

## Generic P-Codes Only

|  |
|--|
| P0105-Boost Pressure Sensor Can Message Error                                |
| P0105-Boost Pressure Sensor Plausibility                                     |
| P0105-Boost Pressure Sensor Signal Voltage Too High                          |
| P0105-Boost Pressure Sensor Signal Voltage Too Low                           |
| P0110-Intake Air Temp Sensor Signal Voltage Too High                         |
| P0110-Intake Air Temp Sensor Signal Voltage Too Low                          |
| P0115-Engine Coolant Temp Sensor Circuit Plausibility                        |
| P0115-Engine Coolant Temp Sensor Circuit Plausibility With Engine Oil Sensor |
| P0115-Engine Coolant Temp Sensor Circuit Signal Voltage Too High             |
| P0115-Engine Coolant Temp Sensor Circuit Signal Voltage Too Low              |
| P0180-Fuel Temperature Sensor Circuit - Signal Voltage Too High              |
| P0180-Fuel Temperature Sensor Circuit - Signal Voltage Too Low               |
| P0190-Fuel Press Sensor Circuit Malf Signal Voltage Too High                 |
| P0190-Fuel Press Sensor Circuit Malf Signal Voltage Too Low                  |
| P0201-Cylinder 1-Injector Circuit Excessive Current                          |
| P0201-Cylinder 1-Injector Circuit Open Or Shorted To Ground                  |
| P0201-Cylinder 1-Injector Circuit Shorted To Voltage                         |
| P0202-Cylinder 2-Injector Circuit Excessive Current                          |
| P0202-Cylinder 2-Injector Circuit Open Or Shorted To Ground                  |
| P0202-Cylinder 2-Injector Circuit Shorted To Voltage                         |
| P0203-Cylinder 3-Injector Circuit Excessive Current                          |
| P0203-Cylinder 3-Injector Circuit Open Or Shorted To Ground                  |
| P0203-Cylinder 3-Injector Circuit Shorted To Voltage                         |
| P0204-Cylinder 4-Injector Circuit Excessive Current                          |
| P0204-Cylinder 4-Injector Circuit Open Or Shorted To Ground                  |
| P0204-Cylinder 4-Injector Circuit Shorted To Voltage                         |
| P0205-Cylinder 5-Injector Circuit Excessive Current                          |
| P0205-Cylinder 5-Injector Circuit Open Or Shorted To Ground                  |
| P0205-Cylinder 5-Injector Circuit Shorted To Voltage                         |
| P0300-Misfire Detected   |
| P0500-Wheel Speed Sensor Plaus - Can Bus Message From Abs                    |
| P0600-Can Data Bus - Bus Circuit Fault                                       |

|   |
|---|
| P1105-Atmospheric Pressure Sensor Signal Voltage Too High       |
| P1105-Atmospheric Pressure Sensor Signal Voltage Too Low        |
| P1222-Acc Pedal Position Sensor 1 Ckt Plausibility              |
| P1222-Acc Pedal Position Sensor 1 Ckt Signal Voltage Too High   |
| P1222-Acc Pedal Position Sensor 1 Ckt Signal Voltage Too Low    |
| P1234-Acc Pedal Position Sensor 2 Circuit Plausibility          |
| P1234-Acc Pedal Position Sensor 2 Ckt Signal Voltage Too High   |
| P1234-Acc Pedal Position Sensor 2 Ckt Signal Voltage Too Low    |
| P1482-Glow Plug Module - Communication Error                    |
| P1482-Glow Plug Module - Excess Current                         |
| P1482-Glow Plug Module - Incorrect Timer                        |
| P1482-Glow Plug Module - Internal Fault                         |
| P1610-Engine Control Relay Shuts Off Too Early                  |
| P1610-Engine Control Relay Shuts Off Too Late                   |
| P1611-Sensor Supply 1 Voltage Is Too High                       |
| P1611-Sensor Supply 1 Voltage Is Too Low                        |
| P1612-Ignition Voltage - Voltage Error                          |
| P1615-Ecm Voltage Supply Is Too High                            |
| P1615-Ecm Voltage Supply Is Too Low                             |
| P1617- Ecm Read/Write Error                                     |
| P1617- Ecm Write Error  |
| P1617-Ecm Incorrect Value                                       |
| P1617-Ecm Read Error  |
| P1630-Immobilizer   |
| P1681-Acm Circuit Fault   |
| P2008-Fuel Pressure Sensor Circuit Signal Voltage Too High      |
| P2008-Fuel Pressure Sensor Circuit Signal Voltage Too Low       |
| P2009-Water In Fuel Sensor - Water In Fuel                      |
| P2009-Water In Fuel Sensor Signal Error                         |
| P2011-Mass Air Flow Sensor Plausibility Air Mass Too Low        |
| P2014-Engine Oil Sensor Oil Temperature Plausibility            |
| P2014-Engine Oil Sensor Signal Plausibility                     |
| P2014-Engine Oil Sensor Signal Voltage Is Too High              |
| P2014-Engine Oil Sensor Signal Voltage Is Too Low               |
| P2015-Fuel Rail Pressure Malfunction Maximum Fuel Flow Exceeded |

|   |
|---|
| P2016-Fuel Rail Pressure Malfunction Fuel Flow Below Minimum Quantity |
| P2017-Fuel Rail Pressure Malfunction Rail Pressure Is Too Low         |
| P2018-Fuel Rail Pressure Malfunction Rail Pressure Is Too High        |
| P2019-Fuel Rail Pressure Malfunction Maximum Fuel Pressure Exceeded   |
| P2019-Fuel Rail Pressure Malfunction Rail Pressure Is Too Low         |
| P2020-Fuel Rail Pressure Malfunction Rail Pressure Is Too Low         |
| P2021-Fuel Rail Pressure Malfunction Rail Pressure Too Low            |
| P2023-Fuel Rail Pressure Malfunction Rail Pressure Too High           |
| P2025-Intake Pressure Sensor Plausibility                             |
| P2025-Intake Pressure Sensor Signal Voltage Too High                  |
| P2025-Intake Pressure Sensor Signal Voltage Too Low                   |
| P2038-O2 Sensor Circuit Fault   |
| P2040-Engine Oil Sensor Circuit Invalid Level                         |
| P2040-Engine Oil Sensor Circuit Level Out Of Range                    |
| P2041-Engine Oil Sensor Poor Oil Quality                              |
| P2041-Engine Oil Sensor Quality Measurement Error                     |
| P2041-Engine Oil Sensor Quality Plausibility                          |
| P2042-Engine Oil Sensor Water Contamination                           |
| P2043-Camshaft Position Sensor Circuit Open Circuit                   |
| P2043-Camshaft Position Sensor Circuit Open Or Short Circuit          |
| P2045-Crankshaft Position Sensor Circuit Lost Signal                  |
| P2045-Crankshaft Position Sensor Circuit Signal Plausibility          |
| P2047-Fuel Rail Pressure Malfunction Maximum Fuel Pressure Exceeded   |
| P2049-Fuel Rail Pressure Malfunction Deceleration Error               |
| P2051-Fuel Rail Pressure Malfunction Maximum Fuel Pressure Exceeded   |
| P2057-O2 Sensor Signal Circuit Signal Voltage Too High                |
| P2058-O2 Sensor Signal Circuit Signal Voltage Too High                |
| P2059-O2 Sensor Signal Circuit Signal Voltage Too High                |
| P2061-Engine Oil Sensor Open Circuit                                  |
| P2062-Engine Oil Sensor Monitoring Error                              |
| P2062-Engine Oil Sensor Signal Error                                  |
| P2062-Engine Oil Sensor Synchronization Error                         |
| P2063-Intake Air Temp Sensor Circuit Signal Voltage Too High          |
| P2063-Intake Air Temp Sensor Circuit Signal Voltage Too Low           |
| P2065-Mass Air Flow Sensor Supply Voltage Too High                    |

|   |
|---|
| P2065-Mass Air Flow Sensor Supply Voltage Too Low                 |
| P2066-Mass Air Flow Sensor Plausibility Air Mass Too High         |
| P2066-Mass Air Flow Sensor Plausibility Air Mass Too Low          |
| P2067-Mass Air Flow Sensor Signal Circuit Open Or Shorted         |
| P2067-Mass Air Flow Sensor Signal Voltage Too High                |
| P2067-Mass Air Flow Sensor Signal Voltage Too Low                 |
| P2068-Mass Air Flow Sensor Plausibility Signal Ratio Error        |
| P2068-Mass Air Flow Sensor Plausibility Signal Ratio Too Large    |
| P2068-Mass Air Flow Sensor Plausibility Signal Ratio Too Small    |
| P2090-O2 Sensor Plausibility                                      |
| P2090-O2 Sensor Signal Fault                                      |
| P2091-O2 Sensor Low O2 Concentration                              |
| P2091-O2 Sensor Signal Plausibility                               |
| P2100-Fuel Pump Relay Circuit Open Circuit                        |
| P2100-Fuel Pump Relay Circuit Shorted To Ground                   |
| P2100-Fuel Pump Relay Circuit Shorted To Voltage                  |
| P2100-Fuel Pump Relay Excessive Current                           |
| P2104-Starter Relay Circuit Short Circuit                         |
| P2110-Boost Pressure Servo Motor Circuit Short Circuit            |
| P2112-Boost Pressure Servo Motor Circuit Excessive Current        |
| P2112-Boost Pressure Servo Motor Circuit Open Circuit             |
| P2122-Internal Error Engine Shut Off                              |
| P2123-Injector Circuit Fault                                      |
| P2123-Injector Circuit Low Side Shorted To Ground                 |
| P2123-Injector Circuit Shorted To Ground Or Voltage               |
| P2124-Injector Circuit Fault                                      |
| P2124-Injector Circuit Low Side Shorted To Ground                 |
| P2124-Injector Circuit Shorted To Ground Or Voltage               |
| P2132-Glow Plug Control Module Circuit Shorted To Ground          |
| P2132-Glow Plug Control Module Circuit Shorted To Voltage Or Open |
| P2132-Glow Plug Control Module Fault                              |
| P2133-Glow Plug Failure-Cylinder #1                               |
| P2134-Glow Plug Failure-Cylinder #2                               |
| P2135-Glow Plug Failure-Cylinder #3                               |
| P2136-Glow Plug Failure-Cylinder #4                               |

|  |
|--|
| P2137-Glow Plug Failure-Cylinder #5                        |
| P2139-Ecm Injector Output Stage                            |
| P2140-Ecm Injector Output Stage                            |
| P2141-Cylinder #1 Injector Open Circuit                    |
| P2142-Cylinder #2 Injector Open Circuit                    |
| P2143-Cylinder #3 Injector Open Circuit                    |
| P2144-Cylinder #4 Injector Open Circuit                    |
| P2145-Cylinder #5 Injector Open Circuit                    |
| P2151-Fuel Press Solenoid Signal Implausible               |
| P2152-Starter Relay Circuit Short To Ground                |
| P2153-Starter Relay Circuit Ecm Thermal Overload           |
| P2153-Starter Relay Circuit Open Or Shorted To Voltage     |
| P2195-O2 Sensor Heater Circuit Fault                       |
| P2197-Fuel Quantity Solenoid Ecm Thermal Overload          |
| P2197-Fuel Quantity Solenoid Open Circuit                  |
| P2198-Fuel Quantity Solenoid Short To Voltage              |
| P2199-Fuel Quantity Solenoid Short To Ground               |
| P2201-Immobilizer Can Message Error                        |
| P2203-Torque Reduction Message From Abs - Can Plausibility |
| P2203-Torque Reduction Message From Abs - Message Error    |
| P2203-Torque Reduction Message From Abs - Messages Missing |
| P2203-Torque Reduction Message From Abs - No Communication |
| P2203-Torque Reduction Message From Abs - Plausibility #1  |
| P2203-Torque Reduction Message From Abs Plausibility #2    |
| P2204-Torque Reduction Message From Tcm - Can Plausibility |
| P2204-Torque Reduction Message From Tcm - Engine Stop      |
| P2204-Torque Reduction Message From Tcm - Message Error    |
| P2204-Torque Reduction Message From Tcm - Messages Missing |
| P2204-Torque Reduction Message From Tcm - Plausibility     |
| P2204-Torque Reduction Message From Tcm - Tcm Dtc #1       |
| P2204-Torque Reduction Message From Tcm - Tcm Dtc #2       |
| P2208-Abs Brake Signal Can Message Implausible             |
| P2208-Abs Can Brake Signal Plausibility                    |
| P2209-Abs Can Message Missing Or Incorrect                 |
| P2210-Esm Can Message Missing Or Incorrect                 |

|  |
|--|
| P2211-Etc Can Message Missing Or Incorrect                     |
| P2214-Can Message Error  |
| P2217-Tcm Dtc Internal Fault Present                           |
| P2218-Tcm Dtc 1-2 And 4-5 Shift Solenoid Fault Present         |
| P2219-Tcm Dtc 2-3 Shift Solenoid Fault Present                 |
| P2220-Tcm Dtc 3-4 Shift Solenoid Fault Present                 |
| P2221-Tcm Dtc Torque Converter Clutch Solenoid Fault Present   |
| P2222-Tcm Dtc Modulating Pressure Solenoid Fault Present       |
| P2223-Tcm Dtc Shift Pressure Solenoid Fault Present            |
| P2224-Tcm Dtc Valve Voltage Supply Fault Present               |
| P2225-Tcm Dtc Speed Sensor Voltage Fault Present               |
| P2226-Tcm Dtc Ewm Can Message Fault Present                    |
| P2227-Tcm Dtc Right Rear Wheel Speed Implausible Fault Present |
| P2228-Tcm Dtc Transmission Ratio Error Fault Present           |
| P2229-Tcm Dtc Can Msg Implausible Fault Present                |
| P2230-Tcm Dtc Tcc Excessive Power Consumption Fault Present    |
| P2231-Tcm Dtc Not Unequivocal Fault Present                    |
| P2232-Tcm Dtc Negative Gear Comparison Fault Present           |
| P2234-Abs Dtc External Quantity Control Fault Present          |
| P2240-Abs Steering Angle Sensor Can Message Implausible 1      |
| P2240-Abs Steering Angle Sensor Can Message Implausible 2      |
| P2243-No Message Received From Skreem                          |
| P2244-Instrument Cluster Message Plausibility                  |
| P2252-Lateral Accelerator Sensor Plausibility                  |
| P2253-Steering Angle Sensor Plausibility                       |
| P2258-Tcm Message Error  |
| P2258-Tcm No Can Message                                       |
| P2306-Sensor Supply 2 Voltage Is Too High                      |
| P2306-Sensor Supply 2 Voltage Is Too Low                       |
| P2319-Ecm Internal Error 1                                     |
| P2319-Ecm Internal Error 2                                     |
| P2319-Ecm Internal Error 3                                     |
| P2319-Ecm Internal Error 4                                     |
| P2321-Ecm Internal Error 5                                     |
| P2322-Crankshaft Position Sensor Plausibility                  |

|   |
|---|
| P2323-Ecm Internal Error                                  |
| P2324-Ecm Injector Monitoring 1                           |
| P2324-Ecm Injector Monitoring 2                           |
| P2324-Ecm Injector Monitoring 3                           |
| P2324-Ecm Injector Monitoring 4                           |
| P2324-Ecm Injector Undervoltage                           |
| P2325-Ecm Internal Error 1                                |
| P2325-Ecm Internal Error 2                                |
| P2325-Ecm Internal Error 3                                |
| P2325-Ecm Internal Error 4                                |
| P2327-App Sensor Plausibility                             |
| P2329-Ecm Internal Error 1                                |
| P2330-Ecm Internal Error 1                                |
| P2332-Sensor Supply 3 Voltage Is Too High                 |
| P2332-Sensor Supply 3 Voltage Is Too Low                  |
| P2333-S/C Vehicle Speed Plausibility                      |
| P2338-S/C Excessive Acceleration                          |
| P2338-S/C Excessive Deceleration                          |
| P2339-Ecm Checksum Error #1                               |
| P2339-Ecm Checksum Error #2                               |
| P2339-Ecm Invalid Coding                                  |
| P2339-Ecm Invalid Data                                    |
| P2342-Ecm Internal Error 1                                |
| P2342-Ecm Internal Error 2                                |
| P2343-Ckp Plausibility                                    |
| P2344-Kickdown Switch Plausibility                        |
| P2347-Automatic Transmission Coded As Manual Transmission |
| P2347-Can Bus Circuit Interruption                        |
| P2347-Manual Transmissio Coded As Auto Transmission       |
| P2347-Write Error To Eeprom                               |
| P2350-Internal Voltage Error                              |
| P2351-Ecm Supply Voltage Too Low                          |
| P2352-Injection Fault - Quantity Error                    |
| P2352-Injection Fault - Torque Limit                      |
| P2352-Injection Fault Excessive Engine Speed              |

|  |
|--|
| P2353-O2 Sensor Plausibility                                 |
| P2354-Ecm Internal Fault                                     |
| P2355-Egr Flow Rate Is Too High                              |
| P2355-Egr Flow Rate Is Too Low                               |
| P2356-Ecm Internal Error                                     |
| P2357-Ecm Internal Error                                     |
| P2358-Ecm Internal Error                                     |
| P2359-Boost Pressure Too High                                |
| P2359-Boost Pressure Too Low                                 |
| P2366-O2 Circuit Fault                                       |
| P2500-Fuel Pressure Solenoid Circuit Excessive Current       |
| P2500-Fuel Pressure Solenoid Circuit Open Circuit            |
| P2501-Fuel Pressure Solenoid Circuit Shorted To Ground Or B+ |
| P2510-Boost Pressure Servo Motor Short To Ground             |
| P2511-Egr Valve Signal Circuit Shorted To Ground             |
| P2514-Crankcase Vent Heater Excessive Current                |
| P2514-Crankcase Vent Heater Open Circuit                     |
| P2514-Crankcase Vent Heater Shorted To Ground                |
| P2514-Crankcase Vent Heater Shorted To Voltage               |
| P2521-Improper Start Attempt                                 |
| P2526-Boost Pressure Servo Motor Excessive Current           |
| P2526-Boost Pressure Servo Motor Open Circuit                |
| P2526-Boost Pressure Servo Motor Short To Ground             |
| P2526-Boost Pressure Servo Motor Short To Voltage            |
| P2527-Egr Valve Excessive Current                            |
| P2527-Egr Valve Signal Circuit Open Circuit                  |
| P2527-Egr Valve Signal Circuit Shorted To Ground             |
| P2527-Egr Valve Signal Circuit Shorted To Voltage            |
| P2531-Fuel Injector 1 Read Too Large                         |
| P2531-Fuel Injector 1 Read Too Small                         |
| P2532-Fuel Injector 2 Read Too Large                         |
| P2532-Fuel Injector 2 Read Too Small                         |
| P2533-Fuel Injector 3 Read Too Large                         |
| P2533-Fuel Injector 3 Read Too Small                         |
| P2534-Fuel Injector 4 Read Too Large                         |



|  |
|--|
| P2534-Fuel Injector 4 Read Too Small                     |
| P2535-Fuel Injector 5 Read Too Large                     |
| P2535-Fuel Injector 5 Read Too Small                     |
| P2537-Glow Plug Control Circuit Preglow Fault            |
| P2537-Glow Plug Control Circuit Preglow Short To Ground  |
| P2537-Glow Plug Control Circuit Preglow Short To Voltage |
| P2538-Glow Plug Module Communication Error               |
| P2538-Glow Plug Module Excessive Current Error           |
| P2538-Glow Plug Module Timer Error                       |
| P2606-Cmp/Ckp Synchronization Error                      |
| P2625-Fuel Temperature Sensor Plausibility               |
| P2633-Maf Sensor Signal Plausibility                     |

## All P-Codes

|   |
|---|
| P0001 Fuel Volume Regulator Control Circuit/Open            |
| P0002 Fuel Volume Regulator Control Circuit Range/Perf      |
| P0003 Fuel Volume Regulator Control Circuit Low             |
| P0004 Fuel Volume Regulator Control Circuit Hi              |
| P0005 Fuel Shutoff Valve A Control Circuit/Open             |
| P0006 Fuel Shutoff Valve A Control Circuit Low              |
| P0007 Fuel Shutoff Valve A Control Circuit Hi               |
| P0008 Engine Pos Sys Perf Bank1                             |
| P0009 Engine Pos Sys Perf Bank2                             |
| P0010 A Camshaft Pos Actuator Circuit Bank1                 |
| P0011 A Camshaft Pos-Timing Over-Advanced or Sys Perf Bank1 |
| P0012 A Camshaft Pos-Timing Over-Retarded Bank1             |
| P0013 B Camshaft Pos-Actuator Circuit Bank1                 |
| P0014 B Camshaft Pos-Timing Over-Advanced or Sys Perf Bank1 |
| P0015 B Camshaft Pos-Timing Over-Retarded Bank1             |
| P0016 Crank/Camshaft Mis-align/sync                         |
| P0017 Crank Pos-Camshaft Pos Correlation Bank1 Sensor B     |
| P0018 Crank Pos-Camshaft Pos Correlation Bank2 Sensor A     |

|   |
|---|
| P0019 Crank Pos-Camshaft Pos Correlation Bank2 Sensor B         |
| P0020 A Camshaft Pos Actuator Circuit Bank2                     |
| P0021 A Camshaft Pos-Timing Over-Advanced or Sys Perf Bank2     |
| P0022 A Camshaft Pos-Timing Over-Retarded Bank2                 |
| P0023 B Camshaft Pos-Actuator Circuit Bank2                     |
| P0024 B Camshaft Pos-Timing Over-Advanced or Sys Perf Bank2     |
| P0025 B Camshaft Pos-Timing Over-Retarded Bank2                 |
| P0026 Intake Valve Control Solenoid Circuit Range/Perf Bank1    |
| P0027 Exhaust Valve Control Solenoid Circuit Range/Perf Bank1   |
| P0028 Intake Valve Control Solenoid Circuit Range/Perf Bank2    |
| P0029 Exhaust Valve Control Solenoid Circuit Range/Perf Bank2   |
| P0030 1/1 O2 Sensor Heater Relay Malfunction                    |
| P0031 HO2S Heater Control Circuit Low Bank1 Sensor1             |
| P0032 HO2S Heater Control Circuit Hi Bank1 Sensor1              |
| P0033 Turbo Charger Bypass Valve Control Circuit                |
| P0034 Turbo Charger Bypass Valve Control Circuit Low            |
| P0035 Turbo Charger Bypass Valve Control Circuit Hi             |
| P0036 1/2 O2 Sensor Heater Relay Malfunction                    |
| P0037 HO2S Heater Control Circuit Low Bank1 Sensor2             |
| P0038 HO2S Heater Control Circuit Hi Bank1 Sensor2              |
| P0039 T/Super Charger Bypass Valve Control Circuit Range/Perf   |
| P0040 O2 Sensor Signals Swapped Bank1 Sensor1/ Bank2 Sensor1    |
| P0041 O2 Sensor Signals Swapped Bank1 Sensor2/ Bank2 Sensor2    |
| P0042 HO2S Heater Control Circuit Bank1 Sensor3                 |
| P0043 HO2S Heater Control Circuit Low Bank1 Sensor3             |
| P0044 HO2S Heater Control Circuit Hi Bank1 Sensor3              |
| P0045 T/Super Charger Boost Control Solenoid Circuit/Open       |
| P0046 T/Super Charger Boost Control Solenoid Circuit Range/Perf |
| P0047 T/Super Charger Boost Control Solenoid Circuit Low        |
| P0048 T/Super Charger Boost Control Solenoid Circuit Hi         |
| P0049 T/Super Charger Turbine Overspeed                         |
| P0050 HO2S Heater Control Circuit Bank2 Sensor1                 |
| P0051 HO2S Heater Control Circuit Low Bank2 Sensor1             |
| P0052 HO2S Heater Control Circuit Hi Bank2 Sensor1              |
| P0053 HO2S Heater Resistance Bank1 Sensor1                      |

|  |
|--|
| P0054 HO2S Heater Resistance Bank1 Sensor2                 |
| P0055 HO2S Heater Resistance Bank1 Sensor3                 |
| P0056 HO2S Heater Control Circuit Bank2 Sensor2            |
| P0057 HO2S Heater Control Circuit Low Bank2 Sensor2        |
| P0058 HO2S Heater Control Circuit Hi Bank2 Sensor2         |
| P0059 HO2S Heater Resistance Bank2 Sensor1                 |
| P0060 HO2S Heater Resistance Bank2 Sensor2                 |
| P0061 HO2S Heater Resistance Bank2 Sensor3                 |
| P0062 HO2S Heater Control Circuit Bank2 Sensor3            |
| P0063 HO2S Heater Control Circuit Low Bank2 Sensor3        |
| P0064 HO2S Heater Control Circuit Hi Bank2 Sensor3         |
| P0065 Air Assisted Injector Control Range/Perf             |
| P0066 Air Assisted Injector Control Circuit or Circuit Low |
| P0067 Air Assisted Injector Control Circuit Hi             |
| P0068 MAP/MAF-Throttle Pos Correlation                     |
| P0069 MAP-Barometric Press Correlation                     |
| P0070 Ambient Air Temp Sensor Circuit                      |
| P0071 Ambient Temp Sensor Perf                             |
| P0072 Ambient Temp Sensor Low                              |
| P0073 Ambient Temp Sensor Hi                               |
| P0074 Ambient Air Temp Sensor Circuit Interm               |
| P0075 Intake Valve Control Solenoid Circuit Bank1          |
| P0076 Intake Valve Control Solenoid Circuit Low Bank1      |
| P0077 Intake Valve Control Solenoid Circuit Hi Bank1       |
| P0078 Exhaust Valve Control Solenoid Circuit Bank1         |
| P0079 Exhaust Valve Control Solenoid Circuit Low Bank1     |
| P0080 Exhaust Valve Control Solenoid Circuit Hi Bank1      |
| P0081 Intake Valve Control Solenoid Circuit Bank2          |
| P0082 Intake Valve Control Solenoid Circuit Low Bank2      |
| P0083 Intake Valve Control Solenoid Circuit Hi Bank2       |
| P0084 Exhaust Valve Control Solenoid Circuit Bank2         |
| P0085 Exhaust Valve Control Solenoid Circuit Low Bank2     |
| P0086 Exhaust Valve Control Solenoid Circuit Hi Bank2      |
| P0087 Fuel Rail/Sys Press-Too Low                          |
| P0088 Fuel Rail Press Hi                                   |

|  |
|--|
| P0089 Fuel Press Regulator 1 Perf                    |
| P0090 Fuel Press Regulator 1 Control Circuit         |
| P0091 Fuel Press Regulator 1 Control Circuit Low     |
| P0092 Fuel Press Regulator 1 Control Circuit Hi      |
| P0093 Fuel Sys Leak Detected-Large Leak              |
| P0094 Fuel Sys Leak Detected-Small Leak              |
| P0095 Intake Air Temp Sensor2 Circuit                |
| P0096 Intake Air Temp Sensor2 Circuit Range/Perf     |
| P0097 Intake Air Temp Sensor2 Circuit Low            |
| P0098 Intake Air Temp Sensor2 Circuit Hi             |
| P0099 Intake Air Temp Sensor2 Circuit Interm/Erratic |
| P0100 Mass or Volume Air Flow Circuit                |
| P0101 MAF Sensor Perf                                |
| P0102 MAF Sensor Low frequency                       |
| P0103 MAF Sensor Hi frequency                        |
| P0104 Mass or Volume Air Flow Circuit Interm         |
| P0105 MAP/Barometric Press Circuit                   |
| P0106 Barometric Press Out of Range                  |
| P0107 Map Sensor Voltage Too Low                     |
| P0108 Map Sensor Voltage Too Hi                      |
| P0109 MAP/Barometric Press Circuit Interm            |
| P0110 Intake Air Temp Sensor1 Circuit                |
| P0111 Intake Air Temp Sensor Perf                    |
| P0112 Intake Air Temp Sensor Voltage Low             |
| P0113 Intake Air Temp Sensor Voltage Hi              |
| P0114 Intake Air Temp Sensor1 Circuit Interm         |
| P0115 Engine Coolant Temp Circuit                    |
| P0116 Coolant Temp Sensor Perf                       |
| P0117 ECT Sensor Voltage Too Low                     |
| P0118 ECT Sensor Voltage Too Hi                      |
| P0119 Engine Coolant Temp Circuit Interm             |
| P0120 Throttle/Pedal Pos Sensor/Switch A Circuit     |
| P0121 TPS Voltage Does Not Agree with MAP            |
| P0122 Throttle Pos Sensor Voltage Low                |
| P0123 Throttle Pos Sensor Voltage Hi                 |

P0124 Throttle/Pedal Pos Sensor/Switch A Circuit Interm

P0125 Closed Loop Temp Not Reached

P0126 Insufficient ECT for Stable Operation

P0127 Intake Air Temp Too Hi

P0128 Cooling Sys Error / Thermostat Perf

P0129 Barometric Press Too Low

P0130 1/1 O2 Sensor Heater Relay Malfunction

P0131 1/1 O2 Sensor Shorted To Ground

P0132 1/1 O2S Shorted To Voltage

P0133 1/1 O2S Slow Response

P0134 1/1 O2S Stays At Center

P0135 1/1 O2S Heater Failure

P0136 1/2 O2 Sensor Heater Relay Malfunction

P0137 1/2 O2S Shorted To Ground

P0138 1/2 O2S Shorted To Voltage

P0139 1/2 O2S Slow Response

P0140 1/2 O2S Stays At Center

P0141 1/2 O2 Sensor Relay

P0142 O2 Sensor Circuit Bank1 Sensor3

P0143 1/3 O2S Shorted To Ground

P0144 1/3 O2S Shorted To Voltage

P0145 1/3 O2S Slow Response

P0146 1/3 O2S Stays At Center

P0147 1/3 O2 Sensor Heater Failure

P0148 Fuel Delivery Error

P0149 Fuel Timing Error

P0150 O2 Sensor Circuit Bank2 Sensor1

P0151 2/1 O2 Sensor Shorted To Ground

P0152 2/1 O2 Sensor Shorted To Voltage

P0153 2/1 O2 Sensor Slow Response

P0154 2/1 O2 Sensor Stays at Center

P0155 2/1 O2 Sensor Heater Failure

P0156 O2 Sensor Circuit Bank2 Sensor2

P0157 2/2 O2 Sensor Shorted To Ground

P0158 2/2 O2 Sensor Shorted To Voltage

|  |
|--|
| P0159 2/2 O2 Sensor Slow Response                          |
| P0160 2/2 O2 Sensor Stays at Center                        |
| P0161 2/2 O2 Sensor Heater Failure                         |
| P0162 O2 Sensor Circuit Bank2 Sensor3                      |
| P0163 O2 Sensor Circuit Low Voltage Bank2 Sensor3          |
| P0164 O2 Sensor Circuit Hi Voltage Bank2 Sensor3           |
| P0165 Starter Relay Control Circuit                        |
| P0166 O2 Sensor Circuit No Activity Detected Bank2 Sensor3 |
| P0167 O2 Sensor Heater Circuit Bank2 Sensor3               |
| P0168 Decreased Engine Perf Due to Hi Inj Pump Fuel Temp   |
| P0169 Water-in-fuel detected for too long                  |
| P0170 Fuel Trim Bank1                                      |
| P0171 1/1 Fuel Sys Lean                                    |
| P0172 1/1 Fuel Sys Rich                                    |
| P0173 Fuel Trim Bank2                                      |
| P0174 2/1 Fuel Sys Lean                                    |
| P0175 2/1 Fuel Sys Rich                                    |
| P0176 Loss of Flex Fuel Calibration Signal                 |
| P0177 Water In Fuel  |
| P0178 Flex Fuel Sensor Volts Too Low                       |
| P0178 Water in Fuel Sensor Volts Too Low or                |
| P0179 Flex Fuel Sensor Volts Too Hi                        |
| P0180 CNG Temp Sensor Voltage Fail                         |
| P0181 Fuel Inj Pump Failure                                |
| P0182 CNG Temp Sensor Voltage Too Low                      |
| P0183 CNG Temp Sensor Voltage Too Hi                       |
| P0184 Fuel Temp Sensor A Circuit Intern                    |
| P0185 Fuel Temp Sensor B Circuit                           |
| P0186 Fuel Temp Sensor B Circuit Range/Perf                |
| P0187 Fuel Temp Sensor B Circuit Low                       |
| P0188 Fuel Temp Sensor B Circuit Hi                        |
| P0189 Fuel Temp Sensor B Circuit Intern                    |
| P0190 Fuel Rail Press Sensor Circuit                       |
| P0191 Fuel Rail Press Sensor Circuit Range/Perf            |
| P0192 Fuel Rail Press Sensor Low                           |

|   |
|---|
| P0193 Fuel Rail Press Sensor Hi                         |
| P0194 Fuel Rail Press Sensor Circuit Interm             |
| P0195 Engine Oil Temp Sensor                            |
| P0196 Engine Oil Temp Sensor Range/Perf                 |
| P0197 Engine Oil Temp Sensor Low                        |
| P0198 Engine Oil Temp Sensor Hi                         |
| P0199 Engine Oil Temp Sensor Interm                     |
| P0200 Injector Circuit/Open                             |
| P0201 Injector #1 Control Circuit                       |
| P0202 Injector #2 Control Circuit                       |
| P0203 Injector #3 Control Circuit                       |
| P0204 Injector #4 Control Circuit                       |
| P0205 Injector #5 Control Circuit                       |
| P0206 Injector #6 Control Circuit                       |
| P0207 Injector #7 Control Circuit                       |
| P0208 Injector #8 Control Circuit                       |
| P0209 Injector #9 Control Circuit                       |
| P0210 Injector #10 Control Circuit                      |
| P0211 Injector Circuit/Open-Cylinder 11                 |
| P0212 Injector Circuit/Open-Cylinder 12                 |
| P0213 Cold Start Injector 1                             |
| P0214 Cold Start Injector 2                             |
| P0215 Fuel Inj Pump Control Circuit                     |
| P0216 Fuel Inj Pump Timing Failure                      |
| P0217 Decreased Eng Perf due to Eng Overheat Condition  |
| P0218 Trans Fluid Over Temp Condition                   |
| P0219 CKP Sensor Overspeed Condition                    |
| P0220 APP Sensor2 Circuit                               |
| P0221 APP Sensor2 Circuit Perf                          |
| P0222 Idle Validation Signals Both Low                  |
| P0222 APP Sensor2 Circuit Low Voltage or                |
| P0223 Idle Validation Signals Both Hi (Above 5Vs)       |
| P0223 Inj Pulse Width Error (Rise Time Long) or         |
| P0224 Throttle/Pedal Pos Sensor/Switch B Circuit Interm |
| P0225 APP Sensor3 Circuit                               |

|  |
|--|
| P0226 APP Sensor3 Circuit Perf   |
| P0227 APP Sensor2 Circuit Low Voltage  |
| P0228 APP Sensor2 Circuit Hi Voltage   |
| P0229 Throttle/Pedal Pos Sensor/Switch C Circuit Interm                                    |
| P0230 Transfer Pump (Lift Pump) Circuit Out Of Range                                       |
| P0231 Fuel Pump Feedback Circuit Low Voltage   |
| P0232 Fuel Shut-Off Signal Voltage Too Hi  |
| P0233 Fuel Pump Sec Circuit Interm   |
| P0234 Turbo Boost Limit Exceeded   |
| P0235 T/Super Charger Boost Sensor A Circuit   |
| P0236 MAP Sensor Too Hi Too Long   |
| P0237 MAP Sensor Voltage Too Low   |
| P0238 MAP Sensor Voltage Too Hi  |
| P0239 T/Super Charger Boost Sensor B Circuit   |
| P0240 T/Super Charger Boost Sensor B Circuit Range/Perf                                    |
| P0241 T/Super Charger Boost Sensor B Circuit Low   |
| P0242 T/Super Charger Boost Sensor B Circuit Hi  |
| P0243 Open or shorted condition detected in the<br>turbocharger Wastegate solenoid Control |
| P0244 T/Super Charger Wastegate Solenoid A Range/Perf                                      |
| P0245 T/Super Charger Wastegate Solenoid A Low   |
| P0246 T/Super Charger Wastegate Solenoid A Hi  |
| P0247 T/Super Charger Wastegate Solenoid B   |
| P0248 T/Super Charger Wastegate Solenoid B Range/Perf                                      |
| P0249 T/Super Charger Wastegate Solenoid B Low   |
| P0250 T/Super Charger Wastegate Solenoid B Hi  |
| P0251 Fuel Inj Pump Fuel valve Feedback Circuit  |
| P0252 Fuel Inj Pump Fuel Valve Stuck   |
| P0253 Fuel Inj Pump Fuel Valve Open Circuit  |
| P0254 Fuel Inj Pump Fuel Valve Current Too Hi  |
| P0255 Inj Pump Fuel Metering Control A Interm (Cam/Rotor/Injector)                         |
| P0256 Inj Pump Fuel Metering Control B (Cam/Rotor/Injector)                                |
| P0257 Inj Pump Fuel Metering Control B Range/Perf (Cam/Rotor/Injector)                     |
| P0258 Inj Pump Fuel Metering Control B Low (Cam/Rotor/Injector)                            |
| P0259 Inj Pump Fuel Metering Control B Hi (Cam/Rotor/Injector)                             |



|  |
|--|
| P0260 Inj Pump Fuel Metering Control B Interm (Cam/Rotor/Injector) |
| P0261 Cylinder 1 Injector Circuit Low                              |
| P0262 Cylinder 1 Injector Circuit Hi                               |
| P0263 Cylinder 1 Balance Sys                                       |
| P0264 Cylinder 2 Injector Circuit Low                              |
| P0265 Cylinder 2 Injector Circuit Hi                               |
| P0266 Cylinder 2 Balance Sys                                       |
| P0267 Cylinder 3 Injector Circuit Low                              |
| P0268 Cylinder 3 Injector Circuit Hi                               |
| P0269 Cylinder 3 Balance Sys                                       |
| P0270 Cylinder 4 Injector Circuit Low                              |
| P0271 Cylinder 4 Injector Circuit Hi                               |
| P0272 Cylinder 4 Balance Sys                                       |
| P0273 Cylinder 5 Injector Circuit Low                              |
| P0274 Cylinder 5 Injector Circuit Hi                               |
| P0275 Cylinder 5 Balance Sys                                       |
| P0276 Cylinder 6 Injector Circuit Low                              |
| P0277 Cylinder 6 Injector Circuit Hi                               |
| P0278 Cylinder 6 Balance Sys                                       |
| P0279 Cylinder 7 Injector Circuit Low                              |
| P0280 Cylinder 7 Injector Circuit Hi                               |
| P0281 Cylinder 7 Balance Sys                                       |
| P0282 Cylinder 8 Injector Circuit Low                              |
| P0283 Cylinder 8 Injector Circuit Hi                               |
| P0284 Cylinder 8 Balance Sys                                       |
| P0285 Cylinder 9 Injector Circuit Low                              |
| P0286 Cylinder 9 Injector Circuit Hi                               |
| P0287 Cylinder 9 Contribution/Balance                              |
| P0288 Cylinder 10 Injector Circuit Low                             |
| P0289 Cylinder 10 Injector Circuit Hi                              |
| P0290 Cylinder 10 Contribution/Balance                             |
| P0291 Cylinder 11 Injector Circuit Low                             |
| P0292 Cylinder 11 Injector Circuit Hi                              |
| P0293 Cylinder 11 Contribution/Balance                             |
| P0294 Cylinder 12 Injector Circuit Low                             |

|  |
|--|
| P0295 Cylinder 12 Injector Circuit Hi                            |
| P0296 Cylinder 12 Contribution/Balance                           |
| P0297 Vehicle Overspeed Condition                                |
| P0298 Engine Oil Over Temp                                       |
| P0299 T/Super Charger Underboost                                 |
| P0300 Multiple Cylinder Misfire                                  |
| P0301 Cylinder #1 Misfire  |
| P0302 Cylinder #2 Misfire  |
| P0303 Cylinder #3 Misfire  |
| P0304 Cylinder #4 Misfire  |
| P0305 Cylinder #5 Misfire  |
| P0306 Cylinder #6 Misfire  |
| P0307 Cylinder #7 Misfire  |
| P0308 Cylinder #8 Misfire  |
| P0309 Cylinder #9 Misfire  |
| P0310 Cylinder #10 Misfire                                       |
| P0311 Cylinder 11 Misfire Detected                               |
| P0312 Cylinder 12 Misfire Detected                               |
| P0313 Misfire Detected with Low Fuel                             |
| P0314 Single Cylinder Misfire (Cylinder not Specified)           |
| P0315 Crank Pos Sys Variation Not Learned                        |
| P0316 Engine Misfire Detected on Startup (First 1000 Revs)       |
| P0317 Rough Road Hardware Not Present                            |
| P0318 Rough Road Sensor A Signal Circuit                         |
| P0319 Rough Road Sensor B  |
| P0320 No Crank Ref Signal at PCM                                 |
| P0321 Ignition/Distributor Engine Speed Input Circuit Range/Perf |
| P0322 Ignition/Distributor Engine Speed Input Circuit No Signal  |
| P0323 Ignition/Distributor Engine Speed Input Circuit Interm     |
| P0324 Knock Control Sys Error                                    |
| P0325 Knock Sensor #1 Circuit                                    |
| P0326 Knock Sensor1 Circuit Range/Perf Bank1 or Single Sensor    |
| P0327 Knock Sensor Noise Channel Low Voltage                     |
| P0328 Knock Sensor1 Circuit Hi Bank1 or Single Sensor            |
| P0329 Knock Sensor1 Circuit Input Interm Bank1 or Single Sensor  |

|   |
|---|
| P0330 Knock Sensor #2 Circuit                                     |
| P0331 Knock Sensor2 Circuit Range/Perf Bank2                      |
| P0332 Knock Sensor2 Circuit Low Bank2                             |
| P0333 Knock Sensor2 Circuit Hi Bank2                              |
| P0334 Knock Sensor2 Circuit Input Interm Bank2                    |
| P0335 Crank Pos Sensor Circuit                                    |
| P0336 Crank Pos Sensor Perf                                       |
| P0337 Crank Pos Sensor Circuit Low                                |
| P0338 Crank Pos Sensor Circuit Hi                                 |
| P0339 Crank Pos Sensor Circuit Interm                             |
| P0340 No Cam Signal At PCM  |
| P0341 CMP Sensor Signal   |
| P0342 ESS Voltage Supply Low                                      |
| P0343 ESS Voltage Supply Hi                                       |
| P0344 Camshaft Pos Sensor A Circuit Interm Bank1 or Single Sensor |
| P0345 Camshaft Pos Sensor A Circuit Bank2                         |
| P0346 Camshaft Pos Sensor A Circuit Range/Perf Bank2              |
| P0347 Camshaft Pos Sensor A Circuit Low Bank2                     |
| P0348 Camshaft Pos Sensor A Circuit Hi Bank2                      |
| P0349 Camshaft Pos Sensor A Circuit Interm Bank2                  |
| P0350 Ignition Coil Draws Too Much Current                        |
| P0351 Ignition Coil # 1 Primary Circuit                           |
| P0352 Ignition Coil # 2 Primary Circuit                           |
| P0353 Ignition Coil # 3 Primary Circuit                           |
| P0354 Ignition Coil # 4 Primary Circuit                           |
| P0355 Ignition Coil # 5 Primary Circuit                           |
| P0356 Ignition Coil # 6 Primary Circuit                           |
| P0357 Ignition Coil # 7 Primary Circuit                           |
| P0358 Ignition Coil # 8 Primary Circuit                           |
| P0359 Ignition Coil I Primary/Sec Circuit                         |
| P0360 Ignition Coil J Primary/Sec Circuit                         |
| P0361 Ignition Coil K Primary/Sec Circuit                         |
| P0362 Ignition Coil L Primary/Sec Circuit                         |
| P0363 Misfire Detected-Fueling Disabled                           |
| P0365 Camshaft Pos Sensor B Circuit Bank1                         |

|   |
|---|
| P0366 Camshaft Pos Sensor B Circuit Range/Perf Bank1      |
| P0367 Camshaft Pos Sensor B Circuit Low Bank1             |
| P0368 Camshaft Pos Sensor B Circuit Hi Bank1              |
| P0369 Camshaft Pos Sensor B Circuit Interm Bank1          |
| P0370 Fuel Inj Pump Speed/Pos Sensor Signal Lost          |
| P0371 Timing Ref Hi Res Signal A Too Many Pulses          |
| P0372 Timing Ref Hi Res Signal A Too Few Pulses           |
| P0373 Timing Ref Hi Res Signal A Interm/Erratic Pulses    |
| P0374 Timing Ref Hi Res Signal A No Pulse                 |
| P0375 Timing Ref Hi Res Signal B                          |
| P0376 Timing Ref Hi Res Signal B Too Many Pulses          |
| P0377 Timing Ref Hi Res Signal B Too Few Pulses           |
| P0378 Timing Ref Hi Res Signal B Interm/Erratic Pulses    |
| P0379 Timing Ref Hi Res Signal B No Pulses                |
| P0380 Glow Plug Circuit Perf                              |
| P0380 Intake Air Heater Relay No. 1 Control Circuit or    |
| P0381 Wait To Start Lamp Inoperative                      |
| P0382 Intake Air Heater Relay No. 2 Control Circuit       |
| P0383 P0384 Reserved by document                          |
| P0385 Crank Pos Sensor B Circuit                          |
| P0386 Crank Pos Sensor B Circuit Range/Perf               |
| P0387 CKP Sensor Supply Voltage Too Low                   |
| P0388 CKP Sensor Supply Voltage Too Hi                    |
| P0389 Crank Pos Sensor B Circuit Interm                   |
| P0390 Camshaft Pos Sensor B Circuit Bank2                 |
| P0391 Camshaft Pos Sensor B Circuit Range/Perf Bank2      |
| P0392 Camshaft Pos Sensor B Circuit Low Bank2             |
| P0393 Camshaft Pos Sensor B Circuit Hi Bank2              |
| P0394 Camshaft Pos Sensor B Circuit Interm Bank2          |
| P0400 Exhaust Gas ReCircuitulation (EGR) Flow Malfunction |
| P0401 EGR Sys Failure                                     |
| P0402 EGR Flow Excessive Detected                         |
| P0403 EGR Solenoid Circuit                                |
| P0404 EGR Pos Sensor Rationality                          |
| P0405 EGR Pos Sensor Volts Too Low                        |

|   |
|---|
| P0406 EGR Pos Sensor Volts Too Hi                       |
| P0407 Exhaust Gas ReCircuitulation Sensor B Circuit Low |
| P0408 Exhaust Gas ReCircuitulation Sensor B Circuit Hi  |
| P0409 Exhaust Gas ReCircuitulation Sensor A Circuit     |
| P0410 AIR Sys   |
| P0411 Sec Air Inj Sys Incorrect Flow Detected           |
| P0412 Sec Air Solenoid Circuit                          |
| P0413 Sec Air Inj Sys Switching Valve A Circuit Open    |
| P0414 Sec Air Inj Sys Switching Valve A Circuit Shorted |
| P0415 Sec Air Inj Sys Switching Valve B Circuit         |
| P0416 Sec Air Inj Sys Switching Valve B Circuit Open    |
| P0417 Sec Air Inj Sys Switching Valve B Circuit Shorted |
| P0418 Sec Air Inj Sys Control A Circuit                 |
| P0419 Sec Air Inj Sys Control B Circuit                 |
| P0420 1/1 Catalytic Conv Eff                            |
| P0421 Warm Up Catalyst Eff Below Threshold Bank1        |
| P0422 Main Catalyst Eff Below Threshold Bank1           |
| P0423 Heated Catalyst Eff Below Threshold Bank1         |
| P0424 Heated Catalyst Temp Below Threshold Bank1        |
| P0425 Catalyst Temp Sensor Bank1                        |
| P0426 Catalyst Temp Sensor Range/Perf Bank1             |
| P0427 Catalyst Temp Sensor Low Bank1                    |
| P0428 Catalyst Temp Sensor Hi Bank1                     |
| P0429 Catalyst Heater Control Circuit Bank1             |
| P0430 1/2 Catalytic Conv Eff                            |
| P0431 Warm Up Catalyst Eff Below Threshold Bank2        |
| P0432 1/2 Catalytic Conv Eff                            |
| P0433 Heated Catalyst Eff Below Threshold Bank2         |
| P0434 Heated Catalyst Temp Below Threshold Bank2        |
| P0435 Catalyst Temp Sensor Bank2                        |
| P0436 Catalyst Temp Sensor Range/Perf Bank2             |
| P0437 Catalyst Temp Sensor Low Bank2                    |
| P0438 Catalyst Temp Sensor Hi Bank2                     |
| P0439 Catalyst Heater Control Circuit Bank2             |
| P0440 Evap Sys Perf                                     |

|   |
|---|
| P0441 Evap Purge Flow Monitor                               |
| P0442 Evap Leak Monitor Medium Leak Detected                |
| P0443 Evap Purge Solenoid Circuit                           |
| P0444 Evap Emission Sys Purge Control Valve Circuit Open    |
| P0445 Evap Emission Sys Purge Control Valve Circuit Shorted |
| P0446 Evap Emissions Vent Valve Perf                        |
| P0447 Evap Emission Sys Vent Control Circuit Open           |
| P0448 Evap Emission Sys Vent Control Circuit Shorted        |
| P0449 Evap Emission Sys Vent Valve/Solenoid Circuit         |
| P0450 Evap Emission Sys Press Sensor/Switch                 |
| P0451 Evap Emission Sys Press Sensor/Switch Range/Perf      |
| P0452 Evap Emissions Press Sensor Circuit Low Volts         |
| P0453 Evap Emissions Press Sensor Circuit Hi Volts          |
| P0454 Evap Emission Sys Press Sensor/Switch Interm          |
| P0455 Evap Leak Monitor Large Leak Detected                 |
| P0456 Evap Leak Monitor Small (0.020) Leak Detected         |
| P0457 EVAP Emission Sys Leak Detected (fuel cap loose/off)  |
| P0458 EVAP Emission Sys Purge Control Valve Circuit Low     |
| P0459 EVAP Emission Sys Purge Control Valve Circuit Hi      |
| P0460 Fuel Level Unit No Change Over Miles                  |
| P0461 Fuel Level Unit No Changeover Time                    |
| P0462 Fuel Level Sending Unit Volts Too Low                 |
| P0463 Fuel Level Sending Unit Volts Too Hi                  |
| P0464 Fuel Level Sensor A Circuit Interm                    |
| P0465 EVAP Purge Flow Sensor Circuit                        |
| P0466 EVAP Purge Flow Sensor Circuit Range/Perf             |
| P0467 EVAP Purge Flow Sensor Circuit Low                    |
| P0468 EVAP Purge Flow Sensor Circuit Hi                     |
| P0469 EVAP Purge Flow Sensor Circuit Interm                 |
| P0470 Exhaust Press Sensor                                  |
| P0471 Exhaust Press Sensor Range/Perf                       |
| P0472 Exhaust Press Sensor Low                              |
| P0473 Exhaust Press Sensor Hi                               |
| P0474 Exhaust Press Sensor Interm                           |
| P0475 EPR Solenoid Circuit                                  |

|   |
|---|
| P0476 Exhaust Press Control Valve Range/Perf  |
| P0477 Exhaust Press Control Relay Low   |
| P0478 Exhaust Press Control Relay Hi  |
| P0479 Exhaust Press Control Valve Interm  |
| P0480 Cooling Fan1 Control Circuit Open(Low speed fan)  |
| P0481 Fan 2 Control Circuit   |
| P0482 Fan 3 Control Circuit   |
| P0483 Cooling Fan Speed   |
| P0484 Fan Circuit Over Current  |
| P0485 Fan Power/Ground Circuit  |
| P0486 Exhaust Gas ReCircuitulation Sensor B Circuit   |
| P0487 Exhaust Gas ReCircuitulation Throttle Pos Control Circuit                                 |
| P0488 Exhaust Gas ReCircuitulation Throttle Pos Control Range/Perf                              |
| P0489 Exhaust Gas ReCircuitulation Control Circuit Low  |
| P0490 Exhaust Gas ReCircuitulation Control Circuit Hi   |
| P0491 Sec Air Inj Sys Insufficient Flow Bank1   |
| P0492 Sec Air Inj Sys Insufficient Flow Bank2   |
| P0493 Fan Overspeed   |
| P0494 Fan Speed Low   |
| P0495 Fan Speed Hi  |
| P0496 EVAP Emission Sys Hi Purge Flow   |
| P0497 EVAP Emission Sys Low Purge Flow  |
| P0500 No Vehicle Speed Sensor Signal  |
| P0501 Vehicle Speed Sensor Perf   |
| P0502 Vehicle Speed Sensor A Circuit Low Input  |
| P0503 Vehicle Speed Sensor A Interm/Erratic/Hi  |
| P0504 Brake Switch A/B Correlation  |
| P0505 Idle Air Control Motor Circuits   |
| P0506 Idle Control Sys Low RPM  |
| P0507 Idle Control Sys Hi RPM   |
| P0508 Undercurrent condition detected in linear idle air Control motor feedback Sensore Circuit |
| P0509 Over current condition detected in linear idle air Control motor feedback Sensore Circuit |
| P0510 Closed Throttle Pos Switch  |

|   |
|---|
| P0511 Idle Air Control Circuit                          |
| P0512 Starter Request Circuit                           |
| P0513 Incorrect Immobilizer Key                         |
| P0514 Battery Temp Sensor Perf                          |
| P0515 Battery Temp Sensor Circuit                       |
| P0516 Battery Temp Sensor Low                           |
| P0517 Battery Temp Sensor Hi                            |
| P0518 Idle Air Control Circuit Interm                   |
| P0519 Idle Air Control Sys Perf                         |
| P0520 Engine Oil Press Sensor/Switch Circuit            |
| P0521 Oil Press Sensor Perf                             |
| P0522 Oil Press Sensor Low                              |
| P0523 Oil Press Sensor Hi                               |
| P0524 Oil Press Too Low                                 |
| P0525 Cruise Control Servo Control Circuit Range/Perf   |
| P0526 Fan Speed Sensor Circuit                          |
| P0527 Fan Speed Sensor Circuit Range/Perf               |
| P0528 Fan Speed Sensor Circuit No Signal                |
| P0529 Fan Speed Sensor Circuit Interm                   |
| P0530 A/C Refrigerant Press Sensor A Circuit            |
| P0531 A/C Refrigerant Press Sensor A Circuit Range/Perf |
| P0532 A/C Press Sensor Low                              |
| P0533 A/C Press Sensor Hi                               |
| P0534 Air Conditioner Refrigerant Charge Loss           |
| P0535 A/C Evaporator Temp Sensor Circuit                |
| P0536 A/C Evaporator Temp Sensor Circuit Range/Perf     |
| P0537 A/C Evaporator Temp Sensor Circuit Low            |
| P0538 A/C Evaporator Temp Sensor Circuit Hi             |
| P0539 A/C Evaporator Temp Sensor Circuit Interm         |
| P0540 Intake Air Heater A Circuit                       |
| P0541 Intake Air Relay 1 Low                            |
| P0542 Intake Air Relay 1 Hi                             |
| P0543 Intake Air Heater A Circuit Open                  |
| P0544 Exhaust Gas Temp Sensor Circuit Bank1 Sensor1     |
| P0545 A/C Clutch Relay Circuit                          |



|  |
|--|
| P0546 Exhaust Gas Temp Sensor Circuit Hi Bank1 Sensor1         |
| P0547 Exhaust Gas Temp Sensor Circuit Bank2 Sensor1            |
| P0548 Exhaust Gas Temp Sensor Circuit Low Bank2 Sensor1        |
| P0549 Exhaust Gas Temp Sensor Circuit Hi Bank2 Sensor1         |
| P0550 Power Steering Press Sensor/Switch Circuit               |
| P0551 Power Steering Switch Failure                            |
| P0552 Power Steering Press Sensor/Switch Circuit Low Input     |
| P0553 Power Steering Press Sensor/Switch Circuit Hi Input      |
| P0554 Power Steering Press Sensor/Switch Circuit Interm        |
| P0555 Brake Booster Press Sensor Circuit                       |
| P0556 Brake Booster Press Sensor Circuit Range/Perf            |
| P0557 Brake Booster Press Sensor Circuit Low Input             |
| P0558 Brake Booster Press Sensor Circuit Hi Input              |
| P0559 Brake Booster Press Sensor Circuit Interm                |
| P0560 Sys Voltage  |
| P0561 Sys Voltage Unstable                                     |
| P0562 Charging Sys Voltage Too Low                             |
| P0563 Charging Sys Voltage Too Hi                              |
| P0564 Cruise Control Multi-Function Input A Circuit            |
| P0565 Cruise Control On Signal                                 |
| P0566 Cruise Control Off Signal                                |
| P0567 Cruise Resume Circuit                                    |
| P0568 Cruise Set Circuit                                       |
| P0569 Cruise Control Coast Signal                              |
| P0570 Cruise Control Accelerate Signal                         |
| P0571 Cruise Brake Switch Circuit                              |
| P0572 Brake Switch 1 Low                                       |
| P0573 Brake Switch 1 Hi  |
| P0574 Cruise Control Sys-Vehicle Speed Too Hi                  |
| P0575 Cruise Switch Failure (Shorted)                          |
| P0576 Cruise Control Input Circuit Low                         |
| P0577 Cruise Switch Failure (Open)                             |
| P0578 Cruise Control Multi-Function Input A Circuit Stuck      |
| P0579 Cruise Control Multi-Function Input A Circuit Range/Perf |
| P0580 Speed Control Multiplexed Switch 1 Low                   |

|  |
|--|
| P0581 Speed Control Multiplexed Switch 1 Hi                    |
| P0582 Cruise Control Vacuum Control Circuit/Open               |
| P0583 Cruise Control Vacuum Control Circuit Low                |
| P0584 Cruise Control Vacuum Control Circuit Hi                 |
| 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 Hi                   |
| 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/Perf |
| P0592 Cruise Control Multi-Function Input B Circuit Low        |
| P0593 Cruise Control Multi-Function Input B Circuit Hi         |
| P0594 Cruise Control Servo Control Circuit/Open                |
| P0595 Cruise Control Servo Control Circuit Low                 |
| P0596 Cruise Control Servo Control Circuit Hi                  |
| P0597 Thermostat Heater Control Circuit/Open                   |
| P0598 Thermostat Heater Control Circuit Low                    |
| P0599 Thermostat Heater Control Circuit Hi                     |
| P0600 PCM Failure SPI Comms                                    |
| P0601 PCM Internal Controller Failure                          |
| P0602 ECM Fueling Calibration Error                            |
| P0603 VCM Memory Reset   |
| P0604 RAM Check Failure  |
| P0605 ROM Check Failure  |
| P0606 ECM Failure  |
| P0607 ECU Internal Perf  |
| P0608 Control Mod VSS Output A                                 |
| P0609 Control Mod VSS Output B                                 |
| P0610 Control Mod Vehicle Options Error                        |
| P0611 Fuel Injector Control Mod Perf                           |
| P0612 Fuel Injector Control Mod Relay Control                  |
| P0613 TCM Processor  |
| P0614 ECM / TCM Incompatible                                   |
| P0615 Starter Relay Control Circuit                            |

|  |
|--|
| P0616 Starter Relay Circuit Low                  |
| P0617 Starter Relay Circuit Hi                   |
| P0618 Alternative Fuel Control Mod KAM Error     |
| P0619 Alternative Fuel Control Mod RAM/ROM Error |
| P0620 Generator Control Circuit                  |
| P0621 Alternator L Terminal Circuit              |
| P0622 Alternator Field Not Switching Properly    |
| P0623 Generator Lamp Control Circuit             |
| P0624 Fuel Cap Lamp Control Circuit              |
| P0625 Generator Field/F Terminal Circuit Low     |
| P0626 Generator Field/F Terminal Circuit Hi      |
| P0627 Fuel Pump A Control Circuit /Open          |
| P0628 Fuel Pump Relay Circuit Low (or)           |
| P0628 Fuel Lift Pump Control Circuit Low         |
| P0629 Fuel Pump Relay Circuit Hi (or)            |
| P0629 Fuel Lift Pump Control Circuit Hi          |
| P0630 VIN Not Programmed in PCM                  |
| P0631 VIN Not Programmed or Incompatible-TCM     |
| P0632 Odometer Not Programmed-ECM/PCM            |
| P0633 SKIM Key Not Programmed in PCM             |
| P0634 PCM/ECM/TCM Internal Temp Too Hi           |
| P0635 Power Steering Control Circuit             |
| P0636 Power Steering Control Circuit Low         |
| P0637 Power Steering Control Circuit Hi          |
| P0638 Throttle Actuator Control Range/Perf Bank1 |
| P0639 Throttle Actuator Control Range/Perf Bank2 |
| P0640 Intake Air Heater Control Circuit          |
| P0641 Sensor Ref Voltage A Circuit/Open          |
| P0642 Sensor Ref Voltage 1 Circuit Low           |
| P0643 Sensor Ref Voltage 1 Circuit Hi            |
| P0644 Driver Display Serial Comm Circuit         |
| P0645 A/C Clutch Relay Circuit Perf              |
| P0646 A/C Clutch Relay Circuit Low               |
| P0647 A/C Clutch Relay Circuit Hi                |
| P0648 Immobilizer Lamp Control Circuit           |

|  |
|--|
| P0649 Speed Control Lamp Control Circuit                   |
| P0650 Malfunction Indicator Lamp (MIL) Circuit             |
| P0651 Sensor Ref Voltage B Circuit/Open                    |
| P0652 Sensor Ref Voltage 2 Circuit Low                     |
| P0653 Sensor Ref Voltage 2 Circuit Hi                      |
| P0654 Engine Speed 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 Hi                 |
| P0660 Intake Manif Tuning Valve Control Circuit/Open Bank1 |
| P0661 Intake Manif Tuning Valve Control Circuit Low Bank1  |
| P0662 Intake Manif Tuning Valve Control Circuit Hi Bank1   |
| P0663 Intake Manif Tuning Valve Control Circuit/Open Bank2 |
| P0664 Intake Manif Tuning Valve Control Circuit Low Bank2  |
| P0665 Intake Manif Tuning Valve Control Circuit Hi Bank2   |
| P0666 PCM/ECM/TCM Internal Temp Sensor Circuit             |
| P0667 PCM/ECM/TCM Internal Temp Sensor Range/Perf          |
| P0668 PCM/ECM/TCM Internal Temp Sensor Circuit Low         |
| P0669 PCM/ECM/TCM Internal Temp Sensor Circuit Hi          |
| P0670 Glow Plug Mod 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 Mod to PCM Comm Circuit            |

|  |
|--|
| P0684 Glow Plug Control Mod to PCM Comm Circuit Range/Perf |
| P0685 ECM/PCM Power Relay Control Circuit /Open            |
| P0686 ECM/PCM Power Relay Control Circuit Low              |
| P0687 ECM/PCM Power Relay Control Circuit Hi               |
| P0688 ECM/PCM Power Relay Sensore Circuit /Open            |
| P0689 ECM/PCM Power Relay Sensore Circuit Low              |
| P0690 ECM/PCM Power Relay Sensore Circuit Hi               |
| P0691 Fan 1 Control Circuit Low                            |
| P0692 Fan 1 Control Circuit Hi                             |
| P0693 Fan 2 Control Circuit Low                            |
| P0694 Fan 2 Control Circuit Hi                             |
| P0695 Fan 3 Control Circuit Low                            |
| P0696 Fan 3 Control Circuit Hi                             |
| P0697 Sensor Ref Voltage C Circuit/Open                    |
| P0698 Sensor Ref Voltage 3 Circuit Low                     |
| P0699 Sensor Ref Voltage 3 Circuit Hi                      |
| P0700 EATX Controller DTC Present                          |
| P0701 Trans Control Sys Range/Perf                         |
| P0702 Trans Control Sys Electrical                         |
| P0703 Brake Switch Sensore Circuit                         |
| P0704 Clutch Switch Circuit (M/T)                          |
| P0705 Trans Range Sensor Circuit Malfunction (PRNDL Input) |
| P0706 Trans Range Sensor Circuit Range/Perf                |
| P0707 Trans Range Sensor Circuit Low                       |
| P0708 Trans Range Sensor Circuit Hi                        |
| P0709 Trans Range Sensor Circuit Interm                    |
| P0710 Trans Fluid Temp Sensor A Circuit                    |
| P0711 Trans Temp Sensor, No Temp Rise After Start          |
| P0712 Trans Temp Sensor Voltage Too Low                    |
| P0713 Trans Temp Sensor Voltage Too Hi                     |
| P0714 Trans Fluid Temp Sensor A Circuit Interm             |
| P0715 Input/Turbine Speed Sensor A Circuit                 |
| P0716 Input/Turbine Speed Sensor A Circuit Range/Perf      |
| P0717 Input/Turbine Speed Sensor A Circuit No Signal       |
| P0718 Input/Turbine Speed Sensor A Circuit Interm          |

|  |
|--|
| P0719 Brake Switch B Circuit Low                       |
| P0720 Low Output SPEED Sensor RPM, Above 15 MPH        |
| P0721 Output Speed Sensor Circuit Range/Perf           |
| P0722 Output Speed Sensor Circuit No Signal            |
| P0723 Output Speed Sensor Circuit Interm               |
| P0724 Brake Switch B Circuit Hi                        |
| P0725 Engine Speed Input Circuit                       |
| P0726 Engine Speed Input Circuit Range/Perf            |
| P0727 Engine Speed Input Circuit No Signal             |
| P0728 Engine Speed Input Circuit Interm                |
| 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 Hi               |
| P0740 Torque Conv Clutch, No RPM Drop at Lockup        |
| P0741 Torque Conv Clutch Circuit Perf or Stuck Off     |
| P0742 Torque Conv Clutch Circuit Stuck On              |
| P0743 Torque Conv Clutch Solenoid/Trans Relay Circuits |
| P0744 Torque Conv Clutch Circuit Interm                |
| P0745 Press Control Solenoid A                         |
| P0746 Press Control Solenoid A Perf or Stuck Off       |
| P0747 Press Control Solenoid A Stuck On                |
| P0748 Governor Press Sol Control/Trans Relay Circuits  |
| P0749 Press Control Solenoid A Interm                  |
| P0750 Shift Solenoid A                                 |
| P0751 O/D Switch Pressed (Low) More Than 5 Minutes     |
| P0752 Shift Solenoid A Stuck On                        |
| P0753 Trans 3-4 Shift Sol/Trans Relay Circuits         |

|  |
|--|
| P0754 Shift Solenoid A Interm                    |
| P0755 Shift Solenoid B                           |
| P0756 AW4 Shift Sol B (2-3) Functional Failure   |
| P0757 Shift Solenoid B Stuck On                  |
| P0758 Shift Solenoid B Electrical                |
| P0759 Shift Solenoid B Interm                    |
| P0760 Shift Solenoid C                           |
| P0761 Shift Solenoid C Perf or Stuck Off         |
| P0762 Shift Solenoid C Stuck On                  |
| P0763 Shift Solenoid C Electrical                |
| P0764 Shift Solenoid C Interm                    |
| P0765 Shift Solenoid D                           |
| P0766 Shift Solenoid D Perf or Stuck Off         |
| P0767 Shift Solenoid D Stuck On                  |
| P0768 Shift Solenoid D Electrical                |
| P0769 Shift Solenoid D Interm                    |
| P0770 Shift Solenoid E                           |
| P0771 Shift Solenoid E Perf or Stuck Off         |
| P0772 Shift Solenoid E Stuck On                  |
| P0773 Shift Solenoid E Electrical                |
| P0774 Shift Solenoid E Interm                    |
| P0775 Press Control Solenoid B                   |
| P0776 Press Control Solenoid B Perf or Stuck off |
| P0777 Press Control Solenoid B Stuck On          |
| P0778 Press Control Solenoid B Electrical        |
| P0779 Press Control Solenoid B Interm            |
| P0780 Shift Error                                |
| P0781 1-2 Shift                                  |
| P0782 2-3 Shift                                  |
| P0783 3-4 Shift Sol, No RPM Drop at Lockup       |
| P0784 4-5 Shift                                  |
| P0785 Shift/Timing Solenoid                      |
| P0786 Shift/Timing Solenoid Range/Perf           |
| P0787 Shift/Timing Solenoid Low                  |
| P0788 Shift/Timing Solenoid Hi                   |

|  |
|--|
| P0789 Shift/Timing Solenoid Interm                         |
| P0790 Normal/Perf Switch Circuit                           |
| P0791 Intermediate Shaft Speed Sensor A Circuit            |
| P0792 Intermediate Shaft Speed Sensor A Circuit Range/Perf |
| P0793 Intermediate Shaft Speed Sensor A Circuit No Signal  |
| P0794 Intermediate Shaft Speed Sensor A Circuit Interm     |
| P0795 Press Control Solenoid C                             |
| P0796 Press Control Solenoid C Perf or Stuck off           |
| P0797 Press Control Solenoid C Stuck On                    |
| P0798 Press Control Solenoid C Electrical                  |
| P0799 Press Control Solenoid C Interm                      |
| P0800 Transfer Case Control Sys (MIL Request)              |
| P0801 Reverse Gear Lockout Circuit Open or Short           |
| P0802 Trans Control Sys MIL Request Circuit/Open           |
| P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit    |
| P0804 1-4 Upshift (Skip Shift) Lamp Control Circuit        |
| P0805 Clutch Pos Sensor Circuit                            |
| P0806 Clutch Pos Sensor Circuit Range/Perf                 |
| P0807 Clutch Pos Sensor Circuit Low                        |
| P0808 Clutch Pos Sensor Circuit Hi                         |
| P0809 Clutch Pos Sensor Circuit Interm                     |
| P0810 Clutch Pos Control Error                             |
| P0811 Excessive Clutch Slippage                            |
| P0812 Reverse Input Circuit                                |
| P0813 Reverse Output Circuit                               |
| P0814 Trans 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 Trans Range Correlation  |
| P0820 Gear Lever X-Y Pos Sensor Circuit                    |
| P0821 Gear Lever X Pos Circuit                             |
| P0822 Gear Lever Y Pos Circuit                             |
| P0823 Gear Lever X Pos Circuit Interm                      |



|  |
|--|
| P0824 Gear Lever Y Pos Circuit Interm                      |
| 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 Hi                  |
| P0829 5-6 Shift  |
| P0830 Clutch Depressed Switch Circuit                      |
| P0831 Clutch Pedal Switch A Circuit Low                    |
| P0832 Clutch Pedal Switch A Circuit Hi                     |
| P0833 Clutch Released Switch Circuit                       |
| P0834 Clutch Pedal Switch B Circuit Low                    |
| P0835 Clutch Pedal Switch B Circuit Hi                     |
| P0836 Four Wheel Drive (4WD) Switch Circuit                |
| P0837 4WD Switch Perf                                      |
| P0838 4WD Switch Circuit Low                               |
| P0839 4WD Switch Circuit Hi                                |
| P0840 Trans Fluid Press Sensor/Switch A Circuit            |
| P0841 Trans Fluid Press Sensor/Switch A Circuit Range/Perf |
| P0842 Trans Fluid Press Sensor/Switch A Circuit Low        |
| P0843 Trans Fluid Press Sensor/Switch A Circuit Hi         |
| P0844 Trans Fluid Press Sensor/Switch A Circuit Interm     |
| P0845 Trans Fluid Press Sensor/Switch B Circuit            |
| P0846 Trans Fluid Press Sensor/Switch B Circuit Range/Perf |
| P0847 Trans Fluid Press Sensor/Switch B Circuit Low        |
| P0848 Trans Fluid Press Sensor/Switch B Circuit Hi         |
| P0849 Trans Fluid Press Sensor/Switch B Circuit Interm     |
| P0850 Park/Neutral Switch Input Circuit                    |
| P0851 Park/Neutral Switch Input Circuit Low                |
| P0852 Park/Neutral Switch Input Circuit Hi                 |
| P0853 Drive Switch Input Circuit                           |
| P0854 Drive Switch Input Circuit Low                       |
| P0855 Drive Switch Input Circuit Hi                        |
| P0856 Traction Control Input Signal                        |
| P0857 Traction Control Input Signal Range/Perf             |
| P0858 Traction Control Input Signal Low                    |

|  |
|--|
| P0859 Traction Control Input Signal Hi                     |
| P0860 Gear Shift Mod Comm Circuit                          |
| P0861 Gear Shift Mod Comm Circuit Low                      |
| P0862 Gear Shift Mod Comm Circuit Hi                       |
| P0863 TCM Comm Circuit                                     |
| P0864 TCM Comm Circuit Range/Perf                          |
| P0865 TCM Comm Circuit Low                                 |
| P0866 TCM Comm Circuit Hi                                  |
| P0867 Trans Fluid Press                                    |
| P0868 Trans Fluid Press Low                                |
| P0869 Trans Fluid Press Hi                                 |
| P0870 Trans Fluid Press Sensor/Switch C Circuit            |
| P0871 Trans Fluid Press Sensor/Switch C Circuit Range/Perf |
| P0872 Trans Fluid Press Sensor/Switch C Circuit Low        |
| P0873 Trans Fluid Press Sensor/Switch C Circuit Hi         |
| P0874 Trans Fluid Press Sensor/Switch C Circuit Interm     |
| P0875 Trans Fluid Press Sensor/Switch D Circuit            |
| P0876 Trans Fluid Press Sensor/Switch D Circuit Range/Perf |
| P0877 Trans Fluid Press Sensor/Switch D Circuit Low        |
| P0878 Trans Fluid Press Sensor/Switch D Circuit Hi         |
| P0879 Trans Fluid Press Sensor/Switch D Circuit Interm     |
| P0880 TCM Power Input Signal                               |
| P0881 TCM Power Input Signal Range/Perf                    |
| P0882 TCM Power Input Signal Low                           |
| P0883 TCM Power Input Signal Hi                            |
| P0884 TCM Power Input Signal Interm                        |
| P0885 TCM Power Relay Control Circuit/Open                 |
| P0886 TCM Power Relay Control Circuit Low                  |
| P0887 TCM Power Relay Control Circuit Hi                   |
| P0888 TCM Power Relay Sensore Circuit                      |
| P0889 TCM Power Relay Sensore Circuit Range/Perf           |
| P0890 TCM Power Relay Sensore Circuit Low                  |
| P0891 TCM Power Relay Sensore Circuit Hi                   |
| P0892 TCM Power Relay Sensore Circuit Interm               |
| P0893 Multiple Gears Engaged                               |

|   |
|---|
| P0894 Trans Component Slipping                            |
| P0895 Shift Time Too Short                                |
| P0896 Shift Time Too Long                                 |
| P0897 Trans Fluid Deteriorated                            |
| P0898 Trans Control Sys MIL Request Circuit Low           |
| P0900 Clutch Actuator Circuit/Open                        |
| P0901 Clutch Actuator Circuit Range/Perf                  |
| P0902 Clutch Actuator Circuit Low                         |
| P0903 Clutch Actuator Circuit Hi                          |
| P0904 Gate Select Pos Circuit                             |
| P0905 Gate Select Pos Circuit Range/Perf                  |
| P0906 Gate Select Pos Circuit Low                         |
| P0907 Gate Select Pos Circuit Hi                          |
| P0908 Gate Select Pos Circuit Interm                      |
| P0909 Gate Select Control Error                           |
| P0910 Gate Select Actuator Circuit/Open                   |
| P0911 Gate Select Actuator Circuit Range/Perf             |
| P0912 Gate Select Actuator Circuit Low                    |
| P0913 Gate Select Actuator Circuit Hi                     |
| P0914 Gear Shift Pos Circuit                              |
| P0915 Gear Shift Pos Circuit Range/Perf                   |
| P0916 Gear Shift Pos Circuit Low                          |
| P0917 Gear Shift Pos Circuit Hi                           |
| P0918 Gear Shift Pos Circuit Interm                       |
| P0919 Gear Shift Pos Control Error                        |
| P0920 Gear Shift Forward Actuator Circuit/Open            |
| P0921 Gear Shift Forward Actuator Circuit Range/Perf      |
| P0922 Gear Shift Forward Actuator Circuit Low             |
| P0923 Gear Shift Forward Actuator Circuit Hi              |
| P0924 Gear Shift Reverse Actuator Circuit/Open            |
| P0925 Gear Shift Reverse Actuator Circuit Range/Perf      |
| P0926 Gear Shift Reverse Actuator Circuit Low             |
| P0927 Gear Shift Reverse Actuator Circuit Hi              |
| P0928 Gear Shift Lock Solenoid Control Circuit/Open       |
| P0929 Gear Shift Lock Solenoid Control Circuit Range/Perf |

|   |
|---|
| P0930 Gear Shift Lock Solenoid Control Circuit Low        |
| P0931 Gear Shift Lock Solenoid Control Circuit Hi         |
| P0932 Hydraulic Press Sensor Circuit                      |
| P0933 Hydraulic Press Sensor Range/Perf                   |
| P0934 Hydraulic Press Sensor Circuit Low                  |
| P0935 Hydraulic Press Sensor Circuit Hi                   |
| P0936 Hydraulic Press Sensor Circuit Interm               |
| P0937 Hydraulic Oil Temp Sensor Circuit                   |
| P0938 Hydraulic Oil Temp Sensor Range/Perf                |
| P0939 Hydraulic Oil Temp Sensor Circuit Low               |
| P0940 Hydraulic Oil Temp Sensor Circuit Hi                |
| P0941 Hydraulic Oil Temp Sensor Circuit Interm            |
| P0942 Hydraulic Press Unit                                |
| P0943 Hydraulic Press Unit Cycling Period Too Short       |
| P0944 Hydraulic Press Unit Loss of Press                  |
| P0945 Hydraulic Pump Relay Circuit/Open                   |
| P0946 Hydraulic Pump Relay Circuit Range/Perf             |
| P0947 Hydraulic Pump Relay Circuit Low                    |
| P0948 Hydraulic Pump Relay Circuit Hi                     |
| P0949 Auto Shift Manual Adaptive Learning Not Complete    |
| P0950 Auto Shift Manual Control Circuit                   |
| P0951 Auto Shift Manual Control Circuit Range/Perf        |
| P0952 Auto Shift Manual Control Circuit Low               |
| P0953 Auto Shift Manual Control Circuit Hi                |
| P0954 Auto Shift Manual Control Circuit Interm            |
| P0955 Auto Shift Manual Mode Circuit                      |
| P0956 Auto Shift Manual Mode Circuit Range/Perf           |
| P0957 Auto Shift Manual Mode Circuit Low                  |
| P0958 Auto Shift Manual Mode Circuit Hi                   |
| P0959 Auto Shift Manual Mode Circuit Interm               |
| P0960 Press Control Solenoid A Control Circuit/Open       |
| P0961 Press Control Solenoid A Control Circuit Range/Perf |
| P0962 Press Control Solenoid A Control Circuit Low        |
| P0963 Press Control Solenoid A Control Circuit Hi         |
| P0964 Press Control Solenoid B Control Circuit/Open       |

|  |
|--|
| P0965 Press Control Solenoid B Control Circuit Range/Perf  |
| P0966 Press Control Solenoid B Control Circuit Low         |
| P0967 Press Control Solenoid B Control Circuit Hi          |
| P0968 Press Control Solenoid C Control Circuit/Open        |
| P0969 Press Control Solenoid C Control Circuit Range/Perf  |
| P0970 Press Control Solenoid C Control Circuit Low         |
| P0971 Press Control Solenoid C Control Circuit Hi          |
| P0972 Shift Solenoid A Control Circuit Range/Perf          |
| P0973 Shift Solenoid A Control Circuit Low                 |
| P0974 Shift Solenoid A Control Circuit Hi                  |
| P0975 Shift Solenoid B Control Circuit Range/Perf          |
| P0976 Shift Solenoid B Control Circuit Low                 |
| P0977 Shift Solenoid B Control Circuit Hi                  |
| P0978 Shift Solenoid C Control Circuit Range/Perf          |
| P0979 Shift Solenoid C Control Circuit Low                 |
| P0980 Shift Solenoid C Control Circuit Hi                  |
| P0981 Shift Solenoid D Control Circuit Range/Perf          |
| P0982 Shift Solenoid D Control Circuit Low                 |
| P0983 Shift Solenoid D Control Circuit Hi                  |
| P0984 Shift Solenoid E Control Circuit Range/Perf          |
| P0985 Shift Solenoid E Control Circuit Low                 |
| P0986 Shift Solenoid E Control Circuit Hi                  |
| P0987 Trans Fluid Press Sensor/Switch E Circuit            |
| P0988 Trans Fluid Press Sensor/Switch E Circuit Range/Perf |
| P0989 Trans Fluid Press Sensor/Switch E Circuit Low        |
| P0990 Trans Fluid Press Sensor/Switch E Circuit Hi         |
| P0991 Trans Fluid Press Sensor/Switch E Circuit Interm     |
| P0992 Trans Fluid Press Sensor/Switch F Circuit            |
| P0993 Trans Fluid Press Sensor/Switch F Circuit Range/Perf |
| P0994 Trans Fluid Press Sensor/Switch F Circuit Low        |
| P0995 Trans Fluid Press Sensor/Switch F Circuit Hi         |
| P0996 Trans Fluid Press Sensor/Switch F Circuit Interm     |
| P0997 Shift Solenoid F Control Circuit Range/Perf          |
| P0998 Shift Solenoid F Control Circuit Low                 |
| P0999 Shift Solenoid F Control Circuit Hi                  |

|  |
|--|
| P0A00 Motor Electronics Coolant Temp Sensor Circuit            |
| P0A01 Motor Electronics Coolant Temp Sensor Circuit Range/Perf |
| P0A02 Motor Electronics Coolant Temp Sensor Circuit Low        |
| P0A03 Motor Electronics Coolant Temp Sensor Circuit Hi         |
| P0A04 Motor Electronics Coolant Temp Sensor Circuit Interm     |
| P0A05 Motor Electronics Coolant Pump Control Circuit/Open      |
| P0A06 Motor Electronics Coolant Pump Control Circuit Low       |
| P0A07 Motor Electronics Coolant Pump Control Circuit Hi        |
| P0A08 DC/DC Conv Status Circuit                                |
| P0A09 DC/DC Conv Status Circuit Low Input                      |
| P0A10 DC/DC Conv Status Circuit Hi Input                       |
| P0A11 DC/DC Conv Enable Circuit/Open                           |
| P0A12 DC/DC Conv Enable Circuit Low                            |
| P0A13 DC/DC Conv Enable Circuit Hi                             |
| P0A14 Engine Mount Control Circuit/Open                        |
| P0A15 Engine Mount Control Circuit Low                         |
| P0A16 Engine Mount Control Circuit Hi                          |
| P0A17 Motor Torque Sensor Circuit                              |
| P0A18 Motor Torque Sensor Circuit Range/Perf                   |
| P0A19 Motor Torque Sensor Circuit Low                          |
| P0A20 Motor Torque Sensor Circuit Hi                           |
| P0A21 Motor Torque Sensor Circuit Interm                       |
| P0A22 Generator Torque Sensor Circuit                          |
| P0A23 Generator Torque Sensor Circuit Range/Perf               |
| P0A24 Generator Torque Sensor Circuit Low                      |
| P0A25 Generator Torque Sensor Circuit Hi                       |
| P0A26 Generator Torque Sensor Circuit Interm                   |
| P0A27 Battery Power Off Circuit                                |
| P0A28 Battery Power Off Circuit Low                            |
| P0A29 Battery Power Off Circuit Hi                             |
| P1000 Ignition Circuit Low                                     |
| P1001 Ignition Circuit Hi                                      |
| P1004 ECU Battery Feed & Power Grounds                         |
| P1005 Sys Ground Circuit                                       |
| P1006 EGR/EVAP Solenoid Circuit Low                            |

|   |
|---|
| P1007 EGR/EVAP Solenoid Circuit Hi  |
| P1008 Power Steering Circuit Low  |
| P1009 Power Steering Circuit Hi   |
| P1012 MPA Circuit Low   |
| P1013 MPA Circuit Hi  |
| P1014 Fuel Pump Circuit Low   |
| P1015 Fuel Pump Circuit Hi  |
| P1016 Charge Air Temp Circuit Low   |
| P1017 Charge Air Temp Circuit Hi  |
| P1018 Serial Data Circuit   |
| P1019 Power Latch Not Set   |
| P1021 Engine Failed To Start Due To Mechanical, Fuel or Ignition Conditions |
| P1022 Starter Relay Circuit Low   |
| P1024 ECU Start Circuit Low   |
| P1025 WOT Circuit Low   |
| P1026 WOT Circuit Hi  |
| P1027 ECU Sees Wide Open Throttle   |
| P1028 ECU Does Not See Wide Open Throttle                                   |
| P1029 ISA Closed Throttle Circuit Low                                       |
| P1030 ISA Closed Throttle Circuit Hi  |
| P1031 ECU Sees Closed Throttle  |
| P1032 ECU Does Not See Closed Throttle                                      |
| P1033 ISA Circuits  |
| P1037 TP Sensor Circuit Reads Low   |
| P1038 Park/Neutral Line Hi  |
| P1039 Park/Neutral Line Low   |
| P1040 Latched B+ Line Low   |
| P1041 Latched B+ Line Hi  |
| P1042 No Latched B+ 1/2 Volt Drop   |
| P1043 Shift Lamp Circuit Grounded   |
| P1044 D2-1 Circuit Low (A/T) or   |
| P1044 Upshift Lamp Circuit (M/T) or   |
| P1044 Shift Lamp Circuit Hi   |
| P1045 Shift Lamp Circuit Open   |
| P1047 Wrong ECU   |

|   |
|---|
| P1048 M/T Vehicle Configuration                                 |
| P1049 A/T Vehicle Configuration                                 |
| P1050 Idle RPM Low  |
| P1051 Idle RPM Hi   |
| P1052 MAP Sensor Out Of Limits                                  |
| P1053 Change In MAP Reading Out Of Limits                       |
| P1054 Coolant Sensor & 5V Supply for TP Sensor/MAP Circuits Low |
| P1055 Coolant Sensor Circuit Hi                                 |
| P1056 Inactive Coolant Temp Sensor                              |
| P1059 A/C Request Circuit Low                                   |
| P1060 A/C Request Circuit Hi                                    |
| P1061 A/C Select Circuit Low                                    |
| P1062 A/C Select Circuit Hi                                     |
| P1063 A/C Clutch Circuit Low                                    |
| P1064 A/C Clutch Circuit Hi & Power Steering Input              |
| P1068 Latch Relay Circuit Hi                                    |
| P1069 No Tach   |
| P1074 ECU Does Not See Speed Sensor                             |
| P1106 MAP Sensor Circuit Interm Hi Voltage                      |
| P1107 MAP Sensor Circuit Interm Low Voltage                     |
| P1110 Decreased Engine Perf Due To Hi Intake Air Temp           |
| P1111 IAT Sensor Circuit Interm Hi Voltage                      |
| P1112 IAT Sensor Circuit Interm Low Voltage                     |
| P1114 ECT Sensor Circuit Interm Low Voltage                     |
| P1115 ECT Sensor Circuit Interm Hi Voltage                      |
| P1121 TPS Circuit Interm Hi Voltage                             |
| P1122 TPS Circuit Interm Low Voltage                            |
| P1125 Accelerator Pedal Pos Sys                                 |
| P1133 HO2S Insufficient Switching Bank1 Sensor1                 |
| P1134 HO2S Insufficient Transition Time Ratio Bank1 Sensor1     |
| P1153 HO2S Insufficient Switching Bank2 Sensor1                 |
| P1154 HO2S Insufficient Transition Time Ratio Bank2 Sensor1     |
| P1180 Decreased Engine Perf Due To Hi Inj Pump Fuel Temp        |
| P1191 Intake Air Duct Leak                                      |
| P1192 Inlet Air Temp Sensor Voltage Low                         |



|   |
|---|
| P1193 Inlet Air Temp Voltage Hi                     |
| P1194 O2 Heater Perf                                |
| P1195 1/1 O2 Sensor Slow During Catalyst Monitor    |
| P1196 2/1 O2 Sensor Slow During Catalyst Monitor    |
| P1197 1/2 O2 Sensor Slow During Catalyst Monitor    |
| P1198 Radiator Temp Sensor Volts Too Hi             |
| P1199 Radiator Temp Sensor Volts Too Low            |
| P1214 Inj Pump Timing Offset                        |
| P1216 Fuel Solenoid Response Time Too Short         |
| P1217 Fuel Solenoid Response Time Too Long          |
| P1218 Inj Pump Calibration Circuit                  |
| P1271 Accelerator Pedal Pos Sensor1-2 Correlation   |
| P1272 Accelerator Pedal Pos Sensor2-3 Correlation   |
| P1273 Accelerator Pedal Pos Sensor1-3 Correlation   |
| P1275 Accelerator Pedal Pos Sensor1 Circuit         |
| P1277 Accelerator Pedal Pos Sensor1 Low Voltage     |
| P1278 Accelerator Pedal Pos Sensor1 Hi Voltage      |
| P1280 Accelerator Pedal Pos Sensor2 Circuit         |
| P1281 Engine is Cold Too Long                       |
| P1282 Accelerator Pedal Pos Sensor2 Low Voltage     |
| P1282 Fuel Pump Relay Control Circuit or            |
| P1283 Accelerator Pedal Pos Sensor2 Hi Voltage      |
| P1283 Idle Select Signal Invalid or                 |
| P1284 Fuel Inj Pump Battery Voltage Out Of Range    |
| P1285 Accelerator Pedal Pos Sensor3 Circuit         |
| P1285 Fuel Inj Pump Controller Always On or         |
| P1286 Accelerator Pos Sensor Supply Voltage Too Hi  |
| P1287 Accelerator Pedal Pos Sensor3 Low Voltage     |
| P1287 Fuel Inj Pump Control Supply Voltage Low or   |
| P1288 Accelerator Pedal Pos Sensor3 Hi Voltage      |
| P1288 Intake Manif Short Runner Solenoid Circuit or |
| P1289 Manif Tune Valve Solenoid Circuit             |
| P1290 CNG Fuel Sys Press Too Hi                     |
| P1291 No Temp Rise Seen From Intake Heaters         |
| P1292 CNG Press Sensor Voltage Too Hi               |

|   |
|---|
| P1293 CNG Press Sensor Voltage Too Low                  |
| P1294 Target Idle Not Reached                           |
| P1295 No 5Vs to Throttle Pos Sensor                     |
| P1296 No 5Vs to MAP Sensor                              |
| P1297 No Change in MAP from Start To Run                |
| P1298 Lean Operation at Wide Open Throttle              |
| P1299 Vacuum Leak Found (IAC Fully Seated)              |
| P1336 Crank Pos Sys Variation Not Learned               |
| P1345 Crank Pos/Camshaft Pos Correlation                |
| P1351 Ignition Control Circuit Hi Voltage               |
| P1361 Ignition Control Circuit Low Voltage              |
| P1380 Electronic Brake Control Rough Road Data Unusable |
| P1381 Misfire Detected-No Electronic Brake Control Data |
| P1388 Auto Shutdown Relay Control Circuit               |
| P1389 No ASD Relay Output Voltage at PCM                |
| P1390 Timing Belt Skipped 1 Tooth or More               |
| P1391 Interm Loss of CMP or CKP                         |
| P1398 Misfire Adaptive Numerator at Limit               |
| P1399 Wait to Start Lamp Circuit                        |
| P1403 No 5Vs to EGR Sensor                              |
| P1404 EGR Valve Closed Pintle Pos                       |
| P1406 EGR Valve Pos                                     |
| P1409 EGR Valve Sys leak                                |
| P1415 AIR Sys Bank1                                     |
| P1416 AIR Sys Bank1                                     |
| P1441 Evap Emissions Flow During Non-Purge              |
| P1475 Auxiliary 5V Supply Voltage Hi                    |
| P1476 Too Little Sec Air                                |
| P1477 Too Much Sec Air                                  |
| P1478 Battery Temp Sensor Volts Out of Limit            |
| P1479 Trans Fan Relay Circuit                           |
| P1480 PCV Solenoid Circuit                              |
| P1481 EATX Misfire RPM Signal out of Range              |
| P1482 Catalyst Temp Sensor Circuit Shorted Low          |
| P1483 Catalyst Temp Sensor Circuit Shorted Hi           |

|  |
|--|
| P1484 Catalytic Conv Overheat Detected                   |
| P1485 Air Inj Solenoid Circuit                           |
| P1486 Eva Leak Monitor Pinched Hose Found                |
| P1487 Hi Speed Radiator Fan Control Relay Circuit        |
| P1488 Auxiliary 5V Supply Output Too Low                 |
| P1489 Hi Speed Fan Control Relay Circuit                 |
| P1490 Low Speed Fan Control Relay Circuit                |
| P1491 Radiator Fan Control Relay Circuit                 |
| P1492 Ambient/Battery Temp Sensor Volts Too Hi           |
| P1493 Ambient/Battery Temp Sensor Volts Too Low          |
| P1494 Leak Detection Pump Switch or Mechanical Fault     |
| P1495 Leak Detection Pump Solenoid Circuit               |
| P1496 5V Supply, Output Too Low                          |
| P1498 Hi Speed Radiator Fan Ground Control Relay Circuit |
| P1508 IAC Sys Low RPM                                    |
| P1509 IAC Sys Hi RPM                                     |
| P1594 Charging Sys Voltage Too Hi                        |
| P1595 Speed Control Solenoid Circuits                    |
| P1596 Speed Control Switch Always Hi                     |
| P1597 Speed Control Switch Always Low                    |
| P1598 A/C Press Sensor Volts Too Hi                      |
| P1599 A/C Press Sensor Volts Too Low                     |
| P1602 PCM Not Programmed                                 |
| P1621 PCM Memory Perf or Write                           |
| P1626 Vehicle Theft Sys Control Loss of Data             |
| P1627 A/D Perf   |
| P1630 Vehicle Theft Sys PCM in Learn Mode                |
| P1631 Vehicle Theft Sys Improper Password                |
| P1635 5V Ref ( Circuit                                   |
| P1639 5V Ref ( Circuit                                   |
| P1641 MIL Control Circuit                                |
| P1643 Wait To Start Lamp Control Circuit                 |
| P1646 5V Ref (C) Circuit                                 |
| P1652 J1850 Comms Bus                                    |
| P1653 EGR Vent Solenoid Control Circuit                  |

|  |
|--|
| P1654 Service Throttle Soon Lamp Control Circuit       |
| P1655 EGR Solenoid Control Circuit                     |
| P1656 Wastegate Solenoid Control Circuit               |
| P1680 Clutch Released Switch Circuit                   |
| P1681 No I/P Cluster CCD/J1850 Messages Received       |
| P1682 Charging Sys Voltage Too Low                     |
| P1683 Speed Control Power Relay; or S/C 12v Driver CKT |
| P1684 Battery Disconnected in the last 50 Starts       |
| P1685 Skim Invalid Key                                 |
| P1686 No SKIM BUS Messages Received                    |
| P1687 No Cluster BUS Message                           |
| P1688 Internal Fuel Inj Pump Controller Failure        |
| P1689 No Comm between ECM & Inj Pump Mod               |
| P1690 CKP Sensor Does Not Agree with ECM CKP Sensor    |
| P1691 Fuel Sys ESS RPM Error                           |
| P1692 DTC Set In ECM                                   |
| P1693 DTC Detected in Companion JTEC Mod               |
| P1694 No BUS Message Received from ECM Mod             |
| P1695 No CCD/J1850 Messages from the Body Control Mod. |
| P1696 PCM Failure EEPROM Write Denied                  |
| P1697 PCM Failure SRI Mile Not Stored                  |
| P1698 No CCD/J1850 Message From TCM/PCM                |
| P1719 Skip Shift Solenoid Circuit                      |
| P1740 TCC or O/D Solenoid Perf                         |
| P1756 Gov Press Not Equal to Target @ not15-20 PSI     |
| P1757 Gov Press above 3 PSI in gear with 0 MPH         |
| P1762 Gov Press Sensor Offset Volts Too Low or Hi      |
| P1763 Governor Press Sensor Volts Too Hi               |
| P1764 Governor Press Sensor Volts Too Low              |
| P1765 Trans 12 Volt Supply Relay Control Circuit       |
| P1899 P/N Switch Stuck in Park or in Gear              |
| P2000 NOx Trap Eff Below Threshold Bank1               |
| P2001 NOx Trap Eff Below Threshold Bank2               |
| P2002 Particulate Trap Eff Below Threshold Bank1       |
| P2003 Particulate Trap Eff Below Threshold Bank2       |

|  |
|--|
| P2004 Intake Manif Runner Control Stuck Open Bank1                   |
| P2005 Intake Manif Runner Control Stuck Open Bank2                   |
| P2006 Intake Manif Runner Control Stuck Closed Bank1                 |
| P2007 Intake Manif Runner Control Stuck Closed Bank2                 |
| P2008 Intake Manif Runner Control Circuit/Open Bank1                 |
| P2009 Intake Manif Runner Control Circuit Low Bank1                  |
| P2010 Intake Manif Runner Control Circuit Hi Bank1                   |
| P2011 Intake Manif Runner Control Circuit/Open Bank2                 |
| P2012 Intake Manif Runner Control Circuit Low Bank2                  |
| P2013 Intake Manif Runner Control Circuit Hi Bank2                   |
| P2014 Intake Manif Runner Pos Sensor/Switch Circuit Bank1            |
| P2015 Intake Manif Runner Pos Sensor/Switch Circuit Range/Perf Bank1 |
| P2016 Intake Manif Runner Pos Sensor/Switch Circuit Low Bank1        |
| P2017 Intake Manif Runner Pos Sensor/Switch Circuit Hi Bank1         |
| P2018 Intake Manif Runner Pos Sensor/Switch Circuit Interm Bank1     |
| P2019 Intake Manif Runner Pos Sensor/Switch Circuit Bank2            |
| P2020 Intake Manif Runner Pos Sensor/Switch Circuit Range/Perf Bank2 |
| P2021 Intake Manif Runner Pos Sensor/Switch Circuit Low Bank2        |
| P2022 Intake Manif Runner Pos Sensor/Switch Circuit Hi Bank2         |
| P2023 Intake Manif Runner Pos Sensor/Switch Circuit Interm Bank2     |
| P2024 EVAP Emissions (EVAP) Fuel Vapor Temp Sensor Circuit           |
| P2025 EVAP Fuel Vapor Temp Sensor Perf                               |
| P2026 EVAP Fuel Vapor Temp Sensor Circuit Low Voltage                |
| P2027 EVAP Fuel Vapor Temp Sensor Circuit Hi Voltage                 |
| P2028 EVAP Fuel Vapor Temp Sensor Circuit Interm                     |
| P2029 Fuel Fired Heater Disabled                                     |
| P2030 Fuel Fired Heater Perf   |
| P2031 Exhaust Gas Temp Sensor Circuit Bank1 Sensor2                  |
| P2032 Exhaust Gas Temp Sensor Circuit Low Bank1 Sensor2              |
| P2033 Exhaust Gas Temp Sensor Circuit Hi Bank1 Sensor2               |
| P2034 Exhaust Gas Temp Sensor Circuit Bank2 Sensor2                  |
| P2035 Exhaust Gas Temp Sensor Circuit Low Bank2 Sensor2              |
| P2036 Exhaust Gas Temp Sensor Circuit Hi Bank2 Sensor2               |
| P2037 Reductant Inj Air Press Sensor Circuit                         |
| P2038 Reductant Inj Air Press Sensor Circuit Range/Perf              |

P2039 Reductant Inj Air Press Sensor Circuit Low Input

P2040 Reductant Inj Air Press Sensor Circuit Hi Input

P2041 Reductant Inj Air Press Sensor Circuit Interm

P2042 Reductant Temp Sensor Circuit

P2043 Reductant Temp Sensor Circuit Range/Perf

P2044 Reductant Temp Sensor Circuit Low Input

P2045 Reductant Temp Sensor Circuit Hi Input

P2046 Reductant Temp Sensor Circuit Interm

P2047 Reductant Injector Circuit/Open Bank1 Unit 1

P2048 Reductant Injector Circuit Low Bank1 Unit 1

P2049 Reductant Injector Circuit Hi Bank1 Unit 1

P2050 Reductant Injector Circuit/Open Bank2 Unit 1

P2051 Reductant Injector Circuit Low Bank2 Unit 1

P2052 Reductant Injector Circuit Hi Bank2 Unit 1

P2053 Reductant Injector Circuit/Open Bank1 Unit 2

P2054 Reductant Injector Circuit Low Bank1 Unit 2

P2055 Reductant Injector Circuit Hi Bank1 Unit 2

P2056 Reductant Injector Circuit/Open Bank2 Unit 2

P2057 Reductant Injector Circuit Low Bank2 Unit 2

P2058 Reductant Injector Circuit Hi Bank2 Unit 2

P2059 Reductant Inj Air Pump Control Circuit/Open

P2060 Reductant Inj Air Pump Control Circuit Low

P2061 Reductant Inj Air Pump Control Circuit Hi

P2062 Reductant Supply Control Circuit/Open

P2063 Reductant Supply Control Circuit Low

P2064 Reductant Supply Control Circuit Hi

P2065 Fuel Level Sensor B Circuit

P2066 Fuel Level Sensor B Perf

P2067 Fuel Level Sensor B Circuit Low

P2068 Fuel Level Sensor B Circuit Hi

P2069 Fuel Level Sensor B Circuit Interm

P2070 Intake Manif Tuning (IMT) Valve Stuck Open

P2071 IMT Valve Stuck Closed

P2075 IMT Valve Pos Sensor/Switch Circuit

P2076 IMT Valve Pos Sensor/Switch Circuit Range/Perf

|  |
|--|
| P2077 IMT Valve Pos Sensor/Switch Circuit Low                  |
| P2078 IMT Valve Pos Sensor/Switch Circuit Hi                   |
| P2079 IMT Valve Pos Sensor/Switch Circuit Interm               |
| P2080 Exhaust Gas Temp Sensor Circuit Range/Perf Bank1 Sensor1 |
| P2081 Exhaust Gas Temp Sensor Circuit Interm Bank1 Sensor1     |
| P2082 Exhaust Gas Temp Sensor Circuit Range/Perf Bank2 Sensor1 |
| P2083 Exhaust Gas Temp Sensor Circuit Interm Bank2 Sensor1     |
| P2084 Exhaust Gas Temp Sensor Circuit Range/Perf Bank1 Sensor2 |
| P2085 Exhaust Gas Temp Sensor Circuit Interm Bank1 Sensor2     |
| P2086 Exhaust Gas Temp Sensor Circuit Range/Perf Bank2 Sensor2 |
| P2087 Exhaust Gas Temp Sensor Circuit Interm Bank2 Sensor2     |
| P2088 A Camshaft Pos Actuator Control Circuit Low Bank1        |
| P2089 A Camshaft Pos Actuator Control Circuit Hi Bank1         |
| P2090 B Camshaft Pos Actuator Control Circuit Low Bank1 c)     |
| P2091 B Camshaft Pos Actuator Control Circuit Hi Bank1 c)      |
| P2092 A Camshaft Pos Actuator Control Circuit Low Bank2        |
| P2093 A Camshaft Pos Actuator Control Circuit Hi Bank2         |
| P2094 B Camshaft Pos Actuator Control Circuit Low Bank2 c)     |
| P2095 B Camshaft Pos Actuator Control Circuit Hi Bank2 c)      |
| P2096 Post Catalyst Fuel Trim Sys Too Lean Bank1               |
| P2097 Post Catalyst Fuel Trim Sys Too Rich Bank1               |
| P2098 Post Catalyst Fuel Trim Sys Too Lean Bank2               |
| P2099 Post Catalyst Fuel Trim Sys Too Rich Bank2               |
| P2100 Throttle Actuator Control Motor Circuit/Open             |
| P2101 Throttle Actuator Control Motor Circuit Range/Perf       |
| P2102 Throttle Actuator Control Motor Circuit Low              |
| P2103 Throttle Actuator Control Motor Circuit Hi               |
| P2104 Throttle Actuator Control Sys-Forced Idle                |
| P2105 Throttle Actuator Control Sys-Forced Engine Shutdown     |
| P2106 Throttle Actuator Control Sys-Forced Limited Power       |
| P2107 Throttle Actuator Control Mod Processor                  |
| P2108 Throttle Actuator Control Mod Perf                       |
| P2109 Throttle/Pedal Pos Sensor A Minimum Stop Perf            |
| P2110 Throttle Actuator Control Sys-Forced Limited RPM         |
| P2111 Throttle Actuator Control Sys-Stuck Open                 |

|   |
|---|
| P2112 Throttle Actuator Control Sys-Stuck Closed                |
| P2113 Throttle/Pedal Pos Sensor B Minimum Stop Perf             |
| P2114 Throttle/Pedal Pos Sensor C Minimum Stop Perf             |
| P2115 Throttle/Pedal Pos Sensor D Minimum Stop Perf             |
| P2116 Throttle/Pedal Pos Sensor E Minimum Stop Perf             |
| P2117 Throttle/Pedal Pos Sensor F Minimum Stop Perf             |
| P2118 Throttle Actuator Control Motor Current Range/Perf        |
| P2119 Throttle Actuator Control Throttle Body Range/Perf        |
| P2120 Throttle/Pedal Pos Sensor/Switch D Circuit                |
| P2121 Throttle/Pedal Pos Sensor/Switch D Circuit Range/Perf     |
| P2122 Throttle/Pedal Pos Sensor/Switch D Circuit Low Input      |
| P2123 Pedal Pos Sensor1 Hi                                      |
| P2124 Throttle/Pedal Pos Sensor/Switch D Circuit Interm         |
| P2125 Throttle/Pedal Pos Sensor/Switch E Circuit                |
| P2126 Throttle/Pedal Pos Sensor/Switch E Circuit Range/Perf     |
| P2127 Pedal Pos Validation Switch 2 Low                         |
| P2128 Pedal Pos Validation Switch 2 Hi                          |
| P2129 Throttle/Pedal Pos Sensor/Switch E Circuit Interm         |
| P2130 Throttle/Pedal Pos Sensor/Switch F Circuit                |
| P2131 Throttle/Pedal Pos Sensor/Switch F Circuit Range Perf     |
| P2132 Throttle/Pedal Pos Sensor/Switch F Circuit Low Input      |
| P2133 Throttle/Pedal Pos Sensor/Switch F Circuit Hi Input       |
| P2134 Throttle/Pedal Pos Sensor/Switch F Circuit Interm         |
| P2135 Throttle/Pedal Pos Sensor/Switch A/B Voltage Correlation  |
| P2136 Throttle/Pedal Pos Sensor/Switch A/C Voltage Correlation  |
| P2137 Throttle/Pedal Pos Sensor/Switch B/C Voltage Correlation  |
| P2138 Throttle/Pedal Pos Sensor/Switch D/E Voltage Correlation  |
| P2139 Throttle/Pedal Pos Sensor/Switch D/F Voltage Correlation  |
| P2140 Throttle/Pedal Pos Sensor/Switch E/F Voltage Correlation  |
| P2141 Exhaust Gas ReCircuitulation Throttle Control Circuit Low |
| P2142 Exhaust Gas ReCircuitulation Throttle Control Circuit Hi  |
| P2143 Exhaust Gas ReCircuitulation Vent Control Circuit/Open    |
| P2144 Exhaust Gas ReCircuitulation Vent Control Circuit Low     |
| P2145 Exhaust Gas ReCircuitulation Vent Control Circuit Hi      |
| P2146 Fuel Injector Group 1 Supply Voltage Circuit              |



|  |
|--|
| P2147 Fuel Injector Group 1 Supply Voltage Low                   |
| P2148 Fuel Injector Group 1 Supply Voltage Hi                    |
| P2149 Fuel Injector Group 2 Supply Voltage Circuit               |
| P2150 Fuel Injector Group 2 Supply Voltage Low                   |
| P2151 Fuel Injector Group 2 Supply Voltage Hi                    |
| 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 Hi            |
| 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 Hi            |
| P2158 Vehicle Speed Sensor B                                     |
| P2159 Vehicle Speed Sensor B Range/Perf                          |
| P2160 Vehicle Speed Sensor B Circuit Low                         |
| P2161 Vehicle Speed Sensor B Interm/Erratic                      |
| P2162 Vehicle Speed Sensor A / B Correlation                     |
| P2163 Throttle/Pedal Pos Sensor A Maximum Stop Perf              |
| P2164 Throttle/Pedal Pos Sensor B Maximum Stop Perf              |
| P2165 Throttle/Pedal Pos Sensor C Maximum Stop Perf              |
| P2166 Throttle/Pedal Pos Sensor D Maximum Stop Perf              |
| P2167 Throttle/Pedal Pos Sensor E Maximum Stop Perf              |
| P2168 Throttle/Pedal Pos Sensor F Maximum Stop Perf              |
| P2169 Exhaust Press Regulator Vent Solenoid Control Circuit/Open |
| P2170 Exhaust Press Regulator Vent Solenoid Control Circuit Low  |
| P2171 Exhaust Press Regulator Vent Solenoid Control Circuit Hi   |
| P2172 Throttle Actuator Control Sys-Sudden Hi Airflow Detected   |
| P2173 Throttle Actuator Control Sys-Hi Airflow Detected          |
| P2174 Throttle Actuator Control Sys-Sudden Low Airflow Detected  |
| P2175 Throttle Actuator Control Sys-Low Airflow Detected         |
| P2176 Throttle Actuator Control Sys-Idle Pos Not Learned         |
| P2177 Sys Too Lean Off Idle Bank1                                |
| P2178 Sys Too Rich Off Idle Bank1                                |
| P2179 Sys Too Lean Off Idle Bank2                                |
| P2180 Sys Too Rich Off Idle Bank2                                |
| P2181 Cooling Sys Perf   |

|  |
|--|
| P2182 Engine Coolant Temp Sensor2 Circuit                |
| P2183 Engine Coolant Temp Sensor2 Circuit Range/Perf     |
| P2184 Engine Coolant Temp Sensor2 Circuit Low            |
| P2185 Engine Coolant Temp Sensor2 Circuit Hi             |
| P2186 Engine Coolant Temp Sensor2 Circuit Interm/Erratic |
| P2187 Sys Too Lean at Idle Bank1                         |
| P2188 Sys Too Rich at Idle Bank1                         |
| P2189 Sys Too Lean at Idle Bank2                         |
| P2190 Sys Too Rich at Idle Bank2                         |
| P2191 Sys Too Lean at Hier Load Bank1                    |
| P2192 Sys Too Rich at Hier Load Bank1                    |
| P2193 Sys Too Lean at Hier Load Bank2                    |
| P2194 Sys Too Rich at Hier Load Bank2                    |
| P2195 O2 Sensor Signal Stuck Lean Bank1 Sensor1          |
| P2196 O2 Sensor Signal Stuck Rich Bank1 Sensor1          |
| P2197 O2 Sensor Signal Stuck Lean Bank2 Sensor1          |
| P2198 O2 Sensor Signal Stuck Rich Bank2 Sensor1          |
| P2199 Intake Air Temp Sensor1 / 2 Correlation            |
| P2200 NOx Sensor Circuit Bank1                           |
| P2201 NOx Sensor Circuit Range/Perf Bank1                |
| P2202 NOx Sensor Circuit Low Input Bank1                 |
| P2203 NOx Sensor Circuit Hi Input Bank1                  |
| P2204 NOx Sensor Circuit Interm Input Bank1              |
| P2205 NOx Sensor Heater Control Circuit/Open Bank1       |
| P2206 NOx Sensor Heater Control Circuit Low Bank1        |
| P2207 NOx Sensor Heater Control Circuit Hi Bank1         |
| P2208 NOx Sensor Heater Sensore Circuit Bank1            |
| P2209 NOx Sensor Heater Sensore Circuit Range/Perf Bank1 |
| P2210 NOx Sensor Heater Sensore Circuit Low Input Bank1  |
| P2211 NOx Sensor Heater Sensore Circuit Hi Input Bank1   |
| P2212 NOx Sensor Heater Sensore Circuit Interm Bank1     |
| P2213 NOx Sensor Circuit Bank2                           |
| P2214 NOx Sensor Circuit Range/Perf Bank2                |
| P2215 NOx Sensor Circuit Low Input Bank2                 |
| P2216 NOx Sensor Circuit Hi Input Bank2                  |

|  |
|--|
| P2217 NOx Sensor Circuit Interm Input Bank2                            |
| P2218 NOx Sensor Heater Control Circuit/Open Bank2                     |
| P2219 NOx Sensor Heater Control Circuit Low Bank2                      |
| P2220 NOx Sensor Heater Control Circuit Hi Bank2                       |
| P2221 NOx Sensor Heater Sensore Circuit Bank2                          |
| P2222 NOx Sensor Heater Sensore Circuit Range/Perf Bank2               |
| P2223 NOx Sensor Heater Sensore Circuit Low Bank2                      |
| P2224 NOx Sensor Heater Sensore Circuit Hi Bank2                       |
| P2225 NOx Sensor Heater Sensore Circuit Interm Bank2                   |
| P2226 Barometric Press Circuit   |
| P2227 Barometric Press Circuit Range/Perf                              |
| P2228 Barometric Press Circuit Low                                     |
| P2229 Barometric Press Circuit Hi                                      |
| P2230 Barometric Press Circuit Interm                                  |
| P2231 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank1 Sensor1 |
| P2232 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank1 Sensor2 |
| P2233 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank1 Sensor3 |
| P2234 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank2 Sensor1 |
| P2235 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank2 Sensor2 |
| P2236 O2 Sensor Signal Circuit Shorted to Heater Circuit Bank2 Sensor3 |
| P2237 O2 Sensor Positive Current Control Circuit/Open Bank1 Sensor1    |
| P2238 O2 Sensor Positive Current Control Circuit Low Bank1 Sensor1     |
| P2239 O2 Sensor Positive Current Control Circuit Hi Bank1 Sensor1      |
| P2240 O2 Sensor Positive Current Control Circuit/Open Bank2 Sensor1    |
| P2241 O2 Sensor Positive Current Control Circuit Low Bank2 Sensor1     |
| P2242 O2 Sensor Positive Current Control Circuit Hi Bank2 Sensor1      |
| P2243 O2 Sensor Ref Voltage Circuit/Open Bank1 Sensor1                 |
| P2244 O2 Sensor Ref Voltage Perf Bank1 Sensor1                         |
| P2245 O2 Sensor Ref Voltage Circuit Low Bank1 Sensor1                  |
| P2246 O2 Sensor Ref Voltage Circuit Hi Bank1 Sensor1                   |
| P2247 O2 Sensor Ref Voltage Circuit/Open Bank2 Sensor1                 |
| P2248 O2 Sensor Ref Voltage Perf Bank2 Sensor1                         |
| P2249 O2 Sensor Ref Voltage Circuit Low Bank2 Sensor1                  |
| P2250 O2 Sensor Ref Voltage Circuit Hi Bank2 Sensor1                   |
| P2251 O2 Sensor Negative Current Control Circuit/Open Bank1 Sensor1    |

|   |
|---|
| P2252 O2 Sensor Negative Current Control Circuit Low Bank1 Sensor1  |
| P2253 O2 Sensor Negative Current Control Circuit Hi Bank1 Sensor1   |
| P2254 O2 Sensor Negative Current Control Circuit/Open Bank2 Sensor1 |
| P2255 O2 Sensor Negative Current Control Circuit Low Bank2 Sensor1  |
| P2256 O2 Sensor Negative Current Control Circuit Hi Bank2 Sensor1   |
| P2257 Sec Air Inj Sys Control A Circuit Low                         |
| P2258 Sec Air Inj Sys Control A Circuit Hi                          |
| P2259 Sec Air Inj Sys Control B Circuit Low                         |
| P2260 Sec Air Inj Sys Control B Circuit Hi                          |
| P2261 T/Super Charger Bypass Valve-Mechanical                       |
| P2262 Turbo Boost Press Not Detected-Mechanical                     |
| P2263 T/Super Charger Boost Sys Perf                                |
| P2264 Water in Fuel Sensor Circuit                                  |
| P2265 Water in Fuel Sensor Circuit Range/Perf                       |
| P2266 Water in Fuel Sensor Circuit Low                              |
| P2267 Water in Fuel Sensor Circuit Hi                               |
| P2268 Water in Fuel Sensor Circuit Interm                           |
| P2269 Water in Fuel Condition                                       |
| P2270 O2 Sensor Signal Stuck Lean Bank1 Sensor2                     |
| P2271 O2 Sensor Signal Stuck Rich Bank1 Sensor2                     |
| P2272 O2 Sensor Signal Stuck Lean Bank2 Sensor2                     |
| P2273 O2 Sensor Signal Stuck Rich Bank2 Sensor2                     |
| P2274 O2 Sensor Signal Stuck Lean Bank1 Sensor3                     |
| P2275 O2 Sensor Signal Stuck Rich Bank1 Sensor3                     |
| P2276 O2 Sensor Signal Stuck Lean Bank2 Sensor3                     |
| P2277 O2 Sensor Signal Stuck Rich Bank2 Sensor3                     |
| P2278 O2 Sensor Signals Swapped Bank1 Sensor3 / Bank2 Sensor3       |
| P2279 Intake Air Sys 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 Press Sensor Circuit                         |
| P2284 Injector Control Press Sensor Circuit Range/Perf              |
| P2285 Injector Control Press Sensor Circuit Low                     |
| P2286 Injector Control Press Sensor Circuit Hi                      |

|  |
|--|
| P2287 Injector Control Press Sensor Circuit Interm             |
| P2288 Injector Control Press Too Hi                            |
| P2289 Injector Control Press Too Hi-Engine Off                 |
| P2290 Injector Control Press Too Low                           |
| P2291 Injector Control Press Too Low-Engine Cranking           |
| P2292 Injector Control Press Erratic                           |
| P2293 Fuel Press Regulator 2 Perf                              |
| P2294 Fuel Press Regulator 2 Control Circuit                   |
| P2295 Fuel Press Regulator 2 Control Circuit Low               |
| P2296 Fuel Press Regulator 2 Control Circuit Hi                |
| P2297 O2 Sensor Out of Range During Deceleration Bank1 Sensor1 |
| P2298 O2 Sensor Out of Range During Deceleration Bank2 Sensor1 |
| P2299 Brake Pedal Pos / Accelerator Pedal Pos Incompatible     |
| P2300 Ignition Coil A Primary Control Circuit Low              |
| P2301 Ignition Coil A Primary Control Circuit Hi               |
| P2302 Ignition Coil A Sec Circuit                              |
| P2303 Ignition Coil B Primary Control Circuit Low              |
| P2304 Ignition Coil B Primary Control Circuit Hi               |
| P2305 Ignition Coil B Sec Circuit                              |
| P2306 Ignition Coil C Primary Control Circuit Low              |
| P2307 Ignition Coil C Primary Control Circuit Hi               |
| P2308 Ignition Coil C Sec Circuit                              |
| P2309 Ignition Coil D Primary Control Circuit Low              |
| P2310 Ignition Coil D Primary Control Circuit Hi               |
| P2311 Ignition Coil D Sec Circuit                              |
| P2312 Ignition Coil E Primary Control Circuit Low              |
| P2313 Ignition Coil E Primary Control Circuit Hi               |
| P2314 Ignition Coil E Sec Circuit                              |
| P2315 Ignition Coil F Primary Control Circuit Low              |
| P2316 Ignition Coil F Primary Control Circuit Hi               |
| P2317 Ignition Coil F Sec Circuit                              |
| P2318 Ignition Coil G Primary Control Circuit Low              |
| P2319 Ignition Coil G Primary Control Circuit Hi               |
| P2320 Ignition Coil G Sec Circuit                              |
| P2321 Ignition Coil H Primary Control Circuit Low              |

|  |
|--|
| P2322 Ignition Coil H Primary Control Circuit Hi                           |
| P2323 Ignition Coil H Sec Circuit  |
| P2324 Ignition Coil I Primary Control Circuit Low                          |
| P2325 Ignition Coil I Primary Control Circuit Hi                           |
| P2326 Ignition Coil I Sec Circuit  |
| P2327 Ignition Coil J Primary Control Circuit Low                          |
| P2328 Ignition Coil J Primary Control Circuit Hi                           |
| P2329 Ignition Coil J Sec Circuit  |
| P2330 Ignition Coil K Primary Control Circuit Low                          |
| P2331 Ignition Coil K Primary Control Circuit Hi                           |
| P2332 Ignition Coil K Sec Circuit  |
| P2333 Ignition Coil L Primary Control Circuit Low                          |
| P2334 Ignition Coil L Primary Control Circuit Hi                           |
| P2335 Ignition Coil L Sec 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 EVAP Emission Sys Leak Detection Pump Control<br>Circuit/Open        |
| P2401 EVAP Emission Sys Leak Detection Pump Control Circuit Low            |
| P2402 EVAP Emission Sys Leak Detection Pump Control Circuit Hi             |
| P2403 EVAP Emission Sys Leak Detection Pump Sensore Circuit/Open           |
| P2404 EVAP Emission Sys Leak Detection Pump Sensore Circuit Range/Perf     |
| P2405 EVAP Emission Sys Leak Detection Pump Sensore Circuit Low            |
| P2406 EVAP Emission Sys Leak Detection Pump Sensore Circuit Hi             |
| P2407 EVAP Emission Sys Leak Detection Pump Sensore Circuit Interm/Erratic |

|   |
|---|
| P2408 Fuel Cap Sensor/Switch Circuit                                  |
| P2409 Fuel Cap Sensor/Switch Circuit Range/Perf                       |
| P2410 Fuel Cap Sensor/Switch Circuit Low                              |
| P2411 Fuel Cap Sensor/Switch Circuit Hi                               |
| P2412 Fuel Cap Sensor/Switch Circuit Interm/Erratic                   |
| P2413 Exhaust Gas ReCircuitulation Sys Perf                           |
| P2414 O2 Sensor Exhaust Sample Error Bank1 Sensor1                    |
| P2415 O2 Sensor Exhaust Sample Error Bank2 Sensor1                    |
| P2416 O2 Sensor Signals Swapped Bank1 Sensor2 / Bank1 Sensor3         |
| P2417 O2 Sensor Signals Swapped Bank2 Sensor2 / Bank2 Sensor3         |
| P2418 EVAP Emission Sys Switching Valve Control Circuit /Open         |
| P2419 EVAP Emission Sys Switching Valve Control Circuit Low           |
| P2420 EVAP Emission Sys Switching Valve Control Circuit Hi            |
| P2421 EVAP Emission Sys Vent Valve Stuck Open                         |
| P2422 EVAP Emission Sys Vent Valve Stuck Closed                       |
| P2423 HC Adsorption Catalyst Eff Below Threshold Bank1                |
| P2424 HC Adsorption Catalyst Eff Below Threshold Bank2                |
| P2425 Exhaust Gas ReCircuitulation Cooling Valve Control Circuit/Open |
| P2426 Exhaust Gas ReCircuitulation Cooling Valve Control Circuit Low  |
| P2427 Exhaust Gas ReCircuitulation Cooling Valve Control Circuit Hi   |
| P2428 Exhaust Gas Temp Too Hi Bank1                                   |
| P2429 Exhaust Gas Temp Too Hi Bank2                                   |
| P2430 Sec Air Inj Sys Air Flow/Press Sensor Circuit Bank1             |
| P2431 Sec Air Inj Sys Air Flow/Press Sensor Circuit Range/Perf Bank1  |
| P2432 Sec Air Inj Sys Air Flow/Press Sensor Circuit Low Bank1         |
| P2433 Sec Air Inj Sys Air Flow/Press Sensor Circuit Hi Bank1          |
| P2434 Sec Air Inj Sys Air Flow/Press Sensor Circuit Erratic Bank1     |
| P2435 Sec Air Inj Sys Air Flow/Press Sensor Circuit Bank2             |
| P2436 Sec Air Inj Sys Air Flow/Press Sensor Circuit Range/Perf Bank2  |
| P2437 Sec Air Inj Sys Air Flow/Press Sensor Circuit Low Bank2         |
| P2438 Sec Air Inj Sys Air Flow/Press Sensor Circuit Hi Bank2          |
| P2439 Sec Air Inj Sys Air Flow/Press Sensor Circuit Erratic Bank2     |
| P2440 Sec Air Inj Sys Switching Valve Stuck Open Bank1                |
| P2441 Sec Air Inj Sys Switching Valve Stuck Closed Bank1              |
| P2442 Sec Air Inj Sys Switching Valve Stuck Open Bank2                |

|  |
|--|
| P2443 Sec Air Inj Sys Switching Valve Stuck Closed Bank2 |
| P2444 Sec Air Inj Sys Pump Stuck On Bank1                |
| P2445 Sec Air Inj Sys Pump Stuck Off Bank1               |
| P2446 Sec Air Inj Sys Pump Stuck On Bank2                |
| P2447 Sec Air Inj Sys Pump Stuck Off Bank2               |
| P2500 Generator Lamp/L-Terminal Circuit Low              |
| P2501 Generator Lamp/L-Terminal Circuit Hi               |
| P2502 Charging Sys Output Voltage                        |
| P2503 Charging Sys Output Voltage Low                    |
| P2504 Charging Sys Output Voltage Hi                     |
| P2505 ECM/PCM Power Input Signal                         |
| P2506 ECM/PCM Power Input Signal Range/Perf              |
| P2507 ECM/PCM Power Input Signal Low                     |
| P2508 ECM/PCM Power Input Signal Hi                      |
| P2509 CM/PCM Power Input Signal Interm                   |
| P2510 ECM/PCM Power Relay Sensore Circuit Range/Perf     |
| P2511 ECM/PCM Power Relay Sensore Circuit Interm         |
| P2512 Event Data Recorder Request Circuit/ Open          |
| P2513 Event Data Recorder Request Circuit Low            |
| P2514 Event Data Recorder Request Circuit Hi             |
| P2515 A/C Refrigerant Press Sensor B Circuit             |
| P2516 A/C Refrigerant Press Sensor B Circuit Range/Perf  |
| P2517 A/C Refrigerant Press Sensor B Circuit Low         |
| P2518 A/C Refrigerant Press Sensor B Circuit Hi          |
| P2519 A/C Request A Circuit                              |
| P2520 A/C Request A Circuit Low                          |
| P2521 A/C Request A Circuit Hi                           |
| P2522 A/C Request B Circuit                              |
| P2523 A/C Request B Circuit Low                          |
| P2524 A/C Request B Circuit Hi                           |
| P2525 Vacuum Reservoir Press Sensor Circuit              |
| P2526 Vacuum Reservoir Press Sensor Circuit Range/Perf   |
| P2527 Vacuum Reservoir Press Sensor Circuit Low          |
| P2528 Vacuum Reservoir Press Sensor Circuit Hi           |
| P2529 Vacuum Reservoir Press Sensor Circuit Interm       |



|  |
|--|
| P2530 Ignition Switch Run Pos Circuit                          |
| P2531 Ignition Switch Run Pos Circuit Low                      |
| P2532 Ignition Switch Run Pos Circuit Hi                       |
| P2533 Ignition Switch Run/Start Pos Circuit                    |
| P2534 Ignition Switch Run/Start Pos Circuit Low                |
| P2535 Ignition Switch Run/Start Pos Circuit Hi                 |
| P2536 Ignition Switch Accessory Pos Circuit                    |
| P2537 Ignition Switch Accessory Pos Circuit Low                |
| P2538 Ignition Switch Accessory Pos Circuit Hi                 |
| P2539 Low Press Fuel Sys Sensor Circuit                        |
| P2540 Low Press Fuel Sys Sensor Circuit Range/Perf             |
| P2541 Low Press Fuel Sys Sensor Circuit Low                    |
| P2542 Low Press Fuel Sys Sensor Circuit Hi                     |
| P2543 Low Press Fuel Sys Sensor Circuit Interm                 |
| P2544 Torque Management Request Input Signal A                 |
| P2545 Torque Management Request Input Signal A Range/Perf      |
| P2546 Torque Management Request Input Signal A Low             |
| P2547 Torque Management Request Input Signal A Hi              |
| P2548 Torque Management Request Input Signal B                 |
| P2549 Torque Management Request Input Signal B Range/Perf      |
| P2550 Torque Management Request Input Signal B Low             |
| P2551 Torque Management Request Input Signal B Hi              |
| P2552 Throttle/Fuel Inhibit Circuit                            |
| P2553 Throttle/Fuel Inhibit Circuit Range/Perf                 |
| P2554 Throttle/Fuel Inhibit Circuit Low                        |
| P2555 Throttle/Fuel Inhibit Circuit Hi                         |
| P2556 Engine Coolant Level Sensor/Switch Circuit               |
| P2557 Engine Coolant Level Sensor/Switch Circuit Range/Perf    |
| P2558 Engine Coolant Level Sensor/Switch Circuit Low           |
| P2559 Engine Coolant Level Sensor/Switch Circuit Hi            |
| P2560 Engine Coolant Level Low                                 |
| P2561 A/C Control Mod Requested MIL Illumination               |
| P2562 Turbocharger Boost Control Pos Sensor Circuit            |
| P2563 Turbocharger Boost Control Pos Sensor Circuit Range/Perf |
| P2564 Turbocharger Boost Control Pos Sensor Circuit Low        |

|   |
|---|
| P2565 Turbocharger Boost Control Pos Sensor Circuit Hi                            |
| P2566 Turbocharger Boost Control Pos Sensor Circuit Interm                        |
| P2567 Direct Ozone Reduction Catalyst Temp Sensor Circuit                         |
| P2568 Direct Ozone Reduction Catalyst Temp Sensor Circuit Range/Perf              |
| P2569 Direct Ozone Reduction Catalyst Temp Sensor Circuit Low                     |
| P2570 Direct Ozone Reduction Catalyst Temp Sensor Circuit Hi                      |
| P2571 Direct Ozone Reduction Catalyst Temp Sensor Circuit Interm/Erratic          |
| P2572 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit                |
| P2573 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Range/Perf     |
| P2574 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low            |
| P2575 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Hi             |
| P2576 Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Interm/Erratic |
| P2577 Direct Ozone Reduction Catalyst Eff Below Threshold                         |
| P2600 Coolant Pump Control Circuit/Open   |
| P2601 Coolant Pump Control Circuit Range/Perf                                     |
| P2602 Coolant Pump Control Circuit Low  |
| P2603 Coolant Pump Control Circuit Hi   |
| P2604 Intake Air Heater A Circuit Range/Perf                                      |
| P2605 Intake Air Heater A Circuit/Open  |
| P2606 Intake Air Heater B Circuit Range/Perf                                      |
| P2607 Intake Air Heater Relay 2 Low   |
| P2608 Intake Air Heater Relay 2 Hi  |
| P2609 Intake Air Heater Sys Perf  |
| P2610 ECM/PCM Internal Engine Off Timer Perf                                      |
| 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 Hi                       |
| P2614 Camshaft Pos Signal Output Circuit/Open                                     |
| P2615 Camshaft Pos Signal Output Circuit Low                                      |
| P2616 Camshaft Pos Signal Output Circuit Hi                                       |
| P2617 Crank Pos Signal Output Circuit/Open  |
| P2618 Crank Pos Signal Output Circuit Low   |
| P2619 Crank Pos Signal Output Circuit Hi  |
| P2620 Throttle Pos Output Circuit/Open  |
| P2621 Throttle Pos Output Circuit Low   |

|   |
|---|
| P2622 Throttle Pos Output Circuit Hi                            |
| P2623 Injector Control Press Regulator Circuit/Open             |
| P2624 Injector Control Press Regulator Circuit Low              |
| P2625 Injector Control Press Regulator Circuit Hi               |
| P2626 O2 Sensor Pumping Current Trim Circuit/Open Bank1 Sensor1 |
| P2627 O2 Sensor Pumping Current Trim Circuit Low Bank1 Sensor1  |
| P2628 O2 Sensor Pumping Current Trim Circuit Hi Bank1 Sensor1   |
| P2629 O2 Sensor Pumping Current Trim Circuit/Open Bank2 Sensor1 |
| P2630 O2 Sensor Pumping Current Trim Circuit Low Bank2 Sensor1  |
| P2631 O2 Sensor Pumping Current Trim Circuit Hi Bank2 Sensor1   |
| P2632 Fuel Pump B Control Circuit /Open                         |
| P2633 Fuel Pump B Control Circuit Low                           |
| P2634 Fuel Pump B Control Circuit Hi                            |
| P2635 Fuel Pump A Low Flow / Perf                               |
| P2636 Fuel Pump B Low Flow / Perf                               |
| P2637 Torque Management Feedback Signal A                       |
| P2638 Torque Management Feedback Signal A Range/Perf            |
| P2639 Torque Management Feedback Signal A Low                   |
| P2640 Torque Management Feedback Signal A Hi                    |
| P2641 Torque Management Feedback Signal B                       |
| P2642 Torque Management Feedback Signal B Range/Perf            |
| P2643 Torque Management Feedback Signal B Low                   |
| P2644 Torque Management Feedback Signal B Hi                    |
| P2645 A Rocker Arm Actuator Control Circuit/Open Bank1          |
| P2646 A Rocker Arm Actuator Sys Perf or Stuck Off Bank1         |
| P2647 A Rocker Arm Actuator Sys Stuck On Bank1                  |
| P2648 A Rocker Arm Actuator Control Circuit Low Bank1           |
| P2649 A Rocker Arm Actuator Control Circuit Hi Bank1            |
| P2650 B Rocker Arm Actuator Control Circuit/Open Bank1          |
| P2651 B Rocker Arm Actuator Sys Perf or Stuck Off Bank1         |
| P2652 B Rocker Arm Actuator Sys Stuck On Bank1                  |
| P2653 B Rocker Arm Actuator Control Circuit Low Bank1           |
| P2654 B Rocker Arm Actuator Control Circuit Hi Bank1            |
| P2655 A Rocker Arm Actuator Control Circuit/Open Bank2          |
| P2656 A Rocker Arm Actuator Sys Perf or Stuck Off Bank2         |

|   |
|---|
| P2657 A Rocker Arm Actuator Sys Stuck On Bank2            |
| P2658 A Rocker Arm Actuator Control Circuit Low Bank2     |
| P2659 A Rocker Arm Actuator Control Circuit Hi Bank2      |
| P2660 B Rocker Arm Actuator Control Circuit/Open Bank2    |
| P2661 B Rocker Arm Actuator Sys Perf or Stuck Off Bank2   |
| P2662 B Rocker Arm Actuator Sys Stuck On Bank2            |
| P2663 B Rocker Arm Actuator Control Circuit Low Bank2     |
| P2664 B Rocker Arm Actuator Control Circuit Hi Bank2      |
| P2665 Fuel Shutoff Valve B Control Circuit/Open           |
| P2666 Fuel Shutoff Valve B Control Circuit Low            |
| P2667 Fuel Shutoff Valve B Control Circuit Hi             |
| 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 Hi                |
| P2700 Trans Friction Element A Apply Time Range/Perf      |
| P2701 Trans Friction Element B Apply Time Range/Perf      |
| P2702 Trans Friction Element C Apply Time Range/Perf      |
| P2703 Trans Friction Element D Apply Time Range/Perf      |
| P2704 Trans Friction Element E Apply Time Range/Perf      |
| P2705 Trans Friction Element F Apply Time Range/Perf      |
| P2706 Shift Solenoid F                                    |
| P2707 Shift Solenoid F Perf or Stuck Off                  |
| P2708 Shift Solenoid F Stuck On                           |
| P2709 Shift Solenoid F Electrical                         |
| P2710 Shift Solenoid F Interm                             |
| P2711 Unexpected Mechanical Gear Disengagement            |
| P2712 Hydraulic Power Unit Leakage                        |
| P2713 Press Control Solenoid D                            |
| P2714 Press Control Solenoid D Perf or Stuck Off          |
| P2715 Press Control Solenoid D Stuck On                   |
| P2716 Press Control Solenoid D Electrical                 |
| P2717 Press Control Solenoid D Interm                     |
| P2718 Press Control Solenoid D Control Circuit / Open     |
| P2719 Press Control Solenoid D Control Circuit Range/Perf |

|  |
|--|
| P2720 Press Control Solenoid D Control Circuit Low         |
| P2721 Press Control Solenoid D Control Circuit Hi          |
| P2722 Press Control Solenoid E                             |
| P2723 Press Control Solenoid E Perf or Stuck Off           |
| P2724 Press Control Solenoid E Stuck On                    |
| P2725 Press Control Solenoid E Electrical                  |
| P2726 Press Control Solenoid E Interm                      |
| P2727 Press Control Solenoid E Control Circuit / Open      |
| P2728 Press Control Solenoid E Control Circuit Range/Perf  |
| P2729 Press Control Solenoid E Control Circuit Low         |
| P2730 Press Control Solenoid E Control Circuit Hi          |
| P2731 Press Control Solenoid F                             |
| P2732 Press Control Solenoid F Perf or Stuck Off           |
| P2733 Press Control Solenoid F Stuck On                    |
| P2734 Press Control Solenoid F Electrical                  |
| P2735 Press Control Solenoid F Interm                      |
| P2736 Press Control Solenoid F Control Circuit/Open        |
| P2737 Press Control Solenoid F Control Circuit Range/Perf  |
| P2738 Press Control Solenoid F Control Circuit Low         |
| P2739 Press Control Solenoid F Control Circuit Hi          |
| P2740 Trans Fluid Temp Sensor B Circuit                    |
| P2741 Trans Fluid Temp Sensor B Circuit Range Perf         |
| P2742 Trans Fluid Temp Sensor B Circuit Low                |
| P2743 Trans Fluid Temp Sensor B Circuit Hi                 |
| P2744 Trans Fluid Temp Sensor B Circuit Interm             |
| P2745 Intermediate Shaft Speed Sensor B Circuit            |
| P2746 Intermediate Shaft Speed Sensor B Circuit Range/Perf |
| P2747 Intermediate Shaft Speed Sensor B Circuit No Signal  |
| P2748 Intermediate Shaft Speed Sensor B Circuit Interm     |
| P2749 Intermediate Shaft Speed Sensor C Circuit            |
| P2750 Intermediate Shaft Speed Sensor C Circuit Range/Perf |
| P2751 Intermediate Shaft Speed Sensor C Circuit No Signal  |
| P2752 Intermediate Shaft Speed Sensor C Circuit Interm     |
| P2753 Trans Fluid Cooler Control Circuit/Open              |
| P2754 Trans Fluid Cooler Control Circuit Low               |

|   |
|---|
| P2755 Trans Fluid Cooler Control Circuit Hi                                       |
| P2756 Torque Conv Clutch Press Control Solenoid                                   |
| P2757 Torque Conv Clutch Press Control Solenoid Control Circuit Perf or Stuck Off |
| P2758 Torque Conv Clutch Press Control Solenoid Control Circuit Stuck On          |
| P2759 Torque Conv Clutch Press Control Solenoid Control Circuit Electrical        |
| P2760 Torque Conv Clutch Press Control Solenoid Control Circuit Interm            |
| P2761 Torque Conv Clutch Press Control Solenoid Control Circuit/Open              |
| P2762 Torque Conv Clutch Press Control Solenoid Control Circuit Range/Perf        |
| P2763 Torque Conv Clutch Press Control Solenoid Control Circuit Hi                |
| P2764 Torque Conv Clutch Press Control Solenoid Control Circuit Low               |
| P2765 Input/Turbine Speed Sensor B Circuit  |
| P2766 Input/Turbine Speed Sensor B Circuit Range/Perf                             |
| P2767 Input/Turbine Speed Sensor B Circuit No Signal                              |
| P2768 Input/Turbine Speed Sensor B Circuit Interm                                 |
| P2769 Torque Conv Clutch Circuit Low  |
| P2770 Torque Conv Clutch Circuit Hi   |
| P2771 Four Wheel Drive (4WD) Low Switch Circuit                                   |
| P2772 Four Wheel Drive (4WD) Low Switch Circuit Range/Perf                        |
| P2773 Four Wheel Drive (4WD) Low Switch Circuit Low                               |
| P2774 Four Wheel Drive (4WD) Low Switch Circuit Hi                                |
| P2775 Upshift Switch Circuit Range/Perf   |
| P2776 Upshift Switch Circuit Low  |
| P2777 Upshift Switch Circuit Hi   |
| P2778 Upshift Switch Circuit Interm/Erratic                                       |
| P2779 Downshift Switch Circuit Range/Perf   |
| P2780 Downshift Switch Circuit Low  |
| P2781 Downshift Switch Circuit Hi   |
| P2782 Downshift Switch Circuit Interm/Erratic                                     |
| P2783 Torque Conv Temp Too Hi   |
| P2784 Input/Turbine Speed Sensor A/B Correlation                                  |
| P2785 Clutch Actuator Temp Too Hi   |
| P2786 Gear Shift Actuator Temp Too Hi   |
| P2787 Clutch Temp Too Hi  |
| 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 Hi                          |
| P2793 Gear Shift Direction Circuit                              |
| P2794 Gear Shift Direction Circuit Low                          |
| P2795 Gear Shift Direction Circuit Hi                           |
| P2A00 O2 Sensor Circuit Range/Perf Bank1 Sensor1                |
| P2A01 O2 Sensor Circuit Range/Perf Bank1 Sensor2                |
| P2A02 O2 Sensor Circuit Range/Perf Bank1 Sensor3                |
| P2A03 O2 Sensor Circuit Range/Perf Bank2 Sensor1                |
| P2A04 O2 Sensor Circuit Range/Perf Bank2 Sensor2                |
| P2A05 O2 Sensor Circuit Range/Perf Bank2 Sensor3                |
| P3400 Cylinder Deactivation Sys Bank1                           |
| P3401 Cylinder 1 Deactivation/Intake Valve Control Circuit/Open |
| P3402 Cylinder 1 Deactivation/Intake Valve Control Perf         |
| P3403 Cylinder 1 Deactivation/Intake Valve Control Circuit Low  |
| P3404 Cylinder 1 Deactivation/Intake Valve Control Circuit Hi   |
| P3405 Cylinder 1 Exhaust Valve Control Circuit/Open             |
| P3406 Cylinder 1 Exhaust Valve Control Perf                     |
| P3407 Cylinder 1 Exhaust Valve Control Circuit Low              |
| P3408 Cylinder 1 Exhaust Valve Control Circuit Hi               |
| P3409 Cylinder 2 Deactivation/Intake Valve Control Circuit/Open |
| P3410 Cylinder 2 Deactivation/Intake Valve Control Perf         |
| P3411 Cylinder 2 Deactivation/Intake Valve Control Circuit Low  |
| P3412 Cylinder 2 Deactivation/Intake Valve Control Circuit Hi   |
| P3413 Cylinder 2 Exhaust Valve Control Circuit/Open             |
| P3414 Cylinder 2 Exhaust Valve Control Perf                     |
| P3415 Cylinder 2 Exhaust Valve Control Circuit Low              |
| P3416 Cylinder 2 Exhaust Valve Control Circuit Hi               |
| P3417 Cylinder 3 Deactivation/Intake Valve Control Circuit/Open |
| P3418 Cylinder 3 Deactivation/Intake Valve Control Perf         |
| P3419 Cylinder 3 Deactivation/Intake Valve Control Circuit Low  |
| P3420 Cylinder 3 Deactivation/Intake Valve Control Circuit Hi   |
| P3421 Cylinder 3 Exhaust Valve Control Circuit/Open             |
| P3422 Cylinder 3 Exhaust Valve Control Perf                     |

|   |
|---|
| P3423 Cylinder 3 Exhaust Valve Control Circuit Low              |
| P3424 Cylinder 3 Exhaust Valve Control Circuit Hi               |
| P3425 Cylinder 4 Deactivation/Intake Valve Control Circuit/Open |
| P3426 Cylinder 4 Deactivation/Intake Valve Control Perf         |
| P3427 Cylinder 4 Deactivation/Intake Valve Control Circuit Low  |
| P3428 Cylinder 4 Deactivation/Intake Valve Control Circuit Hi   |
| P3429 Cylinder 4 Exhaust Valve Control Circuit/Open             |
| P3430 Cylinder 4 Exhaust Valve Control Perf                     |
| P3431 Cylinder 4 Exhaust Valve Control Circuit Low              |
| P3432 Cylinder 4 Exhaust Valve Control Circuit Hi               |
| P3433 Cylinder 5 Deactivation/Intake Valve Control Circuit/Open |
| P3434 Cylinder 5 Deactivation/Intake Valve Control Perf         |
| P3435 Cylinder 5 Deactivation/Intake Valve Control Circuit Low  |
| P3436 Cylinder 5 Deactivation/Intake Valve Control Circuit Hi   |
| P3437 Cylinder 5 Exhaust Valve Control Circuit/Open             |
| P3438 Cylinder 5 Exhaust Valve Control Perf                     |
| P3439 Cylinder 5 Exhaust Valve Control Circuit Low              |
| P3440 Cylinder 5 Exhaust Valve Control Circuit Hi               |
| P3441 Cylinder 6 Deactivation/Intake Valve Control Circuit/Open |
| P3442 Cylinder 6 Deactivation/Intake Valve Control Perf         |
| P3443 Cylinder 6 Deactivation/Intake Valve Control Circuit Low  |
| P3444 Cylinder 6 Deactivation/Intake Valve Control Circuit Hi   |
| P3445 Cylinder 6 Exhaust Valve Control Circuit/Open             |
| P3446 Cylinder 6 Exhaust Valve Control Perf                     |
| P3447 Cylinder 6 Exhaust Valve Control Circuit Low              |
| P3448 Cylinder 6 Exhaust Valve Control Circuit Hi               |
| P3449 Cylinder 7 Deactivation/Intake Valve Control Circuit/Open |
| P3450 Cylinder 7 Deactivation/Intake Valve Control Perf         |
| P3451 Cylinder 7 Deactivation/Intake Valve Control Circuit Low  |
| P3452 Cylinder 7 Deactivation/Intake Valve Control Circuit Hi   |
| P3453 Cylinder 7 Exhaust Valve Control Circuit/Open             |
| P3454 Cylinder 7 Exhaust Valve Control Perf                     |
| P3455 Cylinder 7 Exhaust Valve Control Circuit Low              |
| P3456 Cylinder 7 Exhaust Valve Control Circuit Hi               |
| P3457 Cylinder 8 Deactivation/Intake Valve Control Circuit/Open |



|  |
|--|
| P3458 Cylinder 8 Deactivation/Intake Valve Control Perf          |
| P3459 Cylinder 8 Deactivation/Intake Valve Control Circuit Low   |
| P3460 Cylinder 8 Deactivation/Intake Valve Control Circuit Hi    |
| P3461 Cylinder 8 Exhaust Valve Control Circuit/Open              |
| P3462 Cylinder 8 Exhaust Valve Control Perf                      |
| P3463 Cylinder 8 Exhaust Valve Control Circuit Low               |
| P3464 Cylinder 8 Exhaust Valve Control Circuit Hi                |
| P3465 Cylinder 9 Deactivation/Intake Valve Control Circuit/Open  |
| P3466 Cylinder 9 Deactivation/Intake Valve Control Perf          |
| P3467 Cylinder 9 Deactivation/Intake Valve Control Circuit Low   |
| P3468 Cylinder 9 Deactivation/Intake Valve Control Circuit Hi    |
| P3469 Cylinder 9 Exhaust Valve Control Circuit/Open              |
| P3470 Cylinder 9 Exhaust Valve Control Perf                      |
| P3471 Cylinder 9 Exhaust Valve Control Circuit Low               |
| P3472 Cylinder 9 Exhaust Valve Control Circuit Hi                |
| P3473 Cylinder 10 Deactivation/Intake Valve Control Circuit/Open |
| P3474 Cylinder 10 Deactivation/Intake Valve Control Perf         |
| P3475 Cylinder 10 Deactivation/Intake Valve Control Circuit Low  |
| P3476 Cylinder 10 Deactivation/Intake Valve Control Circuit Hi   |
| P3477 Cylinder 10 Exhaust Valve Control Circuit/Open             |
| P3478 Cylinder 10 Exhaust Valve Control Perf                     |
| P3479 Cylinder 10 Exhaust Valve Control Circuit Low              |
| P3480 Cylinder 10 Exhaust Valve Control Circuit Hi               |
| P3481 Cylinder 11 Deactivation/Intake Valve Control Circuit/Open |
| P3482 Cylinder 11 Deactivation/Intake Valve Control Perf         |
| P3483 Cylinder 11 Deactivation/Intake Valve Control Circuit Low  |
| P3484 Cylinder 11 Deactivation/Intake Valve Control Circuit Hi   |
| P3485 Cylinder 11 Exhaust Valve Control Circuit/Open             |
| P3486 Cylinder 11 Exhaust Valve Control Perf                     |
| P3487 Cylinder 11 Exhaust Valve Control Circuit Low              |
| P3488 Cylinder 11 Exhaust Valve Control Circuit Hi               |
| P3489 Cylinder 12 Deactivation/Intake Valve Control Circuit/Open |
| P3490 Cylinder 12 Deactivation/Intake Valve Control Perf         |
| P3491 Cylinder 12 Deactivation/Intake Valve Control Circuit Low  |
| P3492 Cylinder 12 Deactivation/Intake Valve Control Circuit Hi   |

P3493 Cylinder 12 Exhaust Valve Control Circuit/Open

U0001 Hi Speed CAN Comm Bus

U0002 Hi Speed CAN Comm Bus Perf

U0003 Hi Speed CAN Comm Bus + Open

U0004 Hi Speed CAN Comm Bus + Low

U0005 Hi Speed CAN Comm Bus + Hi

U0006 Hi Speed CAN Comm Bus - Open

U0007 Hi Speed CAN Comm Bus - Low

U0008 Hi Speed CAN Comm Bus - Hi

U0009 Hi Speed CAN Comm Bus - shorted to Bus +

U0010 Medium Speed CAN Comm Bus

U0011 Medium Speed CAN Comm Bus Perf

U0012 Medium Speed CAN Comm Bus + Open

U0013 Medium Speed CAN Comm Bus + Low

U0014 Medium Speed CAN Comm Bus + Hi

U0015 Medium Speed CAN Comm Bus - Open

U0016 Medium Speed CAN Comm Bus - Low

U0017 Medium Speed CAN Comm Bus - Hi

U0018 Medium Speed CAN Comm Bus - shorted to Bus +

U0019 Low Speed CAN Comm Bus

U0020 Low Speed CAN Comm Bus Perf

U0021 Low Speed CAN Comm Bus + Open

U0022 Low Speed CAN Comm Bus + Low

U0023 Low Speed CAN Comm Bus + Hi

U0024 Low Speed CAN Comm Bus - Open

U0025 Low Speed CAN Comm Bus - Low

U0026 Low Speed CAN Comm Bus - Hi

U0027 Low Speed CAN Comm Bus - shorted to Bus +

U0028 Vehicle Comm Bus A

U0029 Vehicle Comm Bus A Perf

U0030 Vehicle Comm Bus A + Open

U0031 Vehicle Comm Bus A + Low

U0032 Vehicle Comm Bus A + Hi

U0033 Vehicle Comm Bus A - Open

U0034 Vehicle Comm Bus A - Low

|   |
|---|
| U0035 Vehicle Comm Bus A - Hi                 |
| U0036 Vehicle Comm Bus A - shorted to Bus A + |
| U0037 Vehicle Comm Bus B                      |
| U0038 Vehicle Comm Bus B Perf                 |
| U0039 Vehicle Comm Bus B + Open               |
| U0040 Vehicle Comm Bus B + Low                |
| U0041 Vehicle Comm Bus B + Hi                 |
| U0042 Vehicle Comm Bus B - Open               |
| U0043 Vehicle Comm Bus B - Low                |
| U0044 Vehicle Comm Bus B - Hi                 |
| U0045 Vehicle Comm Bus B - shorted to Bus B + |
| U0046 Vehicle Comm Bus C                      |
| U0047 Vehicle Comm Bus C Perf                 |
| U0048 Vehicle Comm Bus C + Open               |
| U0049 Vehicle Comm Bus C + Low                |
| U0050 Vehicle Comm Bus C + Hi                 |
| U0051 Vehicle Comm Bus C - Open               |
| U0052 Vehicle Comm Bus C - Low                |
| U0053 Vehicle Comm Bus C - Hi                 |
| U0054 Vehicle Comm Bus C - shorted to Bus C + |
| U0055 Vehicle Comm Bus D                      |
| U0056 Vehicle Comm Bus D Perf                 |
| U0057 Vehicle Comm Bus D + Open               |
| U0058 Vehicle Comm Bus D + Low                |
| U0059 Vehicle Comm Bus D + Hi                 |
| U0060 Vehicle Comm Bus D - Open               |
| U0061 Vehicle Comm Bus D - Low                |
| U0062 Vehicle Comm Bus D - Hi                 |
| U0063 Vehicle Comm Bus D - shorted to Bus D + |
| U0064 Vehicle Comm Bus E                      |
| U0065 Vehicle Comm Bus E Perf                 |
| U0066 Vehicle Comm Bus E + Open               |
| U0067 Vehicle Comm Bus E + Low                |
| U0068 Vehicle Comm Bus E + Hi                 |
| U0069 Vehicle Comm Bus E - Open               |

|   |
|---|
| U0070 Vehicle Comm Bus E - Low                              |
| U0071 Vehicle Comm Bus E - Hi                               |
| U0072 Vehicle Comm Bus E - shorted to Bus E +               |
| U0073 Control Mod Comm Bus Off                              |
| U0100 Lost Comm with ECM/PCM A                              |
| U0101 Lost Comm with TCM                                    |
| U0102 Lost Comm with Transfer Case Control Mod              |
| U0103 Lost Comm with Gear Shift Mod                         |
| U0104 Lost Comm with Cruise Control Mod                     |
| U0105 Lost Comm with Fuel Injector Control Mod              |
| U0106 Lost Comm with Glow Plug Control Mod                  |
| U0107 Lost Comm with Throttle Actuator Control Mod          |
| U0108 Lost Comm with Alternative Fuel Control Mod           |
| U0109 Lost Comm with Fuel Pump Control Mod                  |
| U0110 Lost Comm with Drive Motor Control Mod                |
| U0111 Lost Comm with Battery Energy Control Mod A           |
| U0112 Lost Comm with Battery Energy Control Mod B           |
| U0113 Lost Comm with Emissions Critical Control Information |
| U0114 Lost Comm with 4-Wheel Drive Clutch Control Mod       |
| U0115 Lost Comm with ECM/PCM B                              |
| U0121 Lost Comm with ABS (ABS) Control Mod                  |
| U0122 Lost Comm with Vehicle Dynamics Control Mod           |
| U0123 Lost Comm with Yaw Rate Sensor Mod                    |
| U0124 Lost Comm with Lateral Acceleration Sensor Mod        |
| U0125 Lost Comm with Multi-axis Acceleration Sensor Mod     |
| U0126 Lost Comm with Steering Angle Sensor Mod              |
| U0127 Lost Comm with Tire Press Monitor Mod                 |
| U0128 Lost Comm with Park Brake Control Mod                 |
| U0129 Lost Comm with Brake Sys Control Mod                  |
| U0130 Lost Comm with Steering Effort Control Mod            |
| U0131 Lost Comm with Power Steering Control Mod             |
| U0132 Lost Comm with Ride Level Control Mod                 |
| U0133 Reserved by Document                                  |
| U0134 Reserved by Document                                  |
| U0135 Reserved by Document                                  |

|  |
|--|
| U0136 Reserved by Document                                   |
| U0137 Reserved by Document                                   |
| U0138 Reserved by Document                                   |
| U0139 Reserved by Document                                   |
| U0140 Lost Comm with Body Control Mod                        |
| U0141 Lost Comm with Body Control Mod A                      |
| U0142 Lost Comm with Body Control Mod B                      |
| U0143 Lost Comm with Body Control Mod C                      |
| U0144 Lost Comm with Body Control Mod D                      |
| U0145 Lost Comm with Body Control Mod E                      |
| U0146 Lost Comm with Gateway A                               |
| U0147 Lost Comm with Gateway B                               |
| U0148 Lost Comm with Gateway C                               |
| U0149 Lost Comm with Gateway D                               |
| U0150 Lost Comm with Gateway E                               |
| U0151 Lost Comm with Restraints Control Mod                  |
| U0152 Lost Comm with Side Restraints Control Mod Left        |
| U0153 Lost Comm with Side Restraints Control Mod Right       |
| U0154 Lost Comm with Restraints Occupant Sensing Control Mod |
| U0155 Lost Comm with Instrument Panel Cluster Control Mod    |
| U0156 Lost Comm with Information Center A                    |
| U0157 Lost Comm with Information Center B                    |
| U0158 Lost Comm with Head Up Display                         |
| U0159 Lost Comm with Parking Assist Control Mod              |
| U0160 Lost Comm with Audible Alert Control Mod               |
| U0161 Lost Comm with Compass Mod                             |
| U0162 Lost Comm with Navigation Display Mod                  |
| U0163 Lost Comm with Navigation Control Mod                  |
| U0164 Lost Comm with HVAC Control Mod                        |
| U0165 Lost Comm with HVAC Control Mod Rear                   |
| U0166 Lost Comm with Auxiliary Heater Control Mod            |
| U0167 Lost Comm with Vehicle Immobilizer Control Mod         |
| U0168 Lost Comm with Vehicle Security Control Mod            |
| U0169 Lost Comm with Sunroof Control Mod                     |
| U0170 Lost Comm with Restraints Sys Sensor A                 |

|  |
|--|
| U0171 Lost Comm with Restraints Sys Sensor B             |
| U0172 Lost Comm with Restraints Sys Sensor C             |
| U0173 Lost Comm with Restraints Sys Sensor D             |
| U0174 Lost Comm with Restraints Sys Sensor E             |
| U0175 Lost Comm with Restraints Sys Sensor F             |
| U0176 Lost Comm with Restraints Sys Sensor G             |
| U0177 Lost Comm with Restraints Sys Sensor H             |
| U0178 Lost Comm with Restraints Sys Sensor I             |
| U0179 Lost Comm with Restraints Sys Sensor J             |
| U0180 Lost Comm with Automatic Lighting Control Mod      |
| U0181 Lost Comm with Headlamp Leveling Control Mod       |
| U0182 Lost Comm with Lighting Control Mod Front          |
| U0183 Lost Comm with Lighting Control Mod Rear           |
| U0184 Lost Comm with Radio                               |
| U0185 Lost Comm with Antenna Control Mod                 |
| U0186 Lost Comm with Audio Amplifier                     |
| U0187 Lost Comm with Digital Disc Player/Changer Mod A   |
| U0188 Lost Comm with Digital Disc Player/Changer Mod B   |
| U0189 Lost Comm with Digital Disc Player/Changer Mod C   |
| U0190 Lost Comm with Digital Disc Player/Changer Mod D   |
| U0191 Lost Comm with Television                          |
| U0192 Lost Comm with Personal Computer                   |
| U0193 Lost Comm with Digital Audio Control Mod A         |
| U0194 Lost Comm with Digital Audio Control Mod B         |
| U0195 Lost Comm with Subscription Entertainment Revr Mod |
| U0196 Lost Comm with Rear Seat Entertainment Control Mod |
| U0197 Lost Comm with Telephone Control Mod               |
| U0198 Lost Comm with Telematic Control Mod               |
| U0199 Lost Comm with Door Control Mod A                  |
| U0200 Lost Comm with Door Control Mod B                  |
| U0201 Lost Comm with Door Control Mod C                  |
| U0202 Lost Comm with Door Control Mod D                  |
| U0203 Lost Comm with Door Control Mod E                  |
| U0204 Lost Comm with Door Control Mod F                  |
| U0205 Lost Comm with Door Control Mod G                  |

|   |
|---|
| U0206 Lost Comm with Folding Top Control Mod                    |
| U0207 Lost Comm with Moveable Roof Control Mod                  |
| U0208 Lost Comm with Seat Control Mod A                         |
| U0209 Lost Comm with Seat Control Mod B                         |
| U0210 Lost Comm with Seat Control Mod C                         |
| U0211 Lost Comm with Seat Control Mod D                         |
| U0212 Lost Comm with Steering Column Control Mod                |
| U0213 Lost Comm with Mirror Control Mod                         |
| U0214 Lost Comm with Remote Function Actuation                  |
| U0215 Lost Comm with Door Switch A                              |
| U0216 Lost Comm with Door Switch B                              |
| U0217 Lost Comm with Door Switch C                              |
| U0218 Lost Comm with Door Switch D                              |
| U0219 Lost Comm with Door Switch E                              |
| U0220 Lost Comm with Door Switch F                              |
| U0221 Lost Comm with Door Switch G                              |
| U0222 Lost Comm with Door Window Motor A                        |
| U0223 Lost Comm with Door Window Motor B                        |
| U0224 Lost Comm with Door Window Motor C                        |
| U0225 Lost Comm with Door Window Motor D                        |
| U0226 Lost Comm with Door Window Motor E                        |
| U0227 Lost Comm with Door Window Motor F                        |
| U0228 Lost Comm with Door Window Motor G                        |
| U0229 Lost Comm with Heated Steering Wheel Mod                  |
| U0230 Lost Comm with Rear Gate Mod                              |
| U0231 Lost Comm with Rain Sensoring Mod                         |
| U0232 Lost Comm with Side Obstacle Detection Control Mod Left   |
| U0233 Lost Comm with Side Obstacle Detection Control Mod Right  |
| U0234 Lost Comm with Convenience Recall Mod                     |
| U0235 Lost Comm with Cruise Control Front Distance Range Sensor |
| U0300 Internal Control Mod Software Incompatibility             |
| U0301 Software Incompatibility with ECM/PCM                     |
| U0302 Software Incompatibility with Trans Control Mod           |
| U0303 Software Incompatibility with Transfer Case Control Mod   |
| U0304 Software Incompatibility with Gear Shift Control Mod      |

|   |
|---|
| U0305 Software Incompatibility with Cruise Control Mod            |
| U0306 Software Incompatibility with Fuel Injector Control Mod     |
| U0307 Software Incompatibility with Glow Plug Control Mod         |
| U0308 Software Incompatibility with Throttle Actuator Control Mod |
| U0309 Software Incompatibility with Alternative Fuel Control Mod  |
| U0310 Software Incompatibility with Fuel Pump Control Mod         |
| U0311 Software Incompatibility with Drive Motor Control Mod       |
| U0312 Software Incompatibility with Battery Energy Control Mod A  |
| U0313 Software Incompatibility with Battery Energy Control Mod B  |
| U0314 Software Incompatibility with 4WDClutch Control Mod         |
| U0315 Software Incompatibility with ABS Control Mod               |
| U0316 Software Incompatibility with Vehicle Dynamics Control Mod  |
| U0317 Software Incompatibility with Park Brake Control Mod        |
| U0318 Software Incompatibility with Brake Sys Control Mod         |
| U0319 Software Incompatibility with Steering Effort Control Mod   |
| U0320 Software Incompatibility with Power Steering Control Mod    |
| U0321 Software Incompatibility with Ride Level Control Mod        |
| U0322 Software Incompatibility with Body Control Mod              |
| U0323 Software Incompatibility with Instrument Panel Control Mod  |
| U0324 Software Incompatibility with HVAC Control Mod              |
| U0325 Software Incompatibility with Auxiliary Heater Control Mod  |
| U0326 Software Incompatibility with Veh Immobilizer Control Mod   |
| U0327 Software Incompatibility with Vehicle Security Control Mod  |
| U0328 Software Incompatibility with Steering Angle Sensor Mod     |
| U0329 Software Incompatibility with Steering Column Control Mod   |
| U0330 Software Incompatibility with Tire Press Monitor Mod        |
| U0331 Software Incompatibility with Body Control Mod A            |
| U0400 Invalid Data Received                                       |
| U0401 Invalid Data Received From ECM/PCM                          |
| U0402 Invalid Data Received From Trans Control Mod                |
| U0403 Invalid Data Received From Transfer Case Control Mod        |
| U0404 Invalid Data Received From Gear Shift Control Mod           |
| U0405 Invalid Data Received From Cruise Control Mod               |
| U0406 Invalid Data Received From Fuel Injector Control Mod        |
| U0407 Invalid Data Received From Glow Plug Control Mod            |



|   |
|---|
| U0408 Invalid Data Received From Throttle Actuator Control Mod    |
| U0409 Invalid Data Received From Alternative Fuel Control Mod     |
| U0410 Invalid Data Received From Fuel Pump Control Mod            |
| U0411 Invalid Data Received From Drive Motor Control Mod          |
| U0412 Invalid Data Received From Battery Energy Control Mod A     |
| U0413 Invalid Data Received From Battery Energy Control Mod B     |
| U0414 Invalid Data Received From 4-Wheel Drive Clutch Control Mod |
| U0415 Invalid Data Received From ABS Control Mod                  |
| U0416 Invalid Data Received From Vehicle Dynamics Control Mod     |
| U0417 Invalid Data Received From Park Brake Control Mod           |
| U0418 Invalid Data Received From Brake Sys Control Mod            |
| U0419 Invalid Data Received From Steering Effort Control Mod      |
| U0420 Invalid Data Received From Power Steering Control Mod       |
| U0421 Invalid Data Received From Ride Level Control Mod           |
| U0422 Invalid Data Received From Body Control Mod                 |
| U0423 Invalid Data Received From Instrument Panel Control Mod     |
| U0424 Invalid Data Received From HVAC Control Mod                 |
| U0425 Invalid Data Received From Auxiliary Heater Control Mod     |
| U0426 Invalid Data Received From Vehicle Immobilizer Control Mod  |
| U0427 Invalid Data Received From Vehicle Security Control Mod     |
| U0428 Invalid Data Received From Steering Angle Sensor Mod        |
| U0429 Invalid Data Received From Steering Column Control Mod      |
| U0430 Invalid Data Received From Tire Press Monitor Mod           |
| U0431 Invalid Data Received From Body Control Mod A               |