



## CP9125 OBD II PocketScan™ Code Reader

For use with OBD II Compliant Vehicles



- ① **LCD Display** - Is a Single Line Display with 8 characters.
- ② **ERASE Key** - Used to Erase Trouble Codes and I/M Monitor status from Vehicle's Computer Modules and scroll up through screens. (*I/M Monitors are currently used for state emissions tests.*)
- ③ **READ/Scroll Down Key** - Used to view Read Codes, MIL Status, I/M Readiness Status and Scroll down through screens.
- ④ **OBD II Connector** - Used to communicate with OBD II compliant vehicles.

0002-003-2666

## Safety Precautions

For safety, read, understand and follow all safety messages and instructions in manual before operating the PocketScan™ Code Reader.

Always refer to and follow safety messages and test procedures provided by manufacturer of vehicle and PocketScan™ Code Reader.

### Signal Words Used:

- |                  |  |
|------------------|--|
| <b>⚠ DANGER</b>  | Indicates a possible hazardous situation which, if not avoided, will result in death or serious injury to operator or bystanders.  |
| <b>⚠ WARNING</b> | Indicates a possible hazardous situation which, if not avoided, could result in death or serious injury to operator or bystanders. |
| <b>⚠ CAUTION</b> | Indicates a possible hazardous situation which, if not avoided, may result in moderate or minor injury to operator or bystanders.  |
| <b>IMPORTANT</b> | Indicates a condition which, if not avoided, may result in damage to test equipment or vehicle.                                    |

### Important Safety Messages

- Always wear ANSI approved eye protection.
- Always operate vehicle in a well-ventilated area.
- Always keep people, tools and test equipment away from all moving or hot engine parts.
- Always make sure vehicle is in PARK (automatic transmission) or Neutral (manual transmission) and parking brake is set.
- Always block drive wheels and never leave vehicle unattended while testing.
- Always keep a fire extinguisher suitable for gasoline/ electrical/chemical fires readily available.
- Never lay tools on vehicle battery.

- Always use caution when working around ignition coil, distributor cap, ignition wires, and spark plugs. Components can produce a High Voltage while engine is running.
- Battery acid is caustic. If contacted, rinse with water or neutralize with a mild base (i.e. baking soda). If in eyes, flush with water and call a physician immediately.
- Never smoke or have open flames near vehicle. Vapors from gasoline and battery during charge are explosive.
- Never use the PocketScan™ Code Reader if internal circuitry has been exposed to moisture. Internal shorts could cause a fire and damage.
- Always turn ignition key OFF when connecting or disconnecting electrical components, unless otherwise instructed.
- Some vehicles are equipped with safety air bags. Follow vehicle service manual cautions when working around air bag components or wiring. Note, air bag can still open several minutes after ignition key is off.
- Always follow vehicle manufacturer's warnings, cautions and service procedures.

## PocketScan™ Code Reader Features

### Read Codes:

Reading Diagnostic Trouble Codes allows the PocketScan™ Code Reader to read the codes from the vehicle's computer modules.

- **Diagnostic Trouble Codes:**

Diagnostic Trouble Codes are used to help determine the cause of a problem or problems with a vehicle. Diagnostic Trouble Codes are set when a fault is present for a sufficient amount of time.



- **Pending Codes:** Pending

Codes are also referred to as “continuous monitor codes” and “maturing codes.” Pending Codes occurs when the code has not occurred a specific number of times (depending on vehicle,) causing the code to mature.



## MIL Conditions:

**MIL (Malfunction Indicator Lamp) Status** displays the state of the vehicles computer module(s).

- **MIL ON:** Indicates that the Malfunction Indicator Lamp on vehicle should be ON indicating a possible emissions problem.



- ✓ If the MIL Status is ON and the MIL is not illuminated with the engine running, then a problem exists in the MIL circuit.

- **MIL OFF:** Indicates the Malfunction Indicator Lamp should be off and there should be no emission problems.



- ✓ Some manufacturers will turn the MIL off if a certain number of drive cycles occur without the same fault being detected.
- ✓ Diagnostic Trouble Codes related to a MIL are erased from the computer's memory after 40 warm-up cycles if the same fault is not detected.

### Inspection / Maintenance Monitors (I/M Monitors):

The **I/M Monitors** (Inspection / Maintenance) function displays a **SNAPSHOT** of the operations for the Emission System.

- √ After a specific amount of drive time (each monitor has specific driving conditions and time required), the computer's "monitors" will decide if the vehicles emission system is working correctly.
- √ Some states **MAY NOT** require all monitors listed to be "Ready" to pass the emissions test. Check with state testing site for exact requirements. All states will fail a vehicle that has the "MIL Light" lit at time of test.

- **Monitors Viewed:**

Monitors	Expanded Name
Misfire	Misfire Monitor
Fuel	Fuel System Monitor
Comp	Comprehensive Components Monitor
Catlyst	Catalyst Monitor
Htd Cat	Heated Catalyst Monitor
Evap	Evaporative System Monitor
Sec Air	Secondary Air System Monitor
A/C	Air Conditioning Refrigerant Monitor
O2 Snsr	Oxygen Sensor Monitor
O2 Htr	Oxygen Sensor Heater Monitor
EGR	Exhaust Gas Recirculation

- **Monitor Status:**

Status	Description
Ready	Vehicle was driven enough under proper conditions to complete the monitor.
Inc	(Incomplete) - Vehicle was not driven enough under proper conditions to complete the monitor.

- **Monitors may be cleared by:**

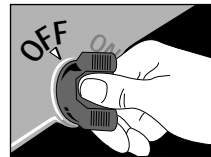
- Using the erase codes function.
- Disconnected or discharged battery (on some vehicles.)
- Computer module losing power (on some vehicles.)

## Reading Diagnostic Trouble Codes and Data



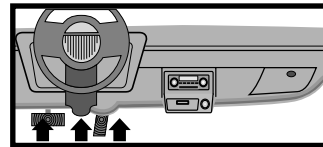
**WARNING** Avoid Cooling Fan! Fan may turn on during test.

1. Turn Ignition Key to the Off Position.



2. Locate and Plug in Data Link Connector (DLC.)

**NOTE:** The data link connector should be located under the dashboard on the driverside of the vehicle.



If the data link connector is not located under the dashboard as stated, a label describing the location of the data link connector should be there.

3. Observe Display toggles between "Pocket" and "Scan".




**NOTE:** For a correct reading for Diagnostic Trouble Codes and I/M Monitor Status, ignition key must be in the ON position and Engine does not require starting.

To get a correct reading for MIL Status, Engine must be started.

4. Start Engine.

5. Press  **READ/Scroll Down** Key and Release.



**NOTE:** If diagnostic trouble codes (DTCs) are already being displayed from a previous read operation, press and hold  **READ/Scroll Down** key for 3 seconds and release.

6. Observe a Moving  on Display.




**NOTE:** If a “No Link” message displays, cycle ignition key to the OFF position for 10 seconds, then back ON and repeat “Reading Diagnostic Data.”



7. View Codes on Display




**NOTE:** If there are no codes present, the tool will display “0 Codes” and proceed to display *MIL Status* when  **READ/Scroll Down** is pressed.



- To View Codes press and release  **READ/Scroll Down** key.



- If the code is a Pending Code a  will be displayed.





#### 8. View MIL Status

- Press and release



**READ/Scroll Down**

key.

MIL ON ↕

#### 9. View I/M Monitors that are Incomplete.

- Press and release



**READ/Scroll Down**

key.

Monitrst ↕

2 Inc ↕

Misfire ↕

**NOTE:** If there are no more I/M Monitors that are Incomplete, the tool will then display Ready

Monitors when  **READ/Scroll Down** key is pressed.

5 Ready ↕

#### 10. View I/M Monitors that are Ready.

- Press and release



**READ/Scroll Down**

key.

02 Htr ↕

**NOTE:** Pressing the **ERASE** key will scroll up to review *Diagnostic Trouble Codes and Data*.

**NOTE:** Holding  **READ /Scroll Down** key for 3 seconds will read *Diagnostic Trouble Codes and Data* again.

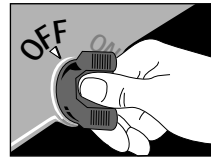
## Erasing Diagnostic Trouble Codes and Data

Erasing allows the PocketScan™ Code Reader to delete the codes and I/M Monitor status from the vehicle's computer modules.

**IMPORTANT** Only Erase Diagnostic Data after checking system completely and writing down results.

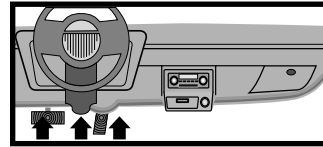
**WARNING** Avoid Cooling Fan! Fan may turn on during test.

1. Turn Ignition Key to the Off Position.



2. Locate and Plug in Data Link Connector (DLC.)

**NOTE:** The data link connector should be located under the dashboard on the driverside of the vehicle.



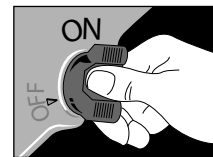
If the data link connector is not located under the dashboard as stated, a label describing the location of the data link connector should be there.

3. Observe Display toggles between "Pocket" and "Scan".



4. Turn Ignition Key to the ON Position leaving Engine Off.

**NOTE:** Make sure that the Ignition Key is ON and **NOT** in the Accessory Position.



5. Press and Hold  **ERASE** Key for 3 Seconds and Release.



6. Observe “ERASE?” Displays.



7. Press and Hold  **ERASE** Key for 3 Seconds and Release.



8. Observe a Moving  on Display.





**NOTE:** If a “NO LINK” message displays, cycle ignition key to the OFF position for 10 seconds, then back ON, and repeat “Erasing Diagnostic Data.”



9. Observe “DONE” Displays.



**NOTE:** If the problem causing Diagnostic Trouble Code(s) still exists, the code will return. The Diagnostic Trouble Code may return immediately or may return after vehicle has been driven.

**NOTE:** Pressing  **READ /Scroll Down** key will read *Diagnostic Trouble Codes and Data* and Holding  **ERASE** key will erase results again.

## Using Included CD

The Included CD is **NOT** required to use tool.

- **Some items included on the CD are:**

- Manual included with tool.
- DTC Lookup Software.
- Adobe Acrobat Reader.

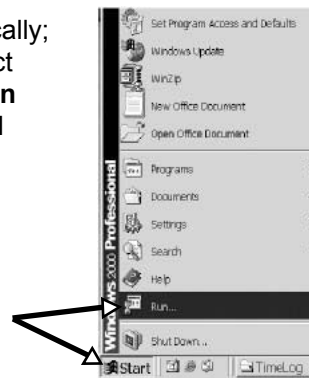
- **To be able to use the included CD the PC must meet the following minimum requirements:**

- 486 PC.
- 4 MB of RAM.
- Microsoft Windows 95 or Newer.
- CD ROM Drive.
- Adobe Acrobat Reader.
- Internet Explorer 4.0 or Higher.
- Minimum Screen Resolution of 800 x 600.
  - If resolution is 800 x 600, in Display Properties, Settings Tab, Set Font Size to Small Fonts.

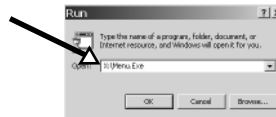
## Running Applications On Included CD

1. Close All Programs on Computer.
2. Place Included CD in CD-Drive.

**NOTE:** If CD does not start automatically; Select the **Start** button. Select **Run...Enter "X:\Menu.Exe"** in Open Box on Computer and select **OK**.



**NOTE:** "X" is the CD-ROM drive letter on the computer.



3. Observe Menu Appears.
4. Follow screen prompts on computer to run applications.

## Diagnostic Trouble Codes (DTCs)

This section contains the J2012 Diagnostic Trouble Codes (DTCs) as defined by the Society of Automotive Engineers (SAE). Diagnostic Trouble Codes (DTCs) are recommendations not a requirement. Manufacturers may not follow these, but most do.

Check vehicle's service manual for DTC meaning if the code(s) you are getting does not make sense.

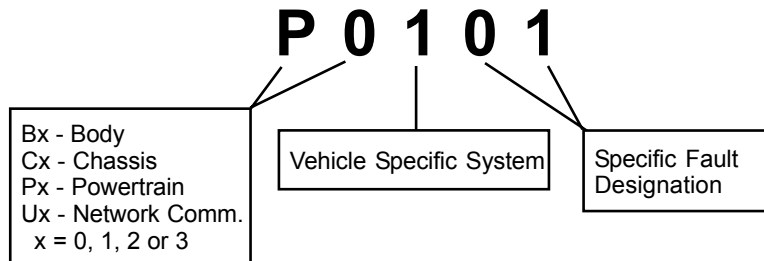
Diagnostic Trouble Code (DTCs) definitions have been assigned or reserved by the Society of Automotive Engineers (SAE) to direct to proper service area(s).

Codes not assigned or reserved by the Society of Automotive Engineers (SAE) are reserved for the manufacturer and referred to as Manufacturer Specific Diagnostic Trouble Codes (DTCs).

### **Remember:**

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

**NOTE:** Additional DTC definitions can be obtained from the CD supplied. If there are any problems operating the supplied CD contact Customer Service at 1(800) 228-7667.



**Example:**  
**P0101** - Mass or Volume Air Flow Circuit Range/Performance Problem

**Powertrain Codes**

- P0xxx** - Generic (SAE)
- P1xxx** - Manufacturer Specific
- P2xxx** - Generic (SAE)
- P30xx-P33xx** - Manufacturer Specific
- P34xx-P39xx** - Generic (SAE)

**Chassis Codes**

- C0xxx** - Generic (SAE)
- C1xxx** - Manufacturer Specific
- C2xxx** - Manufacturer Specific
- C3xxx** - Generic (SAE)

**Body Codes**

- B0xxx** - Generic (SAE)
- B1xxx** - Manufacturer Specific
- B2xxx** - Manufacturer Specific
- B3xxx** - Generic (SAE)

**Network Communication Codes**

- U0xxx** - Generic (SAE)
- U1xxx** - Manufacturer Specific
- U2xxx** - Manufacturer Specific
- U3xxx** - Generic (SAE)

## **P0001 - P0074**

P0001 Fuel Volume Regulator Control Circuit/Open  
P0002 Fuel Volume Regulator Control CKT Range/Perf  
P0003 Fuel Volume Regulator Control Circuit Low  
P0004 Fuel Volume Regulator Control Circuit High  
P0005 Fuel Shutoff Vlv. A Control Circuit/Open  
P0006 Fuel Shutoff Vlv. A Control Circuit Low  
P0007 Fuel Shutoff Vlv. A Control Circuit High  
P0008 Engine Position System Performance (Bank 1)  
P0009 Engine Position System Performance (Bank 2)  
P0010 Camshaft Position Actuator A - Bank 1 Circuit Malfunction  
P0011 Camshaft Position Actuator A - Bank 1 Timing Over-Advan.  
P0012 Camshaft Position Actuator A - Bank 1 Timing Over-Retard  
P0013 Camshaft Position Actuator B - Bank 1 Circuit Malfunction  
P0014 Camshaft Position Actuator B - Bank 1 Timing Over-Advan.  
P0015 Camshaft Position Actuator B - Bank 1 Timing Over-Retard  
P0016 Cam/Crankshaft Pos. Correlation Sensor A - Bank 1  
P0017 Cam/Crankshaft Pos. Correlation Sensor B - Bank 1  
P0018 Cam/Crankshaft Pos. Correlation Sensor A - Bank 2  
P0019 Cam/Crankshaft Pos. Correlation Sensor B - Bank 2  
P0020 Camshaft Position Actuator A - Bank 2 Circuit Malfunction  
P0021 Camshaft Position Actuator A - Bank 2 Timing Over-Advan.  
P0022 Camshaft Position Actuator A - Bank 2 Timing Over-Retard  
P0023 Camshaft Position Actuator B - Bank 2 Circuit Malfunction  
P0024 Camshaft Position Actuator B - Bank 2 Timing Over-Advan.  
P0025 Camshaft Position Actuator B - Bank 2 Timing Over-Retard  
P0026 Intake Valve-Bank 1 Control Solenoid CKT Range/Perf  
P0027 Exhaust Valve-Bank1 Control Solenoid CKT Range/Perf  
P0028 Intake Valve-Bank 2 Control Solenoid CKT Range/Perf  
P0029 Exhaust Valve-Bank2 Control Solenoid CKT Range/Perf  
P0030 HO2S Bank 1 Sen 1 Heater Circuit  
P0031 HO2S Bank 1 Sen 1 Heater Circuit Low  
P0032 HO2S Bank 1 Sen 1 Heater Circuit High  
P0033 Turbo/Sup Wastegate Control Circuit  
P0034 Turbo/Sup Wastegate Control Circuit Low  
P0035 Turbo/Sup Wastegate Control Circuit High  
P0036 HO2S Bank 1 Sen 2 Heater Circuit  
P0037 HO2S Bank 1 Sen 2 Heater Circuit Low



P0038 HO2S Bank 1 Sen 2 Heater Circuit High  
P0039 Turbo/Super Charger Bypass Cntrl CKT Performance  
P0040 O2 Bank 1 Sensor 1 Signals Swapped w/ O2 Bank 2 Sensor 1  
P0041 O2 Bank 1 Sensor 2 Signals Swapped w/ O2 Bank 2 Sensor 2  
P0042 HO2S Bank 1 Sen 3 Heater Circuit  
P0043 HO2S Bank 1 Sen 3 Heater Circuit Low  
P0044 HO2S Bank 1 Sen 3 Heater Circuit High  
P0045 Turbo/Super Boost Ctrl Solenoid A Circuit/Open  
P0046 Turbo/Super Boost Ctrl Solenoid A CKT Range/Perf  
P0047 Turbo/Super Boost Ctrl Solenoid A Circuit Low  
P0048 Turbo/Super Boost Ctrl Solenoid A Circuit High  
P0049 Turbo/Super Boost Input/Turbine Speed Overspeed  
P0050 HO2S Bank 2 Sen 1 Heater Circuit  
P0051 HO2S Bank 2 Sen 1 Heater Circuit Low  
P0052 HO2S Bank 2 Sen 1 Heater Circuit High  
P0053 HO2S Bank 1 Sen 1 Heater Resistance  
P0054 HO2S Bank 1 Sen 2 Heater Resistance  
P0055 HO2S Bank 1 Sen 3 Heater Resistance  
P0056 HO2S Bank 2 Sen 2 Heater Circuit  
P0057 HO2S Bank 2 Sen 2 Heater Circuit Low  
P0058 HO2S Bank 2 Sen 2 Heater Circuit High  
P0059 HO2S Bank 2 Sen 1 Heater Resistance  
P0060 HO2S Bank 2 Sen 2 Heater Resistance  
P0061 HO2S Bank 2 Sen 3 Heater Resistance  
P0062 HO2S Bank 2 Sen 3 Heater Circuit  
P0063 HO2S Bank 2 Sen 3 Heater Circuit Low  
P0064 HO2S Bank 2 Sen 3 Heater Circuit High  
P0065 Air Assisted Injec. Control Range/Performance  
P0066 Air Assisted Injec. Control Circuit Low  
P0067 Air Assisted Injec. Control Circuit High  
P0068 MAF/MAP Sensor Throttle Position Correlation  
P0069 MAP/BARO Correlation  
P0070 Ambient Air Temp. Sensor Circuit  
P0071 Ambient Air Temp. Sensor Range/Performance  
P0072 Ambient Air Temp. Sensor Circuit Low  
P0073 Ambient Air Temp. Sensor Circuit High  
P0074 Ambient Air Temp. Sensor CKT Intermittent

## **P0075 - P0148**

P0075 Intake Valve-Bank 1 Control Circuit  
P0076 Intake Valve-Bank 1 Control Circuit Low  
P0077 Intake Valve-Bank 1 Control Circuit High  
P0078 Exhaust Valve-Bank1 Control Circuit  
P0079 Exhaust Valve-Bank1 Control Circuit Low  
P0080 Exhaust Valve-Bank1 Control Circuit High  
P0081 Intake Valve-Bank 2 Control Circuit  
P0082 Intake Valve-Bank 2 Control Circuit Low  
P0083 Intake Valve-Bank 2 Control Circuit High  
P0084 Exhaust Valve-Bank2 Control Circuit  
P0085 Exhaust Valve-Bank2 Control Circuit Low  
P0086 Exhaust Valve-Bank2 Control Circuit High  
P0087 Fuel Rail Pressure Too Low  
P0088 Fuel Rail Pressure Too High  
P0089 Fuel Pressure Reg 1 Performance  
P0090 Fuel Pressure Reg 1 Control Circuit  
P0091 Fuel Pressure Reg 1 Control Circuit Low  
P0092 Fuel Pressure Reg 1 Control Circuit High  
P0093 Fuel System Leak (Large)  
P0094 Fuel System Leak (Small)  
P0095 IAT Sensor 2 Circuit  
P0096 IAT Sensor 2 CKT Range/Perf  
P0097 IAT Sensor 2 Circuit Low  
P0098 IAT Sensor 2 Circuit High  
P0099 IAT Sensor 2 CKT Intermittent  
P0100 MAF or VAF A Circuit Malfunction  
P0101 MAF or VAF A CKT Range/Perf  
P0102 MAF or VAF A Circuit Low Input  
P0103 MAF or VAF A Circuit High Input  
P0104 MAF or VAF A CKT Intermittent  
P0105 MAP/BARO Circuit Malfunction  
P0106 MAP/BARO CKT Range/Perf  
P0107 MAP/BARO Circuit Low Input  
P0108 MAP/BARO Circuit High Input  
P0109 MAP/BARO CKT Intermittent  
P0110 IAT Sensor Circuit Malfunction  
P0111 IAT Sensor 1 CKT Range/Perf

P0112 IAT Sensor 1 Circuit Low Input  
P0113 IAT Sensor 1 Circuit High Input  
P0114 IAT Sensor 1 CKT Intermittent  
P0115 Engine Coolant Temp Circuit Malfunction  
P0116 Engine Coolant Temp CKT Range/Perf  
P0117 Engine Coolant Temp Circuit Low Input  
P0118 Engine Coolant Temp Circuit High Input  
P0119 Engine Coolant Temp CKT Intermittent  
P0120 TPS/Pedal Position Sensor A Circuit Malfunction  
P0121 TPS/Pedal Position Sensor A CKT Range/Perf  
P0122 TPS/Pedal Position Sensor A Circuit Low Input  
P0123 TPS/Pedal Position Sensor A Circuit High Input  
P0124 TPS/Pedal Position Sensor A CKT Intermittent  
P0125 Clsd Loop Fuel Ctrl Insufficient Coolant Temp  
P0126 Coolant Temp Insufficient Stable Operation  
P0127 IAT Sensor Too High  
P0128 Coolant Temp Below Thermostat Regulating Temp  
P0129 Barometric Pressure Too Low  
P0130 O2 Sensor Circuit Malfunction (Bank 1 Sensor 1)  
P0131 O2 Sensor Circuit Low Volts (Bank 1 Sensor 1)  
P0132 O2 Sensor Circuit High Volts (Bank 1 Sensor 1)  
P0133 O2 Sensor CKT Slow Response (Bank 1 Sensor 1)  
P0134 O2 Sensor CKT No Activity (Bank 1 Sensor 1)  
P0135 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)  
P0136 O2 Sensor Circuit Malfunction (Bank 1 Sensor 2)  
P0137 O2 Sensor Circuit Low Volts (Bank 1 Sensor 2)  
P0138 O2 Sensor Circuit High Volts (Bank 1 Sensor 2)  
P0139 O2 Sensor CKT Slow Response (Bank 1 Sensor 2)  
P0140 O2 Sensor CKT No Activity (Bank 1 Sensor 2)  
P0141 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)  
P0142 O2 Sensor Circuit Malfunction (Bank 1 Sensor 3)  
P0143 O2 Sensor Circuit Low Volts (Bank 1 Sensor 3)  
P0144 O2 Sensor Circuit High Volts (Bank 1 Sensor 3)  
P0145 O2 Sensor CKT Slow Response (Bank 1 Sensor 3)  
P0146 O2 Sensor CKT No Activity (Bank 1 Sensor 3)  
P0147 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)  
P0148 Fuel Delivery Malfunction

## **P0149 - P0222**

P0149 Fuel Timing Malfunction  
P0150 O2 Sensor Circuit Malfunction (Bank 2 Sensor 1)  
P0151 O2 Sensor Circuit Low Volts (Bank 2 Sensor 1)  
P0152 O2 Sensor Circuit High Volts (Bank 2 Sensor 1)  
P0153 O2 Sensor CKT Slow Response (Bank 2 Sensor 1)  
P0154 O2 Sensor CKT No Activity (Bank 2 Sensor 1)  
P0155 O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)  
P0156 O2 Sensor Circuit Malfunction (Bank 2 Sensor 2)  
P0157 O2 Sensor Circuit Low Volts (Bank 2 Sensor 2)  
P0158 O2 Sensor Circuit High Volts (Bank 2 Sensor 2)  
P0159 O2 Sensor CKT Slow Response (Bank 2 Sensor 2)  
P0160 O2 Sensor CKT No Activity (Bank 2 Sensor 2)  
P0161 O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)  
P0162 O2 Sensor Circuit Malfunction (Bank 2 Sensor 3)  
P0163 O2 Sensor Circuit Low Volts (Bank 2 Sensor 3)  
P0164 O2 Sensor Circuit High Volts (Bank 2 Sensor 3)  
P0165 O2 Sensor CKT Slow Response (Bank 2 Sensor 3)  
P0166 O2 Sensor CKT No Activity (Bank 2 Sensor 3)  
P0167 O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)  
P0168 Engine Fuel Temperature Too High  
P0169 Fuel Composition Incorrect  
P0170 Fuel Trim Malfunction (Bank 1)  
P0171 System Too Lean (Bank 1)  
P0172 System Too Rich (Bank 1)  
P0173 Fuel Trim Malfunction (Bank 2)  
P0174 System Too Lean (Bank 2)  
P0175 System Too Rich (Bank 2)  
P0176 Fuel Compensation Sensor Circuit Malfunction  
P0177 Fuel Compensation Sensor CKT Range/Perf  
P0178 Fuel Compensation Sensor Circuit Low Input  
P0179 Fuel Compensation Sensor Circuit High Input  
P0180 Fuel Temperature Sensor A Circuit Malfunction  
P0181 Fuel Temperature Sensor A CKT Range/Perf  
P0182 Fuel Temperature Sensor A Circuit Low Input  
P0183 Fuel Temperature Sensor A Circuit High Input  
P0184 Fuel Temperature Sensor A CKT Intermittent  
P0185 Fuel Temperature Sensor B Circuit Malfunction

P0186 Fuel Temperature Sensor B CKT Range/Perf  
P0187 Fuel Temperature Sensor B Circuit Low Input  
P0188 Fuel Temperature Sensor B Circuit High Input  
P0189 Fuel Temperature Sensor B CKT Intermittent  
P0190 Fuel Rail Pressure Sensor Circuit Malfunction  
P0191 Fuel Rail Pressure Sensor CKT Range/Perf  
P0192 Fuel Rail Pressure Sensor Circuit Low Input  
P0193 Fuel Rail Pressure Sensor Circuit High Input  
P0194 Fuel Rail Pressure Sensor CKT Intermittent  
P0195 Engine Oil Temp Sensor Circuit Malfunction  
P0196 Engine Oil Temp Sensor CKT Range/Perf  
P0197 Engine Oil Temp Sensor Circuit Low Input  
P0198 Engine Oil Temp Sensor Circuit High Input  
P0199 Engine Oil Temp Sensor CKT Intermittent  
P0200 Injector Circuit Open  
P0201 Injector Circuit Open Cylinder 1  
P0202 Injector Circuit Open Cylinder 2  
P0203 Injector Circuit Open Cylinder 3  
P0204 Injector Circuit Open Cylinder 4  
P0205 Injector Circuit Open Cylinder 5  
P0206 Injector Circuit Open Cylinder 6  
P0207 Injector Circuit Open Cylinder 7  
P0208 Injector Circuit Open Cylinder 8  
P0209 Injector Circuit Open Cylinder 9  
P0210 Injector Circuit Open Cylinder 10  
P0211 Injector Circuit Open Cylinder 11  
P0212 Injector Circuit Open Cylinder 12  
P0213 Cold Start Injector 1 Malfunction  
P0214 Cold Start Injector 2 Malfunction  
P0215 Engine Shutoff Solenoid Malfunction  
P0216 Injection Timing Control Circuit Malfunction  
P0217 Engine Overtemp Condition  
P0218 Trans Overtemp Condition  
P0219 Engine Overspeed Condition  
P0220 TPS/Pedal Position Sensor/Switch B Circuit Malfunction  
P0221 TPS/Pedal Position Sensor/Switch B CKT Range/Perf  
P0222 TPS/Pedal Position Sensor/Switch B Circuit Low Input

## **P0223 - P0296**

P0223 TPS/Pedal Position Sensor/Switch B Circuit High Input  
P0224 TPS/Pedal Position Sensor/Switch B CKT Intermittent  
P0225 TPS/Pedal Position Sensor/Switch C Circuit Malfunction  
P0226 TPS/Pedal Position Sensor/Switch C CKT Range/Perf  
P0227 TPS/Pedal Position Sensor/Switch C Circuit Low Input  
P0228 TPS/Pedal Position Sensor/Switch C Circuit High Input  
P0229 TPS/Pedal Position Sensor/Switch C CKT Intermittent  
P0230 Fuel Pump Primary Circuit Malfunction  
P0231 Fuel Pump Secondary Circuit Low  
P0232 Fuel Pump Secondary Circuit High  
P0233 Fuel Pump Secondary Circuit Intermittent Ckt  
P0234 Engine Overboost Condition  
P0235 Turbo/Super Boost Sensor A Circuit Malfunction  
P0236 Turbo/Super Boost Sensor A CKT Range/Perf  
P0237 Turbo/Super Boost Sensor A Circuit Low Input  
P0238 Turbo/Super Boost Sensor A Circuit High Input  
P0239 Turbo/Super Boost Sensor B Circuit Malfunction  
P0240 Turbo/Super Boost Sensor B CKT Range/Perf  
P0241 Turbo/Super Boost Sensor B Circuit Low Input  
P0242 Turbo/Super Boost Sensor B Circuit High Input  
P0243 Turbo/Sup Wastegate Solenoid A Malfunction  
P0244 Turbo/Sup Wastegate Solenoid A Range/Performance  
P0245 Turbo/Sup Wastegate Solenoid A Low  
P0246 Turbo/Sup Wastegate Solenoid A High  
P0247 Turbo/Sup Wastegate Solenoid B Malfunction  
P0248 Turbo/Sup Wastegate Solenoid B Range/Performance  
P0249 Turbo/Sup Wastegate Solenoid B Low  
P0250 Turbo/Sup Wastegate Solenoid B High  
P0251 Injection Pump Metering Control A  
P0252 Injection Pump Metering Control A Range/Performance  
P0253 Injection Pump Metering Control A Low  
P0254 Injection Pump Metering Control A High  
P0255 Injection Pump Metering Control A Intermittent Ckt  
P0256 Injection Pump Metering Control B Malfunction  
P0257 Injection Pump Metering Control B Range/Performance  
P0258 Injection Pump Metering Control B Low  
P0259 Injection Pump Metering Control B High

P0260 Injection Pump Metering Control B Intermittent Ckt  
P0261 Cylinder 1 Injector Control Circuit Low  
P0262 Cylinder 1 Injector Control Circuit High  
P0263 Cylinder 1 Contribution Balance Fault  
P0264 Cylinder 2 Injector Control Circuit Low  
P0265 Cylinder 2 Injector Control Circuit High  
P0266 Cylinder 2 Contribution Balance Fault  
P0267 Cylinder 3 Injector Control Circuit Low  
P0268 Cylinder 3 Injector Control Circuit High  
P0269 Cylinder 3 Contribution Balance Fault  
P0270 Cylinder 4 Injector Control Circuit Low  
P0271 Cylinder 4 Injector Control Circuit High  
P0272 Cylinder 4 Contribution Balance Fault  
P0273 Cylinder 5 Injector Control Circuit Low  
P0274 Cylinder 5 Injector Control Circuit High  
P0275 Cylinder 5 Contribution Balance Fault  
P0276 Cylinder 6 Injector Control Circuit Low  
P0277 Cylinder 6 Injector Control Circuit High  
P0278 Cylinder 6 Contribution Balance Fault  
P0279 Cylinder 7 Injector Control Circuit Low  
P0280 Cylinder 7 Injector Control Circuit High  
P0281 Cylinder 7 Contribution Balance Fault  
P0282 Cylinder 8 Injector Control Circuit Low  
P0283 Cylinder 8 Injector Control Circuit High  
P0284 Cylinder 8 Contribution Balance Fault  
P0285 Cylinder 9 Injector Control Circuit Low  
P0286 Cylinder 9 Injector Control Circuit High  
P0287 Cylinder 9 Contribution Balance Fault  
P0288 Cylinder 10 Injector Control Circuit Low  
P0289 Cylinder 10 Injector Control Circuit High  
P0290 Cylinder 10 Contribution Balance Fault  
P0291 Cylinder 11 Injector Control Circuit Low  
P0292 Cylinder 11 Injector Control Circuit High  
P0293 Cylinder 11 Contribution Balance Fault  
P0294 Cylinder 12 Injector Control Circuit Low  
P0295 Cylinder 12 Injector Control Circuit High  
P0296 Cylinder 12 Contribution Balance Fault

## **P0297 - P0371**

P0297 Vehicle Overspeed Error  
P0298 Engine Oil Temperature Too High  
P0299 Turbo/Super Charger UnderBoost  
P0300 Random/Multiple Cylinder Misfire Detected  
P0301 Cylinder 1 Misfire Detected  
P0302 Cylinder 2 Misfire Detected  
P0303 Cylinder 3 Misfire Detected  
P0304 Cylinder 4 Misfire Detected  
P0305 Cylinder 5 Misfire Detected  
P0306 Cylinder 6 Misfire Detected  
P0307 Cylinder 7 Misfire Detected  
P0308 Cylinder 8 Misfire Detected  
P0309 Cylinder 9 Misfire Detected  
P0310 Cylinder 10 Misfire Detected  
P0311 Cylinder 11 Misfire Detected  
P0312 Cylinder 12 Misfire Detected  
P0313 Misfire Detected Low Fuel Level  
P0314 Misfire Detected Cyl. not Specific  
P0315 Crankshaft Position System Variation Not Learned  
P0316 Misfire Detected 1st 1000 Revs.  
P0317 Rough Road Hardware Not Present  
P0318 Rough Road Sensor A Signal Circuit  
P0319 Rough Road Sensor B  
P0320 Ignition/Dist Engine Speed Input Circuit Malfunction  
P0321 Ignition/Dist Engine Speed Input CKT Range/Perf  
P0322 Ignition/Dist Engine Speed Input Circuit No Signal  
P0323 Ignition/Dist Engine Speed Input CKT Intermittent  
P0324 Knock Control System Malfunction  
P0325 Knock Sensor 1 Circuit Malfunction Bank 1 or 1 Sensor  
P0326 Knock Sensor 1 CKT Range/Perf Bank 1 or 1 Sensor  
P0327 Knock Sensor 1 Circuit Low Input Bank 1 or 1 Sensor  
P0328 Knock Sensor 1 Circuit High Input Bank 1 or 1 Sensor  
P0329 Knock Sensor 1 CKT Intermittent Bank 1 or 1 Sensor  
P0330 Knock Sensor 2 Circuit Malfunction (Bank 2)  
P0331 Knock Sensor 2 CKT Range/Perf (Bank 2)  
P0332 Knock Sensor 2 Circuit Low Input (Bank 2)  
P0333 Knock Sensor 2 Circuit High Input (Bank 2)



P0334 Knock Sensor 2 CKT Intermittent (Bank 2)  
P0335 Crankshaft Position Sensor A Circuit Malfunction  
P0336 Crankshaft Position Sensor A CKT Range/Perf  
P0337 Crankshaft Position Sensor A Circuit Low Input  
P0338 Crankshaft Position Sensor A Circuit High Input  
P0339 Crankshaft Position Sensor A CKT Intermittent  
P0340 Camshaft Position Sensor A - Bank 1 Circuit Malfunction  
P0341 Camshaft Position Sensor A - Bank 1 CKT Range/Perf  
P0342 Camshaft Position Sensor A - Bank 1 Circuit Low Input  
P0343 Camshaft Position Sensor A - Bank 1 Circuit High Input  
P0344 Camshaft Position Sensor A - Bank 1 CKT Intermittent  
P0345 Camshaft Position Sensor A - Bank 2 Circuit Malfunction  
P0346 Camshaft Position Sensor A - Bank 2 CKT Range/Perf  
P0347 Camshaft Position Sensor A - Bank 2 Circuit Low Input  
P0348 Camshaft Position Sensor A - Bank 2 Circuit High Input  
P0349 Camshaft Position Sensor A - Bank 2 CKT Intermittent  
P0350 Ignition Coil Primary/Secondary Circuit Malfunction  
P0351 Ignition Coil A Primary/Secondary Circuit Malfunction  
P0352 Ignition Coil B Primary/Secondary Circuit Malfunction  
P0353 Ignition Coil C Primary/Secondary Circuit Malfunction  
P0354 Ignition Coil D Primary/Secondary Circuit Malfunction  
P0355 Ignition Coil E Primary/Secondary Circuit Malfunction  
P0356 Ignition Coil F Primary/Secondary Circuit Malfunction  
P0357 Ignition Coil G Primary/Secondary Circuit Malfunction  
P0358 Ignition Coil H Primary/Secondary Circuit Malfunction  
P0359 Ignition Coil I Primary/Secondary Circuit Malfunction  
P0360 Ignition Coil J Primary/Secondary Circuit Malfunction  
P0361 Ignition Coil K Primary/Secondary Circuit Malfunction  
P0362 Ignition Coil L Primary/Secondary Circuit Malfunction  
P0363 Misfire Detected Fueling Disabled  
P0365 Camshaft Position Sensor B - Bank 1 Circuit Malfunction  
P0366 Camshaft Position Sensor B - Bank 1 CKT Range/Perf  
P0367 Camshaft Position Sensor B - Bank 1 Circuit Low Input  
P0368 Camshaft Position Sensor B - Bank 1 Circuit High Input  
P0369 Camshaft Position Sensor B - Bank 1 CKT Intermittent  
P0370 Timing Reference High Res Signal A Malfunction  
P0371 Timing Reference High Res Signal A Too Many Pulses

## **P0372 - P0450**

P0372 Timing Reference High Res Signal A Too Few Pulses  
P0373 Timing Reference High Res Signal A Erratic Pulses  
P0374 Timing Reference High Res Signal A No Pulses  
P0375 Timing Reference High Res Signal B Malfunction  
P0376 Timing Reference High Res Signal B Too Many Pulses  
P0377 Timing Reference High Res Signal B Too Few Pulses  
P0378 Timing Reference High Res Signal B Erratic Pulses  
P0379 Timing Reference High Res Signal B No Pulses  
P0380 Glow Plug/Heater CKT A Malfunction  
P0381 Glow Plug/Heater Indicator Circuit Malfunction  
P0382 Glow Plug/Heater CKT B Malfunction  
P0383 Glow Plug Module Control Circuit Low  
P0384 Glow Plug Module Control Circuit High  
P0385 Crankshaft Position Sensor B Circuit Malfunction  
P0386 Crankshaft Position Sensor B CKT Range/Perf  
P0387 Crankshaft Position Sensor B Circuit Low Input  
P0388 Crankshaft Position Sensor B Circuit High Input  
P0389 Crankshaft Position Sensor B CKT Intermittent  
P0390 Camshaft Position Sensor B - Bank 2 Circuit Malfunction  
P0391 Camshaft Position Sensor B - Bank 2 CKT Range/Perf  
P0392 Camshaft Position Sensor B - Bank 2 Circuit Low Input  
P0393 Camshaft Position Sensor B - Bank 2 Circuit High Input  
P0394 Camshaft Position Sensor B - Bank 2 CKT Intermittent  
P0400 EGR Flow Malfunction  
P0401 EGR Flow Insufficient  
P0402 EGR Flow Excessive  
P0403 EGR Flow Circuit Malfunction  
P0404 EGR Flow CKT Range/Perf  
P0405 EGR Flow Sensor A Circuit Low Input  
P0406 EGR Flow Sensor A Circuit High Input  
P0407 EGR Flow Sensor B Circuit Low Input  
P0408 EGR Flow Sensor B Circuit High Input  
P0409 EGR Flow Sensor A Circuit  
P0410 Secondary Air Injection System Malfunction  
P0411 Secondary Air Injection System Incorrect Flow  
P0412 Secondary Air Injection System Valve A Malfunction  
P0413 Secondary Air Injection System Valve A CKT Open

P0414 Secondary Air Injection System Valve A CKT Short  
P0415 Secondary Air Injection System Valve B Malfunction  
P0416 Secondary Air Injection System Valve B CKT Open  
P0417 Secondary Air Injection System Valve B CKT Short  
P0418 Secondary Air Injection System Relay A Malfunction  
P0419 Secondary Air Injection System Relay B Malfunction  
P0420 Catalyst Efficiency Below Threshold (Bank 1)  
P0421 Warm Up Catalyst Below Threshold (Bank 1)  
P0422 Main Catalyst Below Threshold (Bank 1)  
P0423 Heated Catalyst Below Threshold (Bank 1)  
P0424 Htd Catalyst Temp Below Threshold (Bank 1)  
P0425 Catalyst Temp. Sensor (Bank 1 Sensor 1)  
P0426 Catalyst Temp. Sensor Performance (Bank 1 Sensor 1)  
P0427 Catalyst Temp. Sensor Circuit Low (Bank 1 Sensor 1)  
P0428 Catalyst Temp. Sensor Circuit High (Bank 1 Sensor 1)  
P0429 Catalyst Heater Control (Bank 1)  
P0430 Catalyst Efficiency Below Threshold (Bank 2)  
P0431 Warm Up Catalyst Below Threshold (Bank 2)  
P0432 Main Catalyst Below Threshold (Bank 2)  
P0433 Heated Catalyst Below Threshold (Bank 2)  
P0434 Htd Catalyst Temp Below Threshold (Bank 2)  
P0435 Catalyst Temp. Sensor (Bank 2)  
P0436 Catalyst Temp. Sensor Performance (Bank 2)  
P0437 Catalyst Temp. Sensor Circuit Low (Bank 2)  
P0438 Catalyst Temp. Sensor Circuit High (Bank 2)  
P0439 Catalyst Heater Control (Bank 2)  
P0440 EVAP Emission Control System Malfunction  
P0441 EVAP Emission Control System Purge Flow Fault  
P0442 EVAP Emission Control System Leak (Small)  
P0443 EVAP Emission Control System Purge Valve C Fault  
P0444 EVAP Emission Control System Purge Valve C Open  
P0445 EVAP Emission Control System Purge Valve C Short  
P0446 EVAP Emission Control System Vent Circuit Malf  
P0447 EVAP Emission Control System Vent Circuit Open  
P0448 EVAP Emission Control System Vent Circuit Short  
P0449 EVAP Emission Control System Vent Vlv/Sol Malf  
P0450 EVAP Emission Control System Pres Sensor Fault

## **P0451 - P0524**

P0451 EVAP Emission Control System Pres Sensor Range  
P0452 EVAP Emission Control System Pres Sensor Low  
P0453 EVAP Emission Control System Pres Sensor High  
P0454 EVAP Emission Control System Pres Sensor Erratic  
P0455 EVAP Emission Control System Leak (Large)  
P0456 EVAP Emission Control System Leak Very Small  
P0457 EVAP Emission Control System Leak Cap Loose/Off  
P0458 EVAP System Canister Purge Sol Circuit Low  
P0459 EVAP System Canister Purge Sol Circuit High  
P0460 Fuel Level Sensor A Circuit Malfunction  
P0461 Fuel Level Sensor A CKT Range/Perf  
P0462 Fuel Level Sensor A Circuit Low Input  
P0463 Fuel Level Sensor A Circuit High Input  
P0464 Fuel Level Sensor A CKT Intermittent  
P0465 EVAP Emission Purge Flow Sensor Circuit Malfunction  
P0466 EVAP Emission Purge Flow Sensor CKT Range/Perf  
P0467 EVAP Emission Purge Flow Sensor Circuit Low Input  
P0468 EVAP Emission Purge Flow Sensor Circuit High Input  
P0469 EVAP Emission Purge Flow Sensor CKT Intermittent  
P0470 Exhaust Pressure Sensor Circuit Malfunction  
P0471 Exhaust Pressure Sensor CKT Range/Perf  
P0472 Exhaust Pressure Sensor Circuit Low Input  
P0473 Exhaust Pressure Sensor Circuit High Input  
P0474 Exhaust Pressure Sensor CKT Intermittent  
P0475 Exhaust Pressure Control Valve Circuit Malfunction  
P0476 Exhaust Pressure Control Valve CKT Range/Perf  
P0477 Exhaust Pressure Control Valve Circuit Low Input  
P0478 Exhaust Pressure Control Valve Circuit High Input  
P0479 Exhaust Pressure Control Valve CKT Intermittent  
P0480 Cooling Fan 1 Control Circuit  
P0481 Cooling Fan 2 Control Circuit  
P0482 Cooling Fan 3 Control Circuit  
P0483 Control Fan Rationality Check Malfunction  
P0484 Control Fan CKT Over Current  
P0485 Control Fan Power/Ground Circuit Malfunction  
P0486 EGR System Sensor B Circuit  
P0487 EGR TPS Control Circuit

P0488 EGR TPS Control CKT Range/Perf  
P0489 EGR Control Circuit Low  
P0490 EGR Control Circuit High  
P0491 Secondary Air System (Bank 1)  
P0492 Secondary Air System (Bank 2)  
P0493 Fan Speed Overspeed  
P0494 Fan Speed Low  
P0495 Fan Speed High  
P0496 EVAP Emission High Purge Flow Fault  
P0497 EVAP Emission Low Purge Flow Fault  
P0498 EVAP Emission Vent Vlv/Sol Malf Circuit Low  
P0499 EVAP Emission Vent Vlv/Sol Malf Circuit High  
P0500 Veh Speed Sensor A Malfunction  
P0501 Veh Speed Sensor A Range/Performance  
P0502 Veh Speed Sensor A Circuit Low Input  
P0503 Veh Speed Sensor A Erratic/High  
P0504 Brake Switch A Brake Switch B Correlation  
P0505 Idle Control System Malfunction  
P0506 Idle Control System RPM Low  
P0507 Idle Control System RPM High  
P0508 Idle Control System Circuit Low  
P0509 Idle Control System Circuit High  
P0510 Closed Throttle Position Switch  
P0511 Idle Air Control Circuit  
P0512 Starter Signal Circuit  
P0513 Immobilizer Incorrect  
P0514 Battery Temperature Sensor CKT Range/Perf  
P0515 Battery Temperature Sensor Circuit  
P0516 Battery Temperature Circuit Low  
P0517 Battery Temperature Circuit High  
P0518 Idle Air Control CKT Intermittent  
P0519 Idle Air Control System Performance  
P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction  
P0521 Engine Oil Pressure Sensor/Switch Range/Performance  
P0522 Engine Oil Pressure Sensor/Switch Low Voltage  
P0523 Engine Oil Pressure Sensor/Switch High Voltage  
P0524 Engine Oil Pressure Too Low

## **P0525 - P0598**

P0525 Cruise Servo CKT Range/Perf  
P0526 Fan Speed Sensor Circuit  
P0527 Fan Speed Sensor CKT Range/Perf  
P0528 Fan Speed Sensor Circuit No Signal  
P0529 Fan Speed Sensor CKT Intermittent  
P0530 A/C Refrigerant Pressure Sensor A Circuit Malfunction  
P0531 A/C Refrigerant Pressure Sensor A CKT Range/Perf  
P0532 A/C Refrigerant Pressure Sensor A Circuit Low Input  
P0533 A/C Refrigerant Pressure Sensor A Circuit High Input  
P0534 A/C Refrigerant Charge Loss  
P0535 A/C Evaporator Temperature Sensor Circuit  
P0536 A/C Evaporator Temperature Sensor CKT Range/Perf  
P0537 A/C Evaporator Temperature Sensor Circuit Low  
P0538 A/C Evaporator Temperature Sensor Circuit High  
P0539 A/C Evaporator Temperature Sensor CKT Intermittent  
P0540 Intake Air Heater A Circuit  
P0541 Intake Air Heater A Circuit Low  
P0542 Intake Air Heater A Circuit High  
P0543 Intake Air Heater A Circuit Open  
P0544 Exhaust Gas Temp. Sensor Circuit (Bank 1 Sensor 1)  
P0545 Exhaust Gas Temp. Sensor Circuit Low (Bank 1 Sensor 1)  
P0546 Exhaust Gas Temp. Sensor Circuit High (Bank 1 Sensor 1)  
P0547 Exhaust Gas Temp. Sensor Circuit (Bank 2 Sensor 1)  
P0548 Exhaust Gas Temp. Sensor Circuit Low (Bank 2 Sensor 1)  
P0549 Exhaust Gas Temp. Sensor Circuit High (Bank 2 Sensor 1)  
P0550 Power Steering Pres Sensor Circuit Malfunction  
P0551 Power Steering Pres Sensor CKT Range/Perf  
P0552 Power Steering Pres Sensor Circuit Low Input  
P0553 Power Steering Pres Sensor Circuit High Input  
P0554 Power Steering Pres Sensor CKT Intermittent  
P0555 Brake Booster Pressure Sensor Circuit  
P0556 Brake Booster Pressure Sensor CKT Range/Perf  
P0557 Brake Booster Pressure Sensor Circuit Low Input  
P0558 Brake Booster Pressure Sensor Circuit High Input  
P0559 Brake Booster Pressure Sensor CKT Intermittent  
P0560 System Voltage Malfunction  
P0561 System Voltage Unstable

P0562 System Voltage Low  
P0563 System Voltage High  
P0564 Cruise Control Multi-Func. Input A Signal Error  
P0565 Cruise Control On Signal Malfunction  
P0566 Cruise Control Off Signal Malfunction  
P0567 Cruise Control Resume Signal Malfunction  
P0568 Cruise Control Set Signal Malfunction  
P0569 Cruise Control Coast Signal Malfunction  
P0570 Cruise Control Acceleration Signal Error  
P0571 Brake Switch A Circuit Malfunction  
P0572 Brake Switch A Circuit Low Input  
P0573 Brake Switch A Circuit High Input  
P0574 Cruise Control Vehicle Speed Too High  
P0575 Cruise Control Circuit Malfunction  
P0576 Cruise Control Circuit Low Input  
P0577 Cruise Control Circuit High Input  
P0578 Cruise Control Multi-Func. Input A Circuit Stuck  
P0579 Cruise Control Multi-Func. Input A CKT Range/Perf  
P0580 Cruise Control Multi-Func. Input A Circuit Low  
P0581 Cruise Control Multi-Func. Input A Circuit High  
P0582 Cruise Control Vacuum Control Circuit/Open  
P0583 Cruise Control Vacuum Control Circuit Low  
P0584 Cruise Control Vacuum Control Circuit High  
P0585 Cruise Control Multi-Func. Input Correlation  
P0586 Cruise Control Vent Control Circuit/Open  
P0587 Cruise Control Vent Control Circuit Low  
P0588 Cruise Control Vent Control Circuit High  
P0589 Cruise Control Multi-Func. Input B Circuit  
P0590 Cruise Control Multi-Func. Input B Circuit Stuck  
P0591 Cruise Control Multi-Func. Input B CKT Range/Perf  
P0592 Cruise Control Multi-Func. Input B Circuit Low  
P0593 Cruise Control Multi-Func. Input B Circuit High  
P0594 Cruise Control Servo Control Circuit/Open  
P0595 Cruise Control Servo Control Circuit Low  
P0596 Cruise Control Servo Control Circuit High  
P0597 Cruise Control Control Circuit/Open  
P0598 Cruise Control Control Circuit Low

## **P0599 - P0672**

P0599	Cruise Control Control Circuit High
P0600	Serial Comm Link Malfunction
P0601	Int Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	PCM Keep Alive Memory (KAM) Error
P0604	PCM Random Access Mem (RAM) Error
P0605	PCM Read Only Memory (ROM) Error
P0606	PCM Processor Fault
P0607	Control Module Performance
P0608	Control Module VSS Output A Malfunction
P0609	Control Module VSS Output B Malfunction
P0610	Control Module Vehicle Options Malfunction
P0611	Injector Control Module Performance
P0612	Injector Control Module Relay Control
P0613	TCM Processor Fault
P0614	ECM/TCM Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High
P0618	Alternative Fuel Module (KAM) Error
P0619	Alternative Fuel Module Memory
P0620	Generator Control Malfunction
P0621	Generator L-Term. Lamp Control
P0622	Generator F-Term. Field F Control
P0623	Generator Lamp Control Circuit
P0624	Fuel Cap Lamp Circuit
P0625	Generator F-Term. Circuit Low
P0626	Generator F-Term. Circuit High
P0627	Fuel Pump A Control Circuit Open
P0628	Fuel Pump A Control Circuit Low
P0629	Fuel Pump A Control Circuit High
P0630	PCM VIN Not Program. Or Mismatch
P0631	TCM VIN Not Program. Or Mismatch
P0632	Odometer Code Not Programmed ECM/PCM
P0633	Immobilizer Code Not Programmed ECM/PCM
P0634	PCM/ECM/TCM Internal Temp. Too High
P0635	Power Steering Control Circuit



P0636 Power Steering Control Circuit Low  
P0637 Power Steering Control Circuit High  
P0638 Throttle Actuator Range/Performance (Bank 1)  
P0639 Throttle Actuator Range/Performance (Bank 2)  
P0640 Intake Air Heater Control Circuit  
P0641 Sensor A Reference Voltage Circuit/Open  
P0642 Sensor A Reference Voltage Circuit Low  
P0643 Sensor A Reference Voltage Circuit High  
P0644 Driver Display Serial Comm Link  
P0645 A/C Clutch Relay Control Circuit  
P0646 A/C Clutch Relay Control Circuit Low  
P0647 A/C Clutch Relay Control Circuit High  
P0648 Immobilizer Lamp Circuit  
P0649 Cruise Control Lamp Circuit  
P0650 MIL Control Circuit Malfunction  
P0651 Sensor B Reference Voltage Circuit/Open  
P0652 Sensor B Reference Voltage Circuit Low  
P0653 Sensor B Reference Voltage Circuit High  
P0654 Engine RPM Circuit Malfunction  
P0655 Engine Hot Lamp Output Circuit Malfunction  
P0656 Fuel Level Output Circuit Malfunction  
P0657 Actuator Supply Voltage A Circuit/Open  
P0658 Actuator Supply Voltage A Circuit Low  
P0659 Actuator Supply Voltage A Circuit High  
P0660 Intake Man Tuning Control CKT Open (Bank 1)  
P0661 Intake Man Tuning Control CKT Low (Bank 1)  
P0662 Intake Man Tuning Control CKT High (Bank 1)  
P0663 Intake Man Tuning Control CKT Open (Bank 2)  
P0664 Intake Man Tuning Control CKT Low (Bank 2)  
P0665 Intake Man Tuning Control CKT High (Bank 2)  
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 High  
P0670 Glow Plug/Heater Module Control  
P0671 Glow Plug/Heater Cylinder 1  
P0672 Glow Plug/Heater Cylinder 2

## **P0673 - P0746**

P0673 Glow Plug/Heater Cylinder 3  
P0674 Glow Plug/Heater Cylinder 4  
P0675 Glow Plug/Heater Cylinder 5  
P0676 Glow Plug/Heater Cylinder 6  
P0677 Glow Plug/Heater Cylinder 7  
P0678 Glow Plug/Heater Cylinder 8  
P0679 Glow Plug/Heater Cylinder 9  
P0680 Glow Plug/Heater Cylinder 10  
P0681 Glow Plug/Heater Cylinder 11  
P0682 Glow Plug/Heater Cylinder 12  
P0683 Glow Plug/Heater Module Comm Problem  
P0684 Glow Plug/Heater Comm Problem CKT 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 High  
P0688 ECM/PCM Power Relay Sense Circuit  
P0689 ECM/PCM Power Relay Sense Circuit Low  
P0690 ECM/PCM Power Relay Sense Circuit High  
P0691 Fan 1 Control Circuit Low  
P0692 Fan 1 Control Circuit High  
P0693 Fan 2 Control Circuit Low  
P0694 Fan 2 Control Circuit High  
P0695 Fan 3 Control Circuit Low  
P0696 Fan 3 Control Circuit High  
P0697 Sensor C Reference Voltage Circuit/Open  
P0698 Sensor C Reference Voltage Circuit Low  
P0699 Sensor C Reference Voltage Circuit High  
P0700 Trans Control Sys Malfunction  
P0701 Trans Control Sys Range/Performance  
P0702 Trans Control Sys Electrical  
P0703 Brake Switch B Circuit Malfunction  
P0704 Clutch Switch Input Circuit Malfunction  
P0705 Trans Range Sensor Circuit Malfunction (PRNDL Input)  
P0706 Trans Range Sensor CKT Range/Perf  
P0707 Trans Range Sensor Circuit Low Input  
P0708 Trans Range Sensor Circuit High Input  
P0709 Trans Range Sensor CKT Intermittent

P0710 Transmission Fluid Temperature Sensor Circuit Malfunction  
P0711 Trans Fluid Temp Sensor A CKT Range/Perf  
P0712 Trans Fluid Temp Sensor A Circuit Low Input  
P0713 Trans Fluid Temp Sensor A Circuit High Input  
P0714 Trans Fluid Temp Sensor A CKT Intermittent  
P0715 Input/Turbine Speed Sensor A Circuit Malfunction  
P0716 Input/Turbine Speed Sensor A CKT Range/Perf  
P0717 Input/Turbine Speed Sensor A Circuit No Signal  
P0718 Input/Turbine Speed Sensor A CKT Intermittent  
P0719 Brake Switch B Circuit Low Input  
P0720 Output Speed Sensor Circuit Malfunction  
P0721 Output Speed Sensor Circuit Range/Perf  
P0722 Output Speed Sensor Circuit No Signal  
P0723 Output Speed Sensor CKT Intermittent  
P0724 Brake Switch B Circuit High Input  
P0725 Engine Speed Sensor Circuit Malfunction  
P0726 Engine Speed Sensor CKT Range/Perf  
P0727 Engine Speed Sensor Circuit No Signal  
P0728 Engine Speed Sensor CKT Intermittent  
P0729 Gear 6 Ratio Incorrect  
P0730 Gear Ratio Incorrect  
P0731 Gear 1 Ratio Incorrect  
P0732 Gear 2 Ratio Incorrect  
P0733 Gear 3 Ratio Incorrect  
P0734 Gear 4 Ratio Incorrect  
P0735 Gear 5 Ratio Incorrect  
P0736 Reverse Ratio Incorrect  
P0737 TCM Engine Speed Output Circuit  
P0738 TCM Engine Speed Output Circuit Low  
P0739 TCM Engine Speed Output Circuit High  
P0740 TCC Circuit Malfunction  
P0741 Torque Converter CKT Performance Or Stuck Off  
P0742 Torque Converter Circuit Stuck On  
P0743 Torque Converter Circuit Electrical  
P0744 Torque Converter CKT Intermittent  
P0745 Pres Ctrl Sol. A Circuit Malfunction  
P0746 Pres Ctrl Sol. A CKT Performance Or Stuck Off

## **P0747 - P0820**

P0747 Pres Ctrl Sol. A Circuit Stuck On  
P0748 Pres Ctrl Sol. A Circuit Electrical  
P0749 Pres Ctrl Sol. A CKT Intermittent  
P0750 Shift Solenoid A Malfunction  
P0751 Shift Solenoid A CKT Performance Or Stuck Off  
P0752 Shift Solenoid A Circuit Stuck On  
P0753 Shift Solenoid A Circuit Electrical  
P0754 Shift Solenoid A CKT Intermittent  
P0755 Shift Solenoid B Malfunction  
P0756 Shift Solenoid B CKT Performance Or Stuck Off  
P0757 Shift Solenoid B Circuit Stuck On  
P0758 Shift Solenoid B Circuit Electrical  
P0759 Shift Solenoid B CKT Intermittent  
P0760 Shift Solenoid C Malfunction  
P0761 Shift Solenoid C CKT Performance Or Stuck Off  
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3. In the event that product needs to be returned, you will be given a Return Material Authorization number.
4. If possible, return the product in its original package with cables and accessories.
5. Print the RMA number and your return address on the outside of the package and send to the address provided by your Customer Service representative.
6. You will be responsible for shipping charges in the event that your repair is not covered by warranty.

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If you need product repaired after your warranty has expired, please call Tech Support at (800) 228-7667. You will be advised of the cost of repair and any freight charges.

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