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|  |
| --- |
| **WARNING SYMBOLS AND DEFINITIONS** |
|  | This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. |
|  | Indicates a hazardous situation which, if not avoided, will result in death or serious injury. |
|  | Indicates a hazardous situation which, if not avoided, could result in death or serious injury. |
|  | Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. |
|  | Addresses practices not related to personal injury. |

**Important Safety Information**

**Work Area Safety**

1. Keep your work area clean and well lit.

Cluttered benches and dark areas may cause accidents.

2. Do not connect or disconnect the

Code Reader while the ignition is on or the engine is running.

3. **DO NOT attempt to operate the Code Reader while driving the vehicle. Have a passenger operate the Code Reader.**

4. Before testing a vehicle, engage the parking brake and chock the tires.

5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.

6. Operate the vehicle in a well ventilated work area.

***Exhaust gases are poisonous.***

7. Do not operate the Code Reader

in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.

8. Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.

9. Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.

10. Keep bystanders, children and visitors away while operating the Code Reader.

11. This product is not a toy. Do not allow children to play with or near this item.

12. Use as intended only.

13. Inspect before every use; do not use if parts are loose or damaged.

14. Do not place the Code Reader on any unstable surface.

15. Handle the Code Reader with care. If the Code Reader is dropped, check for breakage and any other conditions that may affect its operation.

16. Keep the Code Reader dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the Code Reader, when necessary.

17. Store the Code Reader and accessories in a locked area out of the reach of children.

18. Maintain product labels and nameplates. These carry important safety information.

If unreadable or missing, contact

the company for a replacement.

|  |  |
| --- | --- |
| **Electrical Safety** |  |
| 1. Do not use the Code Reader while standing in. water. | 3. | Do not expose the Code Reader to rain or wet conditions. |

2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.

***Water entering the Code Reader***

***increases the risk of electric shock.***

4. Make sure your hands are dry before operating the Code Reader.

**Personal Safety**

1. Wear ANSI-approved safety goggles during use.

2. Do not wear loose clothing or jewelry.

Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

3. Do not use the Code Reader while tired or under the influence of drugs, alcohol, or medications. A moment of interruption can result in serious personal injury.

4. People with pacemakers should consult their physician(s) before

use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference

or pacemaker failure.

**Service**

5. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

There are no user serviceable parts. Code Reader service must be performed only by qualify

repair personnel.

**Specifications**

|  |  |
| --- | --- |
| Display Screen | Backlit LCD Display |
| Operating Temperature | 32°F to 140°F |
| Storage Temperature | -4°F to 158°F |
| Power | 9V to 16V power provided by vehicle battery |

**Overview**

**OBD II On-Board Diagnostics**

It is required by the EPA that all 1996 and newer vehicles sold in the United States be equipped with an OBD II computer system.

OBD II is an early warning system designed to monitor engine, transmission, and emissions control components by performing specific diagnostic tests.

When a fault condition is detected, the system captures important data and activates the “Check Engine” light.

**Vehicle Coverage**

This Code Reader is designed to work with all OBD II compliant vehicles, including those equipped with a CAN bus.

OBD II was installed in some 1994 and

1995 model year gasoline vehicles.

If the light comes on, the vehicle might have a condition that wastes fuel, shortens engine life, or causes excessive air pollution. If

the problem that caused the light to come on is addressed, for instance a loose gas cap is tightened, the light will go out.

If the light comes on and stays on, a minor engine fault condition is occurring and should be addressed as soon as possible.

If the light is blinking, a severe engine fault condition is occurring and should be addressed immediately.

The Code Reader connects to the vehicle’s computer system and captures information that can help identify the fault condition.

To verify if a 1994 or 1995 vehicle is OBD II compliant, check the Vehicle Emissions Control Information label, which is located in the engine compartment.

**Definitions**

• **DLC: Data Link Connector**

The 16-cavity connector on the vehicle that allows communication between the computer system and the Code Reader.

• **Drive Cycle**

A set of driving procedures that, when met, provide the Enabling Criteria for the I/M Monitors to run and complete their diagnostic tests.

• **Control Modules**

**I**ndividual computers that operate and monitor different systems in the vehicle. Control Modules vary depending on manufacturer.

**I/M Monitors**

• **MIL: Malfunction Indicator Lamp** The vehicle’s “Check Engine” warning light that activates

when a DTC is stored.

• **DTC: Diagnostic Trouble Code** A code stored in the computer system’s memory, which helps to identify the fault condition that is causing the MIL to activate.

• **Freeze Frame Data** Operating conditions that are stored when a DTC is stored.

• **PID - Parameter Identification Data**

Data returned by the vehicle’s

Control Modules to the Code Reader.

Inspection and Maintenance diagnostic tests that the Control Modules perform on specific sub-systems of the vehicle.

There are two types of Monitors:

• **Continuous:** Monitors that perform tests all the time while the engine is running.

**Gasoline Engine Monitors**

**Continuous**

**MIS** - Misfire

**FUEL** - Fuel System

**CCM** - Comprehensive Components

**Diesel Engine Monitors**

**Continuous**

**MIS** - Misfire

**FUEL** - Fuel System

**CCM** - Comprehensive Components

• **Non-Continuous:** Monitors that require specific operating conditions to be met during a Drive Cycle in order for the Monitors to run their testing sequences.

**Note:** Not all Monitors are supported by all vehicles.

**Non-Continuous**

**CAT** - Catalyst

**HCAT** - Heated Catalyst **EVAP** - Evaporative System **AIR** - Secondary Air System **O2S** - Oxygen Sensors

**HRT** - Oxygen Sensor Heater

**EGR** - EGR System

**Non-Continuous**

**HCCAT** - NMHC Catalyst **NCAT** - NOx Aftertreatment **BP** - Boost Pressure System **EGS** - Exhaust Gas Sensor **PM** - PM Filter

**EGR** - EGR System

**Diagnostic Trouble Code**

A five digit alphanumeric identifier for a fault condition identified by the OBD II system. There are three types of DTCs:

1. **Pending** - When a fault condition is identified during a Drive Cycle, but does not meet enough

criteria to activate the MIL.

If the fault condition occurs during two consecutive Drive Cycles, it will turn into a Stored DTC and the MIL will activate.

2. **Stored** - A DTC is stored when a fault condition has occurred that meets enough criteria to activate the MIL.

3. **Permanent** - A stored DTC that can only be cleared by the OBD II system, after repairs are made, and a set number of Driving Cycles have been completed.

**Example: P0311 - Cylinder 11 Misfire**

**Systems**

B - Body

C - Chassis

**P - Powertrain**

U - Network

**Code Types\***

**0 - Generic**

1 - Manufacturer Specific

2 - Generic Powertrain/Manufacturer Specific

3 - Generic Powertrain/Manufacturer Specific

**Sub-Systems**

1 - Fuel and Air Metering

2 - Fuel and Air Metering

(injector circuit malfunction only)

**3 - Ignition Malfunction or Engine Misfire**

4 - Auxiliary Emission Controls

5 - Vehicle Speed or Idle Controls

6 - Computer Output Circuits

7 - Transmission Controls

8 - Transmission Controls

**11 - Cylinder 11**

**P 0 3 1 1**

**\*The Code Reader supports the following Code Types:**

Generic (SAE): P0, P2, P3, U0

Manufacturer Specific: P1, P3, U0

**Figure 1**

**Before Use:**

**Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document including all text under subheadings therein before use.**

**Functions**



**Figure 2**

**Code Reader Description**

**1.** **UP button** - Moves to previous screen if information covers more than one screen.

**2.**  **DOWN button** - Moves to next screen if information covers more than one screen.

**3.**  **ESC button** - Cancels a selection from a menu or returns to the previous screen.

**4.**  **ENTER button** - Confirms a selection.

**5.**  **GREEN LED** - Indicates that all engine systems are running normally and no DTCs are present.

**6. ** **YELLOW LED** - Indicates there are pending DTCs and/or there are Monitors that have not finishing running.

**7. ** **RED LED** - Indicates there is a fault condition in one or more of the vehicle’s systems and stored DTCs are present.

**8.LCD Display** - Displays test results, Code Reader functions and Monitor status information.

The table below lists current OBD II Monitors, and indicates the following for each Monitor:

A. Monitor Type (how often does the Monitor run; Continuous or Once per trip)

B. Number of trips needed, with a fault present, to set a pending DTC

C. Number of consecutive trips needed, with a fault present, to command the MIL

“On” and store a DTC

D. Number of trips needed, with no faults present, to erase a Pending DTC

E. Number and type of trips or drive cycles needed, with no faults present, to turn off the MIL

F. Number of warm-up periods needed to erase the DTC from the computer’s memory after the MIL is turned off

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of Monitor | A | B | C | D | E | F |
| ComprehensiveComponent Monitor | Continuous | 1 | 2 | 1 | 3 | 40 |
| Misfire Monitor(Type 1 and 3) | Continuous | 1 | 2 | 1 | 3 - similar conditions | 80 |
| Misfire Monitor(Type 2) | Continuous |  | 1 |  | 3 - similar conditions | 80 |
| Fuel System Monitor | Continuous | 1 | 1 or 2 | 1 | 3 - similar conditions | 80 |
| Catalytic ConverterMonitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Oxygen Sensor Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Oxygen Sensor Heater Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Exhaust Gas Recirculation (EGR) Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Evaporative Emissions Controls Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Secondary AirSystem (AIR) Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| NMHC Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Nox Adsorber Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Boost PressureSystem Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| Exhaust Gas SensorMonitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |
| PM Filter Monitor | Once per trip | 1 | 2 | 1 | 3 trips | 40 |

**Operating Instructions**

**Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document including all text under subheadings therein before set up or use of this product.**

**TO PREVENT SERIOUS INJURY AND DEATH:**

**Exhaust gases are poisonous. Operate the vehicle in a well ventilated work area. Wear ANSI-approved safety goggles during use.**

**Connect Code Reader**

**CAUTION: Do not connect or disconnect the Code Reader while the ignition**

**is on or the engine is running.**

**Note:** The Code Reader is powered by the vehicle’s battery.

1. Turn the engine and ignition **OFF.**

2. Connect the Cable to the 16-cavity DLC.

The DLC is normally located under the dashboard on

the driver’s side. (Refer to vehicle’s owner’s manual

for location of DLC.)

3. Turn the vehicle’s ignition **ON** with the engine **OFF**.

Note：If Linking Error! Message displays:

• Verify the ignition is ON • Verify the vehicle is OBD II compliant

4. If the message does not go away, have the Code Reader inspected by a qualified technician.

**CODE RETRIEVE PROCEDURE**

Never replace a part based only on the DTC definition. Each DTC has a set of testing procedures, instructions and flow charts that must be followed to confirm the location of the problem. This information is found in the vehicle's service manual. Always refer to the vehicle's service manual for detailed testing instructions.

Check your vehicle thoroughly before performing any test.

ALWAYS observe safety precautions whenever working on a vehicle.

1. Turn off the ignition.



 **Figure 3**

1. Locate the vehicle's 16-pin Data Link Connector (DLC).

3. Connect the Code Reader’s cable connector to the vehicle's DLC. The cable connector is keyed and will only fit one way.



 **Figure 4**

4. Turn the ignition on. DO NOT start the engine.



  **Figure 5**

5. The Coder Reader will automatically link to the vehicle’s computer.

The LCD display will show "rEAd.” If the LCD display is blank, it indicates there is no power at the vehicle's DLC. Check your fuse panel and replace any burned-out fuses.

If replacing the fuse(s) does not correct the problem, see your vehicle's repair manual to locate the proper computer (PCM) fuse/circuit. Perform any necessary repairs before continuing.

After 4-5 seconds, the Code Reader will retrieve and display any Diagnostic Trouble Codes that are in the vehicle's computer memory.

If an error message (Err, Err1 or Err2) is shown on the Code Reader’s LCD display, it indicates there is a communication problem. This means that the Code Reader is unable to communicate with the vehicle's computer. Do the following:

Turn the ignition key off, wait 5 seconds and turn the key back on to reset the computer.

Make sure your vehicle is OBD II compliant. See VEHICLES COVERAGE on page 5 for vehicle compliance verification information.



 **Figure 6**  **Figure 7**

6. Read and interpret the Diagnostic Trouble Codes using the LCD display and the green, yellow and red LEDs.

The green, yellow and red LEDs are used (with the LCD display) as visual aids to make it easier for the user to determine engine system conditions.

Green LED - Indicates that all engine systems are "OK" and running normally. All monitors on the vehicle are active and are performing their diagnostic testing, and no trouble codes are present. A zero will show on the Code Reader’s LCD display for further confirmation.

 **Figure 8**

Yellow LED - Indicates one of the following conditions:

PENDING CODE PRESENT - If the yellow LED is lit, it may indicate the existence of a pending code. Check the Code Reader’s LCD display for confirmation. A pending code is confirmed by the presence of a numeric code and the word PENDING on the Code Reader’s LCD display. If no pending code is shown, the yellow LED indicates Monitor Status (see the following).



 **Figure 9**

MONITOR STATUS - If the Code Reader’s LCD display shows a zero (indicating there are no DTCs present in the vehicle's computer), but the yellow LED is lit, it indicates a "Monitor Has Not Run" status. This means that some of the Monitors on the vehicle have not yet finished their diagnostic self-testing. This condition is confirmed by one or more blinking.

Monitor icons on the LCD display. A blinking Monitor icon means the Monitor has not yet run and finished its diagnostic self-testing. All Monitor icons that are solid have completed their diagnostic self-testing.



 **Figure 10**

Red LED - Indicates there is a problem with one or more of the vehicle's systems. The red LED is also used to show that DTC(s) are present (displayed on the Code Reader’s LCD display). In this case, the Multifunction Indicator (Check Engine) lamp on the vehicle's instrument panel will light steady on.



 **Figure 11**

The Code Reader will automatically re-link to the vehicle's computer every 15 seconds to refresh the data being retrieved. When data is being refreshed, a single beep will sound, and "rEAd" will be shown on the LCD display for 5-6 seconds. The Code Reader will then beep twice and return to displaying codes. This action repeats as long as the Code Reader is in communication with the vehicle's computer.

The Code Reader will display a code only if codes are present in the vehicle's computer memory. If no codes are present, a "0" will be displayed.

7. If more than one code is present, press the UP/ DOWN button, as necessary, to display additional codes.

Use the included software or visit the manufacturer's website for Fault Code Definitions. Match the retrieved DTC(s) with those listed. Read the associated definition(s), and see the vehicle's service manual for further evaluation.

**ERASING DIAGNOSTIC TROUBLE CODES (DTCs)**

When the Code Reader’s ERASE function is used to erase the DTCs from the vehicle's on-board computer, "Freeze Frame" data and manufacturer-specific enhanced data are also erased.

If you plan to take the vehicle to a Service Center for repair, DO NOT erase the codes from the vehicle's computer. If the codes are erased, valuable information that might help the technician troubleshoot the problem will also be erased.

Erase DTCs from the computer's memory as follows:

When DTCs are erased from the vehicle's computer memory, the I/M Readiness Monitor Status program resets status of all the Monitors to a not run "flashing" condition. To set all of the Monitors to a DONE status, an OBD II Drive Cycle must be performed. Refer to your vehicle's service manual for information on how to perform an OBD II Drive Cycle for the vehicle under test.

1. If not connected already, connect the Code Reader to the vehicle's DLC. (If the Code Reader is already connected and linked to the vehicle's computer, proceed directly to step 4. If not, continue to step 2.)

2. Turn the ignition on. DO NOT start the engine. The Code Reader will automatically link to the vehicle’s computer.

3. Press and release the Code Reader’s ENTER button. The LCD display will indicate "SurE" for your confirmation.

If you change your mind and do not wish to erase the codes, press the ESC button to return to the code retrieval function.



 **Figure 12**

If you wish to continue, press the ENTER button again. When all retrievable information, including DTCs, has been cleared from the computer’s memory, the Code Reader will re-link to the vehicle’s computer, and the LCD display will show "rEAd.”



  **Figure 13**

Erasing DTCs does not fix the problem(s) that caused the code(s) to be set. If proper repairs to correct the problem that caused the code(s) to be set are not made, the code(s) will appear again (and the check engine light will illuminate) as soon as the vehicle is driven long enough for its Monitors to complete their testing.

**Inspection and Maintenance**

**Procedures not specifically explained in this manual must be performed only by a qualified technician.**

**TO PREVENT SERIOUS INJURY FROM ELECTRICAL SHOCK:**

**Make sure that the Code Reader is unplugged from the vehicle before performing any procedure in this section.**

**Inspection**

1. **BEFORE EACH USE,** inspect the general condition of the Code Reader. Check for:

**Cleaning and Storage**

1. **AFTER USE,** use a mild detergent on a clean cloth to remove any oil, grease or dirt from the Code Reader, especially on the buttons, being careful to not put excessive pressure on the Display Screen.

**Troubleshooting**

• cracked or damaged Cable,

• cracked or broken parts, and

• any other condition that may affect its safe operation.

2. Do not use solvents on the Keyboard.

Do not soak the Keyboard, Use a mild nonabrasive detergent and a soft cloth.

3. Store the Code Reader, and accessories away from sunlight in a dry, locked area, out of the reach of children.

|  |  |  |
| --- | --- | --- |
| **Problem** | **Possible Causes** | **Likely Solutions** |
| Code Reader doesn’t power up | 1. OBD II Cable connectornot connected securely.1. Vehicle’s DLC pins are bent or broken.

3. Vehicle’s battery is bad. | 1. Verify that Cable connectoris securely connected to the vehicle’s DLC.2. Check if the DLC pins are bent or broken. If bent or broken, have a certified technician repair the DLC.3. Make sure vehicle’s battery it providing at least 8V. |
| Vehicle Linking Error | 1. Vehicle is not OBDcompliant.2. Ignition is off.3. Bad connection. | 1. Verify that the vehicle is OBD II compliant.2. Verify that the ignition is ON.3. Reset the tool by turning the ignition off, waiting 10 seconds, then turning the ignition back on. |
| **Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.** |

**Diagnostic Trouble Code Definitions Lookup Table**

The following Diagnostic Trouble Code Definitions lists provide only Generic Diagnostic Trouble Codes. For Manufacturer Specific Diagnostic Trouble Code Definitions consult the vehicle’s service manual.

|  |  |
| --- | --- |
| No. | DTC and description |
| 1 | P0001 Fuel Volume Regulator Control Circuit/Open |
| 2 | P0002 Fuel Volume Regulator Control Circuit Range/Performance |
| 3 | P0003 Fuel Volume Regulator Control Circuit Low |
| 4 | P0004 Fuel Volume Regulator Control Circuit High |
| 5 | P0005 Fuel Shutoff Valve A Control Circuit/Open |
| 6 | P0006 Fuel Shutoff Valve A Control Circuit Low |
| 7 | P0007 Fuel Shutoff Valve A Control Circuit High |
| 8 | P0008 Engine Position System Performance Bank 1 |
| 9 | P0009 Engine Position System Performance Bank 2 |
| 10 | P000A A Camshaft Position Slow Response Bank 1 |
| 11 | P000B B Camshaft Position Slow Response Bank 1 |
| 12 | P000C A Camshaft Position Slow Response Bank 2 |
| 13 | P000D B Camshaft Position Slow Response Bank 2 |
| 14 | P0010 A Camshaft Position Actuator Circuit / Open Bank 1 |
| 15 | P0011 A Camshaft Position Timing Over-Advanced or System Performance Bank 1 |
| 16 | P0012 A Camshaft Position Timing Over-Retarded Bank 1 |
| 17 | P0013 B Camshaft Position Actuator Circuit / Open Bank 1 |
| 18 | P0014 B Camshaft Position Timing Over-Advanced or System Performance Bank 1 |
| 19 | P0015 B Camshaft Position Timing Over-Retarded Bank 1 |
| 20 | P0016 Crankshaft Position Camshaft Position Correlation Bank 1 Sensor A |
| 21 | P0017 Crankshaft Position Camshaft Position Correlation Bank 1 Sensor B |
| 22 | P0018 Crankshaft Position Camshaft Position Correlation Bank 2 Sensor A |
| 23 | P0019 Crankshaft Position Camshaft Position Correlation Bank 2 Sensor B |
| 24 | P0020 A Camshaft Position Actuator Circuit / Open Bank 2 |
| 25 | P0021 A Camshaft Position Timing Over-Advanced or System Performance Bank 2 |
| 26 | P0022 A Camshaft Position Timing Over-Retarded Bank 2 |
| 27 | P0023 B Camshaft Position Actuator Circuit / Open Bank 2 |
| 28 | P0024 B Camshaft Position Timing Over-Advanced or System Performance Bank 2 |
| 29 | P0025 B Camshaft Position Timing Over-Retarded Bank 2 |
| 30 | P0026 Intake Valve Control Solenoid Circuit Range/Performance Bank 1 |
| 31 | P0027 Exhaust Valve Control Solenoid Circuit Range/Performance Bank 1 |
| 32 | P0028 Intake Valve Control Solenoid Circuit Range/Performance Bank 2 |
| 33 | P0029 Exhaust Valve Control Solenoid Circuit Range/Performance Bank 2 |
| 34 | P0030 HO2S Heater Control Circuit Bank 1 Sensor 1 |
| 35 | P0031 HO2S Heater Control Circuit Low Bank 1 Sensor 1 |
| 36 | P0032 HO2S Heater Control Circuit High Bank 1 Sensor 1 |
| 37 | P0033 Turbocharger/Supercharger Bypass Valve Control Circuit |
| 38 | P0034 Turbocharger/Supercharger Bypass Valve Control Circuit Low |
| 39 | P0035 Turbocharger/Supercharger Bypass Valve Control Circuit High |
| 40 | P0036 HO2S Heater Control Circuit Bank 1 Sensor 2 |
| 41 | P0037 HO2S Heater Control Circuit Low Bank 1 Sensor 2 |
| 42 | P0038 HO2S Heater Control Circuit High Bank 1 Sensor 2 |
| 43 | P0039 Turbocharger/Supercharger Bypass Valve Control Circuit Range/Performance |
| 44 | P0040 O2 Sensor Signals Swapped Bank 1 Sensor 1/Bank 2 Sensor 1 |
| 45 | P0041 O2 Sensor Signals Swapped Bank 1 Sensor 2/Bank 2 Sensor 2 |
| 46 | P0042 HO2S Heater Control Circuit Bank 1 Sensor 3 |
| 47 | P0043 HO2S Heater Control Circuit Low Bank 1 Sensor 3 |
| 48 | P0044 HO2S Heater Control Circuit High Bank 1 Sensor 3 |
| 49 | P0045 Turbocharger/Supercharger Boost Control Solenoid A Circuit/Open |
| 50 | P0046 Turbocharger/Supercharger Boost Control Solenoid A Circuit |
| 51 | P0047 Turbocharger/Supercharger Boost Control Solenoid A Circuit Low |
| 52 | P0048 Turbocharger/Supercharger Boost Control Solenoid A Circuit High |
| 53 | P0049 Turbocharger/Supercharger Turbine Overspeed |
| 54 | P004A Turbocharger/Supercharger Boost Control Solenoid B Circuit / Open |
| 55 | P004B Turbocharger/Supercharger Boost Control Solenoid B Circuit |
| 56 | P004C Turbocharger/Supercharger Boost Control Solenoid B Circuit Low |
| 57 | P004D Turbocharger/Supercharger Boost Control Solenoid B Circuit High |
| 58 | P004E Turbocharger/Supercharger Boost Control Solenoid A Circuit Intermittent/Erratic |
| 59 | P004F Turbocharger/Supercharger Boost Control Solenoid B Circuit Intermittent/Erratic |
| 60 | P0050 HO2S Heater Control Circuit Bank 2 Sensor 1 |
| 61 | P0051 HO2S Heater Control Circuit Low Bank 2 Sensor 1 |
| 62 | P0052 HO2S Heater Control Circuit High Bank 2 Sensor 1 |
| 63 | P0053 HO2S Heater Resistance Bank 1 Sensor 1 |
| 64 | P0054 HO2S Heater Resistance Bank 1 Sensor 2 |
| 65 | P0055 HO2S Heater Resistance Bank 1 Sensor 3 |
| 66 | P0056 HO2S Heater Control Circuit Bank 2 Sensor 2 |
| 67 | P0057 HO2S Heater Control Circuit Low Bank 2 Sensor 2 |
| 68 | P0058 HO2S Heater Control Circuit High Bank 2 Sensor 2 |
| 69 | P0059 HO2S Heater Resistance Bank 2 Sensor 1 |
| 70 | P0060 HO2S Heater Resistance Bank 2 Sensor 2 |
| 71 | P0061 HO2S Heater Resistance Bank 2 Sensor 3 |
| 72 | P0062 HO2S Heater Control Circuit Bank 2 Sensor 3 |
| 73 | P0063 HO2S Heater Control Circuit Low Bank 2 Sensor 3 |
| 74 | P0064 HO2S Heater Control Circuit High Bank 2 Sensor 3 |
| 75 | P0065 Air Assisted Injector Control Range/Performance |
| 76 | P0066 Air Assisted Injector Control Circuit or Circuit Low |
| 77 | P0067 Air Assisted Injector Control Circuit High |
| 78 | P0068 MAP/MAF Throttle Position Correlation |
| 79 | P0069 Manifold Absolute Pressure Barometric Pressure Correlation |
| 80 | P006A MAP Mass or Volume Air Flow Correlation |
| 81 | P006B MAP Exhaust Pressure Correlation |
| 82 | P006C MAP Turbocharger/Supercharger Inlet Pressure Correlation |
| 83 | P006D Barometric Pressure Turbocharger/Supercharger Inlet Pressure Correlation |
| 84 | P0070 Ambient Air Temperature Sensor Circuit |
| 85 | P0071 Ambient Air Temperature Sensor Range/Performance |
| 86 | P0072 Ambient Air Temperature Sensor Circuit Low |
| 87 | P0073 Ambient Air Temperature Sensor Circuit High |
| 88 | P0074 Ambient Air Temperature Sensor Circuit Intermittent |
| 89 | P0075 Intake Valve Control Solenoid Circuit Bank 1 |
| 90 | P0076 Intake Valve Control Solenoid Circuit Low Bank 1 |
| 91 | P0077 Intake Valve Control Solenoid Circuit High Bank 1 |
| 92 | P0078 Exhaust Valve Control Solenoid Circuit Bank 1 |
| 93 | P0079 Exhaust Valve Control Solenoid Circuit Low Bank 1 |
| 94 | P0080 Exhaust Valve Control Solenoid Circuit High Bank 1 |
| 95 | P0081 Intake Valve Control Solenoid Circuit Bank 2 |
| 96 | P0082 Intake Valve Control Solenoid Circuit Low Bank 2 |
| 97 | P0083 Intake Valve Control Solenoid Circuit High Bank 2 |
| 98 | P0084 Exhaust Valve Control Solenoid Circuit Bank 2 |
| 99 | P0085 Exhaust Valve Control Solenoid Circuit Low Bank 2 |
| 100 | P0086 Exhaust Valve Control Solenoid Circuit High Bank 2 |
| 101 | P0087 Fuel Rail/System Pressure Too Low |
| 102 | P0088 Fuel Rail/System Pressure Too High |
| 103 | P0089 Fuel Pressure Regulator 1 Performance |
| 104 | P0090 Fuel Pressure Regulator 1 Control Circuit |
| 105 | P0091 Fuel Pressure Regulator 1 Control Circuit Low |
| 106 | P0092 Fuel Pressure Regulator 1 Control Circuit High |
| 107 | P0093 Fuel System Leak Detected Large Leak |
| 108 | P0094 Fuel System Leak Detected Small Leak |
| 109 | P0095 Intake Air Temperature Sensor 2 Circuit |
| 110 | P0096 Intake Air Temperature Sensor 2 Circuit Range/Performance |
| 111 | P0097 Intake Air Temperature Sensor 2 Circuit Low |
| 112 | P0098 Intake Air Temperature Sensor 2 Circuit High |
| 113 | P0099 Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic |
| 114 | P009A Intake Air Temperature / Ambient Air Temperature Correlation |
| 115 | P0100 Mass or Volume Air Flow A Circuit |
| 116 | P0101 Mass or Volume Air Flow A Circuit Range/Performance |
| 117 | P0102 Mass or Volume Air Flow A Circuit Low |
| 118 | P0103 Mass or Volume Air Flow A Circuit High |
| 119 | P0104 Mass or Volume Air Flow A Circuit Intermittent |
| 120 | P0105 Manifold Absolute Pressure/Barometric Pressure Circuit |
| 121 | P0106 Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance |
| 122 | P0107 Manifold Absolute Pressure/Barometric Pressure Circuit Low |
| 123 | P0108 Manifold Absolute Pressure/Barometric Pressure Circuit High |
| 124 | P0109 Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent |
| 125 | P010A Mass or Volume Air Flow B Circuit |
| 126 | P010B Mass or Volume Air Flow B Circuit Range/Performance |
| 127 | P010C Mass or Volume Air Flow B Circuit Low |
| 128 | P010D Mass or Volume Air Flow B Circuit High |
| 129 | P010E Mass or Volume Air Flow B Circuit Intermittent/Erratic |
| 130 | P010F Mass or Volume Air Flow Sensor A/B Correlation |
| 131 | P0110 Intake Air Temperature Sensor 1 Circuit |
| 132 | P0111 Intake Air Temperature Sensor 1 Circuit Range/Performance |
| 133 | P0112 Intake Air Temperature Sensor 1 Circuit Low |
| 134 | P0113 Intake Air Temperature Sensor 1 Circuit High |
| 135 | P0114 Intake Air Temperature Sensor 1 Circuit Intermittent |
| 136 | P0115 Engine Coolant Temperature Sensor 1 Circuit |
| 137 | P0116 Engine Coolant Temperature Sensor 1 Circuit Range/Performance |
| 138 | P0117 Engine Coolant Temperature Sensor 1 Circuit Low |
| 139 | P0118 Engine Coolant Temperature Sensor 1 Circuit High |
| 140 | P0119 Engine Coolant Temperature Sensor 1 Circuit Intermittent |
| 141 | P011A Engine Coolant Temperature Sensor 1/2 Correlation |
| 142 | P0120 Throttle/Pedal Position Sensor/Switch A Circuit |
| 143 | P0121 Throttle/Pedal Position Sensor/Switch A Circuit Range/Performance |
| 144 | P0122 Throttle/Pedal Position Sensor/Switch A Circuit Low |
| 145 | P0123 Throttle/Pedal Position Sensor/Switch A Circuit High |
| 146 | P0124 Throttle/Pedal Position Sensor/Switch A Circuit Intermittent |
| 147 | P0125 Insufficient Coolant Temperature for Closed Loop Fuel Control |
| 148 | P0126 Insufficient Coolant Temperature for Stable Operation |
| 149 | P0127 Intake Air Temperature Too High |
| 150 | P0128 Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature) |
| 151 | P0129 Barometric Pressure Too Low |
| 152 | P012A Turbocharger/Supercharger Inlet Pressure Sensor Circuit |
| 153 | P012B Turbocharger/Supercharger Inlet Pressure Sensor Circuit Range/Performance |
| 154 | P012C Turbocharger/Supercharger Inlet Pressure Sensor Circuit Low |
| 155 | P012D Turbocharger/Supercharger Inlet Pressure Sensor Circuit High |
| 156 | P012E Turbocharger/Supercharger Inlet Pressure Sensor Circuit Intermittent/Erratic |
| 157 | P0130 O2 Sensor Circuit Bank 1 Sensor 1 |
| 158 | P0131 O2 Sensor Circuit Low Voltage Bank 1 Sensor 1 |
| 159 | P0132 O2 Sensor Circuit High Voltage Bank 1 Sensor 1 |
| 160 | P0133 O2 Sensor Circuit Slow Response Bank 1 Sensor 1 |
| 161 | P0134 O2 Sensor Circuit No Activity Detected Bank 1 Sensor 1 |
| 162 | P0135 O2 Sensor Heater Circuit Bank 1 Sensor 1 |
| 163 | P0136 O2 Sensor Circuit Bank 1 Sensor 2 |
| 164 | P0137 O2 Sensor Circuit Low Voltage Bank 1 Sensor 2 |
| 165 | P0138 O2 Sensor Circuit High Voltage Bank 1 Sensor 2 |
| 166 | P0139 O2 Sensor Circuit Slow Response Bank 1 Sensor 2 |
| 167 | P0140 O2 Sensor Circuit No Activity Detected Bank 1 Sensor 2 |
| 168 | P0141 O2 Sensor Heater Circuit Bank 1 Sensor 2 |
| 169 | P0142 O2 Sensor Circuit Bank 1 Sensor 3 |
| 170 | P0143 O2 Sensor Circuit Low Voltage Bank 1 Sensor 3 |
| 171 | P0144 O2 Sensor Circuit High Voltage Bank 1 Sensor 3 |
| 172 | P0145 O2 Sensor Circuit Slow Response Bank 1 Sensor 3 |
| 173 | P0146 O2 Sensor Circuit No Activity Detected Bank 1 Sensor 3 |
| 174 | P0147 O2 Sensor Heater Circuit Bank 1 Sensor 3 |
| 175 | P0148 Fuel Delivery Error |
| 176 | P0149 Fuel Timing Error |
| 177 | P0150 O2 Sensor Circuit Bank 2 Sensor 1 |
| 178 | P0151 O2 Sensor Circuit Low Voltage Bank 2 Sensor 1 |
| 179 | P0152 O2 Sensor Circuit High Voltage Bank 2 Sensor 1 |
| 180 | P0153 O2 Sensor Circuit Slow Response Bank 2 Sensor 1 |
| 181 | P0154 O2 Sensor Circuit No Activity Detected Bank 2 Sensor 1 |
| 182 | P0155 O2 Sensor Heater Circuit Bank 2 Sensor 1 |
| 183 | P0156 O2 Sensor Circuit Bank 2 Sensor 2 |
| 184 | P0157 O2 Sensor Circuit Low Voltage Bank 2 Sensor 2 |
| 185 | P0158 O2 Sensor Circuit High Voltage Bank 2 Sensor 2 |
| 186 | P0159 O2 Sensor Circuit Slow Response Bank 2 Sensor 2 |
| 187 | P0160 O2 Sensor Circuit No Activity Detected Bank 2 Sensor 2 |
| 188 | P0161 O2 Sensor Heater Circuit Bank 2 Sensor 2 |
| 189 | P0162 O2 Sensor Circuit Bank 2 Sensor 3 |
| 190 | P0163 O2 Sensor Circuit Low Voltage Bank 2 Sensor 3 |
| 191 | P0164 O2 Sensor Circuit High Voltage Bank 2 Sensor 3 |
| 192 | P0165 O2 Sensor Circuit Slow Response Bank 2 Sensor 3 |
| 193 | P0166 O2 Sensor Circuit No Activity Detected Bank 2 Sensor 3 |
| 194 | P0167 O2 Sensor Heater Circuit Bank 2 Sensor 3 |
| 195 | P0168 Fuel Temperature Too High |
| 196 | P0169 Incorrect Fuel Composition |
| 197 | P0170 Fuel Trim Bank 1 |
| 198 | P0171 System Too Lean Bank 1 |
| 199 | P0172 System Too Rich Bank 1 |
| 200 | P0173 Fuel Trim Bank 2 |
| 201 | P0174 System Too Lean Bank 2 |
| 202 | P0175 System Too Rich Bank 2 |
| 203 | P0176 Fuel Composition Sensor Circuit |
| 204 | P0177 Fuel Composition Sensor Circuit Range/Performance |
| 205 | P0178 Fuel Composition Sensor Circuit Low |
| 206 | P0179 Fuel Composition Sensor Circuit High |
| 207 | P0180 Fuel Temperature Sensor A Circuit |
| 208 | P0181 Fuel Temperature Sensor A Circuit Range/Performance |
| 209 | P0182 Fuel Temperature Sensor A Circuit Low |
| 210 | P0183 Fuel Temperature Sensor A Circuit High |
| 211 | P0184 Fuel Temperature Sensor A Circuit Intermittent |
| 212 | P0185 Fuel Temperature Sensor B Circuit |
| 213 | P0186 Fuel Temperature Sensor B Circuit Range/Performance |
| 214 | P0187 Fuel Temperature Sensor B Circuit Low |
| 215 | P0188 Fuel Temperature Sensor B Circuit High |
| 216 | P0189 Fuel Temperature Sensor B Circuit Intermittent |
| 217 | P018A Fuel Pressure Sensor B Circuit |
| 218 | P018B Fuel Pressure Sensor B Circuit Range/Performance |
| 219 | P018C Fuel Pressure Sensor B Circuit Low |
| 220 | P018D Fuel Pressure Sensor B Circuit High |
| 221 | P018E Fuel Pressure Sensor B Circuit Intermittent/Erratic |
| 222 | P0190 Fuel Rail Pressure Sensor A Circuit |
| 223 | P0191 Fuel Rail Pressure Sensor A Circuit Range/Performance |
| 224 | P0192 Fuel Rail Pressure Sensor A Circuit Low |
| 225 | P0193 Fuel Rail Pressure Sensor A Circuit High |
| 226 | P0194 Fuel Rail Pressure Sensor A Circuit Intermittent/Erratic |
| 227 | P0195 Engine Oil Temperature Sensor |
| 228 | P0196 Engine Oil Temperature Sensor Range/Performance |
| 229 | P0197 Engine Oil Temperature Sensor Low |
| 230 | P0198 Engine Oil Temperature Sensor High |
| 231 | P0199 Engine Oil Temperature Sensor Intermittent |
| 232 | P0200 Injector Circuit/Open |
| 233 | P0201 Injector Circuit/Open Cylinder 1 |
| 234 | P0202 Injector Circuit/Open Cylinder 2 |
| 235 | P0203 Injector Circuit/Open Cylinder 3 |
| 236 | P0204 Injector Circuit/Open Cylinder 4 |
| 237 | P0205 Injector Circuit/Open Cylinder 5 |
| 238 | P0206 Injector Circuit/Open Cylinder 6 |
| 239 | P0207 Injector Circuit/Open Cylinder 7 |
| 240 | P0208 Injector Circuit/Open Cylinder 8 |
| 241 | P0209 Injector Circuit/Open Cylinder 9 |
| 242 | P020A Cylinder 1 Injection Timing |
| 243 | P020B Cylinder 2 Injection Timing |
| 244 | P020C Cylinder 3 Injection Timing |
| 245 | P020D Cylinder 4 Injection Timing |
| 246 | P020E Cylinder 5 Injection Timing |
| 247 | P020F Cylinder 6 Injection Timing |
| 248 | P0210 Injector Circuit/Open Cylinder 10 |
| 249 | P0211 Injector Circuit/Open Cylinder 11 |
| 250 | P0212 Injector Circuit/Open Cylinder 12 |
| 251 | P0213 Cold Start Injector 1 |
| 252 | P0214 Cold Start Injector 2 |
| 253 | P0215 Engine Shutoff Solenoid |
| 254 | P0216 Injector/Injection Timing Control Circuit |
| 255 | P0217 Engine Coolant Over Temperature Condition |
| 256 | P0218 Transmission Fluid Over Temperature Condition |
| 257 | P0219 Engine Overspeed Condition |
| 258 | P021A Cylinder 7 Injection Timing |
| 259 | P021B Cylinder 8 Injection Timing |
| 260 | P021C Cylinder 9 Injection Timing |
| 261 | P021D Cylinder 10 Injection Timing |
| 262 | P021E Cylinder 11 Injection Timing |
| 263 | P021F Cylinder 12 Injection Timing |
| 264 | P0220 Throttle/Pedal Position Sensor/Switch B Circuit |
| 265 | P0221 Throttle/Pedal Position Sensor/Switch B Circuit Range/Performance |
| 266 | P0222 Throttle/Pedal Position Sensor/Switch B Circuit Low |
| 267 | P0223 Throttle/Pedal Position Sensor/Switch B Circuit High |
| 268 | P0224 Throttle/Pedal Position Sensor/Switch B Circuit Intermittent |
| 269 | P0225 Throttle/Pedal Position Sensor/Switch C Circuit |
| 270 | P0226 Throttle/Pedal Position Sensor/Switch C Circuit Range/Performance |
| 271 | P0227 Throttle/Pedal Position Sensor/Switch C Circuit Low |
| 272 | P0228 Throttle/Pedal Position Sensor/Switch C Circuit High |
| 273 | P0229 Throttle/Pedal Position Sensor/Switch C Circuit Intermittent |
| 274 | P022A Charge Air Cooler Bypass Control A Circuit /Open |
| 275 | P022B Charge Air Cooler Bypass Control A Circuit Low |
| 276 | P022C Charge Air Cooler Bypass Control A Circuit High |
| 277 | P022D Charge Air Cooler Bypass Control B Circuit /Open |
| 278 | P022E Charge Air Cooler Bypass Control B Circuit Low |
| 279 | P022F Charge Air Cooler Bypass Control B Circuit High |
| 280 | P0230 Fuel Pump Primary Circuit |
| 281 | P0231 Fuel Pump Secondary Circuit Low |
| 282 | P0232 Fuel Pump Secondary Circuit High |
| 283 | P0233 Fuel Pump Secondary Circuit Intermittent |
| 284 | P0234 Turbocharger/Supercharger Overboost Condition |
| 285 | P0235 Turbocharger/Supercharger Boost Sensor A Circuit |
| 286 | P0236 Turbocharger/Supercharger Boost Sensor A Circuit Range/Performance |
| 287 | P0237 Turbocharger/Supercharger Boost Sensor A Circuit Low |
| 288 | P0238 Turbocharger/Supercharger Boost Sensor A Circuit High |
| 289 | P0239 Turbocharger/Supercharger Boost Sensor B Circuit |
| 290 | P023A Charge Air Cooler Coolant Pump Control Circuit/Open |
| 291 | P023B Charge Air Cooler Coolant Pump Control Circuit Low |
| 292 | P023C Charge Air Cooler Coolant Pump Control Circuit High |
| 293 | P023D Manifold Absolute Pressure Turbocharger/Supercharger Boost Sensor A Correlation |
| 294 | P023E Manifold Absolute Pressure Turbocharger/Supercharger Boost Sensor B Correlation |
| 295 | P0240 Turbocharger/Supercharger Boost Sensor B Circuit Range/Performance |
| 296 | P0241 Turbocharger/Supercharger Boost Sensor B Circuit Low |
| 297 | P0242 Turbocharger/Supercharger Boost Sensor B Circuit High |
| 298 | P0243 Turbocharger/Supercharger Wastegate Solenoid A |
| 299 | P0244 Turbocharger/Supercharger Wastegate Solenoid A Range/Performance |
| 300 | P0245 Turbocharger/Supercharger Wastegate Solenoid A Low |
| 301 | P0246 Turbocharger/Supercharger Wastegate Solenoid A High |
| 302 | P0247 Turbocharger/Supercharger Wastegate Solenoid B |
| 303 | P0248 Turbocharger/Supercharger Wastegate Solenoid B Range/Performance |
| 304 | P0249 Turbocharger/Supercharger Wastegate Solenoid B Low |
| 305 | P024A Charge Air Cooler Bypass Control A Range/Performance |
| 306 | P024B Charge Air Cooler Bypass Control A Stuck |
| 307 | P024C Charge Air Cooler Bypass Position Sensor A Circuit |
| 308 | P024D Charge Air Cooler Bypass Position Sensor A Circuit Range/Performance |
| 309 | P024E Charge Air Cooler Bypass Position Sensor A Circuit Low |
| 310 | P024F Charge Air Cooler Bypass Position Sensor A Circuit High |
| 311 | P0250 Turbocharger/Supercharger Wastegate Solenoid B High |
| 312 | P0251 Injection Pump Fuel Metering Control A (Cam/Rotor/Injector) |
| 313 | P0252 Injection Pump Fuel Metering Control A Range/Performance (Cam/Rotor/Injector) |
| 314 | P0253 Injection Pump Fuel Metering Control A Low (Cam/Rotor/Injector) |
| 315 | P0254 Injection Pump Fuel Metering Control A High (Cam/Rotor/Injector) |
| 316 | P0255 Injection Pump Fuel Metering Control A Intermittent (Cam/Rotor/Injector) |
| 317 | P0256 Injection Pump Fuel Metering Control B (Cam/Rotor/Injector) |
| 318 | P0257 Injection Pump Fuel Metering Control B Range/Performance (Cam/Rotor/Injector) |
| 319 | P0258 Injection Pump Fuel Metering Control B Low (Cam/Rotor/Injector) |
| 320 | P0259 Injection Pump Fuel Metering Control B High (Cam/Rotor/Injector) |
| 321 | P025A Fuel Pump Module Control Circuit/Open |
| 322 | P025B Fuel Pump Module Control Circuit Range/Performance |
| 323 | P025C Fuel Pump Module Control Circuit Low |
| 324 | P025D Fuel Pump Module Control Circuit High |
| 325 | P0260 Injection Pump Fuel Metering Control B Intermittent (Cam/Rotor/Injector) |
| 326 | P0261 Cylinder 1 Injector Circuit Low |
| 327 | P0262 Cylinder 1 Injector Circuit High |
| 328 | P0263 Cylinder 1 Contribution/Balance |
| 329 | P0264 Cylinder 2 Injector Circuit Low |
| 330 | P0265 Cylinder 2 Injector Circuit High |
| 331 | P0266 Cylinder 2 Contribution/Balance |
| 332 | P0267 Cylinder 3 Injector Circuit Low |
| 333 | P0268 Cylinder 3 Injector Circuit High |
| 334 | P0269 Cylinder 3 Contribution/Balance |
| 335 | P0270 Cylinder 4 Injector Circuit Low |
| 336 | P0271 Cylinder 4 Injector Circuit High |
| 337 | P0272 Cylinder 4 Contribution/Balance |
| 338 | P0273 Cylinder 5 Injector Circuit Low |
| 339 | P0274 Cylinder 5 Injector Circuit High |
| 340 | P0275 Cylinder 5 Contribution/Balance |
| 341 | P0276 Cylinder 6 Injector Circuit Low |
| 342 | P0277 Cylinder 6 Injector Circuit High |
| 343 | P0278 Cylinder 6 Contribution/Balance |
| 344 | P0279 Cylinder 7 Injector Circuit Low |
| 345 | P0280 Cylinder 7 Injector Circuit High |
| 346 | P0281 Cylinder 7 Contribution/Balance |
| 347 | P0282 Cylinder 8 Injector Circuit Low |
| 348 | P0283 Cylinder 8 Injector Circuit High |
| 349 | P0284 Cylinder 8 Contribution/Balance |
| 350 | P0285 Cylinder 9 Injector Circuit Low |
| 351 | P0286 Cylinder 9 Injector Circuit High |
| 352 | P0287 Cylinder 9 Contribution/Balance |
| 353 | P0288 Cylinder 10 Injector Circuit Low |
| 354 | P0289 Cylinder 10 Injector Circuit High |
| 355 | P0290 Cylinder 10 Contribution/Balance |
| 356 | P0291 Cylinder 11 Injector Circuit Low |
| 357 | P0292 Cylinder 11 Injector Circuit High |
| 358 | P0293 Cylinder 11 Contribution/Balance |
| 359 | P0294 Cylinder 12 Injector Circuit Low |
| 360 | P0295 Cylinder 12 Injector Circuit High |
| 361 | P0296 Cylinder 12 Contribution/Balance |
| 362 | P0297 Vehicle Overspeed Condition |
| 363 | P0298 Engine Oil Over Temperature |
| 364 | P0299 Turbocharger/Supercharger Underboost |
| 365 | P0300 Random/Multiple Cylinder Misfire Detected |
| 366 | P0301 Cylinder 1 Misfire Detected |
| 367 | P0302 Cylinder 2 Misfire Detected |
| 368 | P0303 Cylinder 3 Misfire Detected |
| 369 | P0304 Cylinder 4 Misfire Detected |
| 370 | P0305 Cylinder 5 Misfire Detected |
| 371 | P0306 Cylinder 6 Misfire Detected |
| 372 | P0307 Cylinder 7 Misfire Detected |
| 373 | P0308 Cylinder 8 Misfire Detected |
| 374 | P0309 Cylinder 9 Misfire Detected |
| 375 | P0310 Cylinder 10 Misfire Detected |
| 376 | P0311 Cylinder 11 Misfire Detected |
| 377 | P0312 Cylinder 12 Misfire Detected |
| 378 | P0313 Misfire Detected With Low Fuel |
| 379 | P0314 Single Cylinder Misfire (Cylinder not Specified) |
| 380 | P0315 Crankshaft Position System Variation Not Learned |
| 381 | P0316 Engine Misfire Detected on Startup (First 1000 Revolutions) |
| 382 | P0317 Rough Road Hardware Not Present |
| 383 | P0318 Rough Road Sensor A Signal Circuit |
| 384 | P0319 Rough Road Sensor B Signal Circuit |
| 385 | P0320 Ignition/Distributor Engine Speed Input Circuit |
| 386 | P0321 Ignition/Distributor Engine Speed Input Circuit Range/Performance |
| 387 | P0322 Ignition/Distributor Engine Speed Input Circuit No Signal |
| 388 | P0323 Ignition/Distributor Engine Speed Input Circuit Intermittent |
| 389 | P0324 Knock Control System Error |
| 390 | P0325 Knock Sensor 1 Circuit Bank 1 or Single Sensor |
| 391 | P0326 Knock Sensor 1 Circuit Range/Performance Bank 1 or Single Sensor |
| 392 | P0327 Knock Sensor 1 Circuit Low Bank 1 or Single Sensor |
| 393 | P0328 Knock Sensor 1 Circuit High Bank 1 or Single Sensor |
| 394 | P0329 Knock Sensor 1 Circuit Intermittent Bank 1 or Single Sensor |
| 395 | P0330 Knock Sensor 2 Circuit Bank 2 |
| 396 | P0331 Knock Sensor 2 Circuit Range/Performance Bank 2 |
| 397 | P0332 Knock Sensor 2 Circuit Low Bank 2 |
| 398 | P0333 Knock Sensor 2 Circuit High Bank 2 |
| 399 | P0334 Knock Sensor 2 Circuit Intermittent Bank 2 |
| 400 | P0335 Crankshaft Position Sensor A Circuit |
| 401 | P0336 Crankshaft Position Sensor A Circuit Range/Performance |
| 402 | P0337 Crankshaft Position Sensor A Circuit Low |
| 403 | P0338 Crankshaft Position Sensor A Circuit High |
| 404 | P0339 Crankshaft Position Sensor A Circuit Intermittent |
| 405 | P0340 Camshaft Position Sensor A Circuit Bank 1 or Single Sensor |
| 406 | P0341 Camshaft Position Sensor A Circuit Range/Performance Bank 1 or Single Sensor |
| 407 | P0342 Camshaft Position Sensor A Circuit Low Bank 1 or Single Sensor |
| 408 | P0343 Camshaft Position Sensor A Circuit High Bank 1 or Single Sensor |
| 409 | P0344 Camshaft Position Sensor A Circuit Intermittent Bank 1 or Single Sensor |
| 410 | P0345 Camshaft Position Sensor A Circuit Bank 2 |
| 411 | P0346 Camshaft Position Sensor A Circuit Range/Performance Bank 2 |
| 412 | P0347 Camshaft Position Sensor A Circuit Low Bank 2 |
| 413 | P0348 Camshaft Position Sensor A Circuit High Bank 2 |
| 414 | P0349 Camshaft Position Sensor A Circuit Intermittent Bank 2 |
| 415 | P0350 Ignition Coil Primary/Secondary Circuit |
| 416 | P0351 Ignition Coil A Primary/Secondary Circuit |
| 417 | P0352 Ignition Coil B Primary/Secondary Circuit |
| 418 | P0353 Ignition Coil C Primary/Secondary Circuit |
| 419 | P0354 Ignition Coil D Primary/Secondary Circuit |
| 420 | P0355 Ignition Coil E Primary/Secondary Circuit |
| 421 | P0356 Ignition Coil F Primary/Secondary Circuit |
| 422 | P0357 Ignition Coil G Primary/Secondary Circuit |
| 423 | P0358 Ignition Coil H Primary/Secondary Circuit |
| 424 | P0359 Ignition Coil I Primary/Secondary Circuit |
| 425 | P0360 Ignition Coil J Primary/Secondary Circuit |
| 426 | P0361 Ignition Coil K Primary/Secondary Circuit |
| 427 | P0362 Ignition Coil L Primary/Secondary Circuit |
| 428 | P0363 Misfire Detected Fueling Disabled |
| 429 | P0365 Camshaft Position Sensor B Circuit Bank 1 |
| 430 | P0366 Camshaft Position Sensor B Circuit Range/Performance Bank 1 |
| 431 | P0367 Camshaft Position Sensor B Circuit Low Bank 1 |
| 432 | P0368 Camshaft Position Sensor B Circuit High Bank 1 |
| 433 | P0369 Camshaft Position Sensor B Circuit Intermittent Bank 1 |
| 434 | P0370 Timing Reference High Resolution Signal A |
| 435 | P0371 Timing Reference High Resolution Signal A Too Many Pulses |
| 436 | P0372 Timing Reference High Resolution Signal A Too Few Pulses |
| 437 | P0373 Timing Reference High Resolution Signal A Intermittent/Erratic Pulses |
| 438 | P0374 Timing Reference High Resolution Signal A No Pulse |
| 439 | P0375 Timing Reference High Resolution Signal B |
| 440 | P0376 Timing Reference High Resolution Signal B Too Many Pulses |
| 441 | P0377 Timing Reference High Resolution Signal B Too Few Pulses |
| 442 | P0378 Timing Reference High Resolution Signal B Intermittent/Erratic Pulses |
| 443 | P0379 Timing Reference High Resolution Signal B No Pulses |
| 444 | P0380 Glow Plug/Heater Circuit A |
| 445 | P0381 Glow Plug/Heater Indicator Circuit |
| 446 | P0382 Glow Plug/Heater Circuit B |
| 447 | P0383 Glow Plug Control Module Control Circuit Low |
| 448 | P0384 Glow Plug Control Module Control Circuit High |
| 449 | P0385 Crankshaft Position Sensor B Circuit |
| 450 | P0386 Crankshaft Position Sensor B Circuit Range/Performance |
| 451 | P0387 Crankshaft Position Sensor B Circuit Low |
| 452 | P0388 Crankshaft Position Sensor B Circuit High |
| 453 | P0389 Crankshaft Position Sensor B Circuit Intermittent |
| 454 | P0390 Camshaft Position Sensor B Circuit Bank 2 |
| 455 | P0391 Camshaft Position Sensor B Circuit Range/Performance Bank 2 |
| 456 | P0392 Camshaft Position Sensor B Circuit Low Bank 2 |
| 457 | P0393 Camshaft Position Sensor B Circuit High Bank 2 |
| 458 | P0394 Camshaft Position Sensor B Circuit Intermittent Bank 2 |
| 459 | P0400 Exhaust Gas Recirculation Flow |
| 460 | P0401 Exhaust Gas Recirculation Flow Insufficient Detected |
| 461 | P0402 Exhaust Gas Recirculation Flow Excessive Detected |
| 462 | P0403 Exhaust Gas Recirculation Control Circuit |
| 463 | P0404 Exhaust Gas Recirculation Control Circuit Range/Performance |
| 464 | P0405 Exhaust Gas Recirculation Sensor A Circuit Low |
| 465 | P0406 Exhaust Gas Recirculation Sensor A Circuit High |
| 466 | P0407 Exhaust Gas Recirculation Sensor B Circuit Low |
| 467 | P0408 Exhaust Gas Recirculation Sensor B Circuit High |
| 468 | P0409 Exhaust Gas Recirculation Sensor A Circuit |
| 469 | P040A Exhaust Gas Recirculation Temperature Sensor A Circuit |
| 470 | P040B Exhaust Gas Recirculation Temperature Sensor A Circuit Range/Performance |
| 471 | P040C Exhaust Gas Recirculation Temperature Sensor A Circuit Low |
| 472 | P040D Exhaust Gas Recirculation Temperature Sensor A Circuit High |
| 473 | P040E Exhaust Gas Recirculation Temperature Sensor A Circuit Intermittent/Erratic |
| 474 | P040F Exhaust Gas Recirculation Temperature Sensor A/B Correlation |
| 475 | P0410 Secondary Air Injection System |
| 476 | P0411 Secondary Air Injection System Incorrect Flow Detected |
| 477 | P0412 Secondary Air Injection System Switching Valve A Circuit |
| 478 | P0413 Secondary Air Injection System Switching Valve A Circuit Open |
| 479 | P0414 Secondary Air Injection System Switching Valve A Circuit Shorted |
| 480 | P0415 Secondary Air Injection System Switching Valve B Circuit |
| 481 | P0416 Secondary Air Injection System Switching Valve B Circuit Open |
| 482 | P0417 Secondary Air Injection System Switching Valve B Circuit Shorted |
| 483 | P0418 Secondary Air Injection System Control A Circuit |
| 484 | P0419 Secondary Air Injection System Control B Circuit |
| 485 | P041A Exhaust Gas Recirculation Temperature Sensor B Circuit |
| 486 | P041B Exhaust Gas Recirculation Temperature Sensor B Circuit Range/Performance |
| 487 | P041C Exhaust Gas Recirculation Temperature Sensor B Circuit Low |
| 488 | P041D Exhaust Gas Recirculation Temperature Sensor B Circuit High |
| 489 | P041E Exhaust Gas Recirculation Temperature Sensor B Circuit Intermittent/Erratic |
| 490 | P0420 Catalyst System Efficiency Below Threshold Bank 1 |
| 491 | P0421 Warm Up Catalyst Efficiency Below Threshold Bank 1 |
| 492 | P0422 Main Catalyst Efficiency Below Threshold Bank 1 |
| 493 | P0423 Heated Catalyst Efficiency Below Threshold Bank 1 |
| 494 | P0424 Heated Catalyst Temperature Below Threshold Bank 1 |
| 495 | P0425 Catalyst Temperature Sensor Circuit Bank 1 Sensor 1 |
| 496 | P0426 Catalyst Temperature Sensor Circuit Range/Performance Bank 1 Sensor 1 |
| 497 | P0427 Catalyst Temperature Sensor Circuit Low Bank 1 Sensor 1 |
| 498 | P0428 Catalyst Temperature Sensor Circuit High Bank 1 Sensor 1 |
| 499 | P0429 Catalyst Heater Control Circuit Bank 1 |
| 500 | P042A Catalyst Temperature Sensor Circuit Bank 1 Sensor 2 |
| 501 | P042B Catalyst Temperature Sensor Circuit Range/Performance Bank 1 Sensor 2 |
| 502 | P042C Catalyst Temperature Sensor Circuit Low Bank 1 Sensor 2 |
| 503 | P042D Catalyst Temperature Sensor Circuit High Bank 1 Sensor 2 |
| 504 | P0430 Catalyst System Efficiency Below Threshold Bank 2 |
| 505 | P0431 Warm Up Catalyst Efficiency Below Threshold Bank 2 |
| 506 | P0432 Main Catalyst Efficiency Below Threshold Bank 2 |
| 507 | P0433 Heated Catalyst Efficiency Below Threshold Bank 2 |
| 508 | P0434 Heated Catalyst Temperature Below Threshold Bank 2 |
| 509 | P0435 Catalyst Temperature Sensor Circuit Bank 2 Sensor 1 |
| 510 | P0436 Catalyst Temperature Sensor Circuit Range/Performance Bank 2 Sensor 1 |
| 511 | P0437 Catalyst Temperature Sensor Circuit Low Bank 2 Sensor 1 |
| 512 | P0438 Catalyst Temperature Sensor Circuit High Bank 2 Sensor 1 |
| 513 | P0439 Catalyst Heater Control Circuit Bank 2 |
| 514 | P043A Catalyst Temperature Sensor Circuit Bank 2 Sensor 2 |
| 515 | P043B Catalyst Temperature Sensor Circuit Range/Performance Bank 2 Sensor 2 |
| 516 | P043C Catalyst Temperature Sensor Circuit Low Bank 2 Sensor 2 |
| 517 | P043D Catalyst Temperature Sensor Circuit High Bank 2 Sensor 2 |
| 518 | P043E Evaporative Emission System Leak Detection Reference Orifice Low Flow |
| 519 | P043F Evaporative Emission System Leak Detection Reference Orifice High Flow |
| 520 | P0440 Evaporative Emission System |
| 521 | P0441 Evaporative Emission System Incorrect Purge Flow |
| 522 | P0442 Evaporative Emission System Leak Detected (small leak) |
| 523 | P0443 Evaporative Emission System Purge Control Valve Circuit |
| 524 | P0444 Evaporative Emission System Purge Control Valve Circuit Open |
| 525 | P0445 Evaporative Emission System Purge Control Valve Circuit Shorted |
| 526 | P0446 Evaporative Emission System Vent Control Circuit |
| 527 | P0447 Evaporative Emission System Vent Control Circuit Open |
| 528 | P0448 Evaporative Emission System Vent Control Circuit Shorted |
| 529 | P0449 Evaporative Emission System Vent Valve/Solenoid Circuit |
| 530 | P0450 Evaporative Emission System Pressure Sensor/Switch |
| 531 | P0451 Evaporative Emission System Pressure Sensor/Switch Range/Performance |
| 532 | P0452 Evaporative Emission System Pressure Sensor/Switch Low |
| 533 | P0453 Evaporative Emission System Pressure Sensor/Switch High |
| 534 | P0454 Evaporative Emission System Pressure Sensor/Switch Intermittent |
| 535 | P0455 Evaporative Emission System Leak Detected (large leak) |
| 536 | P0456 Evaporative Emission System Leak Detected (very small leak) |
| 537 | P0457 Evaporative Emission System Leak Detected (fuel cap loose/off) |
| 538 | P0458 Evaporative Emission System Purge Control Valve Circuit Low |
| 539 | P0459 Evaporative Emission System Purge Control Valve Circuit High |
| 540 | P0460 Fuel Level Sensor A Circuit |
| 541 | P0461 Fuel Level Sensor A Circuit Range/Performance |
| 542 | P0462 Fuel Level Sensor A Circuit Low |
| 543 | P0463 Fuel Level Sensor A Circuit High |
| 544 | P0464 Fuel Level Sensor A Circuit Intermittent |
| 545 | P0465 EVAP Purge Flow Sensor Circuit |
| 546 | P0466 EVAP Purge Flow Sensor Circuit Range/Performance |
| 547 | P0467 EVAP Purge Flow Sensor Circuit Low |
| 548 | P0468 EVAP Purge Flow Sensor Circuit High |
| 549 | P0469 EVAP Purge Flow Sensor Circuit Intermittent |
| 550 | P0470 Exhaust Pressure Sensor A Circuit |
| 551 | P0471 Exhaust Pressure Sensor A Circuit Range/Performance |
| 552 | P0472 Exhaust Pressure Sensor A Circuit Low |
| 553 | P0473 Exhaust Pressure Sensor A Circuit High |
| 554 | P0474 Exhaust Pressure Sensor A Circuit Intermittent/Erratic |
| 555 | P0475 Exhaust Pressure Control Valve |
| 556 | P0476 Exhaust Pressure Control Valve Range/Performance |
| 557 | P0477 Exhaust Pressure Control Valve Low |
| 558 | P0478 Exhaust Pressure Control Valve High |
| 559 | P0479 Exhaust Pressure Control Valve Intermittent |
| 560 | P047A Exhaust Pressure Sensor B Circuit |
| 561 | P047B Exhaust Pressure Sensor B Circuit Range/Performance |
| 562 | P047C Exhaust Pressure Sensor B Circuit Low |
| 563 | P047D Exhaust Pressure Sensor B Circuit High |
| 564 | P047E Exhaust Pressure Sensor B Circuit Intermittent/Erratic |
| 565 | P0480 Fan 1 Control Circuit |
| 566 | P0481 Fan 2 Control Circuit |
| 567 | P0482 Fan 3 Control Circuit |
| 568 | P0483 Fan Rationality Check |
| 569 | P0484 Fan Circuit Over Current |
| 570 | P0485 Fan Power/Ground Circuit |
| 571 | P0486 Exhaust Gas Recirculation Sensor B Circuit |
| 572 | P0487 Exhaust Gas Recirculation Throttle Control Circuit A /Open |
| 573 | P0488 Exhaust Gas Recirculation Throttle Control Circuit A Range/Performance |
| 574 | P0489 Exhaust Gas Recirculation Control Circuit A Low |
| 575 | P0490 Exhaust Gas Recirculation Control Circuit A High |
| 576 | P0491 Secondary Air Injection System Insufficient Flow Bank 1 |
| 577 | P0492 Secondary Air Injection System Insufficient Flow Bank 2 |
| 578 | P0493 Fan Overspeed |
| 579 | P0494 Fan Speed Low |
| 580 | P0495 Fan Speed High |
| 581 | P0496 Evaporative Emission System High Purge Flow |
| 582 | P0497 Evaporative Emission System Low Purge Flow |
| 583 | P0498 Evaporative Emission System Vent Valve Control Circuit Low |
| 584 | P0499 Evaporative Emission System Vent Valve Control Circuit High |
| 585 | P0500 Vehicle Speed Sensor A |
| 586 | P0501 Vehicle Speed Sensor A Range/Performance |
| 587 | P0502 Vehicle Speed Sensor A Circuit Low |
| 588 | P0503 Vehicle Speed Sensor A Intermittent/Erratic/High |
| 589 | P0504 Brake Switch A/B Correlation |
| 590 | P0505 Idle Air Control System |
| 591 | P0506 Idle Air Control System RPM Lower Than Expected |
| 592 | P0507 Idle Air Control System RPM Higher Than Expected |
| 593 | P0508 Idle Air Control System Circuit Low |
| 594 | P0509 Idle Air Control System Circuit High |
| 595 | P050A Cold Start Idle Air Control System Performance |
| 596 | P050B Cold Start Ignition Timing Performance |
| 597 | P050C Cold Start Engine Coolant Temperature Performance |
| 598 | P050D Cold Start Rough Idle |
| 599 | P0510 Closed Throttle Position Switch |
| 600 | P0511 Idle Air Control Circuit |
| 601 | P0512 Starter Request Circuit |
| 602 | P0513 Incorrect Immobilizer Key |
| 603 | P0514 Battery Temperature Sensor Circuit Range/Performance |
| 604 | P0515 Battery Temperature Sensor Circuit |
| 605 | P0516 Battery Temperature Sensor Circuit Low |
| 606 | P0517 Battery Temperature Sensor Circuit High |
| 607 | P0518 Idle Air Control Circuit Intermittent |
| 608 | P0519 Idle Air Control System Performance |
| 609 | P0520 Engine Oil Pressure Sensor/Switch Circuit |
| 610 | P0521 Engine Oil Pressure Sensor/Switch Range/Performance |
| 611 | P0522 Engine Oil Pressure Sensor/Switch Low |
| 612 | P0523 Engine Oil Pressure Sensor/Switch High |
| 613 | P0524 Engine Oil Pressure Too Low |
| 614 | P0525 Cruise Control Servo Control Circuit Range/Performance |
| 615 | P0526 Fan Speed Sensor Circuit |
| 616 | P0527 Fan Speed Sensor Circuit Range/Performance |
| 617 | P0528 Fan Speed Sensor Circuit No Signal |
| 618 | P0529 Fan Speed Sensor Circuit Intermittent |
| 619 | P0530 A/C Refrigerant Pressure Sensor A Circuit |
| 620 | P0531 A/C Refrigerant Pressure Sensor A Circuit Range/Performance |
| 621 | P0532 A/C Refrigerant Pressure Sensor A Circuit Low |
| 622 | P0533 A/C Refrigerant Pressure Sensor A Circuit High |
| 623 | P0534 A/C Refrigerant Charge Loss |
| 624 | P0535 A/C Evaporator Temperature Sensor Circuit |
| 625 | P0536 A/C Evaporator Temperature Sensor Circuit Range/Performance |
| 626 | P0537 A/C Evaporator Temperature Sensor Circuit Low |
| 627 | P0538 A/C Evaporator Temperature Sensor Circuit High |
| 628 | P0539 A/C Evaporator Temperature Sensor Circuit Intermittent |
| 629 | P053A Positive Crankcase Ventilation Heater Control Circuit /Open |
| 630 | P053B Positive Crankcase Ventilation Heater Control Circuit Low |
| 631 | P053C Positive Crankcase Ventilation Heater Control Circuit High |
| 632 | P0540 Intake Air Heater A Circuit |
| 633 | P0541 Intake Air Heater A Circuit Low |
| 634 | P0542 Intake Air Heater A Circuit High |
| 635 | P0543 Intake Air Heater A Circuit Open |
| 636 | P0544 Exhaust Gas Temperature Sensor Circuit Bank 1 Sensor 1 |
| 637 | P0545 Exhaust Gas Temperature Sensor Circuit Low Bank 1 Sensor 1 |
| 638 | P0546 Exhaust Gas Temperature Sensor Circuit High Bank 1 Sensor 1 |
| 639 | P0547 Exhaust Gas Temperature Sensor Circuit Bank 2 Sensor 1 |
| 640 | P0548 Exhaust Gas Temperature Sensor Circuit Low Bank 2 Sensor 1 |
| 641 | P0549 Exhaust Gas Temperature Sensor Circuit High Bank 2 Sensor 1 |
| 642 | P0550 Power Steering Pressure Sensor/Switch Circuit |
| 643 | P0551 Power Steering Pressure Sensor/Switch Circuit Range/Performance |
| 644 | P0552 Power Steering Pressure Sensor/Switch Circuit Low |
| 645 | P0553 Power Steering Pressure Sensor/Switch Circuit High |
| 646 | P0554 Power Steering Pressure Sensor/Switch Circuit Intermittent |
| 647 | P0555 Brake Booster Pressure Sensor Circuit |
| 648 | P0556 Brake Booster Pressure Sensor Circuit Range/Performance |
| 649 | P0557 Brake Booster Pressure Sensor Circuit Low |
| 650 | P0558 Brake Booster Pressure Sensor Circuit High |
| 651 | P0559 Brake Booster Pressure Sensor Circuit Intermittent |
| 652 | P0560 System Voltage |
| 653 | P0561 System Voltage Unstable |
| 654 | P0562 System Voltage Low |
| 655 | P0563 System Voltage High |
| 656 | P0564 Cruise Control Multi-Function Input A Circuit |
| 657 | P0565 Cruise Control On Signal |
| 658 | P0566 Cruise Control Off Signal |
| 659 | P0567 Cruise Control Resume Signal |
| 660 | P0568 Cruise Control Set Signal |
| 661 | P0569 Cruise Control Coast Signal |
| 662 | P056A Cruise Control Increase Distance Signal |
| 663 | P056B Cruise Control Decrease Distance Signal |
| 664 | P0570 Cruise Control Accelerate Signal |
| 665 | P0571 Brake Switch A Circuit |
| 666 | P0572 Brake Switch A Circuit Low |
| 667 | P0573 Brake Switch A Circuit High |
| 668 | P0574 Cruise Control System Vehicle Speed Too High |
| 669 | P0575 Cruise Control Input Circuit |
| 670 | P0576 Cruise Control Input Circuit Low |
| 671 | P0577 Cruise Control Input Circuit High |
| 672 | P0578 Cruise Control Multi-Function Input A Circuit Stuck |
| 673 | P0579 Cruise Control Multi-Function Input A Circuit Range/Performance |
| 674 | P0580 Cruise Control Multi-Function Input A Circuit Low |
| 675 | P0581 Cruise Control Multi-Function Input A Circuit High |
| 676 | P0582 Cruise Control Vacuum Control Circuit/Open |
| 677 | P0583 Cruise Control Vacuum Control Circuit Low |
| 678 | P0584 Cruise Control Vacuum Control Circuit High |
| 679 | P0585 Cruise Control Multi-Function Input A/B Correlation |
| 680 | P0586 Cruise Control Vent Control Circuit/Open |
| 681 | P0587 Cruise Control Vent Control Circuit Low |
| 682 | P0588 Cruise Control Vent Control Circuit High |
| 683 | P0589 Cruise Control Multi-Function Input B Circuit |
| 684 | P0590 Cruise Control Multi-Function Input B Circuit Stuck |
| 685 | P0591 Cruise Control Multi-Function Input B Circuit Range/Performance |
| 686 | P0592 Cruise Control Multi-Function Input B Circuit Low |
| 687 | P0593 Cruise Control Multi-Function Input B Circuit High |
| 688 | P0594 Cruise Control Servo Control Circuit/Open |
| 689 | P0595 Cruise Control Servo Control Circuit Low |
| 690 | P0596 Cruise Control Servo Control Circuit High |
| 691 | P0597 Thermostat Heater Control Circuit/Open |
| 692 | P0598 Thermostat Heater Control Circuit Low |
| 693 | P0599 Thermostat Heater Control Circuit High |
| 694 | P0600 Serial Communication Link |
| 695 | P0601 Internal Control Module Memory Check Sum Error |
| 696 | P0602 Control Module Programming Error |
| 697 | P0603 Internal Control Module Keep Alive Memory (KAM) Error |
| 698 | P0604 Internal Control Module Random Access Memory (RAM) Error |
| 699 | P0605 Internal Control Module Read Only Memory (ROM) Error |
| 700 | P0606 ECM/PCM Processor |
| 701 | P0607 Control Module Performance |
| 702 | P0608 Control Module VSS Output A |
| 703 | P0609 Control Module VSS Output B |
| 704 | P060A Internal Control Module Monitoring Processor Performance |
| 705 | P060B Internal Control Module A/D Processing Performance |
| 706 | P060C Internal Control Module Main Processor Performance |
| 707 | P060D Internal Control Module Accelerator Pedal Position Performance |
| 708 | P060E Internal Control Module Throttle Position Performance |
| 709 | P060F Internal Control Module Coolant Temperature Performance |
| 710 | P0610 Control Module Vehicle Options Error |
| 711 | P0611 Fuel Injector Control Module Performance |
| 712 | P0612 Fuel Injector Control Module Relay Control |
| 713 | P0613 TCM Processor |
| 714 | P0614 ECM / TCM Incompatible |
| 715 | P0615 Starter Relay Circuit |
| 716 | P0616 Starter Relay Circuit Low |
| 717 | P0617 Starter Relay Circuit High |
| 718 | P0618 Alternative Fuel Control Module KAM Error |
| 719 | P0619 Alternative Fuel Control Module RAM/ROM Error |
| 720 | P061A Internal Control Module Torque Performance |
| 721 | P061B Internal Control Module Torque Calculation Performance |
| 722 | P061C Internal Control Module Engine RPM Performance |
| 723 | P061D Internal Control Module Engine Air Mass Performance |
| 724 | P061E Internal Control Module Brake Signal Performance |
| 725 | P061F Internal Control Module Throttle Actuator Controller Performance |
| 726 | P0620 Generator Control Circuit |
| 727 | P0621 Generator Lamp/L Terminal Circuit |
| 728 | P0622 Generator Field/F Terminal Circuit |
| 729 | P0623 Generator Lamp Control Circuit |
| 730 | P0624 Fuel Cap Lamp Control Circuit |
| 731 | P0625 Generator Field/F Terminal Circuit Low |
| 732 | P0626 Generator Field/F Terminal Circuit High |
| 733 | P0627 Fuel Pump A Control Circuit/Open |
| 734 | P0628 Fuel Pump A Control Circuit Low |
| 735 | P0629 Fuel Pump A Control Circuit High |
| 736 | P062A Fuel Pump A Control Circuit Range/Performance |
| 737 | P062B Internal Control Module Fuel Injector Control Performance |
| 738 | P062C Internal Control Module Vehicle Speed Performance |
| 739 | P062D Fuel Injector Driver Circuit Performance Bank 1 |
| 740 | P062E Fuel Injector Driver Circuit Performance Bank 2 |
| 741 | P062F Internal Control Module EEPROM Error |
| 742 | P0630 VIN Not Programmed or Incompatible ECM/PCM |
| 743 | P0631 VIN Not Programmed or Incompatible TCM |
| 744 | P0632 Odometer Not Programmed ECM/PCM |
| 745 | P0633 Immobilizer Key Not Programmed ECM/PCM |
| 746 | P0634 PCM/ECM/TCM Internal Temperature Too High |
| 747 | P0635 Power Steering Control Circuit |
| 748 | P0636 Power Steering Control Circuit Low |
| 749 | P0637 Power Steering Control Circuit High |
| 750 | P0638 Throttle Actuator Control Range/Performance Bank 1 |
| 751 | P0639 Throttle Actuator Control Range/Performance Bank 2 |
| 752 | P063A Generator Voltage Sense Circuit |
| 753 | P063B Generator Voltage Sense Circuit Range/Performance |
| 754 | P063C Generator Voltage Sense Circuit Low |
| 755 | P063D Generator Voltage Sense Circuit High |
| 756 | P063E Auto Configuration Throttle Input Not Present |
| 757 | P063F Auto Configuration Engine Coolant Temperature Input Not Present |
| 758 | P0640 Intake Air Heater Control Circuit |
| 759 | P0641 Sensor Reference Voltage A Circuit/Open |
| 760 | P0642 Sensor Reference Voltage A Circuit Low |
| 761 | P0643 Sensor Reference Voltage A Circuit High |
| 762 | P0644 Driver Display Serial Communication Circuit |
| 763 | P0645 A/C Clutch Relay Control Circuit |
| 764 | P0646 A/C Clutch Relay Control Circuit Low |
| 765 | P0647 A/C Clutch Relay Control Circuit High |
| 766 | P0648 Immobilizer Lamp Control Circuit |
| 767 | P0649 Speed Control Lamp Control Circuit |
| 768 | P0650 Malfunction Indicator Lamp (MIL) Control Circuit |
| 769 | P0651 Sensor Reference Voltage B Circuit/Open |
| 770 | P0652 Sensor Reference Voltage B Circuit Low |
| 771 | P0653 Sensor Reference Voltage B Circuit High |
| 772 | P0654 Engine RPM Output Circuit |
| 773 | P0655 Engine Hot Lamp Output Control Circuit |
| 774 | P0656 Fuel Level Output Circuit |
| 775 | P0657 Actuator Supply Voltage A Circuit/Open |
| 776 | P0658 Actuator Supply Voltage A Circuit Low |
| 777 | P0659 Actuator Supply Voltage A Circuit High |
| 778 | P065A Generator System Performance |
| 779 | P065B Generator Control Circuit Range/Performance |
| 780 | P0660 Intake Manifold Tuning Valve Control Circuit/Open Bank 1a |
| 781 | P0661 Intake Manifold Tuning Valve Control Circuit Low Bank 1a |
| 782 | P0662 Intake Manifold Tuning Valve Control Circuit High Bank 1a |
| 783 | P0663 Intake Manifold Tuning Valve Control Circuit/Open Bank 2a |
| 784 | P0664 Intake Manifold Tuning Valve Control Circuit Low Bank 2a |
| 785 | P0665 Intake Manifold Tuning Valve Control Circuit High Bank 2a |
| 786 | P0666 PCM/ECM/TCM Internal Temperature Sensor Circuit |
| 787 | P0667 PCM/ECM/TCM Internal Temperature Sensor Range/Performance |
| 788 | P0668 PCM/ECM/TCM Internal Temperature Sensor Circuit Low |
| 789 | P0669 PCM/ECM/TCM Internal Temperature Sensor Circuit High |
| 790 | P066A Glow Plug 1 Control Circuit Low |
| 791 | P066B Glow Plug 1 Control Circuit High |
| 792 | P066C Glow Plug 2 Control Circuit Low |
| 793 | P066D Glow Plug 2 Control Circuit High |
| 794 | P066E Glow Plug 3 Control Circuit Low |
| 795 | P066F Glow Plug 3 Control Circuit High |
| 796 | P0670 Glow Plug Control Module Control Circuit/Open |
| 797 | P0671 Cylinder 1 Glow Plug Circuit/Open |
| 798 | P0672 Cylinder 2 Glow Plug Circuit/Open |
| 799 | P0673 Cylinder 3 Glow Plug Circuit/Open |
| 800 | P0674 Cylinder 4 Glow Plug Circuit/Open |
| 801 | P0675 Cylinder 5 Glow Plug Circuit/Open |
| 802 | P0676 Cylinder 6 Glow Plug Circuit/Open |
| 803 | P0677 Cylinder 7 Glow Plug Circuit/Open |
| 804 | P0678 Cylinder 8 Glow Plug Circuit/Open |
| 805 | P0679 Cylinder 9 Glow Plug Circuit/Open |
| 806 | P067A Glow Plug 4 Control Circuit Low |
| 807 | P067B Glow Plug 4 Control Circuit High |
| 808 | P067C Glow Plug 5 Control Circuit Low |
| 809 | P067D Glow Plug 5 Control Circuit High |
| 810 | P067E Glow Plug 6 Control Circuit Low |
| 811 | P067F Glow Plug 6 Control Circuit High |
| 812 | P0680 Cylinder 10 Glow Plug Circuit/Open |
| 813 | P0681 Cylinder 11 Glow Plug Circuit/Open |
| 814 | P0682 Cylinder 12 Glow Plug Circuit/Open |
| 815 | P0683 Glow Plug Control Module to PCM Communication Circuit |
| 816 | P0684 Glow Plug Control Module to PCM Communication Circuit Range/Performance |
| 817 | P0685 ECM/PCM Power Relay Control Circuit/Open |
| 818 | P0686 ECM/PCM Power Relay Control Circuit Low |
| 819 | P0687 ECM/PCM Power Relay Control Circuit High |
| 820 | P0688 ECM/PCM Power Relay Sense Circuit/Open |
| 821 | P0689 ECM/PCM Power Relay Sense Circuit Low |
| 822 | P068A ECM/PCM Power Relay De-Energized Performance Too Early |
| 823 | P068B ECM/PCM Power Relay De-Energized Performance Too Late |
| 824 | P068C Glow Plug 7 Control Circuit Low |
| 825 | P068D Glow Plug 7 Control Circuit High |
| 826 | P068E Glow Plug 8 Control Circuit Low |
| 827 | P068F Glow Plug 8 Control Circuit High |
| 828 | P0690 ECM/PCM Power Relay Sense Circuit High |
| 829 | P0691 Fan 1 Control Circuit Low |
| 830 | P0692 Fan 1 Control Circuit High |
| 831 | P0693 Fan 2 Control Circuit Low |
| 832 | P0694 Fan 2 Control Circuit High |
| 833 | P0695 Fan 3 Control Circuit Low |
| 834 | P0696 Fan 3 Control Circuit High |
| 835 | P0697 Sensor Reference Voltage C Circuit/Open |
| 836 | P0698 Sensor Reference Voltage C Circuit Low |
| 837 | P0699 Sensor Reference Voltage C Circuit High |
| 838 | P069A Glow Plug 9 Control Circuit Low |
| 839 | P069B Glow Plug 9 Control Circuit High |
| 840 | P069C Glow Plug 10 Control Circuit Low |
| 841 | P069D Glow Plug 10 Control Circuit High |
| 842 | P0700 Transmission Control System (MIL Request) |
| 843 | P0701 Transmission Control System Range/Performance |
| 844 | P0702 Transmission Control System Electrical |
| 845 | P0703 Brake Switch B Circuit |
| 846 | P0704 Clutch Switch Input Circuit |
| 847 | P0705 Transmission Range Sensor A Circuit (PRNDL Input) |
| 848 | P0706 Transmission Range Sensor A Circuit Range/Performance |
| 849 | P0707 Transmission Range Sensor A Circuit Low |
| 850 | P0708 Transmission Range Sensor A Circuit High |
| 851 | P0709 Transmission Range Sensor A Circuit Intermittent |
| 852 | P070A Transmission Fluid Level Sensor Circuit |
| 853 | P070B Transmission Fluid Level Sensor Circuit Range/Performance |
| 854 | P070C Transmission Fluid Level Sensor Circuit Low |
| 855 | P070D Transmission Fluid Level Sensor Circuit High |
| 856 | P070E Transmission Fluid Level Sensor Circuit intermittent/Erratic |
| 857 | P070F Transmission Fluid Level Too Low |
| 858 | P0710 Transmission Fluid Temperature Sensor A Circuit |
| 859 | P0711 Transmission Fluid Temperature Sensor A Circuit Range/Performance |
| 860 | P0712 Transmission Fluid Temperature Sensor A Circuit Low |
| 861 | P0713 Transmission Fluid Temperature Sensor A Circuit High |
| 862 | P0714 Transmission Fluid Temperature Sensor A Circuit Intermittent |
| 863 | P0715 Input/Turbine Speed Sensor A Circuit |
| 864 | P0716 Input/Turbine Speed Sensor A Circuit Range/Performance |
| 865 | P0717 Input/Turbine Speed Sensor A Circuit No Signal |
| 866 | P0718 Input/Turbine Speed Sensor A Circuit Intermittent |
| 867 | P0719 Brake Switch B Circuit Low |
| 868 | P071A Transmission Mode Switch A Circuit |
| 869 | P071B Transmission Mode Switch A Circuit Low |
| 870 | P071C Transmission Mode Switch A Circuit High |
| 871 | P071D Transmission Mode Switch B Circuit |
| 872 | P071E Transmission Mode Switch B Circuit Low |
| 873 | P071F Transmission Mode Switch B Circuit High |
| 874 | P0720 Output Speed Sensor Circuit |
| 875 | P0721 Output Speed Sensor Circuit Range/Performance |
| 876 | P0722 Output Speed Sensor Circuit No Signal |
| 877 | P0723 Output Speed Sensor Circuit Intermittent |
| 878 | P0724 Brake Switch B Circuit High |
| 879 | P0725 Engine Speed Input Circuit |
| 880 | P0726 Engine Speed Input Circuit Range/Performance |
| 881 | P0727 Engine Speed Input Circuit No Signal |
| 882 | P0728 Engine Speed Input Circuit Intermittent |
| 883 | P0729 Gear 6 Incorrect Ratio |
| 884 | P0730 Incorrect Gear Ratio |
| 885 | P0731 Gear 1 Incorrect Ratio |
| 886 | P0732 Gear 2 Incorrect Ratio |
| 887 | P0733 Gear 3 Incorrect Ratio |
| 888 | P0734 Gear 4 Incorrect Ratio |
| 889 | P0735 Gear 5 Incorrect Ratio |
| 890 | P0736 Reverse Incorrect Ratio |
| 891 | P0737 TCM Engine Speed Output Circuit |
| 892 | P0738 TCM Engine Speed Output Circuit Low |
| 893 | P0739 TCM Engine Speed Output Circuit High |
| 894 | P0740 Torque Converter Clutch Circuit/Open |
| 895 | P0741 Torque Converter Clutch Circuit Performance/Stuck Off |
| 896 | P0742 Torque Converter Clutch Circuit Stuck On |
| 897 | P0743 Torque Converter Clutch Circuit Electrical |
| 898 | P0744 Torque Converter Clutch Circuit Intermittent |
| 899 | P0745 Pressure Control Solenoid A |
| 900 | P0746 Pressure Control Solenoid A Performance/Stuck Off |
| 901 | P0747 Pressure Control Solenoid A Stuck On |
| 902 | P0748 Pressure Control Solenoid A Electrical |
| 903 | P0749 Pressure Control Solenoid A Intermittent |
| 904 | P0750 Shift Solenoid A |
| 905 | P0751 Shift Solenoid A Performance/Stuck Off |
| 906 | P0752 Shift Solenoid A Stuck On |
| 907 | P0753 Shift Solenoid A Electrical |
| 908 | P0754 Shift Solenoid A Intermittent |
| 909 | P0755 Shift Solenoid B |
| 910 | P0756 Shift Solenoid B Performance/Stuck Off |
| 911 | P0757 Shift Solenoid B Stuck On |
| 912 | P0758 Shift Solenoid B Electrical |
| 913 | P0759 Shift Solenoid B Intermittent |
| 914 | P075A Shift Solenoid G |
| 915 | P075B Shift Solenoid G Performance/Stuck Off |
| 916 | P075C Shift Solenoid G Stuck On |
| 917 | P075D Shift Solenoid G Electrical |
| 918 | P075E Shift Solenoid G Intermittent |
| 919 | P0760 Shift Solenoid C |
| 920 | P0761 Shift Solenoid C Performance/Stuck Off |
| 921 | P0762 Shift Solenoid C Stuck On |
| 922 | P0763 Shift Solenoid C Electrical |
| 923 | P0764 Shift Solenoid C Intermittent |
| 924 | P0765 Shift Solenoid D |
| 925 | P0766 Shift Solenoid D Performance/Stuck Off |
| 926 | P0767 Shift Solenoid D Stuck On |
| 927 | P0768 Shift Solenoid D Electrical |
| 928 | P0769 Shift Solenoid D Intermittent |
| 929 | P076A Shift Solenoid H |
| 930 | P076B Shift Solenoid H Performance/Stuck Off |
| 931 | P076C Shift Solenoid H Stuck On |
| 932 | P076D Shift Solenoid H Electrical |
| 933 | P076E Shift Solenoid H Intermittent |
| 934 | P076F Gear 7 Incorrect Ratio |
| 935 | P0770 Shift Solenoid E |
| 936 | P0771 Shift Solenoid E Performance/Stuck Off |
| 937 | P0772 Shift Solenoid E Stuck On |
| 938 | P0773 Shift Solenoid E Electrical |
| 939 | P0774 Shift Solenoid E Intermittent |
| 940 | P0775 Pressure Control Solenoid B |
| 941 | P0776 Pressure Control Solenoid B Performance/Stuck Off |
| 942 | P0777 Pressure Control Solenoid B Stuck On |
| 943 | P0778 Pressure Control Solenoid B Electrical |
| 944 | P0779 Pressure Control Solenoid B Intermittent |
| 945 | P0780 Shift Error |
| 946 | P0781 1-2 Shift |
| 947 | P0782 2-3 Shift |
| 948 | P0783 3-4 Shift |
| 949 | P0784 4-5 Shift |
| 950 | P0785 Shift/Timing Solenoid |
| 951 | P0786 Shift/Timing Solenoid Range/Performance |
| 952 | P0787 Shift/Timing Solenoid Low |
| 953 | P0788 Shift/Timing Solenoid High |
| 954 | P0789 Shift/Timing Solenoid Intermittent |
| 955 | P0790 Normal/Performance Switch Circuit |
| 956 | P0791 Intermediate Shaft Speed Sensor A Circuit |
| 957 | P0792 Intermediate Shaft Speed Sensor A Circuit Range/Performance |
| 958 | P0793 Intermediate Shaft Speed Sensor A Circuit No Signal |
| 959 | P0794 Intermediate Shaft Speed Sensor A Circuit Intermittent |
| 960 | P0795 Pressure Control Solenoid C |
| 961 | P0796 Pressure Control Solenoid C Performance/Stuck Off |
| 962 | P0797 Pressure Control Solenoid C Stuck On |
| 963 | P0798 Pressure Control Solenoid C Electrical |
| 964 | P0799 Pressure Control Solenoid C Intermittent |
| 965 | P0800 Transfer Case Control System (MIL Request) |
| 966 | P0801 Reverse Inhibit Control Circuit |
| 967 | P0802 Transmission Control System MIL Request Circuit/Open |
| 968 | P0803 Upshift/Skip Shift Solenoid Control Circuit |
| 969 | P0804 Upshift/Skip Shift Lamp Control Circuit |
| 970 | P0805 Clutch Position Sensor Circuit |
| 971 | P0806 Clutch Position Sensor Circuit Range/Performance |
| 972 | P0807 Clutch Position Sensor Circuit Low |
| 973 | P0808 Clutch Position Sensor Circuit High |
| 974 | P0809 Clutch Position Sensor Circuit Intermittent |
| 975 | P080A Clutch Position Not Learned |
| 976 | P080B Upshift/Skip Shift Solenoid Control Circuit Range/Performance |
| 977 | P080C Upshift/Skip Shift Solenoid Control Circuit Low |
| 978 | P080D Upshift/Skip Shift Solenoid Control Circuit High |
| 979 | P0810 Clutch Position Control Error |
| 980 | P0811 Excessive Clutch A Slippage |
| 981 | P0812 Reverse Input Circuit |
| 982 | P0813 Reverse Output Circuit |
| 983 | P0814 Transmission Range Display Circuit |
| 984 | P0815 Upshift Switch Circuit |
| 985 | P0816 Downshift Switch Circuit |
| 986 | P0817 Starter Disable Circuit/Open |
| 987 | P0818 Driveline Disconnect Switch Input Circuit |
| 988 | P0819 Up and Down Shift Switch to Transmission Range Correlation |
| 989 | P081A Starter Disable Circuit Low |
| 990 | P081B Starter Disable Circuit High |
| 991 | P081C Park Input Circuit |
| 992 | P081D Neutral Input Circuit |
| 993 | P081E Excessive Clutch B Slippage |
| 994 | P0820 Gear Lever X-Y Position Sensor Circuit |
| 995 | P0821 Gear Lever X Position Circuit |
| 996 | P0822 Gear Lever Y Position Circuit |
| 997 | P0823 Gear Lever X Position Circuit Intermittent |
| 998 | P0824 Gear Lever Y Position Circuit Intermittent |
| 999 | P0825 Gear Lever Push-Pull Switch (Shift Anticipate) |
| 1000 | P0826 Up and Down Shift Switch Circuit |
| 1001 | P0827 Up and Down Shift Switch Circuit Low |
| 1002 | P0828 Up and Down Shift Switch Circuit High |
| 1003 | P0829 5-6 Shift |
| 1004 | P0830 Clutch Pedal Switch A Circuit |
| 1005 | P0831 Clutch Pedal Switch A Circuit Low |
| 1006 | P0832 Clutch Pedal Switch A Circuit High |
| 1007 | P0833 Clutch Pedal Switch B Circuit |
| 1008 | P0834 Clutch Pedal Switch B Circuit Low |
| 1009 | P0835 Clutch Pedal Switch B Circuit High |
| 1010 | P0836 Four Wheel Drive (4WD) Switch Circuit |
| 1011 | P0837 Four Wheel Drive (4WD) Switch Circuit Range/Performance |
| 1012 | P0838 Four Wheel Drive (4WD) Switch Circuit Low |
| 1013 | P0839 Four Wheel Drive (4WD) Switch Circuit High |
| 1014 | P083A Transmission Fluid Pressure Sensor/Switch G Circuit |
| 1015 | P083B Transmission Fluid Pressure Sensor/Switch G Circuit Range/Performance |
| 1016 | P083C Transmission Fluid Pressure Sensor/Switch G Circuit Low |
| 1017 | P083D Transmission Fluid Pressure Sensor/Switch G Circuit High |
| 1018 | P083E Transmission Fluid Pressure Sensor/Switch G Circuit Intermittent |
| 1019 | P083F Clutch Pedal Switch A/B Correlation |
| 1020 | P0840 Transmission Fluid Pressure Sensor/Switch A Circuit |
| 1021 | P0841 Transmission Fluid Pressure Sensor/Switch A Circuit Range/Performance |
| 1022 | P0842 Transmission Fluid Pressure Sensor/Switch A Circuit Low |
| 1023 | P0843 Transmission Fluid Pressure Sensor/Switch A Circuit High |
| 1024 | P0844 Transmission Fluid Pressure Sensor/Switch A Circuit Intermittent |
| 1025 | P0845 Transmission Fluid Pressure Sensor/Switch B Circuit |
| 1026 | P0846 Transmission Fluid Pressure Sensor/Switch B Circuit Range/Performance |
| 1027 | P0847 Transmission Fluid Pressure Sensor/Switch B Circuit Low |
| 1028 | P0848 Transmission Fluid Pressure Sensor/Switch B Circuit High |
| 1029 | P0849 Transmission Fluid Pressure Sensor/Switch B Circuit Intermittent |
| 1030 | P084A Transmission Fluid Pressure Sensor/Switch H Circuit |
| 1031 | P084B Transmission Fluid Pressure Sensor/Switch H Circuit Range/Performance |
| 1032 | P084C Transmission Fluid Pressure Sensor/Switch H Circuit Low |
| 1033 | P084D Transmission Fluid Pressure Sensor/Switch H Circuit High |
| 1034 | P084E Transmission Fluid Pressure Sensor/Switch H Circuit Intermittent |
| 1035 | P0850 Park/Neutral Switch Input Circuit |
| 1036 | P0851 Park/Neutral Switch Input Circuit Low |
| 1037 | P0852 Park/Neutral Switch Input Circuit High |
| 1038 | P0853 Drive Switch Input Circuit |
| 1039 | P0854 Drive Switch Input Circuit Low |
| 1040 | P0855 Drive Switch Input Circuit High |
| 1041 | P0856 Traction Control Input Signal |
| 1042 | P0857 Traction Control Input Signal Range/Performance |
| 1043 | P0858 Traction Control Input Signal Low |
| 1044 | P0859 Traction Control Input Signal High |
| 1045 | P085A Gear Shift Module B Communication Circuit |
| 1046 | P085B Gear Shift Module B Communication Circuit Low |
| 1047 | P085C Gear Shift Module B Communication Circuit High |
| 1048 | P0860 Gear Shift Module A Communication Circuit |
| 1049 | P0861 Gear Shift Module A Communication Circuit Low |
| 1050 | P0862 Gear Shift Module A Communication Circuit High |
| 1051 | P0863 TCM Communication Circuit |
| 1052 | P0864 TCM Communication Circuit Range/Performance |
| 1053 | P0865 TCM Communication Circuit Low |
| 1054 | P0866 TCM Communication Circuit High |
| 1055 | P0867 Transmission Fluid Pressure |
| 1056 | P0868 Transmission Fluid Pressure Low |
| 1057 | P0869 Transmission Fluid Pressure High |
| 1058 | P0870 Transmission Fluid Pressure Sensor/Switch C Circuit |
| 1059 | P0871 Transmission Fluid Pressure Sensor/Switch C Circuit Range/Performance |
| 1060 | P0872 Transmission Fluid Pressure Sensor/Switch C Circuit Low |
| 1061 | P0873 Transmission Fluid Pressure Sensor/Switch C Circuit High |
| 1062 | P0874 Transmission Fluid Pressure Sensor/Switch C Circuit Intermittent |
| 1063 | P0875 Transmission Fluid Pressure Sensor/Switch D Circuit |
| 1064 | P0876 Transmission Fluid Pressure Sensor/Switch D Circuit Range/Performance |
| 1065 | P0877 Transmission Fluid Pressure Sensor/Switch D Circuit Low |
| 1066 | P0878 Transmission Fluid Pressure Sensor/Switch D Circuit High |
| 1067 | P0879 Transmission Fluid Pressure Sensor/Switch D Circuit Intermittent |
| 1068 | P0880 TCM Power Input Signal |
| 1069 | P0881 TCM Power Input Signal Range/Performance |
| 1070 | P0882 TCM Power Input Signal Low |
| 1071 | P0883 TCM Power Input Signal High |
| 1072 | P0884 TCM Power Input Signal Intermittent |
| 1073 | P0885 TCM Power Relay Control Circuit/Open |
| 1074 | P0886 TCM Power Relay Control Circuit Low |
| 1075 | P0887 TCM Power Relay Control Circuit High |
| 1076 | P0888 TCM Power Relay Sense Circuit |
| 1077 | P0889 TCM Power Relay Sense Circuit Range/Performance |
| 1078 | P0890 TCM Power Relay Sense Circuit Low |
| 1079 | P0891 TCM Power Relay Sense Circuit High |
| 1080 | P0892 TCM Power Relay Sense Circuit Intermittent |
| 1081 | P0893 Multiple Gears Engaged |
| 1082 | P0894 Transmission Component Slipping |
| 1083 | P0895 Shift Time Too Short |
| 1084 | P0896 Shift Time Too Long |
| 1085 | P0897 Transmission Fluid Deteriorated |
| 1086 | P0898 Transmission Control System MIL Request Circuit Low |
| 1087 | P0899 Transmission Control System MIL Request Circuit High |
| 1088 | P0900 Clutch Actuator Circuit/Open |
| 1089 | P0901 Clutch Actuator Circuit Range/Performance |
| 1090 | P0902 Clutch Actuator Circuit Low |
| 1091 | P0903 Clutch Actuator Circuit High |
| 1092 | P0904 Gate Select Position Circuit |
| 1093 | P0905 Gate Select Position Circuit Range/Performance |
| 1094 | P0906 Gate Select Position Circuit Low |
| 1095 | P0907 Gate Select Position Circuit High |
| 1096 | P0908 Gate Select Position Circuit Intermittent |
| 1097 | P0909 Gate Select Control Error |
| 1098 | P0910 Gate Select Actuator Circuit/Open |
| 1099 | P0911 Gate Select Actuator Circuit Range/Performance |
| 1100 | P0912 Gate Select Actuator Circuit Low |
| 1101 | P0913 Gate Select Actuator Circuit High |
| 1102 | P0914 Gear Shift Position Circuit |
| 1103 | P0915 Gear Shift Position Circuit Range/Performance |
| 1104 | P0916 Gear Shift Position Circuit Low |
| 1105 | P0917 Gear Shift Position Circuit High |
| 1106 | P0918 Gear Shift Position Circuit Intermittent |
| 1107 | P0919 Gear Shift Position Control Error |
| 1108 | P0920 Gear Shift Forward Actuator Circuit/Open |
| 1109 | P0921 Gear Shift Forward Actuator Circuit Range/Performance |
| 1110 | P0922 Gear Shift Forward Actuator Circuit Low |
| 1111 | P0923 Gear Shift Forward Actuator Circuit High |
| 1112 | P0924 Gear Shift Reverse Actuator Circuit/Open |
| 1113 | P0925 Gear Shift Reverse Actuator Circuit Range/Performance |
| 1114 | P0926 Gear Shift Reverse Actuator Circuit Low |
| 1115 | P0927 Gear Shift Reverse Actuator Circuit High |
| 1116 | P0928 Gear Shift Lock Solenoid Control Circuit/Open |
| 1117 | P0929 Gear Shift Lock Solenoid Control Circuit Range/Performance |
| 1118 | P0930 Gear Shift Lock Solenoid Control Circuit Low |
| 1119 | P0931 Gear Shift Lock Solenoid Control Circuit High |
| 1120 | P0932 Hydraulic Pressure Sensor Circuit |
| 1121 | P0933 Hydraulic Pressure Sensor Range/Performance |
| 1122 | P0934 Hydraulic Pressure Sensor Circuit Low |
| 1123 | P0935 Hydraulic Pressure Sensor Circuit High |
| 1124 | P0936 Hydraulic Pressure Sensor Circuit Intermittent |
| 1125 | P0937 Hydraulic Oil Temperature Sensor Circuit |
| 1126 | P0938 Hydraulic Oil Temperature Sensor Range/Performance |
| 1127 | P0939 Hydraulic Oil Temperature Sensor Circuit Low |
| 1128 | P0940 Hydraulic Oil Temperature Sensor Circuit High |
| 1129 | P0941 Hydraulic Oil Temperature Sensor Circuit Intermittent |
| 1130 | P0942 Hydraulic Pressure Unit |
| 1131 | P0943 Hydraulic Pressure Unit Cycling Period Too Short |
| 1132 | P0944 Hydraulic Pressure Unit Loss of Pressure |
| 1133 | P0945 Hydraulic Pump Relay Circuit/Open |
| 1134 | P0946 Hydraulic Pump Relay Circuit Range/Performance |
| 1135 | P0947 Hydraulic Pump Relay Circuit Low |
| 1136 | P0948 Hydraulic Pump Relay Circuit High |
| 1137 | P0949 Auto Shift Manual Adaptive Learning Not Complete |
| 1138 | P0950 Auto Shift Manual Control Circuit |
| 1139 | P0951 Auto Shift Manual Control Circuit Range/Performance |
| 1140 | P0952 Auto Shift Manual Control Circuit Low |
| 1141 | P0953 Auto Shift Manual Control Circuit High |
| 1142 | P0954 Auto Shift Manual Control Circuit Intermittent |
| 1143 | P0955 Auto Shift Manual Mode Circuit |
| 1144 | P0956 Auto Shift Manual Mode Circuit Range/Performance |
| 1145 | P0957 Auto Shift Manual Mode Circuit Low |
| 1146 | P0958 Auto Shift Manual Mode Circuit High |
| 1147 | P0959 Auto Shift Manual Mode Circuit Intermittent |
| 1148 | P0960 Pressure Control Solenoid A Control Circuit/Open |
| 1149 | P0961 Pressure Control Solenoid A Control Circuit Range/Performance |
| 1150 | P0962 Pressure Control Solenoid A Control Circuit Low |
| 1151 | P0963 Pressure Control Solenoid A Control Circuit High |
| 1152 | P0964 Pressure Control Solenoid B Control Circuit/Open |
| 1153 | P0965 Pressure Control Solenoid B Control Circuit Range/Performance |
| 1154 | P0966 Pressure Control Solenoid B Control Circuit Low |
| 1155 | P0967 Pressure Control Solenoid B Control Circuit High |
| 1156 | P0968 Pressure Control Solenoid C Control Circuit/Open |
| 1157 | P0969 Pressure Control Solenoid C Control Circuit Range/Performance |
| 1158 | P0970 Pressure Control Solenoid C Control Circuit Low |
| 1159 | P0971 Pressure Control Solenoid C Control Circuit High |
| 1160 | P0972 Shift Solenoid A Control Circuit Range/Performance |
| 1161 | P0973 Shift Solenoid A Control Circuit Low |
| 1162 | P0974 Shift Solenoid A Control Circuit High |
| 1163 | P0975 Shift Solenoid B Control Circuit Range/Performance |
| 1164 | P0976 Shift Solenoid B Control Circuit Low |
| 1165 | P0977 Shift Solenoid B Control Circuit High |
| 1166 | P0978 Shift Solenoid C Control Circuit Range/Performance |
| 1167 | P0979 Shift Solenoid C Control Circuit Low |
| 1168 | P0980 Shift Solenoid C Control Circuit High |
| 1169 | P0981 Shift Solenoid D Control Circuit Range/Performance |
| 1170 | P0982 Shift Solenoid D Control Circuit Low |
| 1171 | P0983 Shift Solenoid D Control Circuit High |
| 1172 | P0984 Shift Solenoid E Control Circuit Range/Performance |
| 1173 | P0985 Shift Solenoid E Control Circuit Low |
| 1174 | P0986 Shift Solenoid E Control Circuit High |
| 1175 | P0987 Transmission Fluid Pressure Sensor/Switch E Circuit |
| 1176 | P0988 Transmission Fluid Pressure Sensor/Switch E Circuit Range/Performance |
| 1177 | P0989 Transmission Fluid Pressure Sensor/Switch E Circuit Low |
| 1178 | P0990 Transmission Fluid Pressure Sensor/Switch E Circuit High |
| 1179 | P0991 Transmission Fluid Pressure Sensor/Switch E Circuit Intermittent |
| 1180 | P0992 Transmission Fluid Pressure Sensor/Switch F Circuit |
| 1181 | P0993 Transmission Fluid Pressure Sensor/Switch F Circuit Range/Performance |
| 1182 | P0994 Transmission Fluid Pressure Sensor/Switch F Circuit Low |
| 1183 | P0995 Transmission Fluid Pressure Sensor/Switch F Circuit High |
| 1184 | P0996 Transmission Fluid Pressure Sensor/Switch F Circuit Intermittent |
| 1185 | P0997 Shift Solenoid F Control Circuit Range/Performance |
| 1186 | P0998 Shift Solenoid F Control Circuit Low |
| 1187 | P0999 Shift Solenoid F Control Circuit High |

**Limited 90 Day Warranty**

KZYEE makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

