Input Signal

**P0857**  
Traction Control Input Signal Range/Performance

**P0858**  
Traction Control Input Signal Low

**P0859**  
Traction Control Input Signal High

**P0860**  
Gear Shift Module Communication Circuit

**P0861**  
Gear Shift Module Communication Circuit Low

**P0862**  
Gear Shift Module Communication Circuit High

**P0863**  
TCM Communication Circuit

**P0864**  
TCM Communication Circuit Range/Performance

**P0865**  
TCM Communication Circuit Low

**P0866**  
TCM Communication Circuit High

**P0867**  
Transmission Fluid Pressure

**P0868**  
Transmission Fluid Pressure Low

**P0869**  
Transmission Fluid Pressure High

**P0870**  
Transmission Fluid Pressure Sensor/Switch "C" Circuit

**P0871**  
Transmission Fluid Pressure Sensor/Switch "C" Circuit Range/Performance

**P0872**  
Transmission Fluid Pressure Sensor/Switch "C" Circuit Low

**P0873**  
Transmission Fluid Pressure Sensor/Switch "C" Circuit High

**P0874**  
Transmission Fluid Pressure Sensor/Switch "C" Circuit Intermittent

**P0875**  
Transmission Fluid Pressure Sensor/Switch "D" Circuit

**P0876**  
Transmission Fluid Pressure Sensor/Switch "D" Circuit Range/Performance

**P0877**

Transmission Fluid Pressure Sensor/Switch  
"D" Circuit Low

**P0878**

Transmission Fluid Pressure Sensor/Switch  
"D" Circuit High

**P0879**

Transmission Fluid Pressure Sensor/Switch  
"D" Circuit Intermittent

**P0880**

TCM Power Input Signal

**P0881**

TCM Power Input Signal  
Range/Performance

**P0882**

TCM Power Input Signal Low

**P0883**

TCM Power Input Signal High

**P0884**

TCM Power Input Signal Intermittent

**P0885**

TCM Power Relay Control Circuit/Open

**P0886**

TCM Power Relay Control Circuit Low

**P0887**

TCM Power Relay Control Circuit High

**P0888**

TCM Power Relay Sense Circuit

**P0889**

TCM Power Relay Sense Circuit  
Range/Performance

**P0890**

TCM Power Relay Sense Circuit Low

**P0891**

TCM Power Relay Sense Circuit High

**P0892**

TCM Power Relay Sense Circuit Intermittent

**P0893**

Multiple Gears Engaged

**P0894**

Transmission Component Slipping

**P0895**

Shift Time Too Short

**P0896**

Shift Time Too Long

**P0897**

Transmission Fluid Deteriorated

**P0898**

Transmission Control System MIL Request  
Circuit Low

**P0899**

Transmission Control System MIL Request  
Circuit High

**P0900**

Clutch Actuator Circuit/Open

**P0901**

Clutch Actuator Circuit Range/Performance

**P0902**

Clutch Actuator Circuit Low

**P0903**

Clutch Actuator Circuit High

**P0904**

Gate Select Position Circuit

**P0905**

Gate Select Position Circuit  
Range/Performance

**P0906**

Gate Select Position Circuit Low

**P0907**

Gate Select Position Circuit High

**P0908**

Gate Select Position Circuit Intermittent

**P0909**

Gate Select Control Error

**P0910**

Gate Select Actuator Circuit/Open

**P0911**

Gate Select Actuator Circuit  
Range/Performance

**P0912**

Gate Select Actuator Circuit Low

**P0913**

Gate Select Actuator Circuit High

**P0914**

Gear Shift Position Circuit

**P0915**

Gear Shift Position Circuit  
Range/Performance

**P0916**

Gear Shift Position Circuit Low

**P0917**

Gear Shift Position Circuit High

**P0918**

Gear Shift Position Circuit Intermittent

**P0919**

Gear Shift Position Control Error

**P0920**

Gear Shift Forward Actuator Circuit/Open

**P0921**

Gear Shift Forward Actuator Circuit  
Range/Performance

**P0922**  
Gear Shift Forward Actuator Circuit Low

**P0923**  
Gear Shift Forward Actuator Circuit High

**P0924**  
Gear Shift Reverse Actuator Circuit/Open

**P0925**  
Gear Shift Reverse Actuator Circuit  
Range/Performance

**P0926**  
Gear Shift Reverse Actuator Circuit Low

**P0927**  
Gear Shift Reverse Actuator Circuit High

**P0928**  
Gear Shift Lock Solenoid Control  
Circuit/Open

**P0929**  
Gear Shift Lock Solenoid Control Circuit  
Range/Performance

**P0930**  
Gear Shift Lock Solenoid Control Circuit Low

**P0931**  
Gear Shift Lock Solenoid Control Circuit  
High

**P0932**  
Hydraulic Pressure Sensor Circuit

**P0933**  
Hydraulic Pressure Sensor  
Range/Performance

**P0934**  
Hydraulic Pressure Sensor Circuit Low

**P0935**  
Hydraulic Pressure Sensor Circuit High

**P0936**  
Hydraulic Pressure Sensor Circuit  
Intermittent

**P0937**  
Hydraulic Oil Temperature Sensor Circuit

**P0938**  
Hydraulic Oil Temperature Sensor  
Range/Performance

**P0939**  
Hydraulic Oil Temperature Sensor Circuit  
Low

**P0940**  
Hydraulic Oil Temperature Sensor Circuit  
High

**P0941**  
Hydraulic Oil Temperature Sensor Circuit  
Intermittent

**P0942**  
Hydraulic Pressure Unit

**P0943**  
Hydraulic Pressure Unit Cycling Period Too  
Short

**P0944**  
Hydraulic Pressure Unit Loss of Pressure

**P0945**  
Hydraulic Pump Relay Circuit/Open

**P0946**  
Hydraulic Pump Relay Circuit  
Range/Performance

**P0947**  
Hydraulic Pump Relay Circuit Low

**P0948**  
Hydraulic Pump Relay Circuit High

**P0949**  
Auto Shift Manual Adaptive Learning Not  
Complete

**P0950**  
Auto Shift Manual Control Circuit

**P0951**  
Auto Shift Manual Control Circuit  
Range/Performance

**P0952**  
Auto Shift Manual Control Circuit Low

**P0953**  
Auto Shift Manual Control Circuit High

**P0954**  
Auto Shift Manual Control Circuit Intermittent

**P0955**  
Auto Shift Manual Mode Circuit

**P0956**  
Auto Shift Manual Mode Circuit  
Range/Performance

**P0957**  
Auto Shift Manual Mode Circuit Low

**P0958**  
Auto Shift Manual Mode Circuit High

**P0959**  
Auto Shift Manual Mode Circuit Intermittent

**P0960**  
Pressure Control Solenoid "A" Control  
Circuit/Open

**P0961**  
Pressure Control Solenoid "A" Control  
Circuit Range/Performance

**P0962**  
Pressure Control Solenoid "A" Control  
Circuit Low

**P0963**  
Pressure Control Solenoid "A" Control  
Circuit High

**P0964**  
Pressure Control Solenoid "B" Control  
Circuit/Open

**P0965**  
Pressure Control Solenoid "B" Control  
Circuit Range/Performance

**P0966**  
Pressure Control Solenoid "B" Control  
Circuit Low

**P0967**  
Pressure Control Solenoid "B" Control  
Circuit High

**P0968**  
Pressure Control Solenoid "C" Control  
Circuit/Open

**P0969**  
Pressure Control Solenoid "C" Control  
Circuit Range/Performance

**P0970**  
Pressure Control Solenoid "C" Control  
Circuit Low

**P0971**  
Pressure Control Solenoid "C" Control  
Circuit High

**P0972**  
Shift Solenoid "A" Control Circuit  
Range/Performance

**P0973**  
Shift Solenoid "A" Control Circuit Low

**P0974**  
Shift Solenoid "A" Control Circuit High

**P0975**  
Shift Solenoid "B" Control Circuit  
Range/Performance

**P0976**  
Shift Solenoid "B" Control Circuit Low

**P0977**  
Shift Solenoid "B" Control Circuit High

**P0978**  
Shift Solenoid "C" Control Circuit  
Range/Performance

**P0979**  
Shift Solenoid "C" Control Circuit Low

**P0980**  
Shift Solenoid "C" Control Circuit High

**P0981**  
Shift Solenoid "D" Control Circuit  
Range/Performance

**P0982**  
Shift Solenoid "D" Control Circuit Low

**P0983**  
Shift Solenoid "D" Control Circuit High

**P0984**  
Shift Solenoid "E" Control Circuit  
Range/Performance

**P0985**  
Shift Solenoid "E" Control Circuit Low

**P0986**  
Shift Solenoid "E" Control Circuit High

**P0987**  
Transmission Fluid Pressure Sensor/Switch  
"E" Circuit

**P0988**  
Transmission Fluid Pressure Sensor/Switch  
"E" Circuit Range/Performance

**P0989**  
Transmission Fluid Pressure Sensor/Switch  
"E" Circuit Low

**P0990**  
Transmission Fluid Pressure Sensor/Switch  
"E" Circuit High

**P0991**  
Transmission Fluid Pressure Sensor/Switch  
"E" Circuit Intermittent

**P0992**  
Transmission Fluid Pressure Sensor/Switch  
"F" Circuit

**P0993**  
Transmission Fluid Pressure Sensor/Switch  
"F" Circuit Range/Performance

**P0994**  
Transmission Fluid Pressure Sensor/Switch  
"F" Circuit Low

**P0995**  
Transmission Fluid Pressure Sensor/Switch  
"F" Circuit High

**P0996**  
Transmission Fluid Pressure Sensor/Switch  
"F" Circuit Intermittent

**P0997**  
Shift Solenoid "F" Control Circuit  
Range/Performance

**P0998**  
Shift Solenoid "F" Control Circuit Low

**P0A00**  
Motor Electronics Coolant Temperature  
Sensor Circuit

**P0A01**  
Motor Electronics Coolant Temperature  
Sensor Circuit Range/Performance

**P0A02**  
Motor Electronics Coolant Temperature  
Sensor Circuit Low

**P0A03**  
Motor Electronics Coolant Temperature  
Sensor Circuit High



**P0A04**  
Motor Electronics Coolant Temperature Sensor Circuit Intermittent

**P0A05**  
Motor Electronics Coolant Pump Control Circuit/Open

**P0A06**  
Motor Electronics Coolant Pump Control Circuit Low

**P0A07**  
Motor Electronics Coolant Pump Control Circuit High

**P0A08**  
DC/DC Converter Status Circuit

**P0A09**  
DC/DC Converter Status Circuit Low Input

**P0A10**  
DC/DC Converter Status Circuit High Input

**P0A11**  
DC/DC Converter Enable Circuit/Open

**P0A12**  
DC/DC Converter Enable Circuit Low

**P0A13**  
DC/DC Converter Enable Circuit High

**P0A14**  
Engine Mount Control Circuit/Open

**P0A15**  
Engine Mount Control Circuit Low

**P0A16**  
Engine Mount Control Circuit High

**P0A17**  
Motor Torque Sensor Circuit

**P0A18**  
Motor Torque Sensor Circuit Range/Performance

**P0A19**  
Motor Torque Sensor Circuit Low

**P0A20**  
Motor Torque Sensor Circuit High

**P0A21**  
Motor Torque Sensor Circuit Intermittent

**P0A22**  
Generator Torque Sensor Circuit

**P0A23**  
Generator Torque Sensor Circuit Range/Performance

**P0A24**  
Generator Torque Sensor Circuit Low

**P0A25**  
Generator Torque Sensor Circuit High

**P0A26**  
Generator Torque Sensor Circuit Intermittent

**P0A27**  
Battery Power Off Circuit

**P0A28**  
Battery Power Off Circuit Low

**P0A29**  
Battery Power Off Circuit High

**P2000**  
NOx Trap Efficiency Below Threshold (Bank 1)

**P2001**  
NOx Trap Efficiency Below Threshold (Bank 2)

**P2002**  
Particulate Trap Efficiency Below Threshold (Bank 1)

**P2003**  
Particulate Trap Efficiency Below Threshold (Bank 2)

**P2004**  
Intake Manifold Runner Control Stuck Open (Bank 1)

**P2005**  
Intake Manifold Runner Control Stuck Open (Bank 2)

**P2006**  
Intake Manifold Runner Control Stuck Closed (Bank 1)

**P2007**  
Intake Manifold Runner Control Stuck Closed (Bank 2)

**P2008**  
Intake Manifold Runner Control Circuit/Open (Bank 1)

**P2009**  
Intake Manifold Runner Control Circuit Low (Bank 1)

**P2010**  
Intake Manifold Runner Control Circuit High (Bank 1)

**P2011**  
Intake Manifold Runner Control Circuit/Open (Bank 2)

**P2012**  
Intake Manifold Runner Control Circuit Low (Bank 2)

**P2013**  
Intake Manifold Runner Control Circuit High (Bank 2)

**P2014**  
Intake Manifold Runner Position Sensor/Switch Circuit (Bank 1)

**P2015**

Intake Manifold Runner Position  
Sensor/Switch Circuit Range/Performance  
(Bank 1)

**P2016**

Intake Manifold Runner Position  
Sensor/Switch Circuit Low (Bank 1)

**P2017**

Intake Manifold Runner Position  
Sensor/Switch Circuit High (Bank 1)

**P2018**

Intake Manifold Runner Position  
Sensor/Switch Circuit Intermittent (Bank 1)

**P2019**

Intake Manifold Runner Position  
Sensor/Switch Circuit (Bank 2)

**P2020**

Intake Manifold Runner Position  
Sensor/Switch Circuit Range/Performance  
(Bank 2)

**P2021**

Intake Manifold Runner Position  
Sensor/Switch Circuit Low (Bank 2)

**P2022**

Intake Manifold Runner Position  
Sensor/Switch Circuit High (Bank 2)

**P2023**

Intake Manifold Runner Position  
Sensor/Switch Circuit Intermittent (Bank 2)

**P2024**

Evaporative Emissions (EVAP) Fuel Vapor  
Temperature Sensor Circuit

**P2025**

Evaporative Emissions (EVAP) Fuel Vapor  
Temperature Sensor Performance

**P2026**

Evaporative Emissions (EVAP) Fuel Vapor  
Temperature Sensor Circuit Low Voltage

**P2027**

Evaporative Emissions (EVAP) Fuel Vapor  
Temperature Sensor Circuit High Voltage

**P2028**

Evaporative Emissions (EVAP) Fuel Vapor  
Temperature Sensor Circuit Intermittent

**P2029**

Fuel Fired Heater Disabled

**P2030**

Fuel Fired Heater Performance

**P2031**

Exhaust Gas Temperature Sensor Circuit  
(Bank 1 Sensor 2)

**P2032**

Exhaust Gas Temperature Sensor Circuit  
Low (Bank 1 Sensor 2)

**P2033**

Exhaust Gas Temperature Sensor Circuit  
High (Bank 1 Sensor 2)

**P2034**

Exhaust Gas Temperature Sensor Circuit  
(Bank 2 Sensor 2)

**P2035**

Exhaust Gas Temperature Sensor Circuit  
Low (Bank 2 Sensor 2)

**P2036**

Exhaust Gas Temperature Sensor Circuit  
High (Bank 2 Sensor 2)

**P2037**

Reductant Injection Air Pressure Sensor  
Circuit

**P2038**

Reductant Injection Air Pressure Sensor  
Circuit Range/Performance

**P2039**

Reductant Injection Air Pressure Sensor  
Circuit Low Input

**P2040**

Reductant Injection Air Pressure Sensor  
Circuit High Input

**P2041**

Reductant Injection Air Pressure Sensor  
Circuit Intermittent

**P2042**

Reductant Temperature Sensor Circuit

**P2043**

Reductant Temperature Sensor Circuit  
Range/Performance

**P2044**

Reductant Temperature Sensor Circuit Low  
Input

**P2045**

Reductant Temperature Sensor Circuit High  
Input

**P2046**

Reductant Temperature Sensor Circuit  
Intermittent

**P2047**

Reductant Injector Circuit/Open (Bank 1  
Unit 1)

**P2048**

Reductant Injector Circuit Low (Bank 1 Unit  
1)

**P2049**

Reductant Injector Circuit High (Bank 1 Unit  
1)

**P2050**

Reductant Injector Circuit/Open (Bank 2  
Unit 1)

**P2051**  
Reductant Injector Circuit Low (Bank 2 Unit 1)

**P2052**  
Reductant Injector Circuit High (Bank 2 Unit 1)

**P2053**  
Reductant Injector Circuit/Open (Bank 1 Unit 2)

**P2054**  
Reductant Injector Circuit Low (Bank 1 Unit 2)

**P2055**  
Reductant Injector Circuit High (Bank 1 Unit 2)

**P2056**  
Reductant Injector Circuit/Open (Bank 2 Unit 2)

**P2057**  
Reductant Injector Circuit Low (Bank 2 Unit 2)

**P2058**  
Reductant Injector Circuit High (Bank 2 Unit 2)

**P2059**  
Reductant Injection Air Pump Control Circuit/Open

**P2060**  
Reductant Injection Air Pump Control Circuit Low

**P2061**  
Reductant Injection Air Pump Control Circuit High

**P2062**  
Reductant Supply Control Circuit/Open

**P2063**  
Reductant Supply Control Circuit Low

**P2064**  
Reductant Supply Control Circuit High

**P2065**  
Fuel Level Sensor "B" Circuit

**P2066**  
Fuel Level Sensor "B" Performance

**P2067**  
Fuel Level Sensor "B" Circuit Low

**P2068**  
Fuel Level Sensor "B" Circuit High

**P2069**  
Fuel Level Sensor "B" Circuit Intermittent

**P2070**  
Intake Manifold Tuning (IMT) Valve Stuck Open

**P2071**  
Intake Manifold Tuning (IMT) Valve Stuck Closed

**P2075**  
Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit

**P2076**  
Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Range/Performance

**P2077**  
Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Low

**P2078**  
Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit High

**P2079**  
Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Intermittent

**P2080**  
Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)

**P2081**  
Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 1)

**P2082**  
Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 1)

**P2083**  
Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 2 Sensor 1)

**P2084**  
Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)

**P2085**  
Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 2)

**P2086**  
Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 2 Sensor 2)

**P2087**  
Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 2 Sensor 2)

**P2088**  
A Camshaft Position Actuator Control Circuit Low (Bank 1)

**P2089**  
A Camshaft Position Actuator Control Circuit High (Bank 1)

**P2090**  
B Camshaft Position Actuator Control Circuit Low (Bank 1)

**P2091**  
B Camshaft Position Actuator Control Circuit High (Bank 1)

**P2092**

A Camshaft Position Actuator Control Circuit Low (Bank 2)

**P2093**

A Camshaft Position Actuator Control Circuit High (Bank 2)

**P2094**

B Camshaft Position Actuator Control Circuit Low (Bank 2)

**P2095**

B Camshaft Position Actuator Control Circuit High (Bank 2)

**P2096**

Post Catalyst Fuel Trim System Too Lean (Bank 1)

**P2097**

Post Catalyst Fuel Trim System Too Rich (Bank 1)

**P2098**

Post Catalyst Fuel Trim System Too Lean (Bank 2)

**P2099**

Post Catalyst Fuel Trim System Too Rich (Bank 2)

**P2100**

Throttle Actuator Control Motor Circuit/Open

**P2101**

Throttle Actuator Control Motor Circuit Range/Performance

**P2102**

Throttle Actuator Control Motor Circuit Low

**P2103**

Throttle Actuator Control Motor Circuit High

**P2104**

Throttle Actuator Control System - Forced Idle

**P2105**

Throttle Actuator Control System - Forced Engine Shutdown

**P2106**

Throttle Actuator Control System - Forced Limited Power

**P2107**

Throttle Actuator Control Module Processor

**P2108**

Throttle Actuator Control Module Performance

**P2109**

Throttle/Pedal Position Sensor "A" Minimum Stop Performance

**P2110**

Throttle Actuator Control System - Forced Limited RPM

**P2111**

Throttle Actuator Control System - Stuck Open

**P2112**

Throttle Actuator Control System - Stuck Closed

**P2113**

Throttle/Pedal Position Sensor "B" Minimum Stop Performance

**P2114**

Throttle/Pedal Position Sensor "C" Minimum Stop Performance

**P2115**

Throttle/Pedal Position Sensor "D" Minimum Stop Performance

**P2116**

Throttle/Pedal Position Sensor "E" Minimum Stop Performance

**P2117**

Throttle/Pedal Position Sensor "F" Minimum Stop Performance

**P2118**

Throttle Actuator Control Motor Current Range/Performance

**P2119**

Throttle Actuator Control Throttle Body Range/Performance

**P2120**

Throttle/Pedal Position Sensor/Switch "D" Circuit

**P2121**

Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance

**P2122**

Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input

**P2123**

Throttle/Pedal Position Sensor/Switch "D" Circuit High Input

**P2124**

Throttle/Pedal Position Sensor/Switch "D" Circuit Intermittent

**P2125**

Throttle/Pedal Position Sensor/Switch "E" Circuit

**P2126**

Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance

**P2127**

Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input

**P2128**

Throttle/Pedal Position Sensor/Switch "E" Circuit High Input

**P2129**  
Throttle/Pedal Position Sensor/Switch "E"  
Circuit Intermittent

**P2130**  
Throttle/Pedal Position Sensor/Switch "F"  
Circuit

**P2131**  
Throttle/Pedal Position Sensor/Switch "F"  
Circuit Range Performance

**P2132**  
Throttle/Pedal Position Sensor/Switch "F"  
Circuit Low Input

**P2133**  
Throttle/Pedal Position Sensor/Switch "F"  
Circuit High Input

**P2134**  
Throttle/Pedal Position Sensor/Switch "F"  
Circuit Intermittent

**P2135**  
Throttle/Pedal Position Sensor/Switch "A" /  
"B" Voltage Correlation

**P2136**  
Throttle/Pedal Position Sensor/Switch "A" /  
"C" Voltage Correlation

**P2137**  
Throttle/Pedal Position Sensor/Switch "B" /  
"C" Voltage Correlation

**P2138**  
Throttle/Pedal Position Sensor/Switch "D" /  
"E" Voltage Correlation

**P2139**  
Throttle/Pedal Position Sensor/Switch "D" /  
"F" Voltage Correlation

**P2140**  
Throttle/Pedal Position Sensor/Switch "E" /  
"F" Voltage Correlation

**P2141**  
Exhaust Gas Recirculation Throttle Control  
Circuit Low

**P2142**  
Exhaust Gas Recirculation Throttle Control  
Circuit High

**P2143**  
Exhaust Gas Recirculation Vent Control  
Circuit/Open

**P2144**  
Exhaust Gas Recirculation Vent Control  
Circuit Low

**P2145**  
Exhaust Gas Recirculation Vent Control  
Circuit High

**P2146**  
Fuel Injector Group "A" Supply Voltage  
Circuit/Open

**P2147**  
Fuel Injector Group "A" Supply Voltage  
Circuit Low

**P2148**  
Fuel Injector Group "A" Supply Voltage  
Circuit High

**P2149**  
Fuel Injector Group "B" Supply Voltage  
Circuit/Open

**P2150**  
Fuel Injector Group "B" Supply Voltage  
Circuit Low

**P2151**  
Fuel Injector Group "B" Supply Voltage  
Circuit High

**P2152**  
Fuel Injector Group "C" Supply Voltage  
Circuit/Open

**P2153**  
Fuel Injector Group "C" Supply Voltage  
Circuit Low

**P2154**  
Fuel Injector Group "C" Supply Voltage  
Circuit High

**P2155**  
Fuel Injector Group "D" Supply Voltage  
Circuit/Open

**P2156**  
Fuel Injector Group "D" Supply Voltage  
Circuit Low

**P2157**  
Fuel Injector Group "D" Supply Voltage  
Circuit High

**P2158**  
Vehicle Speed Sensor "B"

**P2159**  
Vehicle Speed Sensor "B"  
Range/Performance

**P2160**  
Vehicle Speed Sensor "B" Circuit Low

**P2161**  
Vehicle Speed Sensor "B" Intermittent/Erratic

**P2162**  
Vehicle Speed Sensor "A" / "B" Correlation

**P2163**  
Throttle/Pedal Position Sensor "A" Maximum  
Stop Performance

**P2164**  
Throttle/Pedal Position Sensor "B" Maximum  
Stop Performance

**P2165**  
Throttle/Pedal Position Sensor "C" Maximum  
Stop Performance

**P2166**  
Throttle/Pedal Position Sensor "D" Maximum Stop Performance

**P2167**  
Throttle/Pedal Position Sensor "E" Maximum Stop Performance

**P2168**  
Throttle/Pedal Position Sensor "F" Maximum Stop Performance

**P2169**  
Exhaust Pressure Regulator Vent Solenoid Control Circuit/Open

**P2170**  
Exhaust Pressure Regulator Vent Solenoid Control Circuit Low

**P2171**  
Exhaust Pressure Regulator Vent Solenoid Control Circuit High

**P2172**  
Throttle Actuator Control System – Sudden High Airflow Detected

**P2173**  
Throttle Actuator Control System – High Airflow Detected

**P2174**  
Throttle Actuator Control System – Sudden Low Airflow Detected

**P2175**  
Throttle Actuator Control System – Low Airflow Detected

**P2176**  
Throttle Actuator Control System – Idle Position Not Learned

**P2177**  
System Too Lean Off Idle (Bank 1)

**P2178**  
System Too Rich Off Idle (Bank 1)

**P2179**  
System Too Lean Off Idle (Bank 2)

**P2180**  
System Too Rich Off Idle (Bank 2)

**P2181**  
Cooling System Performance

**P2182**  
Engine Coolant Temperature Sensor 2 Circuit

**P2183**  
Engine Coolant Temperature Sensor 2 Circuit Range/Performance

**P2184**  
Engine Coolant Temperature Sensor 2 Circuit Low

**P2185**  
Engine Coolant Temperature Sensor 2 Circuit High

**P2186**  
Engine Coolant Temperature Sensor 2 Circuit Intermittent/Erratic

**P2187**  
System Too Lean at Idle (Bank 1)

**P2188**  
System Too Rich at Idle (Bank 1)

**P2189**  
System Too Lean at Idle (Bank 2)

**P2190**  
System Too Rich at Idle (Bank 2)

**P2191**  
System Too Lean at Higher Load (Bank 1)

**P2192**  
System Too Rich at Higher Load (Bank 1)

**P2193**  
System Too Lean at Higher Load (Bank 2)

**P2194**  
System Too Rich at Higher Load (Bank 2)

**P2195**  
O2 Sensor Signal Stuck Lean (Bank 1 Sensor 1)

**P2196**  
O2 Sensor Signal Stuck Rich (Bank 1 Sensor 1)

**P2197**  
O2 Sensor Signal Stuck Lean (Bank 2 Sensor 1)

**P2198**  
O2 Sensor Signal Stuck Rich (Bank 2 Sensor 1)

**P2199**  
Intake Air Temperature Sensor 1 / 2 Correlation

**P2200**  
NOx Sensor Circuit (Bank 1)

**P2201**  
NOx Sensor Circuit Range/Performance (Bank 1)

**P2202**  
NOx Sensor Circuit Low Input (Bank 1)

**P2203**  
NOx Sensor Circuit High Input (Bank 1)

**P2204**  
NOx Sensor Circuit Intermittent Input (Bank 1)

**P2205**  
NOx Sensor Heater Control Circuit/Open (Bank 1)

**P2206**  
NOx Sensor Heater Control Circuit Low  
(Bank 1)

**P2207**  
NOx Sensor Heater Control Circuit High  
(Bank 1)

**P2208**  
NOx Sensor Heater Sense Circuit (Bank 1)

**P2209**  
NOx Sensor Heater Sense Circuit  
Range/Performance (Bank 1)

**P2210**  
NOx Sensor Heater Sense Circuit Low Input  
(Bank 1)

**P2211**  
NOx Sensor Heater Sense Circuit High Input  
(Bank 1)

**P2212**  
NOx Sensor Heater Sense Circuit  
Intermittent (Bank 1)

**P2213**  
NOx Sensor Circuit (Bank 2)

**P2214**  
NOx Sensor Circuit Range/Performance  
(Bank 2)

**P2215**  
NOx Sensor Circuit Low Input (Bank 2)

**P2216**  
NOx Sensor Circuit High Input (Bank 2)

**P2217**  
NOx Sensor Circuit Intermittent Input (Bank  
2)

**P2218**  
NOx Sensor Heater Control Circuit/Open  
(Bank 2)

**P2219**  
NOx Sensor Heater Control Circuit Low  
(Bank 2)

**P2220**  
NOx Sensor Heater Control Circuit High  
(Bank 2)

**P2221**  
NOx Sensor Heater Sense Circuit (Bank 2)

**P2222**  
NOx Sensor Heater Sense Circuit  
Range/Performance (Bank 2)

**P2223**  
NOx Sensor Heater Sense Circuit Low  
(Bank 2)

**P2224**  
NOx Sensor Heater Sense Circuit High  
(Bank 2)

**P2225**  
NOx Sensor Heater Sense Circuit  
Intermittent (Bank 2)

**P2226**  
Barometric Pressure Circuit

**P2227**  
Barometric Pressure Circuit  
Range/Performance

**P2228**  
Barometric Pressure Circuit Low

**P2229**  
Barometric Pressure Circuit High

**P2230**  
Barometric Pressure Circuit Intermittent

**P2231**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 1 Sensor 1)

**P2232**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 1 Sensor 2)

**P2233**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 1 Sensor 3)

**P2234**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 2 Sensor 1)

**P2235**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 2 Sensor 2)

**P2236**  
O2 Sensor Signal Circuit Shorted to Heater  
Circuit (Bank 2 Sensor 3)

**P2237**  
O2 Sensor Positive Current Circuit/Open  
(Bank 1 Sensor 1)

**P2238**  
O2 Sensor Positive Current Circuit Low  
(Bank 1 Sensor 1)

**P2239**  
O2 Sensor Positive Current Circuit High  
(Bank 1 Sensor 1)

**P2240**  
O2 Sensor Positive Current Circuit/Open  
(Bank 2 Sensor 1)

**P2241**  
O2 Sensor Positive Current Circuit Low  
(Bank 2 Sensor 1)

**P2242**  
O2 Sensor Positive Current Circuit High  
(Bank 2 Sensor 1)

**P2243**  
O2 Sensor Reference Voltage Circuit/Open  
(Bank 1 Sensor 1)

**P2244**

O2 Sensor Reference Voltage Performance  
(Bank 1 Sensor 1)

**P2245**

O2 Sensor Reference Voltage Circuit Low  
(Bank 1 Sensor 1)

**P2246**

O2 Sensor Reference Voltage Circuit High  
(Bank 1 Sensor 1)

**P2247**

O2 Sensor Reference Voltage Circuit/Open  
(Bank 2 Sensor 1)

**P2248**

O2 Sensor Reference Voltage Performance  
(Bank 2 Sensor 1)

**P2249**

O2 Sensor Reference Voltage Circuit Low  
(Bank 2 Sensor 1)

**P2250**

O2 Sensor Reference Voltage Circuit High  
(Bank 2 Sensor 1)

**P2251**

O2 Sensor Negative Current Control  
Circuit/Open (Bank 1 Sensor 1)

**P2252**

O2 Sensor Negative Current Control Circuit  
Low (Bank 1 Sensor 1)

**P2253**

O2 Sensor Negative Current Control Circuit  
High (Bank 1 Sensor 1)

**P2254**

O2 Sensor Negative Current Control  
Circuit/Open (Bank 2 Sensor 1)

**P2255**

O2 Sensor Negative Current Control Circuit  
Low (Bank 2 Sensor 1)

**P2256**

O2 Sensor Negative Current Control Circuit  
High (Bank 2 Sensor 1)

**P2257**

Secondary Air Injection System Control "A"  
Circuit Low

**P2258**

Secondary Air Injection System Control "A"  
Circuit High

**P2259**

Secondary Air Injection System Control "B"  
Circuit Low

**P2260**

Secondary Air Injection System Control "B"  
Circuit High

**P2261**

Turbo/Super Charger Bypass Valve -  
Mechanical

**P2262**

Turbo Boost Pressure Not Detected -  
Mechanical

**P2263**

Turbo/Super Charger Boost System  
Performance

**P2264**

Water in Fuel Sensor Circuit

**P2265**

Water in Fuel Sensor Circuit  
Range/Performance

**P2266**

Water in Fuel Sensor Circuit Low

**P2267**

Water in Fuel Sensor Circuit High

**P2268**

Water in Fuel Sensor Circuit Intermittent

**P2269**

Water in Fuel Condition

**P2270**

O2 Sensor Signal Stuck Lean (Bank 1  
Sensor 2)

**P2271**

O2 Sensor Signal Stuck Rich (Bank 1  
Sensor 2)

**P2272**

O2 Sensor Signal Stuck Lean (Bank 2  
Sensor 2)

**P2273**

O2 Sensor Signal Stuck Rich (Bank 2  
Sensor 2)

**P2274**

O2 Sensor Signal Stuck Lean (Bank 1  
Sensor 3)

**P2275**

O2 Sensor Signal Stuck Rich (Bank 1  
Sensor 3)

**P2276**

O2 Sensor Signal Stuck Lean (Bank 2  
Sensor 3)

**P2277**

O2 Sensor Signal Stuck Rich (Bank 2  
Sensor 3)

**P2278**

O2 Sensor Signals Swapped Bank 1 Sensor  
3 / Bank 2 Sensor 3

**P2279**

Intake Air System Leak

**P2280**

Air Flow Restriction / Air Leak Between Air  
Filter and MAF

**P2281**

Air Leak Between MAF and Throttle Body



**P2282**  
Air Leak Between Throttle Body and Intake Valves

**P2283**  
Injector Control Pressure Sensor Circuit

**P2284**  
Injector Control Pressure Sensor Circuit Range/Performance

**P2285**  
Injector Control Pressure Sensor Circuit Low

**P2286**  
Injector Control Pressure Sensor Circuit High

**P2287**  
Injector Control Pressure Sensor Circuit Intermittent

**P2288**  
Injector Control Pressure Too High

**P2289**  
Injector Control Pressure Too High – Engine Off

**P2290**  
Injector Control Pressure Too Low

**P2291**  
Injector Control Pressure Too Low – Engine Cranking

**P2292**  
Injector Control Pressure Erratic

**P2293**  
Fuel Pressure Regulator 2 Performance

**P2294**  
Fuel Pressure Regulator 2 Control Circuit

**P2295**  
Fuel Pressure Regulator 2 Control Circuit Low

**P2296**  
Fuel Pressure Regulator 2 Control Circuit High

**P2297**  
O2 Sensor Out of Range During Deceleration (Bank 1 Sensor 1)

**P2298**  
O2 Sensor Out of Range During Deceleration (Bank 2 Sensor 1)

**P2299**  
Brake Pedal Position / Accelerator Pedal Position Incompatible

**P2300**  
Ignition Coil "A" Primary Control Circuit Low

**P2301**  
Ignition Coil "A" Primary Control Circuit High

**P2302**  
Ignition Coil "A" Secondary Circuit

**P2303**  
Ignition Coil "B" Primary Control Circuit Low

**P2304**  
Ignition Coil "B" Primary Control Circuit High

**P2305**  
Ignition Coil "B" Secondary Circuit

**P2306**  
Ignition Coil "C" Primary Control Circuit Low

**P2307**  
Ignition Coil "C" Primary Control Circuit High

**P2308**  
Ignition Coil "C" Secondary Circuit

**P2309**  
Ignition Coil "D" Primary Control Circuit Low

**P2310**  
Ignition Coil "D" Primary Control Circuit High

**P2311**  
Ignition Coil "D" Secondary Circuit

**P2312**  
Ignition Coil "E" Primary Control Circuit Low

**P2313**  
Ignition Coil "E" Primary Control Circuit High

**P2314**  
Ignition Coil "E" Secondary Circuit

**P2315**  
Ignition Coil "F" Primary Control Circuit Low

**P2316**  
Ignition Coil "F" Primary Control Circuit High

**P2317**  
Ignition Coil "F" Secondary Circuit

**P2318**  
Ignition Coil "G" Primary Control Circuit Low

**P2319**  
Ignition Coil "G" Primary Control Circuit High

**P2320**  
Ignition Coil "G" Secondary Circuit

**P2321**  
Ignition Coil "H" Primary Control Circuit Low

**P2322**  
Ignition Coil "H" Primary Control Circuit High

**P2323**  
Ignition Coil "H" Secondary Circuit

**P2324**  
Ignition Coil "I" Primary Control Circuit Low

**P2325**  
Ignition Coil "I" Primary Control Circuit High

**P2326**  
Ignition Coil "I" Secondary Circuit

**P2327**  
Ignition Coil "J" Primary Control Circuit Low

**P2328**  
Ignition Coil "J" Primary Control Circuit High

**P2329**  
Ignition Coil "J" Secondary Circuit

**P2330**  
Ignition Coil "K" Primary Control Circuit Low

**P2331**  
Ignition Coil "K" Primary Control Circuit High

**P2332**  
Ignition Coil "K" Secondary Circuit

**P2333**  
Ignition Coil "L" Primary Control Circuit Low

**P2334**  
Ignition Coil "L" Primary Control Circuit High

**P2335**  
Ignition Coil "L" Secondary Circuit

**P2336**  
Cylinder #1 Above Knock Threshold

**P2337**  
Cylinder #2 Above Knock Threshold

**P2338**  
Cylinder #3 Above Knock Threshold

**P2339**  
Cylinder #4 Above Knock Threshold

**P2340**  
Cylinder #5 Above Knock Threshold

**P2341**  
Cylinder #6 Above Knock Threshold

**P2342**  
Cylinder #7 Above Knock Threshold

**P2343**  
Cylinder #8 Above Knock Threshold

**P2344**  
Cylinder #9 Above Knock Threshold

**P2345**  
Cylinder #10 Above Knock Threshold

**P2346**  
Cylinder #11 Above Knock Threshold

**P2347**  
Cylinder #12 Above Knock Threshold

**P2400**  
Evaporative Emission System Leak  
Detection Pump Control Circuit/Open

**P2401**  
Evaporative Emission System Leak  
Detection Pump Control Circuit Low

**P2402**  
Evaporative Emission System Leak  
Detection Pump Control Circuit High

**P2403**  
Evaporative Emission System Leak  
Detection Pump Sense Circuit/Open

**P2404**  
Evaporative Emission System Leak  
Detection Pump Sense Circuit  
Range/Performance

**P2405**  
Evaporative Emission System Leak  
Detection Pump Sense Circuit Low

**P2406**  
Evaporative Emission System Leak  
Detection Pump Sense Circuit High

**P2407**  
Evaporative Emission System Leak  
Detection Pump Sense Circuit  
Intermittent/Erratic

**P2408**  
Fuel Cap Sensor/Switch Circuit

**P2409**  
Fuel Cap Sensor/Switch Circuit  
Range/Performance

**P2410**  
Fuel Cap Sensor/Switch Circuit Low

**P2411**  
Fuel Cap Sensor/Switch Circuit High

**P2412**  
Fuel Cap Sensor/Switch Circuit  
Intermittent/Erratic

**P2413**  
Exhaust Gas Recirculation System  
Performance

**P2414**  
O2 Sensor Exhaust Sample Error (Bank 1  
Sensor 1)

**P2415**  
O2 Sensor Exhaust Sample Error (Bank 2  
Sensor 1)

**P2416**  
O2 Sensor Signals Swapped Bank 1 Sensor  
2 / Bank 1 Sensor 3

**P2417**  
O2 Sensor Signals Swapped Bank 2 Sensor  
2 / Bank 2 Sensor 3

**P2418**  
Evaporative Emission System Switching  
Valve Control Circuit /Open

**P2419**  
Evaporative Emission System Switching  
Valve Control Circuit Low

**P2420**  
Evaporative Emission System Switching  
Valve Control Circuit High

**P2421**  
Evaporative Emission System Vent Valve  
Stuck Open

**P2422**  
Evaporative Emission System Vent Valve  
Stuck Closed

**P2423**  
HC Adsorption Catalyst Efficiency Below  
Threshold (Bank 1)

**P2424**  
HC Adsorption Catalyst Efficiency Below  
Threshold (Bank 2)

**P2500**  
Generator Lamp/L-Terminal Circuit Low

**P2501**  
Generator Lamp/L-Terminal Circuit High

**P2502**  
Charging System Voltage

**P2503**  
Charging System Voltage Low

**P2504**  
Charging System Voltage High

**P2505**  
ECM/PCM Power Input Signal

**P2506**  
ECM/PCM Power Input Signal  
Range/Performance

**P2507**  
ECM/PCM Power Input Signal Low

**P2508**  
ECM/PCM Power Input Signal High

**P2509**  
ECM/PCM Power Input Signal Intermittent

**P2510**  
ECM/PCM Power Relay Sense Circuit  
Range/Performance

**P2511**  
ECM/PCM Power Relay Sense Circuit  
Intermittent

**P2512**  
Event Data Recorder Request Circuit/ Open

**P2513**  
Event Data Recorder Request Circuit Low

**P2514**  
Event Data Recorder Request Circuit High

**P2515**  
A/C Refrigerant Pressure Sensor "B" Circuit

**P2516**  
A/C Refrigerant Pressure Sensor "B" Circuit  
Range/Performance

**P2517**  
A/C Refrigerant Pressure Sensor "B" Circuit  
Low

**P2518**  
A/C Refrigerant Pressure Sensor "B" Circuit  
High

**P2519**  
A/C Request "A" Circuit

**P2520**  
A/C Request "A" Circuit Low

**P2521**  
A/C Request "A" Circuit High

**P2522**  
A/C Request "B" Circuit

**P2523**  
A/C Request "B" Circuit Low

**P2524**  
A/C Request "B" Circuit High

**P2525**  
Vacuum Reservoir Pressure Sensor Circuit

**P2526**  
Vacuum Reservoir Pressure Sensor Circuit  
Range/Performance

**P2527**  
Vacuum Reservoir Pressure Sensor Circuit  
Low

**P2528**  
Vacuum Reservoir Pressure Sensor Circuit  
High

**P2529**  
Vacuum Reservoir Pressure Sensor Circuit  
Intermittent

**P2530**  
Ignition Switch Run Position Circuit

**P2531**  
Ignition Switch Run Position Circuit Low

**P2532**  
Ignition Switch Run Position Circuit High

**P2533**  
Ignition Switch Run/Start Position Circuit

**P2534**  
Ignition Switch Run/Start Position Circuit  
Low

**P2535**  
Ignition Switch Run/Start Position Circuit  
High

**P2536**  
Ignition Switch Accessory Position Circuit

**P2537**  
Ignition Switch Accessory Position Circuit  
Low

**P2538**  
Ignition Switch Accessory Position Circuit High

**P2539**  
Low Pressure Fuel System Sensor Circuit

**P2540**  
Low Pressure Fuel System Sensor Circuit Range/Performance

**P2541**  
Low Pressure Fuel System Sensor Circuit Low

**P2542**  
Low Pressure Fuel System Sensor Circuit High

**P2543**  
Low Pressure Fuel System Sensor Circuit Intermittent

**P2544**  
Torque Management Request Input Signal "A"

**P2545**  
Torque Management Request Input Signal "A" Range/Performance

**P2546**  
Torque Management Request Input Signal "A" Low

**P2547**  
Torque Management Request Input Signal "A" High

**P2548**  
Torque Management Request Input Signal "B"

**P2549**  
Torque Management Request Input Signal "B" Range/Performance

**P2550**  
Torque Management Request Input "B" Signal Low

**P2551**  
Torque Management Request Input "B" Signal High

**P2552**  
Throttle/Fuel Inhibit Circuit

**P2553**  
Throttle/Fuel Inhibit Circuit Range/Performance

**P2554**  
Throttle/Fuel Inhibit Circuit Low

**P2555**  
Throttle/Fuel Inhibit Circuit High

**P2556**  
Engine Coolant Level Sensor/Switch Circuit

**P2557**  
Engine Coolant Level Sensor/Switch Circuit Range/Performance

**P2558**  
Engine Coolant Level Sensor/Switch Circuit Low

**P2559**  
Engine Coolant Level Sensor/Switch Circuit High

**P2560**  
Engine Coolant Level Low

**P2600**  
Coolant Pump Control Circuit/Open

**P2601**  
Coolant Pump Control Circuit Range/Performance

**P2602**  
Coolant Pump Control Circuit Low

**P2603**  
Coolant Pump Control Circuit High

**P2604**  
Intake Air Heater "A" Circuit Range/Performance

**P2605**  
Intake Air Heater "A" Circuit/Open

**P2606**  
Intake Air Heater "B" Circuit Range/Performance

**P2607**  
Intake Air Heater "B" Circuit Low

**P2608**  
Intake Air Heater "B" Circuit High

**P2609**  
Intake Air Heater System Performance

**P2610**  
ECM/PCM Internal Engine Off Timer Performance

**P2611**  
A/C Refrigerant Distribution Valve Control Circuit/Open

**P2612**  
A/C Refrigerant Distribution Valve Control Circuit Low

**P2613**  
A/C Refrigerant Distribution Valve Control Circuit High

**P2614**  
Camshaft Position Signal Output Circuit/Open

**P2615**  
Camshaft Position Signal Output Circuit Low

**P2616**  
Camshaft Position Signal Output Circuit High

**P2617**  
Crankshaft Position Signal Output  
Circuit/Open

**P2618**  
Crankshaft Position Signal Output Circuit  
Low

**P2619**  
Crankshaft Position Signal Output Circuit  
High

**P2620**  
Throttle Position Output Circuit/Open

**P2621**  
Throttle Position Output Circuit Low

**P2622**  
Throttle Position Output Circuit High

**P2623**  
Injector Control Pressure Regulator  
Circuit/Open

**P2624**  
Injector Control Pressure Regulator Circuit  
Low

**P2625**  
Injector Control Pressure Regulator Circuit  
High

**P2626**  
O2 Sensor Pumping Current Trim  
Circuit/Open (Bank 1 Sensor 1)

**P2627**  
O2 Sensor Pumping Current Trim Circuit  
Low (Bank 1 Sensor 1)

**P2628**  
O2 Sensor Pumping Current Trim Circuit  
High (Bank 1 Sensor 1)

**P2629**  
O2 Sensor Pumping Current Trim  
Circuit/Open (Bank 2 Sensor 1)

**P2630**  
O2 Sensor Pumping Current Trim Circuit  
Low (Bank 2 Sensor 1)

**P2631**  
O2 Sensor Pumping Current Trim Circuit  
High (Bank 2 Sensor 1)

**P2632**  
Fuel Pump "B" Control Circuit /Open

**P2633**  
Fuel Pump "B" Control Circuit Low

**P2634**  
Fuel Pump "B" Control Circuit High

**P2635**  
Fuel Pump "A" Low Flow / Performance

**P2636**  
Fuel Pump "B" Low Flow / Performance

**P2637**  
Torque Management Feedback Signal "A"

**P2638**  
Torque Management Feedback Signal "A"  
Range/Performance

**P2639**  
Torque Management Feedback Signal "A"  
Low

**P2640**  
Torque Management Feedback Signal "A"  
High

**P2641**  
Torque Management Feedback Signal "B"

**P2642**  
Torque Management Feedback Signal "B"  
Range/Performance

**P2643**  
Torque Management Feedback Signal "B"  
Low

**P2644**  
Torque Management Feedback Signal "B"  
High

**P2645**  
A Rocker Arm Actuator Control Circuit/Open  
(Bank 1)

**P2646**  
A Rocker Arm Actuator System Performance  
or Stuck Off (Bank 1)

**P2647**  
A Rocker Arm Actuator System Stuck On  
(Bank 1)

**P2648**  
A Rocker Arm Actuator Control Circuit Low  
(Bank 1)

**P2649**  
A Rocker Arm Actuator Control Circuit High  
(Bank 1)

**P2650**  
B Rocker Arm Actuator Control Circuit/Open  
(Bank 1)

**P2651**  
B Rocker Arm Actuator System Performance  
or Stuck Off (Bank 1)

**P2652**  
B Rocker Arm Actuator System Stuck On  
(Bank 1)

**P2653**  
B Rocker Arm Actuator Control Circuit Low  
(Bank 1)

**P2654**  
B Rocker Arm Actuator Control Circuit High  
(Bank 1)

**P2655**

A Rocker Arm Actuator Control Circuit/Open (Bank 2)

**P2656**

A Rocker Arm Actuator System Performance or Stuck Off (Bank 2)

**P2657**

A Rocker Arm Actuator System Stuck On (Bank 2)

**P2658**

A Rocker Arm Actuator Control Circuit Low (Bank 2)

**P2659**

A Rocker Arm Actuator Control Circuit High (Bank 2)

**P2660**

B Rocker Arm Actuator Control Circuit/Open (Bank 2)

**P2661**

B Rocker Arm Actuator System Performance or Stuck Off (Bank 2)

**P2662**

B Rocker Arm Actuator System Stuck On (Bank 2)

**P2663**

B Rocker Arm Actuator Control Circuit Low (Bank 2)

**P2664**

B Rocker Arm Actuator Control Circuit High (Bank 2)

**P2700**

Transmission Friction Element "A" Apply Time Range/Performance

**P2701**

Transmission Friction Element "B" Apply Time Range/Performance

**P2702**

Transmission Friction Element "C" Apply Time Range/Performance

**P2703**

Transmission Friction Element "D" Apply Time Range/Performance

**P2704**

Transmission Friction Element "E" Apply Time Range/Performance

**P2705**

Transmission Friction Element "F" Apply Time Range/Performance

**P2706**

Shift Solenoid "F"

**P2707**

Shift Solenoid "F" Performance or Stuck Off

**P2708**

Shift Solenoid "F" Stuck On

**P2709**

Shift Solenoid "F" Electrical

**P2710**

Shift Solenoid "F" Intermittent

**P2711**

Unexpected Mechanical Gear Disengagement

**P2712**

Hydraulic Power Unit Leakage

**P2713**

Pressure Control Solenoid "D"

**P2714**

Pressure Control Solenoid "D" Performance or Stuck Off

**P2715**

Pressure Control Solenoid "D" Stuck On

**P2716**

Pressure Control Solenoid "D" Electrical

**P2717**

Pressure Control Solenoid "D" Intermittent

**P2718**

Pressure Control Solenoid "D" Control Circuit / Open

**P2719**

Pressure Control Solenoid "D" Control Circuit Range/Performance

**P2720**

Pressure Control Solenoid "D" Control Circuit Low

**P2721**

Pressure Control Solenoid "D" Control Circuit High

**P2722**

Pressure Control Solenoid "E"

**P2723**

Pressure Control Solenoid "E" Performance or Stuck Off

**P2724**

Pressure Control Solenoid "E" Stuck On

**P2725**

Pressure Control Solenoid "E" Electrical

**P2726**

Pressure Control Solenoid "E" Intermittent

**P2727**

Pressure Control Solenoid "E" Control Circuit / Open

**P2728**

Pressure Control Solenoid "E" Control Circuit Range/Performance

**P2729**

Pressure Control Solenoid "E" Control Circuit Low

**P2730**  
Pressure Control Solenoid "E" Control Circuit High

**P2731**  
Pressure Control Solenoid "F"

**P2732**  
Pressure Control Solenoid "F" Performance or Stuck Off

**P2733**  
Pressure Control Solenoid "F" Stuck On

**P2734**  
Pressure Control Solenoid "F" Electrical

**P2735**  
Pressure Control Solenoid "F" Intermittent

**P2736**  
Pressure Control Solenoid "F" Control Circuit/Open

**P2737**  
Pressure Control Solenoid "F" Control Circuit Range/Performance

**P2738**  
Pressure Control Solenoid "F" Control Circuit Low

**P2739**  
Pressure Control Solenoid "F" Control Circuit High

**P2740**  
Transmission Fluid Temperature Sensor "B" Circuit"

**P2741**  
Transmission Fluid Temperature Sensor "B" Circuit Range Performance

**P2742**  
Transmission Fluid Temperature Sensor "B" Circuit Low

**P2743**  
Transmission Fluid Temperature Sensor "B" Circuit High

**P2744**  
Transmission Fluid Temperature Sensor "B" Circuit Intermittent

**P2745**  
Intermediate Shaft Speed Sensor "B" Circuit

**P2746**  
Intermediate Shaft Speed Sensor "B" Circuit Range/Performance

**P2747**  
Intermediate Shaft Speed Sensor "B" Circuit No Signal

**P2748**  
Intermediate Shaft Speed Sensor "B" Circuit Intermittent

**P2749**  
Intermediate Shaft Speed Sensor "C" Circuit

**P2750**  
Intermediate Shaft Speed Sensor "C" Circuit Range/Performance

**P2751**  
Intermediate Shaft Speed Sensor "C" Circuit No Signal

**P2752**  
Intermediate Shaft Speed Sensor "C" Circuit Intermittent

**P2753**  
Transmission Fluid Cooler Control Circuit/Open

**P2754**  
Transmission Fluid Cooler Control Circuit Low

**P2755**  
Transmission Fluid Cooler Control Circuit High

**P2756**  
Torque Converter Clutch Pressure Control Solenoid

**P2757**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Performance or Stuck Off

**P2758**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Stuck On

**P2759**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical

**P2760**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Intermittent

**P2761**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit/Open

**P2762**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Range/Performance

**P2763**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit High

**P2764**  
Torque Converter Clutch Pressure Control Solenoid Control Circuit Low

**P2765**  
Input/Turbine Speed Sensor "B" Circuit

**P2766**  
Input/Turbine Speed Sensor "B" Circuit Range/Performance

**P2767**

Input/Turbine Speed Sensor "B" Circuit No Signal

**P2768**

Input/Turbine Speed Sensor "B" Circuit Intermittent

**P2769**

Torque Converter Clutch Circuit Low

**P2770**

Torque Converter Clutch Circuit High

**P2A00**

O2 Sensor Circuit Range/Performance (Bank 1 Sensor 1)

**P2A01**

O2 Sensor Circuit Range/Performance (Bank 1 Sensor 2)

**P2A02**

O2 Sensor Circuit Range/Performance (Bank 1 Sensor 3)

**P2A03**

O2 Sensor Circuit Range/Performance (Bank 2 Sensor 1)

**P2A04**

O2 Sensor Circuit Range/Performance (Bank 2 Sensor 2)

**P2A05**

O2 Sensor Circuit Range/Performance (Bank 2 Sensor 3)

**P3400**

Cylinder Deactivation System

**P3401**

Cylinder 1 Deactivation/Intake Valve Control Circuit/Open

**P3402**

Cylinder 1 Deactivation/Intake Valve Control Performance

**P3403**

Cylinder 1 Deactivation/Intake Valve Control Circuit Low

**P3404**

Cylinder 1 Deactivation/Intake Valve Control Circuit High

**P3405**

Cylinder 1 Exhaust Valve Control Circuit/Open

**P3406**

Cylinder 1 Exhaust Valve Control Performance

**P3407**

Cylinder 1 Exhaust Valve Control Circuit Low

**P3408**

Cylinder 1 Exhaust Valve Control Circuit High

**P3409**

Cylinder 2 Deactivation/Intake Valve Control Circuit/Open

**P3410**

Cylinder 2 Deactivation/Intake Valve Control Performance

**P3411**

Cylinder 2 Deactivation/Intake Valve Control Circuit Low

**P3412**

Cylinder 2 Deactivation/Intake Valve Control Circuit High

**P3413**

Cylinder 2 Exhaust Valve Control Circuit/Open

**P3414**

Cylinder 2 Exhaust Valve Control Performance

**P3415**

Cylinder 2 Exhaust Valve Control Circuit Low

**P3416**

Cylinder 2 Exhaust Valve Control Circuit High

**P3417**

Cylinder 3 Deactivation/Intake Valve Control Circuit/Open

**P3418**

Cylinder 3 Deactivation/Intake Valve Control Performance

**P3419**

Cylinder 3 Deactivation/Intake Valve Control Circuit Low

**P3420**

Cylinder 3 Deactivation/Intake Valve Control Circuit High

**P3421**

Cylinder 3 Exhaust Valve Control Circuit/Open

**P3422**

Cylinder 3 Exhaust Valve Control Performance

**P3423**

Cylinder 3 Exhaust Valve Control Circuit Low

**P3424**

Cylinder 3 Exhaust Valve Control Circuit High

**P3425**

Cylinder 4 Deactivation/Intake Valve Control Circuit/Open

**P3426**

Cylinder 4 Deactivation/Intake Valve Control Performance



**P3427**  
Cylinder 4 Deactivation/Intake Valve Control  
Circuit Low

**P3428**  
Cylinder 4 Deactivation/Intake Valve Control  
Circuit High

**P3429**  
Cylinder 4 Exhaust Valve Control  
Circuit/Open

**P3430**  
Cylinder 4 Exhaust Valve Control  
Performance

**P3431**  
Cylinder 4 Exhaust Valve Control Circuit Low

**P3432**  
Cylinder 4 Exhaust Valve Control Circuit  
High

**P3433**  
Cylinder 5 Deactivation/Intake Valve Control  
Circuit/Open

**P3434**  
Cylinder 5 Deactivation/Intake Valve Control  
Performance

**P3435**  
Cylinder 5 Deactivation/Intake Valve Control  
Circuit Low

**P3436**  
Cylinder 5 Deactivation/Intake Valve Control  
Circuit High

**P3437**  
Cylinder 5 Exhaust Valve Control  
Circuit/Open

**P3438**  
Cylinder 5 Exhaust Valve Control  
Performance

**P3439**  
Cylinder 5 Exhaust Valve Control Circuit Low

**P3440**  
Cylinder 5 Exhaust Valve Control Circuit  
High

**P3441**  
Cylinder 6 Deactivation/Intake Valve Control  
Circuit/Open

**P3442**  
Cylinder 6 Deactivation/Intake Valve Control  
Performance

**P3443**  
Cylinder 6 Deactivation/Intake Valve Control  
Circuit Low

**P3444**  
Cylinder 6 Deactivation/Intake Valve Control  
Circuit High

**P3445**  
Cylinder 6 Exhaust Valve Control  
Circuit/Open

**P3446**  
Cylinder 6 Exhaust Valve Control  
Performance

**P3447**  
Cylinder 6 Exhaust Valve Control Circuit Low

**P3448**  
Cylinder 6 Exhaust Valve Control Circuit  
High

**P3449**  
Cylinder 7 Deactivation/Intake Valve Control  
Circuit/Open

**P3450**  
Cylinder 7 Deactivation/Intake Valve Control  
Performance

**P3451**  
Cylinder 7 Deactivation/Intake Valve Control  
Circuit Low

**P3452**  
Cylinder 7 Deactivation/Intake Valve Control  
Circuit High

**P3453**  
Cylinder 7 Exhaust Valve Control  
Circuit/Open

**P3454**  
Cylinder 7 Exhaust Valve Control  
Performance

**P3455**  
Cylinder 7 Exhaust Valve Control Circuit Low

**P3456**  
Cylinder 7 Exhaust Valve Control Circuit  
High

**P3457**  
Cylinder 8 Deactivation/Intake Valve Control  
Circuit/Open

**P3458**  
Cylinder 8 Deactivation/Intake Valve Control  
Performance

**P3459**  
Cylinder 8 Deactivation/Intake Valve Control  
Circuit Low

**P3460**  
Cylinder 8 Deactivation/Intake Valve Control  
Circuit High

**P3461**  
Cylinder 8 Exhaust Valve Control  
Circuit/Open

**P3462**  
Cylinder 8 Exhaust Valve Control  
Performance

**P3463**  
Cylinder 8 Exhaust Valve Control Circuit Low

**P3464**

Cylinder 8 Exhaust Valve Control Circuit High

**P3465**

Cylinder 9 Deactivation/Intake Valve Control Circuit/Open

**P3466**

Cylinder 9 Deactivation/Intake Valve Control Performance

**P3467**

Cylinder 9 Deactivation/Intake Valve Control Circuit Low

**P3468**

Cylinder 9 Deactivation/Intake Valve Control Circuit High

**P3469**

Cylinder 9 Exhaust Valve Control Circuit/Open

**P3470**

Cylinder 9 Exhaust Valve Control Performance

**P3471**

Cylinder 9 Exhaust Valve Control Circuit Low

**P3472**

Cylinder 9 Exhaust Valve Control Circuit High

**P3473**

Cylinder 10 Deactivation/Intake Valve Control Circuit/Open

**P3474**

Cylinder 10 Deactivation/Intake Valve Control Performance

**P3475**

Cylinder 10 Deactivation/Intake Valve Control Circuit Low

**P3476**

Cylinder 10 Deactivation/Intake Valve Control Circuit High

**P3477**

Cylinder 10 Exhaust Valve Control Circuit/Open

**P3478**

Cylinder 10 Exhaust Valve Control Performance

**P3479**

Cylinder 10 Exhaust Valve Control Circuit Low

**P3480**

Cylinder 10 Exhaust Valve Control Circuit High

**P3481**

Cylinder 11 Deactivation/Intake Valve Control Circuit/Open

**P3482**

Cylinder 11 Deactivation/Intake Valve Control Performance

**P3483**

Cylinder 11 Deactivation/Intake Valve Control Circuit Low

**P3484**

Cylinder 11 Deactivation/Intake Valve Control Circuit High

**P3485**

Cylinder 11 Exhaust Valve Control Circuit/Open

**P3486**

Cylinder 11 Exhaust Valve Control Performance

**P3487**

Cylinder 11 Exhaust Valve Control Circuit Low

**P3488**

Cylinder 11 Exhaust Valve Control Circuit High

**P3489**

Cylinder 12 Deactivation/Intake Valve Control Circuit/Open

**P3490**

Cylinder 12 Deactivation/Intake Valve Control Performance

**P3491**

Cylinder 12 Deactivation/Intake Valve Control Circuit Low

**P3492**

Cylinder 12 Deactivation/Intake Valve Control Circuit High

**P3493**

Cylinder 12 Exhaust Valve Control Circuit/Open

**P3494**

Cylinder 12 Exhaust Valve Control Performance

**P3495**

Cylinder 12 Exhaust Valve Control Circuit Low

**P3496**

Cylinder 12 Exhaust Valve Control Circuit High

**U0001**

High Speed CAN Communication Bus

**U0002**

High Speed CAN Communication Bus Performance

**U0003**

High Speed CAN Communication Bus (+) Open

**U0004**  
High Speed CAN Communication Bus (+)  
Low

**U0005**  
High Speed CAN Communication Bus (+)  
High

**U0006**  
High Speed CAN Communication Bus (-)  
Open

**U0007**  
High Speed CAN Communication Bus (-)  
Low

**U0008**  
High Speed CAN Communication Bus (-)  
High

**U0009**  
High Speed CAN Communication Bus (-)  
shorted to Bus (+)

**U0010**  
Medium Speed CAN Communication Bus

**U0011**  
Medium Speed CAN Communication Bus  
Performance

**U0012**  
Medium Speed CAN Communication Bus (+)  
Open

**U0013**  
Medium Speed CAN Communication Bus (+)  
Low

**U0014**  
Medium Speed CAN Communication Bus (+)  
High

**U0015**  
Medium Speed CAN Communication Bus (-)  
Open

**U0016**  
Medium Speed CAN Communication Bus (-)  
Low

**U0017**  
Medium Speed CAN Communication Bus (-)  
High

**U0018**  
Medium Speed CAN Communication Bus (-)  
shorted to Bus (+)

**U0019**  
Low Speed CAN Communication Bus

**U0020**  
Low Speed CAN Communication Bus  
Performance

**U0021**  
Low Speed CAN Communication Bus (+)  
Open

**U0022**  
Low Speed CAN Communication Bus (+)  
Low

**U0023**  
Low Speed CAN Communication Bus (+)  
High

**U0024**  
Low Speed CAN Communication Bus (-)  
Open

**U0025**  
Low Speed CAN Communication Bus (-)  
Low

**U0026**  
Low Speed CAN Communication Bus (-)  
High

**U0027**  
Low Speed CAN Communication Bus (-)  
shorted to Bus (+)

**U0028**  
Vehicle Communication Bus A

**U0029**  
Vehicle Communication Bus A Performance

**U0030**  
Vehicle Communication Bus A (+) Open

**U0031**  
Vehicle Communication Bus A (+) Low

**U0032**  
Vehicle Communication Bus A (+) High

**U0033**  
Vehicle Communication Bus A (-) Open

**U0034**  
Vehicle Communication Bus A (-) Low

**U0035**  
Vehicle Communication Bus A (-) High

**U0036**  
Vehicle Communication Bus A (-) shorted to  
Bus A (+)

**U0037**  
Vehicle Communication Bus B

**U0038**  
Vehicle Communication Bus B Performance

**U0039**  
Vehicle Communication Bus B (+) Open

**U0040**  
Vehicle Communication Bus B (+) Low

**U0041**  
Vehicle Communication Bus B (+) High

**U0042**  
Vehicle Communication Bus B (-) Open

**U0043**  
Vehicle Communication Bus B (-) Low

**U0044**  
Vehicle Communication Bus B (-) High

**U0045**  
Vehicle Communication Bus B (-) shorted to Bus B (+)

**U0046**  
Vehicle Communication Bus C

**U0047**  
Vehicle Communication Bus C Performance

**U0048**  
Vehicle Communication Bus C (+) Open

**U0049**  
Vehicle Communication Bus C (+) Low

**U0050**  
Vehicle Communication Bus C (+) High

**U0051**  
Vehicle Communication Bus C (-) Open

**U0052**  
Vehicle Communication Bus C (-) Low

**U0053**  
Vehicle Communication Bus C (-) High

**U0054**  
Vehicle Communication Bus C (-) shorted to Bus C (+)

**U0055**  
Vehicle Communication Bus D

**U0056**  
Vehicle Communication Bus D Performance

**U0057**  
Vehicle Communication Bus D (+) Open

**U0058**  
Vehicle Communication Bus D (+) Low

**U0059**  
Vehicle Communication Bus D (+) High

**U0060**  
Vehicle Communication Bus D (-) Open

**U0061**  
Vehicle Communication Bus D (-) Low

**U0062**  
Vehicle Communication Bus D (-) High

**U0063**  
Vehicle Communication Bus D (-) shorted to Bus D (+)

**U0064**  
Vehicle Communication Bus E

**U0065**  
Vehicle Communication Bus E Performance

**U0066**  
Vehicle Communication Bus E (+) Open

**U0067**  
Vehicle Communication Bus E (+) Low

**U0068**  
Vehicle Communication Bus E (+) High

**U0069**  
Vehicle Communication Bus E (-) Open

**U0070**  
Vehicle Communication Bus E (-) Low

**U0071**  
Vehicle Communication Bus E (-) High

**U0072**  
Vehicle Communication Bus E (-) shorted to Bus E (+)

**U0073**  
Control Module Communication Bus Off

**U0100**  
Lost Communication With ECM/PCM "A"

**U0101**  
Lost Communication with TCM

**U0102**  
Lost Communication with Transfer Case Control Module

**U0103**  
Lost Communication With Gear Shift Module

**U0104**  
Lost Communication With Cruise Control Module

**U0105**  
Lost Communication With Fuel Injector Control Module

**U0106**  
Lost Communication With Glow Plug Control Module

**U0107**  
Lost Communication With Throttle Actuator Control Module

**U0108**  
Lost Communication With Alternative Fuel Control Module

**U0109**  
Lost Communication With Fuel Pump Control Module

**U0110**  
Lost Communication With Drive Motor Control Module

**U0111**  
Lost Communication With Battery Energy Control Module "A"

**U0112**  
Lost Communication With Battery Energy Control Module "B"

**U0113**  
Lost Communication With Emissions Critical Control Information

**U0114**  
Lost Communication With Four-Wheel Drive Clutch Control Module

**U0115**  
Lost Communication With ECM/PCM "B"

**U0121**  
Lost Communication With Anti-Lock Brake System (ABS) Control Module

**U0122**  
Lost Communication With Vehicle Dynamics Control Module

**U0123**  
Lost Communication With Yaw Rate Sensor Module

**U0124**  
Lost Communication With Lateral Acceleration Sensor Module

**U0125**  
Lost Communication With Multi-axis Acceleration Sensor Module

**U0126**  
Lost Communication With Steering Angle Sensor Module

**U0127**  
Lost Communication With Tire Pressure Monitor Module

**U0128**  
Lost Communication With Park Brake Control Module

**U0129**  
Lost Communication With Brake System Control Module

**U0130**  
Lost Communication With Steering Effort Control Module

**U0131**  
Lost Communication With Power Steering Control Module

**U0132**  
Lost Communication With Ride Level Control Module

**U0140**  
Lost Communication With Body Control Module

**U0141**  
Lost Communication With Body Control Module "A"

**U0142**  
Lost Communication With Body Control Module "B"

**U0143**  
Lost Communication With Body Control Module "C"

**U0144**  
Lost Communication With Body Control Module "D"

**U0145**  
Lost Communication With Body Control Module "E"

**U0146**  
Lost Communication With Gateway "A"

**U0147**  
Lost Communication With Gateway "B"

**U0148**  
Lost Communication With Gateway "C"

**U0149**  
Lost Communication With Gateway "D"

**U0150**  
Lost Communication With Gateway "E"

**U0151**  
Lost Communication With Restraints Control Module

**U0152**  
Lost Communication With Side Restraints Control Module (Left)

**U0153**  
Lost Communication With Side Restraints Control Module (Right)

**U0154**  
Lost Communication With Restraints Occupant Sensing Control Module

**U0155**  
Lost Communication With Instrument Panel Cluster (IPC) Control Module

**U0156**  
Lost Communication With Information Center "A"

**U0157**  
Lost Communication With Information Center "B"

**U0158**  
Lost Communication With Head Up Display

**U0159**  
Lost Communication With Parking Assist Control Module

**U0160**  
Lost Communication With Audible Alert Control Module

**U0161**  
Lost Communication With Compass Module

**U0162**  
Lost Communication With Navigation Display Module

**U0163**  
Lost Communication With Navigation Control Module

**U0164**  
Lost Communication With HVAC Control Module

**U0165**  
Lost Communication With HVAC Control Module (Rear)

**U0166**  
Lost Communication With Auxiliary Heater Control Module

**U0167**  
Lost Communication With Vehicle Immobilizer Control Module

**U0168**  
Lost Communication With Vehicle Security Control Module

**U0169**  
Lost Communication With Sunroof Control Module

**U0170**  
Lost Communication With "Restraints System Sensor A"

**U0171**  
Lost Communication With "Restraints System Sensor B"

**U0172**  
Lost Communication With "Restraints System Sensor C"

**U0173**  
Lost Communication With "Restraints System Sensor D"

**U0174**  
Lost Communication With "Restraints System Sensor E"

**U0175**  
Lost Communication With "Restraints System Sensor F"

**U0176**  
Lost Communication With "Restraints System Sensor G"

**U0177**  
Lost Communication With "Restraints System Sensor H"

**U0178**  
Lost Communication With "Restraints System Sensor I"

**U0179**  
Lost Communication With "Restraints System Sensor J"

**U0180**  
Lost Communication With Automatic Lighting Control Module

**U0181**  
Lost Communication With Headlamp Leveling Control Module

**U0182**  
Lost Communication With Lighting Control Module (Front)

**U0183**  
Lost Communication With Lighting Control Module (Rear)

**U0184**  
Lost Communication With Radio

**U0185**  
Lost Communication With Antenna Control Module

**U0186**  
Lost Communication With Audio Amplifier

**U0187**  
Lost Communication With Digital Disc Player/Changer Module "A"

**U0188**  
Lost Communication With Digital Disc Player/Changer Module "B"

**U0189**  
Lost Communication With Digital Disc Player/Changer Module "C"

**U0190**  
Lost Communication With Digital Disc Player/Changer Module "D"

**U0191**  
Lost Communication With Television

**U0192**  
Lost Communication With Personal Computer

**U0193**  
Lost Communication With "Digital Audio Control Module A"

**U0194**  
Lost Communication With "Digital Audio Control Module B"

**U0195**  
Lost Communication With Subscription Entertainment Receiver Module

**U0196**  
Lost Communication With Rear Seat Entertainment Control Module

**U0197**  
Lost Communication With Telephone Control Module

**U0198**  
Lost Communication With Telematic Control Module

**U0199**  
Lost Communication With "Door Control Module A"

**U0200**  
Lost Communication With "Door Control Module B"

**U0201**

Lost Communication With "Door Control Module C"

**U0202**

Lost Communication With "Door Control Module D"

**U0203**

Lost Communication With "Door Control Module E"

**U0204**

Lost Communication With "Door Control Module F"

**U0205**

Lost Communication With "Door Control Module G"

**U0206**

Lost Communication With Folding Top Control Module

**U0207**

Lost Communication With Moveable Roof Control Module

**U0208**

Lost Communication With "Seat Control Module A"

**U0209**

Lost Communication With "Seat Control Module B"

**U0210**

Lost Communication With "Seat Control Module C"

**U0211**

Lost Communication With "Seat Control Module D"

**U0212**

Lost Communication With Steering Column Control Module

**U0213**

Lost Communication With Mirror Control Module

**U0214**

Lost Communication With Remote Function Actuation

**U0215**

Lost Communication With "Door Switch A"

**U0216**

Lost Communication With "Door Switch B"

**U0217**

Lost Communication With "Door Switch C"

**U0218**

Lost Communication With "Door Switch D"

**U0219**

Lost Communication With "Door Switch E"

**U0220**

Lost Communication With "Door Switch F"

**U0221**

Lost Communication With "Door Switch G"

**U0222**

Lost Communication With "Door Window Motor A"

**U0223**

Lost Communication With "Door Window Motor B"

**U0224**

Lost Communication With "Door Window Motor C"

**U0225**

Lost Communication With "Door Window Motor D"

**U0226**

Lost Communication With "Door Window Motor E"

**U0227**

Lost Communication With "Door Window Motor F"

**U0228**

Lost Communication With "Door Window Motor G"

**U0229**

Lost Communication With Heated Steering Wheel Module

**U0230**

Lost Communication With Rear Gate Module

**U0231**

Lost Communication With Rain Sensing Module

**U0232**

Lost Communication With Side Obstacle Detection Control Module (Left)

**U0233**

Lost Communication With Side Obstacle Detection Control Module (Right)

**U0234**

Lost Communication With Convenience Recall Module

**U0235**

Lost Communication With Cruise Control Front Distance Range Sensor

**U0300**

Internal Control Module Software Incompatibility

**U0301**

Software Incompatibility with ECM/PCM

**U0302**

Software Incompatibility with Transmission Control Module

**U0303**

Software Incompatibility with Transfer Case Control Module

**U0304**

Software Incompatibility with Gear Shift Control Module

**U0305**

Software Incompatibility with Cruise Control Module

**U0306**

Software Incompatibility with Fuel Injector Control Module

**U0307**

Software Incompatibility with Glow Plug Control Module

**U0308**

Software Incompatibility with Throttle Actuator Control Module

**U0309**

Software Incompatibility with Alternative Fuel Control Module

**U0310**

Software Incompatibility with Fuel Pump Control Module

**U0311**

Software Incompatibility with Drive Motor Control Module

**U0312**

Software Incompatibility with Battery Energy Control Module A

**U0313**

Software Incompatibility with Battery Energy Control Module B

**U0314**

Software Incompatibility with Four-Wheel Drive Clutch Control Module

**U0315**

Software Incompatibility with Anti-Lock Brake System Control Module

**U0316**

Software Incompatibility with Vehicle Dynamics Control Module

**U0317**

Software Incompatibility with Park Brake Control Module

**U0318**

Software Incompatibility with Brake System Control Module

**U0319**

Software Incompatibility with Steering Effort Control Module

**U0320**

Software Incompatibility with Power Steering Control Module

**U0321**

Software Incompatibility with Ride Level Control Module

**U0322**

Software Incompatibility with Body Control Module

**U0323**

Software Incompatibility with Instrument Panel Control Module

**U0324**

Software Incompatibility with HVAC Control Module

**U0325**

Software Incompatibility with Auxiliary Heater Control Module

**U0326**

Software Incompatibility with Vehicle Immobilizer Control Module

**U0327**

Software Incompatibility with Vehicle Security Control Module