



## DTC Database (OBD-II Trouble Codes)

Definitions for generic powertrain diagnostic trouble codes.

### Generic Powertrain Trouble Codes (P0xxx, P2xxx, P34xx - P39xx)

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| 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 "A" Control Circuit/Open                        |
| P0006 | Fuel Shutoff Valve "A" Control Circuit Low                         |
| P0007 | Fuel Shutoff Valve "A" Control Circuit High                        |
| P0008 | Engine Position System Performance                                 |
| P0009 | Engine Position System Performance                                 |
| P0010 | "A" Camshaft Position Actuator Circuit                             |
| P0011 | "A" Camshaft Position - Timing Over-Advanced or System Performance |
| P0012 | "A" Camshaft Position - Timing Over-Retarded                       |
| P0013 | "B" Camshaft Position - Actuator Circuit                           |
| P0014 | "B" Camshaft Position - Timing Over-Advanced or System Performance |
| P0015 | "B" Camshaft Position - Timing Over-Retarded                       |
| P0016 | Crankshaft Position - Camshaft Position Correlation                |
| P0017 | Crankshaft Position - Camshaft Position Correlation                |
| P0018 | Crankshaft Position - Camshaft Position Correlation                |
| P0019 | Crankshaft Position - Camshaft Position Correlation                |
| P0020 | "A" Camshaft Position Actuator Circuit                             |

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| P0021 | "A" Camshaft Position - Timing Over-Advanced or System Performance   |
| P0022 | "A" Camshaft Position - Timing Over-Retarded                         |
| P0023 | "B" Camshaft Position - Actuator Circuit                             |
| P0024 | "B" Camshaft Position - Timing Over-Advanced or System Performance   |
| P0025 | "B" Camshaft Position - Timing Over-Retarded                         |
| P0026 | Intake Valve Control Solenoid Circuit Range/Performance              |
| P0027 | Exhaust Valve Control Solenoid Circuit Range/Performance             |
| P0028 | Intake Valve Control Solenoid Circuit Range/Performance              |
| P0029 | Exhaust Valve Control Solenoid Circuit Range/Performance             |
| P0030 | HO2S Heater Control Circuit                                          |
| P0031 | HO2S Heater Control Circuit Low                                      |
| P0032 | HO2S Heater Control Circuit High                                     |
| 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                                          |
| P0037 | HO2S Heater Control Circuit Low                                      |
| P0038 | HO2S Heater Control Circuit High                                     |
| 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                                          |
| P0043 | HO2S Heater Control Circuit Low                                      |
| P0044 | HO2S Heater Control Circuit High                                     |
| 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                                          |
| P0051 | HO2S Heater Control Circuit Low                                      |
| P0052 | HO2S Heater Control Circuit High                                     |
| P0053 | HO2S Heater Resistance                                               |

|       |                                                              |
|-------|--------------------------------------------------------------|
| P0054 | HO2S Heater Resistance                                       |
| P0055 | HO2S Heater Resistance                                       |
| P0056 | HO2S Heater Control Circuit                                  |
| P0057 | HO2S Heater Control Circuit Low                              |
| P0058 | HO2S Heater Control Circuit High                             |
| P0059 | HO2S Heater Resistance                                       |
| P0060 | HO2S Heater Resistance                                       |
| P0061 | HO2S Heater Resistance                                       |
| P0062 | HO2S Heater Control Circuit                                  |
| P0063 | HO2S Heater Control Circuit Low                              |
| P0064 | HO2S Heater Control Circuit High                             |
| 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                        |
| P0076 | Intake Valve Control Solenoid Circuit Low                    |
| P0077 | Intake Valve Control Solenoid Circuit High                   |
| P0078 | Exhaust Valve Control Solenoid Circuit                       |
| P0079 | Exhaust Valve Control Solenoid Circuit Low                   |
| P0080 | Exhaust Valve Control Solenoid Circuit High                  |
| P0081 | Intake Valve Control Solenoid Circuit                        |
| P0082 | Intake Valve Control Solenoid Circuit Low                    |
| P0083 | Intake Valve Control Solenoid Circuit High                   |
| P0084 | Exhaust Valve Control Solenoid Circuit                       |
| P0085 | Exhaust Valve Control Solenoid Circuit Low                   |
| P0086 | Exhaust Valve Control Solenoid Circuit High                  |

|       |                                                                          |
|-------|--------------------------------------------------------------------------|
| 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                                                                |
| P0131 | O2 Sensor Circuit Low Voltage                                                    |
| P0132 | O2 Sensor Circuit High Voltage                                                   |
| P0133 | O2 Sensor Circuit Slow Response                                                  |
| P0134 | O2 Sensor Circuit No Activity Detected                                           |
| P0135 | O2 Sensor Heater Circuit                                                         |
| P0136 | O2 Sensor Circuit                                                                |
| P0137 | O2 Sensor Circuit Low Voltage                                                    |
| P0138 | O2 Sensor Circuit High Voltage                                                   |
| P0139 | O2 Sensor Circuit Slow Response                                                  |
| P0140 | O2 Sensor Circuit No Activity Detected                                           |
| P0141 | O2 Sensor Heater Circuit                                                         |
| P0142 | O2 Sensor Circuit                                                                |
| P0143 | O2 Sensor Circuit Low Voltage                                                    |
| P0144 | O2 Sensor Circuit High Voltage                                                   |
| P0145 | O2 Sensor Circuit Slow Response                                                  |
| P0146 | O2 Sensor Circuit No Activity Detected                                           |
| P0147 | O2 Sensor Heater Circuit                                                         |
| P0148 | Fuel Delivery Error                                                              |
| P0149 | Fuel Timing Error                                                                |
| P0150 | O2 Sensor Circuit                                                                |
| P0151 | O2 Sensor Circuit Low Voltage                                                    |
| P0152 | O2 Sensor Circuit High Voltage                                                   |

|       |                                                     |
|-------|-----------------------------------------------------|
| P0153 | O2 Sensor Circuit Slow Response                     |
| P0154 | O2 Sensor Circuit No Activity Detected              |
| P0155 | O2 Sensor Heater Circuit                            |
| P0156 | O2 Sensor Circuit                                   |
| P0157 | O2 Sensor Circuit Low Voltage                       |
| P0158 | O2 Sensor Circuit High Voltage                      |
| P0159 | O2 Sensor Circuit Slow Response                     |
| P0160 | O2 Sensor Circuit No Activity Detected              |
| P0161 | O2 Sensor Heater Circuit                            |
| P0162 | O2 Sensor Circuit                                   |
| P0163 | O2 Sensor Circuit Low Voltage                       |
| P0164 | O2 Sensor Circuit High Voltage                      |
| P0165 | O2 Sensor Circuit Slow Response                     |
| P0166 | O2 Sensor Circuit No Activity Detected              |
| P0167 | O2 Sensor Heater Circuit                            |
| P0168 | Fuel Temperature Too High                           |
| P0169 | Incorrect Fuel Composition                          |
| P0170 | Fuel Trim                                           |
| P0171 | System Too Lean                                     |
| P0172 | System Too Rich                                     |
| P0173 | Fuel Trim                                           |
| P0174 | System Too Lean                                     |
| P0175 | System Too Rich                                     |
| 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                                            |
| P0326 | Knock Sensor 1 Circuit Range/Performance                          |
| P0327 | Knock Sensor 1 Circuit Low                                        |
| P0328 | Knock Sensor 1 Circuit High                                       |
| P0329 | Knock Sensor 1 Circuit Input Intermittent                         |
| P0330 | Knock Sensor 2 Circuit                                            |
| P0331 | Knock Sensor 2 Circuit Range/Performance                          |
| P0332 | Knock Sensor 2 Circuit Low                                        |
| P0333 | Knock Sensor 2 Circuit High                                       |
| P0334 | Knock Sensor 2 Circuit Input Intermittent                         |
| 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                              |
| P0341 | Camshaft Position Sensor "A" Circuit Range/Performance            |
| P0342 | Camshaft Position Sensor "A" Circuit Low                          |
| P0343 | Camshaft Position Sensor "A" Circuit High                         |
| P0344 | Camshaft Position Sensor "A" Circuit Intermittent                 |
| P0345 | Camshaft Position Sensor "A" Circuit                              |
| P0346 | Camshaft Position Sensor "A" Circuit Range/Performance            |
| P0347 | Camshaft Position Sensor "A" Circuit Low                          |
| P0348 | Camshaft Position Sensor "A" Circuit High                         |
| P0349 | Camshaft Position Sensor "A" Circuit Intermittent                 |
| 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                                    |
| P0366 | Camshaft Position Sensor "B" Circuit Range/Performance                  |
| P0367 | Camshaft Position Sensor "B" Circuit Low                                |
| P0368 | Camshaft Position Sensor "B" Circuit High                               |
| P0369 | Camshaft Position Sensor "B" Circuit Intermittent                       |
| 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"                                            |
| P0383 | Reserved by SAE J2012                                                   |

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| P0384 | Reserved by SAE J2012                                              |
| 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                               |
| P0391 | Camshaft Position Sensor "B" Circuit Range/Performance             |
| P0392 | Camshaft Position Sensor "B" Circuit Low                           |
| P0393 | Camshaft Position Sensor "B" Circuit High                          |
| P0394 | Camshaft Position Sensor "B" Circuit Intermittent                  |
| 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                         |
| P0421 | Warm Up Catalyst Efficiency Below Threshold                        |

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| P0422 | Main Catalyst Efficiency Below Threshold                             |
| P0423 | Heated Catalyst Efficiency Below Threshold                           |
| P0424 | Heated Catalyst Temperature Below Threshold                          |
| P0425 | Catalyst Temperature Sensor                                          |
| P0426 | Catalyst Temperature Sensor Range/Performance                        |
| P0427 | Catalyst Temperature Sensor Low                                      |
| P0428 | Catalyst Temperature Sensor High                                     |
| P0429 | Catalyst Heater Control Circuit                                      |
| P0430 | Catalyst System Efficiency Below Threshold                           |
| P0431 | Warm Up Catalyst Efficiency Below Threshold                          |
| P0432 | Main Catalyst Efficiency Below Threshold                             |
| P0433 | Heated Catalyst Efficiency Below Threshold                           |
| P0434 | Heated Catalyst Temperature Below Threshold                          |
| P0435 | Catalyst Temperature Sensor                                          |
| P0436 | Catalyst Temperature Sensor Range/Performance                        |
| P0437 | Catalyst Temperature Sensor Low                                      |
| P0438 | Catalyst Temperature Sensor High                                     |
| P0439 | Catalyst Heater Control Circuit                                      |
| 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 Insufficient Flow                      |
| P0492 | Secondary Air Injection System Insufficient Flow                      |
| 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                          |
| P0545 | Exhaust Gas Temperature Sensor Circuit Low                      |
| P0546 | Exhaust Gas Temperature Sensor Circuit High                     |
| P0547 | Exhaust Gas Temperature Sensor Circuit                          |
| P0548 | Exhaust Gas Temperature Sensor Circuit Low                      |
| P0549 | Exhaust Gas Temperature Sensor Circuit High                     |
| 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      |
| P0639 | Throttle Actuator Control Range/Performance      |
| 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 "A" Circuit/Open                                |
| P0658 | Actuator Supply Voltage "A" Circuit Low                                 |
| P0659 | Actuator Supply Voltage "A" Circuit High                                |
| P0660 | Intake Manifold Tuning Valve Control Circuit/Open                       |
| P0661 | Intake Manifold Tuning Valve Control Circuit Low                        |
| P0662 | Intake Manifold Tuning Valve Control Circuit High                       |
| P0663 | Intake Manifold Tuning Valve Control Circuit/Open                       |
| P0664 | Intake Manifold Tuning Valve Control Circuit Low                        |
| P0665 | Intake Manifold Tuning Valve Control Circuit High                       |
| 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                                            |
| P0679 | Cylinder 9 Glow Plug Circuit                                            |
| P0680 | Cylinder 10 Glow Plug Circuit                                           |
| P0681 | Cylinder 11 Glow Plug Circuit                                           |
| P0682 | Cylinder 12 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                                  |
| P0999 | Shift Solenoid "F" Control Circuit High                                 |
| 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                                     |
| P2001 | NOx Trap Efficiency Below Threshold                                     |
| P2002 | Particulate Trap Efficiency Below Threshold                             |
| P2003 | Particulate Trap Efficiency Below Threshold                             |
| P2004 | Intake Manifold Runner Control Stuck Open                               |
| P2005 | Intake Manifold Runner Control Stuck Open                               |
| P2006 | Intake Manifold Runner Control Stuck Closed                             |
| P2007 | Intake Manifold Runner Control Stuck Closed                             |
| P2008 | Intake Manifold Runner Control Circuit/Open                             |
| P2009 | Intake Manifold Runner Control Circuit Low                              |
| P2010 | Intake Manifold Runner Control Circuit High                             |
| P2011 | Intake Manifold Runner Control Circuit/Open                             |
| P2012 | Intake Manifold Runner Control Circuit Low                              |
| P2013 | Intake Manifold Runner Control Circuit High                             |
| P2014 | Intake Manifold Runner Position Sensor/Switch Circuit                   |
| P2015 | Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance |
| P2016 | Intake Manifold Runner Position Sensor/Switch Circuit Low               |
| P2017 | Intake Manifold Runner Position Sensor/Switch Circuit High              |
| P2018 | Intake Manifold Runner Position Sensor/Switch Circuit Intermittent      |

|       |                                                                                 |
|-------|---------------------------------------------------------------------------------|
| P2019 | Intake Manifold Runner Position Sensor/Switch Circuit                           |
| P2020 | Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance         |
| P2021 | Intake Manifold Runner Position Sensor/Switch Circuit Low                       |
| P2022 | Intake Manifold Runner Position Sensor/Switch Circuit High                      |
| P2023 | Intake Manifold Runner Position Sensor/Switch Circuit Intermittent              |
| 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                                          |
| P2032 | Exhaust Gas Temperature Sensor Circuit Low                                      |
| P2033 | Exhaust Gas Temperature Sensor Circuit High                                     |
| P2034 | Exhaust Gas Temperature Sensor Circuit                                          |
| P2035 | Exhaust Gas Temperature Sensor Circuit Low                                      |
| P2036 | Exhaust Gas Temperature Sensor Circuit High                                     |
| 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                                                 |
| P2048 | Reductant Injector Circuit Low                                                  |
| P2049 | Reductant Injector Circuit High                                                 |
| P2050 | Reductant Injector Circuit/Open                                                 |
| P2051 | Reductant Injector Circuit Low                                                  |

|       |                                                                                     |
|-------|-------------------------------------------------------------------------------------|
| P2052 | Reductant Injector Circuit High                                                     |
| P2053 | Reductant Injector Circuit/Open                                                     |
| P2054 | Reductant Injector Circuit Low                                                      |
| P2055 | Reductant Injector Circuit High                                                     |
| P2056 | Reductant Injector Circuit/Open                                                     |
| P2057 | Reductant Injector Circuit Low                                                      |
| P2058 | Reductant Injector Circuit High                                                     |
| 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                            |
| P2081 | Exhaust Gas Temperature Sensor Circuit Intermittent                                 |
| P2082 | Exhaust Gas Temperature Sensor Circuit Range/Performance                            |
| P2083 | Exhaust Gas Temperature Sensor Circuit Intermittent                                 |
| P2084 | Exhaust Gas Temperature Sensor Circuit Range/Performance                            |
| P2085 | Exhaust Gas Temperature Sensor Circuit Intermittent                                 |
| P2086 | Exhaust Gas Temperature Sensor Circuit Range/Performance                            |
| P2087 | Exhaust Gas Temperature Sensor Circuit Intermittent                                 |

|       |                                                             |
|-------|-------------------------------------------------------------|
| P2088 | "A" Camshaft Position Actuator Control Circuit Low          |
| P2089 | "A" Camshaft Position Actuator Control Circuit High         |
| P2090 | "B" Camshaft Position Actuator Control Circuit Low          |
| P2091 | "B" Camshaft Position Actuator Control Circuit High         |
| P2092 | "A" Camshaft Position Actuator Control Circuit Low          |
| P2093 | "A" Camshaft Position Actuator Control Circuit High         |
| P2094 | "B" Camshaft Position Actuator Control Circuit Low          |
| P2095 | "B" Camshaft Position Actuator Control Circuit High         |
| P2096 | Post Catalyst Fuel Trim System Too Lean                     |
| P2097 | Post Catalyst Fuel Trim System Too Rich                     |
| P2098 | Post Catalyst Fuel Trim System Too Lean                     |
| P2099 | Post Catalyst Fuel Trim System Too Rich                     |
| 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                                         |
| P2178 | System Too Rich Off Idle                                         |
| P2179 | System Too Lean Off Idle                                         |
| P2180 | System Too Rich Off Idle                                         |
| 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                           |
| P2188 | System Too Rich at Idle                           |
| P2189 | System Too Lean at Idle                           |
| P2190 | System Too Rich at Idle                           |
| P2191 | System Too Lean at Higher Load                    |
| P2192 | System Too Rich at Higher Load                    |
| P2193 | System Too Lean at Higher Load                    |
| P2194 | System Too Rich at Higher Load                    |
| P2195 | O2 Sensor Signal Stuck Lean                       |
| P2196 | O2 Sensor Signal Stuck Rich                       |
| P2197 | O2 Sensor Signal Stuck Lean                       |
| P2198 | O2 Sensor Signal Stuck Rich                       |
| P2199 | Intake Air Temperature Sensor 1 / 2 Correlation   |
| P2200 | NOx Sensor Circuit                                |
| P2201 | NOx Sensor Circuit Range/Performance              |
| P2202 | NOx Sensor Circuit Low Input                      |
| P2203 | NOx Sensor Circuit High Input                     |
| P2204 | NOx Sensor Circuit Intermittent Input             |
| P2205 | NOx Sensor Heater Control Circuit/Open            |
| P2206 | NOx Sensor Heater Control Circuit Low             |
| P2207 | NOx Sensor Heater Control Circuit High            |
| P2208 | NOx Sensor Heater Sense Circuit                   |
| P2209 | NOx Sensor Heater Sense Circuit Range/Performance |
| P2210 | NOx Sensor Heater Sense Circuit Low Input         |
| P2211 | NOx Sensor Heater Sense Circuit High Input        |
| P2212 | NOx Sensor Heater Sense Circuit Intermittent      |
| P2213 | NOx Sensor Circuit                                |
| P2214 | NOx Sensor Circuit Range/Performance              |
| P2215 | NOx Sensor Circuit Low Input                      |
| P2216 | NOx Sensor Circuit High Input                     |
| P2217 | NOx Sensor Circuit Intermittent Input             |
| P2218 | NOx Sensor Heater Control Circuit/Open            |
| P2219 | NOx Sensor Heater Control Circuit Low             |

|       |                                                    |
|-------|----------------------------------------------------|
| P2220 | NOx Sensor Heater Control Circuit High             |
| P2221 | NOx Sensor Heater Sense Circuit                    |
| P2222 | NOx Sensor Heater Sense Circuit Range/Performance  |
| P2223 | NOx Sensor Heater Sense Circuit Low                |
| P2224 | NOx Sensor Heater Sense Circuit High               |
| P2225 | NOx Sensor Heater Sense Circuit Intermittent       |
| 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 |
| P2232 | O2 Sensor Signal Circuit Shorted to Heater Circuit |
| P2233 | O2 Sensor Signal Circuit Shorted to Heater Circuit |
| P2234 | O2 Sensor Signal Circuit Shorted to Heater Circuit |
| P2235 | O2 Sensor Signal Circuit Shorted to Heater Circuit |
| P2236 | O2 Sensor Signal Circuit Shorted to Heater Circuit |
| P2237 | O2 Sensor Positive Current Control Circuit/Open    |
| P2238 | O2 Sensor Positive Current Control Circuit Low     |
| P2239 | O2 Sensor Positive Current Control Circuit High    |
| P2240 | O2 Sensor Positive Current Control Circuit/Open    |
| P2241 | O2 Sensor Positive Current Control Circuit Low     |
| P2242 | O2 Sensor Positive Current Control Circuit High    |
| P2243 | O2 Sensor Reference Voltage Circuit/Open           |
| P2244 | O2 Sensor Reference Voltage Performance            |
| P2245 | O2 Sensor Reference Voltage Circuit Low            |
| P2246 | O2 Sensor Reference Voltage Circuit High           |
| P2247 | O2 Sensor Reference Voltage Circuit/Open           |
| P2248 | O2 Sensor Reference Voltage Performance            |
| P2249 | O2 Sensor Reference Voltage Circuit Low            |
| P2250 | O2 Sensor Reference Voltage Circuit High           |
| P2251 | O2 Sensor Negative Current Control Circuit/Open    |
| P2252 | O2 Sensor Negative Current Control Circuit Low     |

|       |                                                             |
|-------|-------------------------------------------------------------|
| P2253 | O2 Sensor Negative Current Control Circuit High             |
| P2254 | O2 Sensor Negative Current Control Circuit/Open             |
| P2255 | O2 Sensor Negative Current Control Circuit Low              |
| P2256 | O2 Sensor Negative Current Control Circuit High             |
| 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                                 |
| P2271 | O2 Sensor Signal Stuck Rich                                 |
| P2272 | O2 Sensor Signal Stuck Lean                                 |
| P2273 | O2 Sensor Signal Stuck Rich                                 |
| P2274 | O2 Sensor Signal Stuck Lean                                 |
| P2275 | O2 Sensor Signal Stuck Rich                                 |
| P2276 | O2 Sensor Signal Stuck Lean                                 |
| P2277 | O2 Sensor Signal Stuck Rich                                 |
| 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                     |
| P2298 | O2 Sensor Out of Range During Deceleration                     |
| 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                                                       |
| P2415 | O2 Sensor Exhaust Sample Error                                                       |
| 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                                    |
| P2424 | HC Adsorption Catalyst Efficiency Below Threshold                                    |
| P2425 | Exhaust Gas Recirculation Cooling Valve Control Circuit/Open                         |
| P2426 | Exhaust Gas Recirculation Cooling Valve Control Circuit Low                          |
| P2427 | Exhaust Gas Recirculation Cooling Valve Control Circuit High                         |
| P2428 | Exhaust Gas Temperature Too High                                                     |
| P2429 | Exhaust Gas Temperature Too High                                                     |
| P2430 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit                      |
| P2431 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance    |
| P2432 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low                  |
| P2433 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit High                 |
| P2434 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic |
| P2435 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit                      |
| P2436 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance    |

|       |                                                                                      |
|-------|--------------------------------------------------------------------------------------|
| P2437 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low                  |
| P2438 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit High                 |
| P2439 | Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic |
| P2440 | Secondary Air Injection System Switching Valve Stuck Open                            |
| P2441 | Secondary Air Injection System Switching Valve Stuck Closed                          |
| P2442 | Secondary Air Injection System Switching Valve Stuck Open                            |
| P2443 | Secondary Air Injection System Switching Valve Stuck Closed                          |
| P2444 | Secondary Air Injection System Pump Stuck On                                         |
| P2445 | Secondary Air Injection System Pump Stuck Off                                        |
| P2446 | Secondary Air Injection System Pump Stuck On                                         |
| P2447 | Secondary Air Injection System Pump Stuck Off                                        |
| 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 Signal "B" Low               |
| P2551 | Torque Management Request Input Signal "B" 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                                                          |
| P2561 | A/C Control Module Requested MIL Illumination                                     |
| P2562 | Turbocharger Boost Control Position Sensor Circuit                                |
| P2563 | Turbocharger Boost Control Position Sensor Circuit Range/Performance              |
| P2564 | Turbocharger Boost Control Position Sensor Circuit Low                            |
| P2565 | Turbocharger Boost Control Position Sensor Circuit High                           |
| P2566 | Turbocharger Boost Control Position Sensor Circuit Intermittent                   |
| P2567 | Direct Ozone Reduction Catalyst Temperature Sensor Circuit                        |
| P2568 | Direct Ozone Reduction Catalyst Temperature Sensor Circuit Range/Performance      |
| P2569 | Direct Ozone Reduction Catalyst Temperature Sensor Circuit Low                    |
| P2570 | Direct Ozone Reduction Catalyst Temperature Sensor Circuit High                   |
| P2571 | Direct Ozone Reduction Catalyst Temperature Sensor Circuit Intermittent/Erratic   |
| P2572 | Direct Ozone Reduction Catalyst Deterioration Sensor Circuit                      |
| P2573 | Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Range/Performance    |
| P2574 | Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low                  |
| P2575 | Direct Ozone Reduction Catalyst Deterioration Sensor Circuit High                 |
| P2576 | Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Intermittent/Erratic |
| P2577 | Direct Ozone Reduction Catalyst Efficiency Below Threshold                        |
| 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             |
| P2627 | O2 Sensor Pumping Current Trim Circuit Low              |
| P2628 | O2 Sensor Pumping Current Trim Circuit High             |
| P2629 | O2 Sensor Pumping Current Trim Circuit/Open             |
| P2630 | O2 Sensor Pumping Current Trim Circuit Low              |
| P2631 | O2 Sensor Pumping Current Trim Circuit High             |
| 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                   |
| P2646 | "A" Rocker Arm Actuator System Performance or Stuck Off        |
| P2647 | "A" Rocker Arm Actuator System Stuck On                        |
| P2648 | "A" Rocker Arm Actuator Control Circuit Low                    |
| P2649 | "A" Rocker Arm Actuator Control Circuit High                   |
| P2650 | "B" Rocker Arm Actuator Control Circuit/Open                   |
| P2651 | "B" Rocker Arm Actuator System Performance or Stuck Off        |
| P2652 | "B" Rocker Arm Actuator System Stuck On                        |
| P2653 | "B" Rocker Arm Actuator Control Circuit Low                    |
| P2654 | "B" Rocker Arm Actuator Control Circuit High                   |
| P2655 | "A" Rocker Arm Actuator Control Circuit/Open                   |
| P2656 | "A" Rocker Arm Actuator System Performance or Stuck Off        |
| P2657 | "A" Rocker Arm Actuator System Stuck On                        |
| P2658 | "A" Rocker Arm Actuator Control Circuit Low                    |
| P2659 | "A" Rocker Arm Actuator Control Circuit High                   |
| P2660 | "B" Rocker Arm Actuator Control Circuit/Open                   |
| P2661 | "B" Rocker Arm Actuator System Performance or Stuck Off        |
| P2662 | "B" Rocker Arm Actuator System Stuck On                        |
| P2663 | "B" Rocker Arm Actuator Control Circuit Low                    |
| P2664 | "B" Rocker Arm Actuator Control Circuit High                   |
| P2665 | Fuel Shutoff Valve "B" Control Circuit/Open                    |
| P2666 | Fuel Shutoff Valve "B" Control Circuit Low                     |
| P2667 | Fuel Shutoff Valve "B" Control Circuit High                    |
| P2668 | Fuel Mode Indicator Lamp Control Circuit                       |
| P2669 | Actuator Supply Voltage "B" Circuit /Open                      |
| P2670 | Actuator Supply Voltage "B" Circuit Low                        |
| P2671 | Actuator Supply Voltage "B" Circuit High                       |
| 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                        |
| P2771 | Four Wheel Drive (4WD) Low Switch Circuit                   |
| P2772 | Four Wheel Drive (4WD) Low Switch Circuit Range/Performance |
| P2773 | Four Wheel Drive (4WD) Low Switch Circuit Low               |
| P2774 | Four Wheel Drive (4WD) Low Switch Circuit High              |
| P2775 | Upshift Switch Circuit Range/Performance                    |
| P2776 | Upshift Switch Circuit Low                                  |
| P2777 | Upshift Switch Circuit High                                 |
| P2778 | Upshift Switch Circuit Intermittent/Erratic                 |
| P2779 | Downshift Switch Circuit Range/Performance                  |
| P2780 | Downshift Switch Circuit Low                                |
| P2781 | Downshift Switch Circuit High                               |
| P2782 | Downshift Switch Circuit Intermittent/Erratic               |
| P2783 | Torque Converter Temperature Too High                       |
| P2784 | Input/Turbine Speed Sensor "A"/"B" Correlation              |
| P2785 | Clutch Actuator Temperature Too High                        |
| P2786 | Gear Shift Actuator Temperature Too High                    |
| P2787 | Clutch Temperature Too High                                 |
| P2788 | Auto Shift Manual Adaptive Learning at Limit                |
| P2789 | Clutch Adaptive Learning at Limit                           |
| P2790 | Gate Select Direction Circuit                               |
| P2791 | Gate Select Direction Circuit Low                           |
| P2792 | Gate Select Direction Circuit High                          |
| P2793 | Gear Shift Direction Circuit                                |
| P2794 | Gear Shift Direction Circuit Low                            |
| P2795 | Gear Shift Direction Circuit High                           |
| P2A00 | O2 Sensor Circuit Range/Performance                         |
| P2A01 | O2 Sensor Circuit Range/Performance                         |
| P2A02 | O2 Sensor Circuit Range/Performance                         |
| P2A03 | O2 Sensor Circuit Range/Performance                         |
| P2A04 | O2 Sensor Circuit Range/Performance                         |
| P2A05 | O2 Sensor Circuit Range/Performance                         |

|       |                                                           |
|-------|-----------------------------------------------------------|
| 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             |
| P3497 | Cylinder Deactivation System                               |

**We can not be held responsible for errors in our DTC database**