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:

- **DANGER**: Indicates a possible hazardous situation which, if not avoided, will result in death or serious injury to operator or bystanders.
- **WARNING**: Indicates a possible hazardous situation which, if not avoided, could result in death or serious injury to operator or bystanders.
- **CAUTION**: Indicates a possible hazardous situation which, if not avoided, may result in moderate or minor injury to operator or bystanders.
- **IMPORTANT**: 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:

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

• Monitor Status:

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready</td>
<td>Vehicle was driven enough under proper conditions to complete the monitor.</td>
</tr>
<tr>
<td>Inc</td>
<td>(Incomplete) - Vehicle was not driven enough under proper conditions to complete the monitor.</td>
</tr>
</tbody>
</table>

• 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.


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 the 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 V will be displayed.

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8. View MIL Status
   • Press and release
     READ/Scroll Down key.

9. View I/M Monitors that are Incomplete.
   • Press and release
     READ/Scroll Down key.

   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.

10. View I/M Monitors that are Ready.
    • Press and release
      READ/Scroll Down key.

    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.


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.”


**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 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
P0012 Camshaft Position Actuator A - Bank 1 Timing Over-Retard
P0013 Camshaft Position Actuator B - Bank 1 Circuit Malfunction
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
P0022 Camshaft Position Actuator A - Bank 2 Timing Over-Retard
P0023 Camshaft Position Actuator B - Bank 2 Circuit Malfunction
P0025 Camshaft Position Actuator B - Bank 2 Timing Over-Retard
P0026 Intake Valve-Bank 1 Control Solenoid CKT Range/Perf
P0027 Exhaust Valve-Bank 1 Control Solenoid CKT Range/Perf
P0028 Intake Valve-Bank 2 Control Solenoid CKT Range/Perf
P0029 Exhaust Valve-Bank 2 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 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
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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
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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
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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
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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
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P0481  Cooling Fan 2 Control Circuit
P0482  Cooling Fan 3 Control Circuit
P0483  Control Fan Rationality Check Malfunction
P0484  Control Fan CKT Over Current
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P0496  EVAP Emission High Purge Flow Fault
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P0499  EVAP Emission Vent Vlv/Sol Malf Circuit High
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P0501  Veh Speed Sensor A Range/Performance
P0502  Veh Speed Sensor A Circuit Low Input
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P0504  Brake Switch A Brake Switch B Correlation
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P0506  Idle Control System RPM Low
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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
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P0517  Battery Temperature Circuit High
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P0519  Idle Air Control System Performance
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P0521  Engine Oil Pressure Sensor/Switch Range/Performance
P0522  Engine Oil Pressure Sensor/Switch Low Voltage
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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
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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)
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P0551  Power Steering Pres Sensor CKT Range/Perf
P0552  Power Steering Pres Sensor Circuit Low Input
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P0556  Brake Booster Pressure Sensor CKT Range/Perf
P0557  Brake Booster Pressure Sensor Circuit Low Input
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P0565 Cruise Control On Signal Malfunction
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P0584 Cruise Control Vacuum Control Circuit High
P0585 Cruise Control Multi-Func. Input Correlation
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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 Cruise Control Control Circuit High
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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
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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
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P0636  Power Steering Control Circuit Low
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P0662  Intake Man Tuning Control CKT High (Bank 1)
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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
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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
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P0707 Trans Range Sensor Circuit Low Input
P0708 Trans Range Sensor Circuit High Input
P0709 Trans Range Sensor CKT Intermittent
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P0738  TCM Engine Speed Output Circuit Low
P0739  TCM Engine Speed Output Circuit High
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P0744  Torque Converter CKT Intermittent
P0745  Pres Ctrl Sol. A Circuit Malfunction
P0746  Pres Ctrl Sol. A CKT Performance Or Stuck Off
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P0747  Pres Ctrl Sol. A Circuit Stuck On
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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.
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