

udiag

CR200

User's Manual

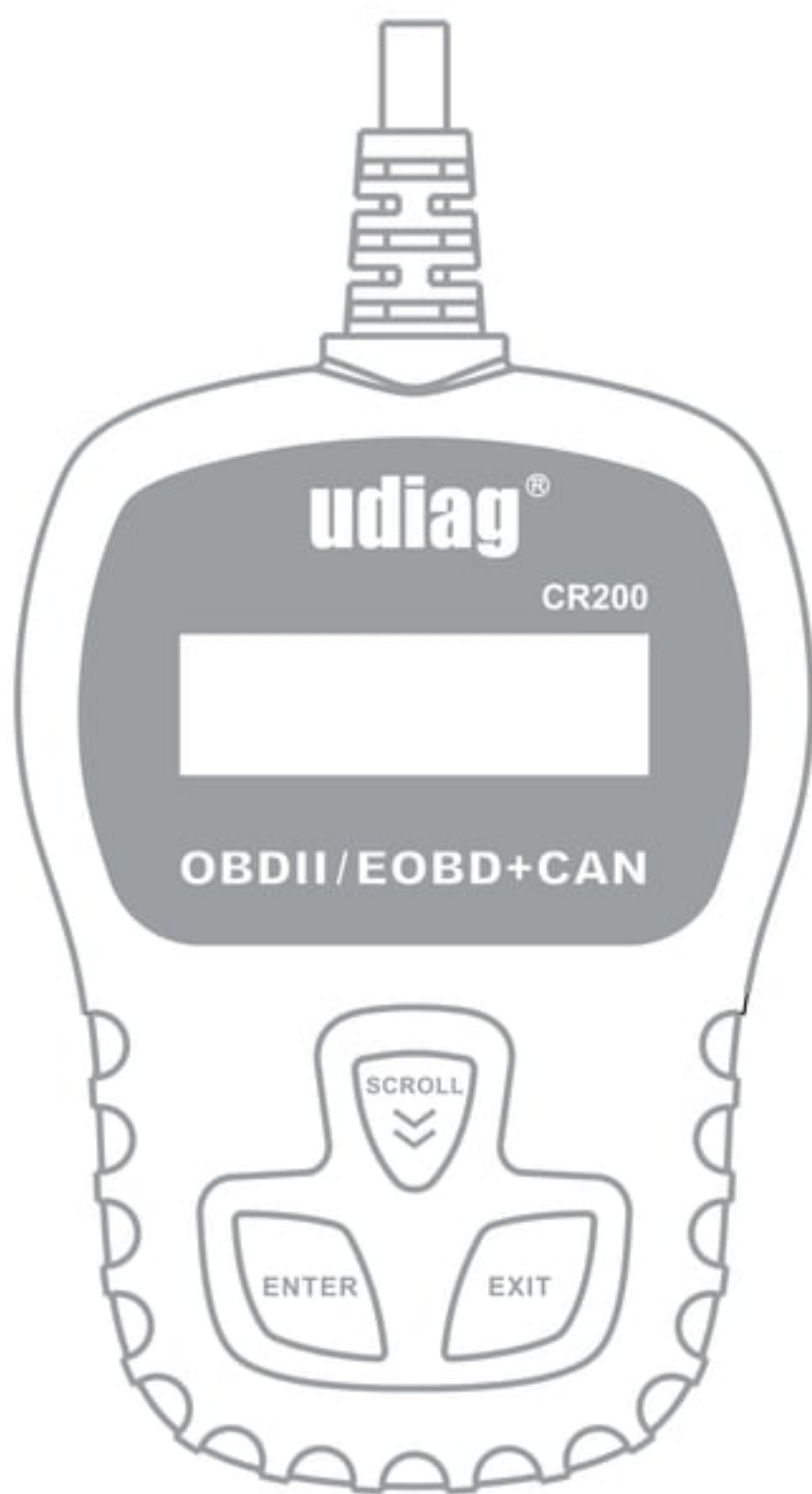


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1. Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment.
- Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well ventilated work area: Exhaust gases are Poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- 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.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when Necessary.

2. General Information

2.1 On-Board Diagnostics (OBD) II

The first generation of On-Board Diagnostics (called OBD I) was developed by the California Air Resources Board (CARB) and implemented in 1988 to monitor some of the emission control components on vehicles. As technology evolved and the desire to improve the On-Board Diagnostic system increased, a new generation of On-Board Diagnostic system was developed. This second generation of On-Board Diagnostic regulations is called "OBD II".

The OBD II system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specific components and vehicle conditions. When a problem is detected, the OBD II system turns on a warning lamp (MIL) on the vehicle instrument panel to alert the driver typically by the phrase "Check Engine" or "Service Engine Soon". The system will also store important information about the detected malfunction so that a technician can accurately find and fix the problem. Here below follow three pieces of such valuable Information:

- 1) Whether the Malfunction Indicator Light (MIL) is commanded 'on' or 'Off';
- 2) Which, if any, Diagnostic Trouble Codes (DTCs) are stored;
- 3) Readiness Monitor status.

2.2 Diagnostic Trouble Codes (DTCs)

OBD II Diagnostic Trouble Codes are codes that are stored by the on-board computer diagnostic system in response to a problem found in the vehicle. These codes identify a particular problem area and are intended to provide you with a guide as to where a fault might be occurring within a vehicle. OBD II Diagnostic Trouble Codes consist of a five-digit alphanumeric code. The first character, a letter, identifies which control system sets the code. The other four characters, all numbers, provide additional information on where the DTC originated and the operating conditions that caused it to be set. Below is an example to illustrate the structure of the digits:

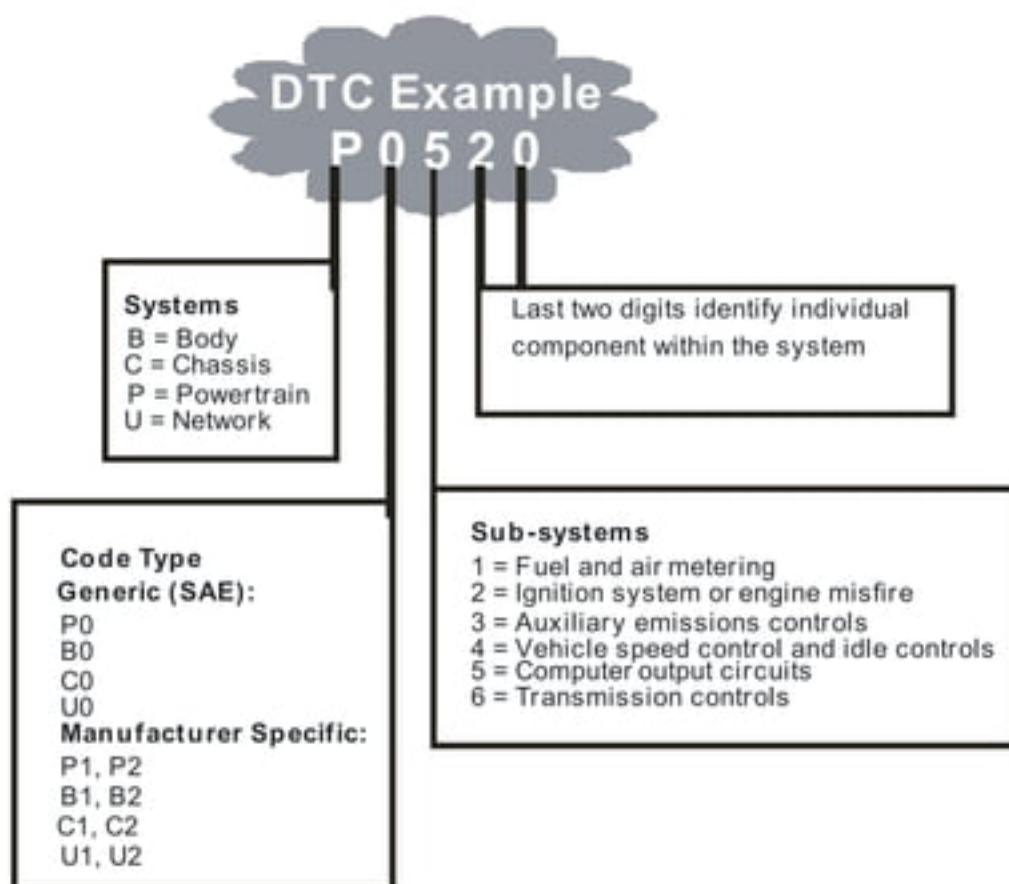
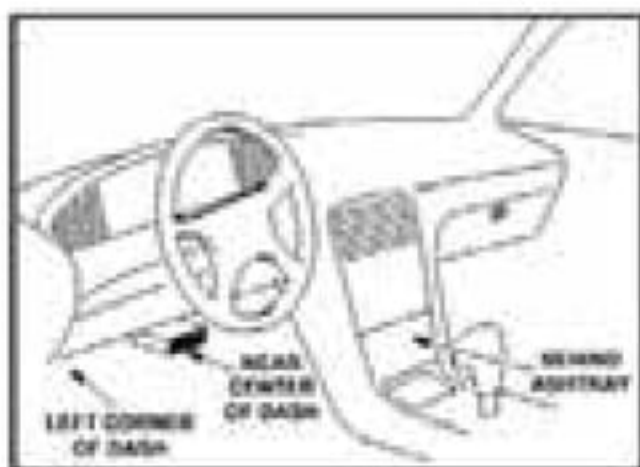


Figure 1-2: Explanation of a diagnostic trouble code.

2.3 Location of the Data Link Connector (DLC)

The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity connector where diagnostic scan tools interface with the vehicle's on-board computer. The DLC is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If the Data Link Connector is not located under the dashboard, a label should be there revealing its location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.

Figure 1-3: The DLC connector (left) can be found in the area of the car interior seen at right (black arrow).



2.4 OBD II Readiness Monitors

Readiness Monitors are indicators used to find out if all of the emissions components have been evaluated by the OBD II system. They are running periodic tests on specific systems and components to ensure that they are performing within allowable limits.

currently, there are eleven OBD II Readiness Monitors (or I/M Monitors) defined by the U.S. Environmental Protection Agency (EPA). Not all monitors are supported by all vehicles and the exact number of monitors in any vehicle depends on the motor vehicle manufacturer's emissions control strategy.

Continuous Monitors – Some of the vehicle components or systems are continuously tested by the vehicle's OBD II system, while others are tested only under specific vehicle operating conditions. The continuously monitored components listed below are always ready:

1. Misfire
2. Fuel System
3. Comprehensive Components (CCM)

Once the vehicle is running, the OBD II system is continuously checking the above components, monitoring key engine sensors, watching for engine misfire, and monitoring fuel demands.

Non-Continuous Monitors – Unlike the continuous monitors, many emissions and engine system components require the vehicle to be operated under specific conditions before the monitor is ready. These monitors are termed non-continuous monitors and are listed below:

1. EGR System - exhaust Gas Recirculation for reducing greenhouse gases.
2. O2 Sensors - monitor and adjust air/fuel mixture.
3. Catalyst - reduces exhaust emissions.
4. Evaporative System - monitors the integrity of the fuel tank system.
5. O2 Sensor Heater - brings O2 sensor to correct operating temperature.
6. Secondary air - reduces exhaust emissions.
7. Heated Catalyst - brings catalyst to correct operating temperature.
8. A/C system - monitors system for freon leaks.

2.5 OBD II Monitor Readiness Status

OBD II systems must indicate whether or not the vehicle's PCM's monitoring has completed testing on each emission component. Components that have been OBD II tested will be reported as "OK". The purpose of recording readiness status is to allow inspectors to determine if the vehicle's OBDII system has tested all the emissions systems. This is handy to know before bringing vehicle to a state emissions testing facility.

The powertrain control module (PCM) sets a monitor to "OK" after an appropriate drive cycle has been performed. The drive cycle that enables a Monitor and sets readiness codes to "OK" varies for each individual monitor. Once a monitor is set as "OK", it will remain in this state. A number of factors, including erasing of diagnostic trouble codes (DTCs) with a code reader or a disconnected battery, can result in Readiness Monitors being set to "INC" (incomplete). Since the three continuous monitors are constantly evaluating, they will be reported as "OK" all of the time. As long as there are no DTCs stored in memory, the vehicle is running in accordance with the OBD II guidelines. If testing of a particular supported non-continuous monitor has not been completed or not tested, the monitor status will be reported as "INC" (incomplete).

In order for the OBD monitor system to become ready, the vehicle should be driven under a variety of normal operating conditions. These operating conditions may include a mix of highway driving and stop and go, city type driving, and at least one overnight-off period. For specific information on getting your vehicle's OBD monitor system ready, please consult your vehicle owner's manual.

2.6 OBD II Definitions

Powertrain Control Module (PCM) – the OBD II terminology for the on-board computer that controls the engine and the drive train.

Malfunction Indicator Light (MIL) – Malfunction Indicator Light (Service Engine Soon, Check Engine) is a term used for the light on the instrument panel. It is to alert the driver and/or the repair technician that there is a problem with one or more of vehicle's systems and may cause emissions to exceed federal standards. If the MIL illuminates with a steady light, it indicates that a problem has been detected and the vehicle should be serviced as soon as possible. Under certain conditions, the dashboard light will blink or flash. This indicates a severe problem and flashing is intended to discourage vehicle operation. The vehicle onboard diagnostic system can not turn the MIL off until necessary repairs are completed or the condition no longer exists.

DTC – Diagnostic Trouble Codes (DTC) these identify which section of the emission control system has malfunctioned.

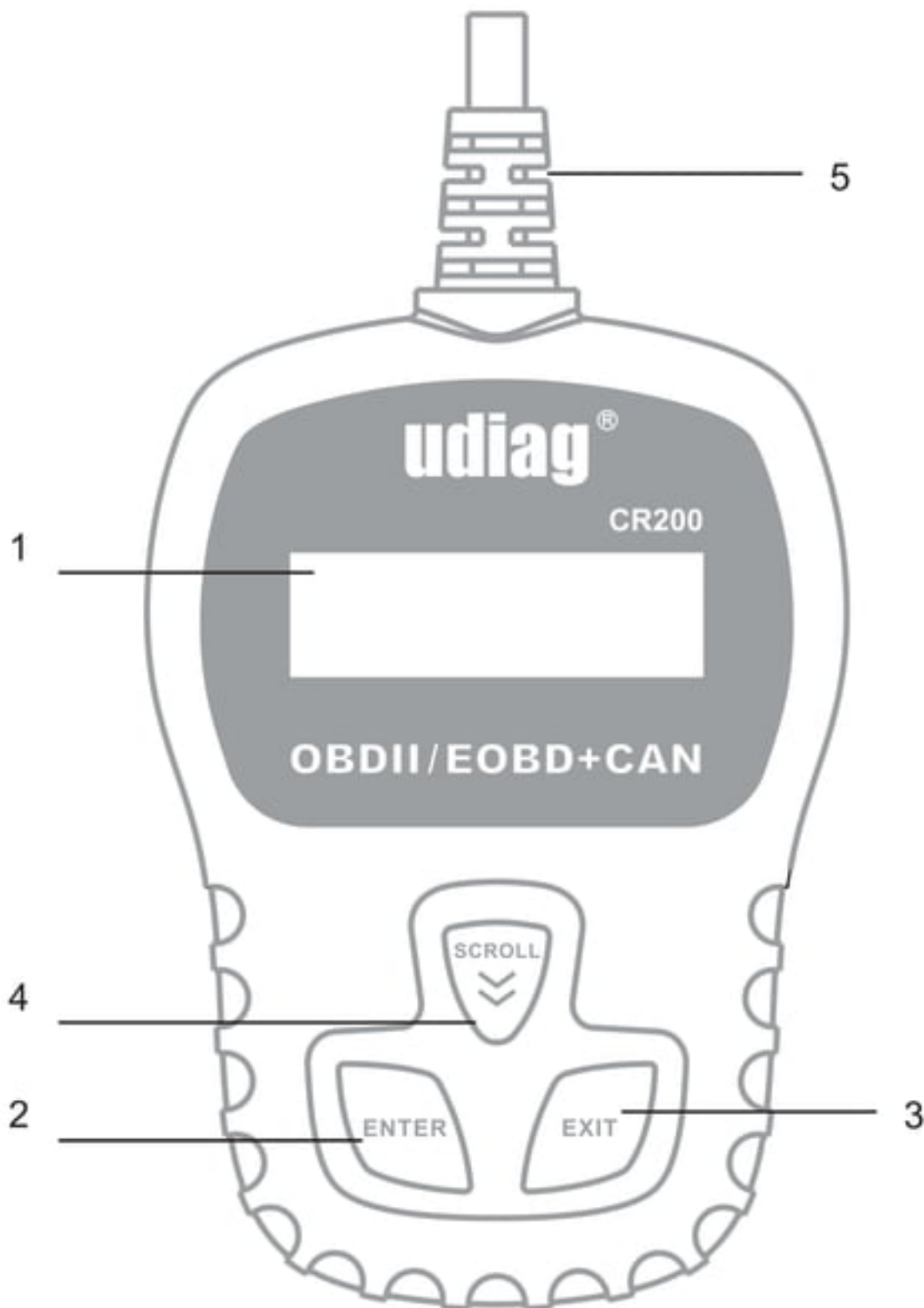
Enabling Criteria – Also termed Enabling Conditions. They are the vehicle-specific events or conditions that must occur within the engine before the various monitors will set, or run. Some monitors require the vehicle to follow a prescribed “drive cycle” routine as part of the enabling criteria. Drive cycles vary among vehicles and for each monitor in any particular vehicle.

OBD II Drive Cycle – A specific mode of vehicle operation that provides conditions required to set all the readiness monitors applicable to the vehicle to the “ready” condition. The purpose of completing an OBD II drive cycle is to force the vehicle to run its onboard diagnostics. Some form of a drive cycle needs to be performed after DTCs have been erased from the PCM’s memory or after the battery has been disconnected. Running through a vehicle’s complete drive cycle will “set” the readiness monitors so that future faults can be detected. Drive cycles vary depending on the vehicle and the monitor that needs to be reset. For vehicle specific drive cycle, consult the vehicle’s Owner’s Manual.

Freeze Frame Data – When an emissions related fault occurs, the OBD II system not only sets a code, but also records a snapshot of the vehicle operating parameters to help in identifying the problem. This set of values operating parameters to help in identifying the problem. This set of values is referred to as Freeze Frame Data and may include important engine parameters such as engine RPM, vehicle speed, air flow, engine load, fuel pressure, fuel trim value, engine coolant temperature, ignition timing advance, or closed loop status.

3. Using the Scan Tool

3.1 Tool Description - udiag CR200



1. LCD DISPLAY – Indicates test results. Backlit, 128 x 32 pixel display with contrast adjustment.

2. ENTER BUTTON – Confirms a selection (or action) from a menu.

3. EXIT BUTTON – Cancels a selection (or action) from a menu or returns to the menu. It is also used to exit DTC Lookup screen.

4. SCROLL BUTTON – Moves down through menu and submenu items in menu mode. When more than one screen of data is retrieved, moves scroll through the current screen to the previous screens for additional data.

5. OBD II CONNECTOR – Connects the scan tool to the vehicle's Data Link Connector (DLC).

3.2 Specifications

- 1) Display: Backlit, 128 × 32 pixel display with contrast adjustment
- 2) Operating Temperature: 0 to 60°C (32 to 140 F°)
- 3) Storage Temperature: -20 to 70°C (-4 to 158 F°)
- 4) External Power: 8.0 to 18.0 V power provided via vehicle battery
- 5) Dimensions:

Length	Width	Height
108 mm (4.25")	74 mm (2.91")	20 mm (0.79")

3.3 Included

- 1) CR200 Scan Tool main unit
- 2) User's Manual

3.4 Language

1) From the Main Menu, use the SCROLL button to select the Language and press the ENTER button.



3.5 Contrast

1) From the Main Menu, use the SCROLL button to select Contrast, and press ENTER.



2) From the Contrast menu, use the SCROLL button to increase or decrease contrast.



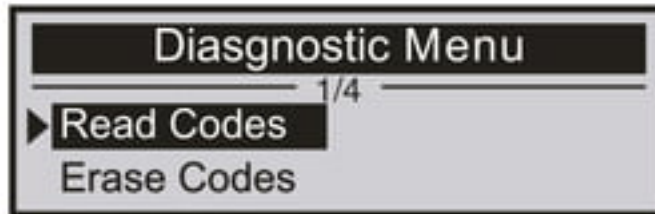
3) Press ENTER to save your settings and return to the previous menu.

4. OBD II Diagnostics

- **CAUTION: Don't connect or disconnect any test equipment with ignition on or engine running.**

- 1) Turn the ignition off.
- 2) Locate the vehicle's 16-pin Data Link Connector (DLC).
- 3) Plug the scan tool cable connector into the vehicle's DLC.
- 4) Turn the ignition on.
- 5) Press EXIT to enter Main Menu. Use the SCROLL button to select Diagnostics from the menu.

CR200 auto scan system, directly into the diagnostic menu.

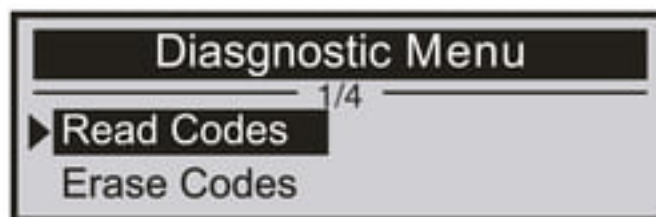


- 6) Press ENTER to confirm. A sequence of messages displaying the OBD II protocols will be observed on the display until the vehicle protocol is detected.
- **If the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit), a "LINKING ERROR!" message shows up on the display.**
 - Verify that the ignition is ON;
 - Check if the scan tool's OBD II connector is securely connected to the vehicle's DLC;
 - Verify that the vehicle is OBD II compliant;
 - Turn the ignition 'off' and wait for about 10 seconds. Turn the ignition back to 'on' and repeat the procedure from step 5.

4.1 Read Codes

- Stored codes are also known as "hard codes" or "permanent codes". These codes cause the control module to illuminate the malfunction indicator lamp (MIL) when an emission-related fault occurs.
- Pending Codes are also referred to as "maturing codes" or "continuous monitor codes". They indicate problems that the control module has detected during the current or last driving cycle, but are not considered serious, yet. Pending Codes will not turn on the malfunction indicator serious, yet. Pending Codes will not turn on the malfunction indicator up cycles, the code clears from memory.

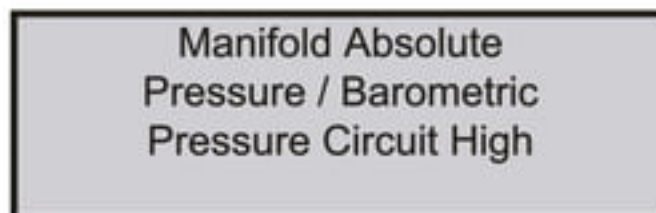
1) Use the SCROLL button to select Read Codes from the Diagnostic Menu and press ENTER.



- 2) View DTCs .



- The control module number, sequence of the DTCs, total number of codes detected and type of codes (Generic or Manufacturer specific) will be observed on the display. Press the Enter key to view the DTC definition.
- 2) View DTCs their definitions on screen.

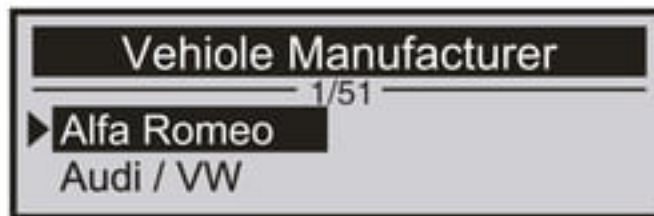


- Read more information, please press ENTER/SCROLL to view the entire contents.

4) If more than one DTC is found, use the SCROLL button, as necessary, until all the codes have been viewed.

5) Press the ENTER to display the fault code details.

If retrieved DTCs contain any manufacturer specific or enhanced codes, a "Manufacturer specific codes are found! Press any key to select vehicle make!" message comes up prompting you to select vehicle manufacturer to view DTC definitions. Use the SCROLL button to select manufacturer and then press ENTER to confirm.



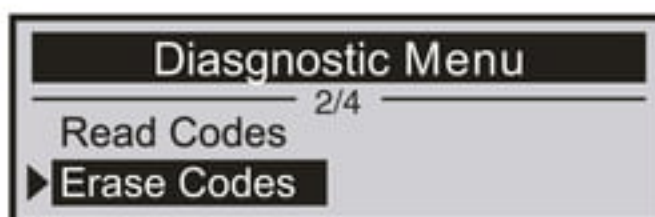
- If the manufacturer for your vehicle is not listed, use the SCROLL button to select "Other" and press ENTER.

4.2 Erase Codes

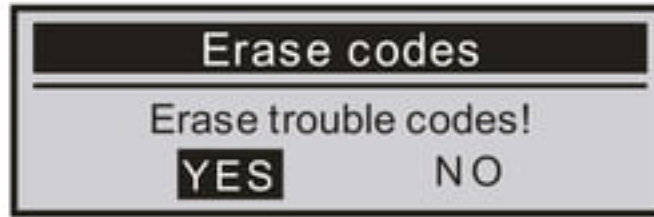
Notes:

- This function is performed with key on engine off . Do not start the engine.
- Before performing this function, make sure to retrieve and record the trouble codes.
- After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there is still some trouble codes for hard troubles, please find the reason caused the trouble code firstly, and then solve the problem. Now, the trouble codes can be erased.

1) Use the SCROLL buttons to select Erase Codes from the Diagnostic Menu and press ENTER.

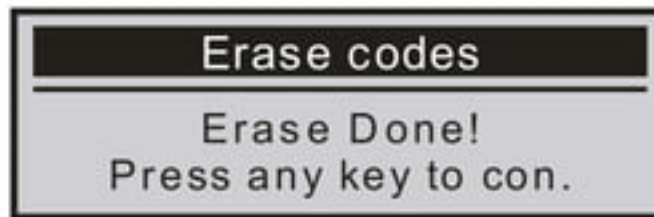


2) A warning message comes up asking for your confirmation.



3) Press ENTER to confirm.

- If the codes are cleared successfully, an "Erase Done!" confirmation message is displayed.



- If the codes are not cleared, then an "Erase Failure. Turn Key on with Engine off!" message is displayed.



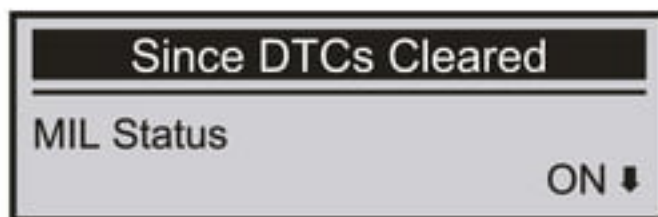
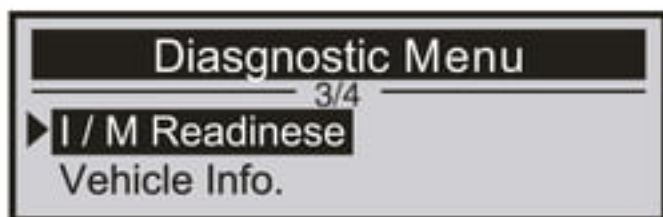
4.3 I/M Readiness

I/M refers to Inspection and Maintenance, that is legislated by the Government to meet federal clean-air standards. I/M Readiness indicates whether or not the various emissions-related systems on the vehicle are operating properly and are ready for Inspection and Maintenance testing.

The purpose of the I/M Readiness Monitor Status is to indicate which of the vehicle's Monitors have run and completed their diagnosis and testing (as described in 2.5), and which ones have not yet run and completed testing and diagnosis of their designated sections of the vehicle's emissions system.

The I/M Readiness Monitor Status function also can be used (after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/or to check for Monitor Run Status.

Select [I/M Readiness Test] and Press [ENTER], the screen will display the interface as shown below:

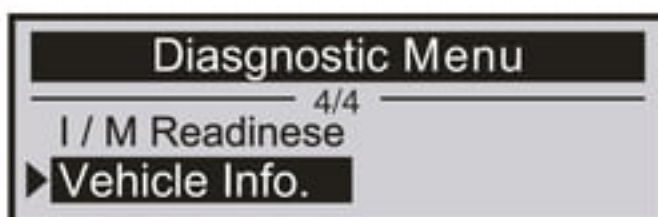


Press EXIT return to the Diagnostic Menu.

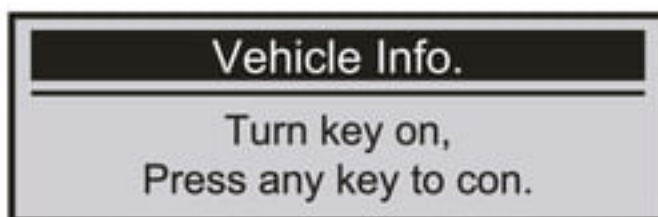
4.4 Vehicle Info.

Select [Vehicle Info.] and press [ENTER], the screen will display the formation such as VIN (Vehicle identification Number), CID (Calibration ID) and CVN (Calibration verify number).

1) Use UP/DOWN scroll button to select Vehicle Info. from the Diagnostic Menu and press ENTER.



2) An advisory message comes up to remind you. Wait a few seconds or press any key to continue.



3) Wait a few seconds while the scan tool reads vehicle information.



4) Press EXIT button to return Diagnostic Menu.

5. OBDII Generic Definitions

P0001	Fuel Volume Regulator Control Circuit/Open
P0002	Fuel Volume Regulator Control Circuit Range/Performance
P0003	Fuel Volume Regulator Control Circuit Low
P0004	Fuel Volume Regulator Control Circuit High
P0005	Fuel Shutoff Valve A Control Circuit/Open
P0006	Fuel Shutoff Valve A Control Circuit Low
P0007	Fuel Shutoff Valve A Control Circuit High
P0008	Engine Position System Performance (Bank 1)
P0009	Engine Position System Performance (Bank 2)
P000A	A Camshaft Position Slow Response (Bank 1)
P000B	B Camshaft Position Slow Response (Bank 1)
P000C	A Camshaft Position Slow Response (Bank 2)
P000D	B Camshaft Position Slow Response (Bank 2)
P000E	Fuel Volume Regulator Control Exceeded Learning Limit
P000F	Fuel System Over Pressure Relief Valve Activated
P0010	A Camshaft Position Actuator Circuit/Open (Bank 1)
P0011	A Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
P0012	A Camshaft Position - Timing Over-Retarded (Bank 1)
P0013	B Camshaft Position - Actuator Circuit/Open (Bank 1)
P0014	B Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
P0015	B Camshaft Position - Timing Over-Retarded (Bank 1)
P0016	Crankshaft Position - Camshaft Position Correlation (Bank 1, Sensor A)
P0017	Crankshaft Position - Camshaft Position Correlation (Bank 1, Sensor B)
P0018	Crankshaft Position - Camshaft Position Correlation (Bank 2, Sensor A)
P0019	Crankshaft Position - Camshaft Position Correlation (Bank 2, Sensor B)
P001A	A Camshaft Profile Control Circuit/Open (Bank 1)
P001B	A Camshaft Profile Control Circuit Low (Bank 1)
P001C	A Camshaft Profile Control Circuit High (Bank 1)
P001D	A Camshaft Profile Control Circuit/Open (Bank 2)
P001E	A Camshaft Profile Control Circuit Low (Bank 2)
P001F	A Camshaft Profile Control Circuit High (Bank 2)
P0020	A Camshaft Position Actuator Circuit/Open (Bank 2)
P0021	A Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
P0022	A Camshaft Position - Timing Over-Retarded (Bank 2)
P0023	B Camshaft Position - Actuator Circuit/Open (Bank 2)
P0024	B Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
P0025	B Camshaft Position - Timing Over-Retarded (Bank 2)

OBDII Generic Definitions

P0026	Intake Valve Control Solenoid Circuit Range/Performance (Bank 1)
P0027	Exhaust Valve Control Solenoid Circuit Range/Performance (Bank 1)
P0028	Intake Valve Control Solenoid Circuit Range/Performance (Bank 2)
P0029	Exhaust Valve Control Solenoid Circuit Range/Performance (Bank 2)
P002A	B Camshaft Profile Control Circuit/Open (Bank 1)
P002B	B Camshaft Profile Control Circuit Low (Bank 1)
P002C	B Camshaft Profile Control Circuit High (Bank 1)
P002D	B Camshaft Profile Control Circuit/Open (Bank 2)
P002E	B Camshaft Profile Control Circuit Low (Bank 2)
P002F	B Camshaft Profile Control Circuit High (Bank 2)
P0030	HO2S Heater Control Circuit (Bank 1, Sensor 1)
P0031	HO2S Heater Control Circuit Low (Bank 1, Sensor 1)
P0032	HO2S Heater Control Circuit High (Bank 1, Sensor 1)
P0033	Turbocharger/Supercharger Bypass Valve Control Circuit
P0034	Turbocharger/Supercharger Bypass Valve Control Circuit Low
P0035	Turbocharger/Supercharger Bypass Valve Control Circuit High
P0036	HO2S Heater Control Circuit (Bank 1, Sensor 2)
P0037	HO2S Heater Control Circuit Low (Bank 1, Sensor 2)
P0038	HO2S Heater Control Circuit High (Bank 1, Sensor 2)
P0039	Turbocharger/Supercharger Bypass Valve Control Circuit Range/Performance
P003A	Turbocharger/Supercharger Boost Control A Position Exceeded Learning Limit
P003B	Turbocharger/Supercharger Boost Control B position Exceeded Learning Limit
P003C	A Camshaft Profile Control Performance/Stuck Off (Bank 1)
P003D	A Camshaft Profile Control Stuck On (Bank 1)
P003E	A Camshaft Profile Control Performance/Stuck Off (Bank 2)
P003F	A Camshaft Profile Control Stuck On (Bank 2)
P0040	O2 Sensor Signals Swapped (Bank 1, Sensor 1)/(Bank 2, Sensor 1)
P0041	O2 Sensor Signals Swapped (Bank 1, Sensor 2)/(Bank 2, Sensor 2)
P0042	HO2S Heater Control Circuit (Bank 1, Sensor 3)
P0043	HO2S Heater Control Circuit Low (Bank 1, Sensor 3)
P0044	HO2S Heater Control Circuit High (Bank 1, Sensor 3)
P0045	Turbocharger/Supercharger Boost Control A Circuit/Open
P0046	Turbocharger/Supercharger Boost Control A Circuit Range/Performance
P0047	Turbocharger/Supercharger Boost Control A Circuit Low
P0048	Turbocharger/Supercharger Boost Control A Circuit High
P0049	Turbocharger/Supercharger Turbine Overspeed
P004A	Turbocharger/Supercharger Boost Control B Circuit/Open

OBDII Generic Definitions

P004B	Turbocharger/Supercharger Boost Control B Circuit Range/Performance
P004C	Turbocharger/Supercharger Boost Control B Circuit Low
P004D	Turbocharger/Supercharger Boost Control B Circuit High
P004E	Turbocharger/Supercharger Boost Control A Circuit Intermittent/Erratic
P004F	Turbocharger/Supercharger Boost Control B Circuit Intermittent/Erratic
P0050	HO2S Heater Control Circuit (Bank 2, Sensor 1)
P0051	HO2S Heater Control Circuit Low (Bank 2, Sensor 1)
P0052	HO2S Heater Control Circuit High (Bank 2, Sensor 1)
P0053	HO2S Heater Resistance (Bank 1, Sensor 1)
P0054	HO2S Heater Resistance (Bank 1, Sensor 2)
P0055	HO2S Heater Resistance (Bank 1, Sensor 3)
P0056	HO2S Heater Control Circuit (Bank 2, Sensor 2)
P0057	HO2S Heater Control Circuit Low (Bank 2, Sensor 2)
P0058	HO2S Heater Control Circuit High (Bank 2, Sensor 2)
P0059	HO2S Heater Resistance (Bank 2, Sensor 1)
P005A	B Camshaft Profile Control Performance/Stuck Off (Bank 1)
P005B	B Camshaft Profile Control Stuck On (Bank 1)
P005C	B Camshaft Profile Control Performance/Stuck Off (Bank 2)
P005D	B Camshaft Profile Control Stuck On (Bank 2)
P005E	Turbocharger/Supercharger Boost Control B Supply Voltage Circuit Low
P005F	Turbocharger/Supercharger Boost Control B Supply Voltage Circuit High
P0060	HO2S Heater Resistance (Bank 2, Sensor 2)
P0061	HO2S Heater Resistance (Bank 2, Sensor 3)
P0062	HO2S Heater Control Circuit (Bank 2, Sensor 3)
P0063	HO2S Heater Control Circuit Low (Bank 2, Sensor 3)
P0064	HO2S Heater Control Circuit High (Bank 2, Sensor 3)
P0065	Air Assisted Injector Control Range/Performance
P0066	Air Assisted Injector Control Circuit or Circuit Low
P0067	Air Assisted Injector Control Circuit High
P0068	MAP/MAF - Throttle Position Correlation
P0069	Manifold Absolute Pressure - Barometric Pressure Correlation
P006A	MAP - Mass or Volume Air Flow Correlation (Bank 1)
P006B	MAP - Exhaust Pressure Correlation
P006C	MAP - Turbocharger/Supercharger Inlet Pressure Correlation
P006D	Barometric Pressure - Turbocharger/Supercharger Inlet Pressure Correlation
P006E	Turbocharger/Supercharger Boost Control A Supply Voltage Circuit Low
P006F	Turbocharger/Supercharger Boost Control A Supply Voltage Circuit High

OBDII Generic Definitions

P0070	Ambient Air Temperature Sensor Circuit
P0071	Ambient Air Temperature Sensor Range/Performance
P0072	Ambient Air Temperature Sensor Circuit Low
P0073	Ambient Air Temperature Sensor Circuit High
P0074	Ambient Air Temperature Sensor Circuit Intermittent
P0075	Intake Valve Control Solenoid Circuit (Bank 1)
P0076	Intake Valve Control Solenoid Circuit Low (Bank 1)
P0077	Intake Valve Control Solenoid Circuit High (Bank 1)
P0078	Exhaust Valve Control Solenoid Circuit (Bank 1)
P0079	Exhaust Valve Control Solenoid Circuit Low (Bank 1)
P007A	Charge Air Cooler Temperature Sensor Circuit (Bank 1)
P007B	Charge Air Cooler Temperature Sensor Circuit
P007C	Charge Air Cooler Temperature Sensor Circuit Low (Bank 1)
P007D	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)
P007E	Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic (Bank 1)
P007F	Charge Air Cooler Temperature Sensor Bank1/Bank2 Correlation
P0080	Exhaust Valve Control Solenoid Circuit High (Bank 1)
P0081	Intake Valve Control Solenoid Circuit (Bank 2)
P0082	Intake Valve Control Solenoid Circuit Low (Bank 2)
P0083	Intake Valve Control Solenoid Circuit High (Bank 2)
P0084	Exhaust Valve Control Solenoid Circuit (Bank 2)
P0085	Exhaust Valve Control Solenoid Circuit Low (Bank 2)
P0086	Exhaust Valve Control Solenoid Circuit High (Bank 2)
P0087	Fuel Rail/System Pressure - Too Low
P0088	Fuel Rail/System Pressure - Too High
P0089	Fuel Pressure Regulator 1 - Performance
P008A	Low Pressure Fuel System Pressure - Too Low
P008B	Low Pressure Fuel System Pressure - Too High
P008C	Fuel Cooler Pump Control Circuit/Open
P008D	Fuel Cooler Pump Control Circuit Low
P008E	Fuel Cooler Pump Control Circuit High
P008F	Engine Coolant Temperature/Fuel Temperature Correlation
P0090	Fuel Pressure Regulator 1 Control Circuit/Open
P0091	Fuel Pressure Regulator 1 Control Circuit Low
P0092	Fuel Pressure Regulator 1 Control Circuit High
P0093	Fuel System Leak Detected - Large Leak
P0094	Fuel System Leak Detected - Small Leak

OBDII Generic Definitions

P0095	Intake Air Temperature Sensor 2 Circuit (Bank 1)
P0096	Intake Air Temperature Sensor 2 Circuit Range/Performance (Bank 1)
P0097	Intake Air Temperature Sensor 2 Circuit Low (Bank 1)
P0098	Intake Air Temperature Sensor 2 Circuit High (Bank 1)
P0099	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic (Bank 1)
P009A	Intake Air Temperature/Ambient Air Temperature Correlation
P009B	Fuel Pressure Relief Control Circuit/Open
P009C	Fuel Pressure Relief Control Circuit Low
P009D	Fuel Pressure Relief Control Circuit High
P009E	Fuel Pressure Relief Control Performance/Stuck Off
P009F	Fuel Pressure Relief Control Stuck On
P00A0	Charge Air Cooler Temperature Sensor Circuit (Bank 2)
P00A1	Charge Air Cooler Temperature Sensor Circuit (Bank 2)
P00A2	Charge Air Cooler Temperature Sensor Circuit Low (Bank 2)
P00A3	Charge Air Cooler Temperature Sensor Circuit High (Bank 2)
P00A4	Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic (Bank 2)
P00A5	Intake Air Temperature Sensor 2 Circuit (Bank 2)
P00A6	Intake Air Temperature Sensor 2 Circuit Range/Performance (Bank 2)
P00A7	Intake Air Temperature Sensor 2 Circuit Low (Bank 2)
P00A8	Intake Air Temperature Sensor 2 Circuit High (Bank 2)
P00A9	Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic (Bank 2)
P00AA	Intake Air Temperature Sensor 1 Circuit (Bank 2)
P00AB	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 2)
P00AC	Intake Air Temperature Sensor 1 Circuit Low (Bank 2)
P00AD	Intake Air Temperature Sensor 1 Circuit High (Bank 2)
P00AE	Intake Air Temperature Sensor 1 Circuit Intermittent (Bank 2)
P00AF	Turbocharger/Supercharger Boost Control A Module Performance
P00B0	Turbocharger/Supercharger Boost Control B Module Performance
P00B1	Radiator Coolant Temperature Sensor Circuit
P00B2	Radiator Coolant Temperature Sensor Circuit Range/Performance
P00B3	Radiator Coolant Temperature Sensor Circuit Low
P00B4	Radiator Coolant Temperature Sensor Circuit High
P00B5	Radiator Coolant Temperature Sensor Circuit Intermittent/Erratic
P00B6	Radiator Coolant Temperature/Engine Coolant Temperature Correlation
P00B7	Engine Coolant Flow Low/Performance
P00B8	MAP - Mass or Volume Air Flow Correlation (Bank 2)
P00B9	Low Pressure Fuel System Pressure - Too Low, Low Ambient Temperature

OBDII Generic Definitions

P00BA	Low Fuel Pressure - Forced Limited Power
P00BB	Fuel Injector Insufficient Flow - Forced Limited Power
P00BC	Mass or Volume Air Flow A Circuit Range/Performance - Air Flow Too Low
P00BD	Mass or Volume Air Flow A Circuit Range/Performance - Air Flow Too High
P00BE	Mass or Volume Air Flow B Circuit Range/Performance - Air Flow Too Low
P00BF	Mass or Volume Air Flow B Circuit Range/Performance - Air Flow Too High
P0100	Mass or Volume Air Flow A Circuit
P0101	Mass or Volume Air Flow A Circuit Range/Performance
P0102	Mass or Volume Air Flow A Circuit Low
P0103	Mass or Volume Air Flow A Circuit High
P0104	Mass or Volume Air Flow A Circuit Intermittent
P0105	Manifold Absolute Pressure/Barometric Pressure Circuit
P0106	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low
P0108	Manifold Absolute Pressure/Barometric Pressure Circuit High
P0109	Manifold Absolute Pressure/Barometric Pressure Circuit Intermittent
P010A	Mass or Volume Air Flow B Circuit
P010B	Mass or Volume Air Flow B Circuit Range/Performance
P010C	Mass or Volume Air Flow B Circuit Low
P010D	Mass or Volume Air Flow B Circuit High
P010E	Mass or Volume Air Flow B Circuit Intermittent/Erratic
P010F	Mass or Volume Air Flow Sensor A/B Correlation
P0110	Intake Air Temperature Sensor 1 Circuit (Bank 1)
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)
P0112	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)
P0113	Intake Air Temperature Sensor 1 Circuit High (Bank 1)
P0114	Intake Air Temperature Sensor 1 Circuit Intermittent (Bank 1)
P0115	Engine Coolant Temperature Sensor 1 Circuit
P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance
P0117	Engine Coolant Temperature Sensor 1 Circuit Low
P0118	Engine Coolant Temperature Sensor 1 Circuit High
P0119	Engine Coolant Temperature Sensor 1 Circuit Intermittent
P011A	Engine Coolant Temperature Sensor 1/2 Correlation
P011B	Engine Coolant Temperature/Intake Air Temperature Correlation
P011C	Charge Air Temperature/Intake Air Temperature Correlation (Bank 1)
P011D	Charge Air Temperature/Intake Air Temperature Correlation (Bank 2)
P0120	Throttle/Pedal Position Sensor/Switch A Circuit

OBDII Generic Definitions

P0121	Throttle/Pedal Position Sensor/Switch A Circuit Range/Performance
P0122	Throttle/Pedal Position Sensor/Switch A Circuit Low
P0123	Throttle/Pedal Position Sensor/Switch A Circuit High
P0124	Throttle/Pedal Position Sensor/Switch A Circuit Intermittent
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control
P0126	Insufficient Coolant Temperature for Stable Operation
P0127	Intake Air Temperature Too High
P0128	Coolant Thermostat
P0129	Barometric Pressure Too Low
P012A	Turbocharger/Supercharger Inlet Pressure Sensor - Circuit
P012B	Turbocharger/Supercharger Inlet Pressure Sensor - Circuit Range/Perfo
P012C	Turbocharger/Supercharger Inlet Pressure Sensor - Circuit Low
P012D	Turbocharger/Supercharger Inlet Pressure Sensor - Circuit High
P012E	Turbocharger/Supercharger Inlet Pressure Sensor - Circuit Intermitten
P0130	O2 Sensor Circuit (Bank 1, Sensor 1)
P0131	O2 Sensor Circuit Low Voltage (Bank 1, Sensor 1)
P0132	O2 Sensor Circuit High Voltage (Bank 1, Sensor 1)
P0133	O2 Sensor Circuit Slow Response (Bank 1, Sensor 1)
P0134	O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 1)
P0135	O2 Sensor Heater Circuit (Bank 1, Sensor 1)
P0136	O2 Sensor Circuit (Bank 1, Sensor 2)
P0137	O2 Sensor Circuit Low Voltage (Bank 1, Sensor 2)
P0138	O2 Sensor Circuit High Voltage (Bank 1, Sensor 2)
P0139	O2 Sensor Circuit Slow Response (Bank 1, Sensor 2)
P013A	O2 Sensor Slow Response - Rich to Lean (Bank 1, Sensor 2)
P013B	O2 Sensor Slow Response - Lean to Rich (Bank 1, Sensor 2)
P013C	O2 Sensor Slow Response - Rich to Lean (Bank 2, Sensor 2)
P013D	O2 Sensor Slow Response - Lean to Rich (Bank 2, Sensor 2)
P013E	O2 Sensor Delayed Response - Rich to Lean (Bank 1, Sensor 2)
P013F	O2 Sensor Delayed Response - Lean to Rich (Bank 1, Sensor 2)
P0140	O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 2)
P0141	O2 Sensor Heater Circuit (Bank 1, Sensor 2)
P0142	O2 Sensor Circuit (Bank 1, Sensor 3)
P0143	O2 Sensor Circuit Low Voltage (Bank 1, Sensor 3)
P0144	O2 Sensor Circuit High Voltage (Bank 1, Sensor 3)
P0145	O2 Sensor Circuit Slow Response (Bank 1, Sensor 3)
P0146	O2 Sensor Circuit No Activity Detected (Bank 1, Sensor 3)

OBDII Generic Definitions

P0147	O2 Sensor Heater Circuit (Bank 1, Sensor 3)
P0148	Fuel Delivery Error
P0149	Fuel Timing Error
P014A	O2 Sensor Delayed Response - Rich to Lean (Bank 2, Sensor 2)
P014B	O2 Sensor Delayed Response - Lean to Rich (Bank 2, Sensor 2)
P014C	O2 Sensor Slow Response - Rich to Lean (Bank 1, Sensor 1)
P014D	O2 Sensor Slow Response - Lean to Rich (Bank 1, Sensor 1)
P014E	O2 Sensor Slow Response - Rich to Lean (Bank 2, Sensor 1)
P014F	O2 Sensor Slow Response - Lean to Rich (Bank 2, Sensor 1)
P0150	O2 Sensor Circuit (Bank 2, Sensor 1)
P0151	O2 Sensor Circuit Low Voltage (Bank 2, Sensor 1)
P0152	O2 Sensor Circuit High Voltage (Bank 2, Sensor 1)
P0153	O2 Sensor Circuit Slow Response (Bank 2, Sensor 1)
P0154	O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 1)
P0155	O2 Sensor Heater Circuit (Bank 2, Sensor 1)
P0156	O2 Sensor Circuit (Bank 2, Sensor 2)
P0157	O2 Sensor Circuit Low Voltage (Bank 2, Sensor 2)
P0158	O2 Sensor Circuit High Voltage (Bank 2, Sensor 2)
P0159	O2 Sensor Circuit Slow Response (Bank 2, Sensor 2)
P015A	O2 Sensor Delayed Response - Rich to Lean (Bank 1, Sensor 1)
P015B	O2 Sensor Delayed Response - Lean to Rich (Bank 1, Sensor 1)
P015C	O2 Sensor Delayed Response - Rich to Lean (Bank 2, Sensor 1)
P015D	O2 Sensor Delayed Response - Lean to Rich (Bank 2, Sensor 1)
P0160	O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 2)
P0161	O2 Sensor Heater Circuit (Bank 2, Sensor 2)
P0162	O2 Sensor Circuit (Bank 2, Sensor 3)
P0163	O2 Sensor Circuit Low Voltage (Bank 2, Sensor 3)
P0164	O2 Sensor Circuit High Voltage (Bank 2, Sensor 3)
P0165	O2 Sensor Circuit Slow Response (Bank 2, Sensor 3)
P0166	O2 Sensor Circuit No Activity Detected (Bank 2, Sensor 3)
P0167	O2 Sensor Heater Circuit (Bank 2, Sensor 3)
P0168	Fuel Temperature Too High
P0169	Incorrect Fuel Composition
P0170	Fuel Trim (Bank 1)
P0171	System Too Lean (Bank 1)
P0172	System Too Rich (Bank 1)
P0173	Fuel Trim (Bank 2)

OBDII Generic Definitions

P0174	System Too Lean (Bank 2)
P0175	System Too Rich (Bank 2)
P0176	Fuel Composition Sensor Circuit
P0177	Fuel Composition Sensor Circuit Range/Performance
P0178	Fuel Composition Sensor Circuit Low
P0179	Fuel Composition Sensor Circuit High
P0180	Fuel Temperature Sensor A Circuit
P0181	Fuel Temperature Sensor A Circuit Range/Performance
P0182	Fuel Temperature Sensor A Circuit Low
P0183	Fuel Temperature Sensor A Circuit High
P0184	Fuel Temperature Sensor A Circuit Intermittent
P0185	Fuel Temperature Sensor B Circuit
P0186	Fuel Temperature Sensor B Circuit Range/Performance
P0187	Fuel Temperature Sensor B Circuit Low
P0188	Fuel Temperature Sensor B Circuit High
P0189	Fuel Temperature Sensor B Circuit Intermittent
P018A	Fuel Pressure Sensor B Circuit
P018B	Fuel Pressure Sensor B Circuit Range/Performance
P018C	Fuel Pressure Sensor B Circuit Low
P018D	Fuel Pressure Sensor B Circuit High
P018E	Fuel Pressure Sensor B Circuit Intermittent/Erratic
P018F	Fuel System Over Pressure Relief Valve Frequent Activation
P0190	Fuel Rail Pressure Sensor A Circuit
P0191	Fuel Rail Pressure Sensor A Circuit Range/Performance
P0192	Fuel Rail Pressure Sensor A Circuit Low
P0193	Fuel Rail Pressure Sensor A Circuit High
P0194	Fuel Rail Pressure Sensor A Circuit Intermittent/Erratic
P0195	Engine Oil Temperature Sensor Circuit
P0196	Engine Oil Temperature Sensor Range/Performance
P0197	Engine Oil Temperature Sensor Circuit Low
P0198	Engine Oil Temperature Sensor Circuit High
P0199	Engine Oil Temperature Sensor Circuit Intermittent/Erratic
P0200	Injector Circuit/Open
P0201	Injector Circuit/Open - Cylinder 1
P0202	Injector Circuit/Open - Cylinder 2
P0203	Injector Circuit/Open - Cylinder 3
P0204	Injector Circuit/Open - Cylinder 4

OBDII Generic Definitions

P0205	Injector Circuit/Open - Cylinder 5
P0206	Injector Circuit/Open - Cylinder 6
P0207	Injector Circuit/Open - Cylinder 7
P0208	Injector Circuit/Open - Cylinder 8
P0209	Injector Circuit/Open - Cylinder 9
P020A	Cylinder 1 Injection Timing
P020B	Cylinder 2 Injection Timing
P020C	Cylinder 3 Injection Timing
P020D	Cylinder 4 Injection Timing
P020E	Cylinder 5 Injection Timing
P020F	Cylinder 6 Injection Timing
P0210	Injector Circuit/Open - Cylinder 10
P0211	Injector Circuit/Open - Cylinder 11
P0212	Injector Circuit/Open - Cylinder 12
P0213	Cold Start Injector 1
P0214	Cold Start Injector 2
P0215	Engine Shutoff Solenoid
P0216	Injector/Injection Timing Control Circuit
P0217	Engine Coolant Over Temperature Condition
P0218	Transmission Fluid Over Temperature Condition
P0219	Engine Overspeed Condition
P021A	Cylinder 7 Injection Timing
P021B	Cylinder 8 Injection Timing
P021C	Cylinder 9 Injection Timing
P021D	Cylinder 10 Injection Timing
P021E	Cylinder 11 Injection Timing
P021F	Cylinder 12 Injection Timing
P0220	Throttle/Pedal Position Sensor/Switch B Circuit
P0221	Throttle/Pedal Position Sensor/Switch B Circuit Range/Performance
P0222	Throttle/Pedal Position Sensor/Switch B Circuit Low
P0223	Throttle/Pedal Position Sensor/Switch B Circuit High
P0224	Throttle/Pedal Position Sensor/Switch B Circuit Intermittent
P0225	Throttle/Pedal Position Sensor/Switch C Circuit
P0226	Throttle/Pedal Position Sensor/Switch C Circuit Range/Performance
P0227	Throttle/Pedal Position Sensor/Switch C Circuit Low
P0228	Throttle/Pedal Position Sensor/Switch C Circuit High
P0229	Throttle/Pedal Position Sensor/Switch C Circuit Intermittent

OBDII Generic Definitions

P022A	Charge Air Cooler Bypass Control A Circuit /Open
P022B	Charge Air Cooler Bypass Control A Circuit Low
P022C	Charge Air Cooler Bypass Control A Circuit High
P022D	Charge Air Cooler Bypass Control B Circuit /Open
P022E	Charge Air Cooler Bypass Control B Circuit Low
P022F	Charge Air Cooler Bypass Control B Circuit High
P0230	Fuel Pump Primary Circuit
P0231	Fuel Pump Secondary Circuit Low
P0232	Fuel Pump Secondary Circuit High
P0233	Fuel Pump Secondary Circuit Intermittent
P0234	Turbocharger/Supercharger A Overboost Condition
P0235	Turbocharger/Supercharger Boost Sensor A Circuit
P0236	Turbocharger/Supercharger Boost Sensor A Circuit Range/Performance
P0237	Turbocharger/Supercharger Boost Sensor A Circuit Low
P0238	Turbocharger/Supercharger Boost Sensor A Circuit High
P0239	Turbocharger/Supercharger Boost Sensor B Circuit
P023A	Charge Air Cooler Coolant Pump Control Circuit/Open
P023B	Charge Air Cooler Coolant Pump Control Circuit Low
P023C	Charge Air Cooler Coolant Pump Control Circuit High
P023D	Manifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor A Correlation
P023E	Manifold Absolute Pressure - Turbocharger/Supercharger Boost Sensor B Correlation
P023F	Fuel Pump Secondary Circuit/Open
P0240	Turbocharger/Supercharger Boost Sensor B Circuit Range/Performance
P0241	Turbocharger/Supercharger Boost Sensor B Circuit Low
P0242	Turbocharger/Supercharger Boost Sensor B Circuit High
P0243	Turbocharger/Supercharger Wastegate Solenoid A
P0244	Turbocharger/Supercharger Wastegate Solenoid A Range/Performance
P0245	Turbocharger/Supercharger Wastegate Solenoid A Low
P0246	Turbocharger/Supercharger Wastegate Solenoid A High
P0247	Turbocharger/Supercharger Wastegate Solenoid B
P0248	Turbocharger/Supercharger Wastegate Solenoid B Range/Performance
P0249	Turbocharger/Supercharger Wastegate Solenoid B Low
P024A	Charge Air Cooler Bypass Control A Range/Performance
P024B	Charge Air Cooler Bypass Control A Stuck
P024C	Charge Air Cooler Bypass Position Sensor A Circuit
P024D	Charge Air Cooler Bypass Position Sensor A Circuit Range/Performance
P024E	Charge Air Cooler Bypass Position Sensor A Circuit Low

OBDII Generic Definitions

P024F	Charge Air Cooler Bypass Position Sensor A Circuit High
P0250	Turbocharger/Supercharger Wastegate Solenoid B High
P0251	Injection Pump Fuel Metering Control A (Cam/Rotor/Injector)
P0252	Injection Pump Fuel Metering Control A Range/Performance (Cam/Rotor/Injector)
P0253	Injection Pump Fuel Metering Control A Low (Cam/Rotor/Injector)
P0254	Injection Pump Fuel Metering Control A High (Cam/Rotor/Injector)
P0255	Injection Pump Fuel Metering Control A Intermittent (Cam/Rotor/Injector)
P0256	Injection Pump Fuel Metering Control B (Cam/Rotor/Injector)
P0257	Injection Pump Fuel Metering Control B Range/Performance (Cam/Rotor/Injector)
P0258	Injection Pump Fuel Metering Control B Low (Cam/Rotor/Injector)
P0259	Injection Pump Fuel Metering Control B High (Cam/Rotor/Injector)
P025A	Fuel Pump Module Control Circuit/Open
P025B	Fuel Pump Module Control Circuit Range/Performance
P025C	Fuel Pump Module Control Circuit Low
P025D	Fuel Pump Module Control Circuit High
P0260	Injection Pump Fuel Metering Control B Intermittent (Cam/Rotor/Injector)
P0261	Cylinder 1 Injector Circuit Low
P0262	Cylinder 1 Injector Circuit High
P0263	Cylinder 1 Contribution/Balance
P0264	Cylinder 2 Injector Circuit Low
P0265	Cylinder 2 Injector Circuit High
P0266	Cylinder 2 Contribution/Balance
P0267	Cylinder 3 Injector Circuit Low
P0268	Cylinder 3 Injector Circuit High
P0269	Cylinder 3 Contribution/Balance
P0270	Cylinder 4 Injector Circuit Low
P0271	Cylinder 4 Injector Circuit High
P0272	Cylinder 4 Contribution/Balance
P0273	Cylinder 5 Injector Circuit Low
P0274	Cylinder 5 Injector Circuit High
P0275	Cylinder 5 Contribution/Balance
P0276	Cylinder 6 Injector Circuit Low
P0277	Cylinder 6 Injector Circuit High
P0278	Cylinder 6 Contribution/Balance
P0279	Cylinder 7 Injector Circuit Low
P0280	Cylinder 7 Injector Circuit High
P0281	Cylinder 7 Contribution/Balance

OBDII Generic Definitions

P0282	Cylinder 8 Injector Circuit Low
P0283	Cylinder 8 Injector Circuit High
P0284	Cylinder 8 Contribution/Balance
P0285	Cylinder 9 Injector Circuit Low
P0286	Cylinder 9 Injector Circuit High
P0287	Cylinder 9 Contribution/Balance
P0288	Cylinder 10 Injector Circuit Low
P0289	Cylinder 10 Injector Circuit High
P0290	Cylinder 10 Contribution/Balance
P0291	Cylinder 11 Injector Circuit Low
P0292	Cylinder 11 Injector Circuit High
P0293	Cylinder 11 Contribution/Balance
P0294	Cylinder 12 Injector Circuit Low
P0295	Cylinder 12 Injector Circuit High
P0296	Cylinder 12 Contribution/Balance
P0297	Vehicle Overspeed Condition
P0298	Engine Oil Over Temperature
P0299	Turbocharger/Supercharger A Underboost Condition
P029A	Cylinder 1 - Fuel Trim at Max Limit
P029B	Cylinder 1 - Fuel Trim at Min Limit
P029C	Cylinder 1 - Injector Restricted
P029D	Cylinder 1 - Injector Leaking
P029E	Cylinder 2 - Fuel Trim at Max Limit
P029F	Cylinder 2 - Fuel Trim at Min Limit
P02A0	Cylinder 2 - Injector Restricted
P02A1	Cylinder 2 - Injector Leaking
P02A2	Cylinder 3 - Fuel Trim at Max Limit
P02A3	Cylinder 3 - Fuel Trim at Min Limit
P02A4	Cylinder 3 - Injector Restricted
P02A5	Cylinder 3 - Injector Leaking
P02A6	Cylinder 4 - Fuel Trim at Max Limit
P02A7	Cylinder 4 - Fuel Trim at Min Limit
P02A8	Cylinder 4 - Injector Restricted
P02A9	Cylinder 4 - Injector Leaking
P02AA	Cylinder 5 - Fuel Trim at Max Limit
P02AB	Cylinder 5 - Fuel Trim at Min Limit
P02AC	Cylinder 5 - Injector Restricted

OBDII Generic Definitions

P02AD	Cylinder 5 - Injector Leaking
P02AE	Cylinder 6 - Fuel Trim at Max Limit
P02AF	Cylinder 6 - Fuel Trim at Min Limit
P02B0	Cylinder 6 - Injector Restricted
P02B1	Cylinder 6 - Injector Leaking
P02B2	Cylinder 7 - Fuel Trim at Max Limit
P02B3	Cylinder 7 - Fuel Trim at Min Limit
P02B4	Cylinder 7 - Injector Restricted
P02B5	Cylinder 7 - Injector Leaking
P02B6	Cylinder 8 - Fuel Trim at Max Limit
P02B7	Cylinder 8 - Fuel Trim at Min Limit
P02B8	Cylinder 8 - Injector Restricted
P02B9	Cylinder 8 - Injector Leaking
P02BA	Cylinder 9 - Fuel Trim at Max Limit
P02BB	Cylinder 9 - Fuel Trim at Min Limit
P02BC	Cylinder 9 - Injector Restricted
P02BD	Cylinder 9 - Injector Leaking
P02BE	Cylinder 10 - Fuel Trim at Max Limit
P02BF	Cylinder 10 - Fuel Trim at Min Limit
P02C0	Cylinder 10 - Injector Restricted
P02C1	Cylinder 10 - Injector Leaking
P02C2	Cylinder 11 - Fuel Trim at Max Limit
P02C3	Cylinder 11 - Fuel Trim at Min Limit
P02C4	Cylinder 11 - Injector Restricted
P02C5	Cylinder 11 - Injector Leaking
P02C6	Cylinder 12 - Fuel Trim at Max Limit
P02C7	Cylinder 12 - Fuel Trim at Min Limit
P02C8	Cylinder 12 - Injector Restricted
P02C9	Cylinder 12 - Injector Leaking
P02CA	Turbocharger/Supercharger B Overboost Condition
P02CB	Turbocharger/Supercharger B Underboost Condition
P02CC	Cylinder 1 Fuel Injector Offset Learning At Min Limit
P02CD	Cylinder 1 Fuel Injector Offset Learning At Max Limit
P02CE	Cylinder 2 Fuel Injector Offset Learning At Min Limit
P02CF	Cylinder 2 Fuel Injector Offset Learning At Max Limit
P02D0	Cylinder 3 Fuel Injector Offset Learning At Min Limit
P02D1	Cylinder 3 Fuel Injector Offset Learning At Max Limit

OBDII Generic Definitions

P02D2	Cylinder 4 Fuel Injector Offset Learning At Min Limit
P02D3	Cylinder 4 Fuel Injector Offset Learning At Max Limit
P02D4	Cylinder 5 Fuel Injector Offset Learning At Min Limit
P02D5	Cylinder 5 Fuel Injector Offset Learning At Max Limit
P02D6	Cylinder 6 Fuel Injector Offset Learning At Min Limit
P02D7	Cylinder 6 Fuel Injector Offset Learning At Max Limit
P02D8	Cylinder 7 Fuel Injector Offset Learning At Min Limit
P02D9	Cylinder 7 Fuel Injector Offset Learning At Max Limit
P02DA	Cylinder 8 Fuel Injector Offset Learning At Min Limit
P02DB	Cylinder 8 Fuel Injector Offset Learning At Max Limit
P02DC	Cylinder 9 Fuel Injector Offset Learning At Min Limit
P02DD	Cylinder 9 Fuel Injector Offset Learning At Max Limit
P02DE	Cylinder 10 Fuel Injector Offset Learning At Min Limit
P02DF	Cylinder 10 Fuel Injector Offset Learning At Max Limit
P02E0	Diesel Intake Air Flow Control Circuit/Open
P02E1	Diesel Intake Air Flow Control Performance
P02E2	Diesel Intake Air Flow Control Circuit Low
P02E3	Diesel Intake Air Flow Control Circuit High
P02E4	Diesel Intake Air Flow Control Stuck Open
P02E5	Diesel Intake Air Flow Control Stuck Closed
P02E6	Diesel Intake Air Flow Position Sensor Circuit
P02E7	Diesel Intake Air Flow Position Sensor Circuit Range/Performance
P02E8	Diesel Intake Air Flow Position Sensor Circuit Low
P02E9	Diesel Intake Air Flow Position Sensor Circuit High
P02EA	Diesel Intake Air Flow Position Sensor Circuit Intermittent/Erratic
P02EB	Diesel Intake Air Flow Control Motor Current Range/Performance
P02EC	Diesel Intake Air Flow Control System - High Air Flow Detected
P02ED	Diesel Intake Air Flow Control System - Low Air Flow Detected
P02EE	Cylinder 1 Injector Circuit Range/Performance
P02EF	Cylinder 2 Injector Circuit Range/Performance
P02F0	Cylinder 3 Injector Circuit Range/Performance
P02F1	Cylinder 4 Injector Circuit Range/Performance
P02F2	Cylinder 5 Injector Circuit Range/Performance
P02F3	Cylinder 6 Injector Circuit Range/Performance
P02F4	Cylinder 7 Injector Circuit Range/Performance
P02F5	Cylinder 8 Injector Circuit Range/Performance
P02F6	Cylinder 9 Injector Circuit Range/Performance

OBDII Generic Definitions

P02F7	Cylinder 10 Injector Circuit Range/Performance
P02F8	Cylinder 11 Injector Circuit Range/Performance
P02F9	Cylinder 12 Injector Circuit Range/Performance
P02FA	Diesel Intake Air Flow Position Sensor Minimum/Maximum Stop Performance
P0300	Random/Multiple Cylinder Misfire Detected
P0301	Cylinder 1 Misfire Detected
P0302	Cylinder 2 Misfire Detected
P0303	Cylinder 3 Misfire Detected
P0304	Cylinder 4 Misfire Detected
P0305	Cylinder 5 Misfire Detected
P0306	Cylinder 6 Misfire Detected
P0307	Cylinder 7 Misfire Detected
P0308	Cylinder 8 Misfire Detected
P0309	Cylinder 9 Misfire Detected
P0310	Cylinder 10 Misfire Detected
P0311	Cylinder 11 Misfire Detected
P0312	Cylinder 12 Misfire Detected
P0313	Misfire Detected With Low Fuel
P0314	Single Cylinder Misfire (Cylinder not Specified)
P0315	Crankshaft Position System Variation Not Learned
P0316	Engine Misfire Detected on Startup (First 1000 Revolutions)
P0317	Rough Road Hardware Not Present
P0318	Rough Road Sensor A Signal Circuit
P0319	Rough Road Sensor B Signal Circuit
P0320	Ignition/Distributor Engine Speed Input Circuit
P0321	Ignition/Distributor Engine Speed Input Circuit Range/Performance
P0322	Ignition/Distributor Engine Speed Input Circuit No Signal
P0323	Ignition/Distributor Engine Speed Input Circuit Intermittent
P0324	Knock Control System Error
P0325	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)
P0326	Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)
P0327	Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)
P0328	Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)
P0329	Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor)
P032A	Knock Sensor 3 Circuit (Bank 1)
P032B	Knock Sensor 3 Circuit Range/Performance (Bank 1)
P032C	Knock Sensor 3 Circuit Low (Bank 1)

OBDII Generic Definitions

P032D	Knock Sensor 3 Circuit High (Bank 1)
P032E	Knock Sensor 3 Circuit Intermittent (Bank 1)
P0330	Knock Sensor 2 Circuit (Bank 2)
P0331	Knock Sensor 2 Circuit Range/Performance (Bank 2)
P0332	Knock Sensor 2 Circuit Low (Bank 2)
P0333	Knock Sensor 2 Circuit High (Bank 2)
P0334	Knock Sensor 2 Circuit Intermittent (Bank 2)
P0335	Crankshaft Position Sensor A Circuit
P0336	Crankshaft Position Sensor A Circuit Range/Performance
P0337	Crankshaft Position Sensor A Circuit Low
P0338	Crankshaft Position Sensor A Circuit High
P0339	Crankshaft Position Sensor A Circuit Intermittent
P033A	Knock Sensor 4 Circuit (Bank 2)
P033B	Knock Sensor 4 Circuit Range/Performance (Bank 2)
P033C	Knock Sensor 4 Circuit Low (Bank 2)
P033D	Knock Sensor 4 Circuit High (Bank 2)
P033E	Knock Sensor 4 Circuit Intermittent (Bank 2)
P0340	Camshaft Position Sensor A Circuit (Bank 1 or Single Sensor)
P0341	Camshaft Position Sensor A Circuit Range/Performance (Bank 1 or Single Sensor)
P0342	Camshaft Position Sensor A Circuit Low (Bank 1 or Single Sensor)
P0343	Camshaft Position Sensor A Circuit High (Bank 1 or Single Sensor)
P0344	Camshaft Position Sensor A Circuit Intermittent (Bank 1 or Single Sensor)
P0345	Camshaft Position Sensor A Circuit (Bank 2)
P0346	Camshaft Position Sensor A Circuit Range/Performance (Bank 2)
P0347	Camshaft Position Sensor A Circuit Low (Bank 2)
P0348	Camshaft Position Sensor A Circuit High (Bank 2)
P0349	Camshaft Position Sensor A Circuit Intermittent (Bank 2)
P0350	Ignition Coil Primary/Secondary Circuit
P0351	Ignition Coil A Primary/Secondary Circuit
P0352	Ignition Coil B Primary/Secondary Circuit
P0353	Ignition Coil C Primary/Secondary Circuit
P0354	Ignition Coil D Primary/Secondary Circuit
P0355	Ignition Coil E Primary/Secondary Circuit
P0356	Ignition Coil F Primary/Secondary Circuit
P0357	Ignition Coil G Primary/Secondary Circuit
P0358	Ignition Coil H Primary/Secondary Circuit
P0359	Ignition Coil I Primary/Secondary Circuit

OBDII Generic Definitions

P0360	Ignition Coil J Primary/Secondary Circuit
P0361	Ignition Coil K Primary/Secondary Circuit
P0362	Ignition Coil L Primary/Secondary Circuit
P0363	Misfire Detected - Fueling Disabled
P0365	Camshaft Position Sensor B Circuit (Bank 1)
P0366	Camshaft Position Sensor B Circuit Range/Performance (Bank 1)
P0367	Camshaft Position Sensor B Circuit Low (Bank 1)
P0368	Camshaft Position Sensor B Circuit High (Bank 1)
P0369	Camshaft Position Sensor B Circuit Intermittent (Bank 1)
P0370	Timing Reference High Resolution Signal A
P0371	Timing Reference High Resolution Signal A Too Many Pulses
P0372	Timing Reference High Resolution Signal A Too Few Pulses
P0373	Timing Reference High Resolution Signal A Intermittent/Erratic Pulses
P0374	Timing Reference High Resolution Signal A No Pulses
P0375	Timing Reference High Resolution Signal B
P0376	Timing Reference High Resolution Signal B Too Many Pulses
P0377	Timing Reference High Resolution Signal B Too Few Pulses
P0378	Timing Reference High Resolution Signal B Intermittent/Erratic Pulses
P0379	Timing Reference High Resolution Signal B No Pulses
P037D	Glow Plug Sense Circuit
P037E	Glow Plug Sense Circuit Low
P037F	Glow Plug Sense Circuit High
P0380	Glow Plug/Heater Circuit A
P0381	Glow Plug/Heater Indicator Circuit
P0382	Glow Plug/Heater Circuit B
P0383	Glow Plug Control Module Control Circuit Low
P0384	Glow Plug Control Module Control Circuit High
P0385	Crankshaft Position Sensor B Circuit
P0386	Crankshaft Position Sensor B Circuit Range/Performance
P0387	Crankshaft Position Sensor B Circuit Low
P0388	Crankshaft Position Sensor B Circuit High
P0839	Four Wheel Drive (4WD) Switch Circuit High
P0390	Camshaft Position Sensor B Circuit (Bank 2)
P0391	Camshaft Position Sensor B Circuit Range/Performance (Bank 2)
P0392	Camshaft Position Sensor B Circuit Low (Bank 2)
P0393	Camshaft Position Sensor B Circuit High (Bank 2)
P0394	Camshaft Position Sensor B Circuit Intermittent (Bank 2)

OBDII Generic Definitions

P0400	Exhaust Gas Recirculation A Flow
P0401	Exhaust Gas Recirculation A Flow Insufficient Detected
P0402	Exhaust Gas Recirculation A Flow Excessive Detected
P0403	Exhaust Gas Recirculation A Control Circuit
P0404	Exhaust Gas Recirculation A Control Circuit Range/Performance
P0405	Exhaust Gas Recirculation Sensor A Circuit Low
P0406	Exhaust Gas Recirculation Sensor A Circuit High
P0407	Exhaust Gas Recirculation Sensor B Circuit Low
P0408	Exhaust Gas Recirculation Sensor B Circuit High
P0409	Exhaust Gas Recirculation Sensor A Circuit
P040A	Exhaust Gas Recirculation Temperature Sensor A Circuit
P040B	Exhaust Gas Recirculation Temperature Sensor A Circuit Range/Performance
P040C	Exhaust Gas Recirculation Temperature Sensor A Circuit Low
P040D	Exhaust Gas Recirculation Temperature Sensor A Circuit High
P040E	Exhaust Gas Recirculation Temperature Sensor A Circuit Intermittent/Erratic
P040F	Exhaust Gas Recirculation Temperature Sensor A/B Correlation
P0410	Secondary Air Injection System
P0411	Secondary Air Injection System Incorrect Flow Detected
P0412	Secondary Air Injection System Switching Valve A Circuit
P0413	Secondary Air Injection System Switching Valve A Circuit Open
P0414	Secondary Air Injection System Switching Valve A Circuit Shorted
P0415	Secondary Air Injection System Switching Valve B Circuit
P0416	Secondary Air Injection System Switching Valve B Circuit Open
P0417	Secondary Air Injection System Switching Valve B Circuit Shorted
P0418	Secondary Air Injection System Control A Circuit
P0419	Secondary Air Injection System Control B Circuit
P041A	Exhaust Gas Recirculation Temperature Sensor B Circuit
P041B	Exhaust Gas Recirculation Temperature Sensor B Circuit Range/Performance
P041C	Exhaust Gas Recirculation Temperature Sensor B Circuit Low
P041D	Exhaust Gas Recirculation Temperature Sensor B Circuit High
P041E	Exhaust Gas Recirculation Temperature Sensor B Circuit Intermittent/Erratic
P041F	Secondary Air Injection System Switching Valve A Circuit Low
P0420	Catalyst System Efficiency Below Threshold (Bank 1)
P0421	Warm Up Catalyst Efficiency Below Threshold (Bank 1)
P0422	Main Catalyst Efficiency Below Threshold (Bank 1)
P0423	Heated Catalyst Efficiency Below Threshold (Bank 1)
P0424	Heated Catalyst Temperature Below Threshold (Bank 1)

OBDII Generic Definitions

P0425	Catalyst Temperature Sensor Circuit (Bank 1, Sensor 1)
P0426	Catalyst Temperature Sensor Circuit Range/Performance (Bank 1, Sensor 1)
P0427	Catalyst Temperature Sensor Circuit Low (Bank 1, Sensor 1)
P0428	Catalyst Temperature Sensor Circuit High (Bank 1, Sensor 1)
P0429	Catalyst Heater Control Circuit (Bank 1)
P042A	Catalyst Temperature Sensor Circuit (Bank 1, Sensor 2)
P042B	Catalyst Temperature Sensor Circuit Range/Performance (Bank 1, Sensor 2)
P042C	Catalyst Temperature Sensor Circuit Low (Bank 1, Sensor 2)
P042D	Catalyst Temperature Sensor Circuit High (Bank 1, Sensor 2)
P042E	Exhaust Gas Recirculation A Control Stuck Open
P042F	Exhaust Gas Recirculation A Control Stuck Closed
P0430	Catalyst System Efficiency Below Threshold (Bank 2)
P0431	Warm Up Catalyst Efficiency Below Threshold (Bank 2)
P0432	Main Catalyst Efficiency Below Threshold (Bank 2)
P0433	Heated Catalyst Efficiency Below Threshold (Bank 2)
P0434	Heated Catalyst Temperature Below Threshold (Bank 2)
P0435	Catalyst Temperature Sensor Circuit (Bank 2, Sensor 1)
P0436	Catalyst Temperature Sensor Circuit Range/Performance (Bank 2, Sensor 1)
P0437	Catalyst Temperature Sensor Circuit Low (Bank 2, Sensor 1)
P0438	Catalyst Temperature Sensor Circuit High (Bank 2, Sensor 1)
P0439	Catalyst Heater Control Circuit (Bank 2)
P043A	Catalyst Temperature Sensor Circuit (Bank 2, Sensor 2)
P043B	Catalyst Temperature Sensor Circuit Range/Performance (Bank 2, Sensor 2)
P043C	Catalyst Temperature Sensor Circuit Low (Bank 2, Sensor 2)
P043D	Catalyst Temperature Sensor Circuit High (Bank 2, Sensor 2)
P043E	Evaporative Emission System Leak Detection Reference Orifice Low Flow
P043F	Evaporative Emission System Leak Detection Reference Orifice High Flow
P0440	Evaporative Emission System
P0441	Evaporative Emission System Incorrect Purge Flow
P0442	Evaporative Emission System Leak Detected (small leak)
P0443	Evaporative Emission System Purge Control Valve Circuit
P0444	Evaporative Emission System Purge Control Valve Circuit Open
P0445	Evaporative Emission System Purge Control Valve Circuit Shorted
P0446	Evaporative Emission System Vent Control Circuit
P0447	Evaporative Emission System Vent Control Circuit Open
P0448	Evaporative Emission System Vent Control Circuit Shorted
P0449	Evaporative Emission System Vent Valve/Solenoid Circuit

OBDII Generic Definitions

P044A	Exhaust Gas Recirculation Sensor C Circuit
P044B	Exhaust Gas Recirculation Sensor C Circuit Range/Performance
P044C	Exhaust Gas Recirculation Sensor C Circuit Low
P044D	Exhaust Gas Recirculation Sensor C Circuit High
P044E	Exhaust Gas Recirculation Sensor C Circuit Intermittent/Erratic
P044F	Secondary Air Injection System Switching Valve A Circuit High
P0450	Evaporative Emission System Pressure Sensor/Switch
P0451	Evaporative Emission System Pressure Sensor/Switch Range/Performance
P0452	Evaporative Emission System Pressure Sensor/Switch Low
P0453	Evaporative Emission System Pressure Sensor/Switch High
P0454	Evaporative Emission System Pressure Sensor/Switch Intermittent
P0455	Evaporative Emission System Leak Detected (large leak)
P0456	Evaporative Emission System Leak Detected (very small leak)
P0457	Evaporative Emission System Leak Detected (fuel cap loose/off)
P0458	Evaporative Emission System Purge Control Valve Circuit Low
P0459	Evaporative Emission System Purge Control Valve Circuit High
P045A	Exhaust Gas Recirculation B Control Circuit
P045B	Exhaust Gas Recirculation B Control Circuit Range/Performance
P045C	Exhaust Gas Recirculation B Control Circuit Low
P045D	Exhaust Gas Recirculation B Control Circuit High
P045E	Exhaust Gas Recirculation B Control Stuck Open
P045F	Exhaust Gas Recirculation B Control Stuck Closed
P0460	Fuel Level Sensor A Circuit
P0461	Fuel Level Sensor A Circuit Range/Performance
P0462	Fuel Level Sensor A Circuit Low
P0463	Fuel Level Sensor A Circuit High
P0464	Fuel Level Sensor A Circuit Intermittent
P0465	EVAP Purge Flow Sensor Circuit
P0466	EVAP Purge Flow Sensor Circuit Range/Performance
P0467	EVAP Purge Flow Sensor Circuit Low
P0468	EVAP Purge Flow Sensor Circuit High
P0469	EVAP Purge Flow Sensor Circuit Intermittent
P046A	Catalyst Temperature Sensor 1/2 Correlation (Bank 1)
P046B	Catalyst Temperature Sensor 1/2 Correlation (Bank 2)
P046C	Exhaust Gas Recirculation Sensor A Circuit Range/Performance
P046D	Exhaust Gas Recirculation Sensor A Circuit Intermittent/Erratic
P046E	Exhaust Gas Recirculation Sensor B Circuit Range/Performance

OBDII Generic Definitions

P046F	Exhaust Gas Recirculation Sensor B Circuit Intermittent/Erratic
P0470	Exhaust Pressure Sensor A Circuit
P0471	Exhaust Pressure Sensor A Circuit Range/Performance
P0472	Exhaust Pressure Sensor A Circuit Low
P0473	Exhaust Pressure Sensor A Circuit High
P0474	Exhaust Pressure Sensor A Circuit Intermittent/Erratic
P0475	Exhaust Pressure Control Valve A Circuit
P0476	Exhaust Pressure Control Valve A Circuit Range/Performance
P0477	Exhaust Pressure Control Valve A Circuit Low
P0478	Exhaust Pressure Control Valve A Circuit High
P0479	Exhaust Pressure Control Valve A Circuit Intermittent/Erratic
P047A	Exhaust Pressure Sensor B Circuit
P047B	Exhaust Pressure Sensor B Circuit Range/Performance
P047C	Exhaust Pressure Sensor B Circuit Low
P047D	Exhaust Pressure Sensor B Circuit High
P047E	Exhaust Pressure Sensor B Circuit Intermittent/Erratic
P047F	Exhaust Pressure Control Valve A Stuck Open
P0480	Fan 1 Control Circuit
P0481	Fan 2 Control Circuit
P0482	Fan 3 Control Circuit
P0483	Fan Rationality Check
P0484	Fan Circuit Over Current
P0485	Fan Power/Ground Circuit
P0486	Exhaust Gas Recirculation Sensor B Circuit
P0487	Exhaust Gas Recirculation Throttle Control Circuit A /Open
P0488	Exhaust Gas Recirculation Throttle Control Circuit A Range/Performance
P0489	Exhaust Gas Recirculation A Control Circuit Low
P048A	Exhaust Pressure Control Valve A Stuck Closed
P048B	Exhaust Pressure Control Valve Position Sensor/Switch Circuit
P048C	Exhaust Pressure Control Valve Position Sensor/Switch Circuit Range/Performance
P048D	Exhaust Pressure Control Valve Position Sensor/Switch Circuit Low
P048E	Exhaust Pressure Control Valve Position Sensor/Switch Circuit High
P048F	Exhaust Pressure Control Valve Position Sensor/Switch Circuit Intermittent/Erratic
P0490	Exhaust Gas Recirculation A Control Circuit High
P0491	Secondary Air Injection System Insufficient Flow (Bank 1)
P0492	Secondary Air Injection System Insufficient Flow (Bank 2)
P0493	Fan Overspeed

OBDII Generic Definitions

P0494	Fan Speed Low
P0495	Fan Speed High
P0496	Evaporative Emission System High Purge Flow
P0497	Evaporative Emission System Low Purge Flow
P0498	Evaporative Emission System Vent Valve Control Circuit Low
P0499	Evaporative Emission System Vent Valve Control Circuit High
P049A	Exhaust Gas Recirculation B Flow
P049B	Exhaust Gas Recirculation B Flow Insufficient Detected
P049C	Exhaust Gas Recirculation B Flow Excessive Detected
P049D	Exhaust Gas Recirculation A Control Position Exceeded Learning Limit
P049E	Exhaust Gas Recirculation B Control Position Exceeded Learning Limit
P049F	Exhaust Pressure Control Valve B
P04A0	Exhaust Pressure Control Valve B Range/Performance
P04A1	Exhaust Pressure Control Valve B Low
P04A2	Exhaust Pressure Control Valve B High
P04A3	Exhaust Pressure Control Valve B Intermittent
P04A4	Exhaust Pressure Control Valve B Stuck Open
P04A5	Exhaust Pressure Control Valve B Stuck Closed
P04A6	Exhaust Pressure Control Valve B Position Sensor/Switch Circuit
P04A7	Exhaust Pressure Control Valve B Position Sensor/Switch Circuit Range/Performance
P04A8	Exhaust Pressure Control Valve B Position Sensor/Switch Circuit Low
P04A9	Exhaust Pressure Control Valve B Position Sensor/Switch Circuit High
P04AA	Exhaust Pressure Control Valve B Position Sensor/Switch Circuit Intermittent/Erratic
P0500	Vehicle Speed Sensor A
P0501	Vehicle Speed Sensor A Range/Performance
P0502	Vehicle Speed Sensor A Circuit Low
P0503	Vehicle Speed Sensor A Intermittent/Erratic/High
P0504	Brake Switch A/B Correlation
P0505	Idle Air Control System
P0506	Idle Air Control System RPM Lower Than Expected
P0507	Idle Air Control System RPM Higher Than Expected
P0508	Idle Air Control System Circuit Low
P0509	Idle Air Control System Circuit High
P050A	Cold Start Idle Air Control System Performance
P050B	Cold Start Ignition Timing Performance
P050C	Cold Start Engine Coolant Temperature Performance
P050D	Cold Start Rough Idle

OBDII Generic Definitions

P050E	Cold Start Engine Exhaust Temperature Out of Range
P050F	Brake Assist Vacuum Too Low
P0510	Closed Throttle Position Switch
P0511	Idle Air Control Circuit
P0512	Starter Request Circuit
P0513	Incorrect Immobilizer Key
P0514	Battery Temperature Sensor Circuit Range/Performance
P0515	Battery Temperature Sensor Circuit
P0516	Battery Temperature Sensor Circuit Low
P0517	Battery Temperature Sensor Circuit High
P0518	Idle Air Control Circuit Intermittent
P0519	Idle Air Control System Performance
P051A	Crankcase Pressure Sensor Circuit
P051B	Crankcase Pressure Sensor Circuit Range/Performance
P051C	Crankcase Pressure Sensor Circuit Low
P051D	Crankcase Pressure Sensor Circuit High
P051E	Crankcase Pressure Sensor Circuit Intermittent/Erratic
P051F	Positive Crankcase Ventilation Filter Restriction
P0520	Engine Oil Pressure Sensor/Switch Circuit
P0521	Engine Oil Pressure Sensor/Switch Range/Performance
P0522	Engine Oil Pressure Sensor/Switch Low
P0523	Engine Oil Pressure Sensor/Switch High
P0524	Engine Oil Pressure Too Low
P0525	Cruise Control Servo Control Circuit Range/Performance
P0526	Fan Speed Sensor Circuit
P0527	Fan Speed Sensor Circuit Range/Performance
P0528	Fan Speed Sensor Circuit No Signal
P0529	Fan Speed Sensor Circuit Intermittent
P052A	Cold Start A Camshaft Position Timing Over-Advanced (Bank 1)
P052B	Cold Start A Camshaft Position Timing Over-Retarded (Bank 1)
P052C	Cold Start A Camshaft Position Timing Over-Advanced (Bank 2)
P052D	Cold Start A Camshaft Position Timing Over-Retarded (Bank 2)
P052E	Positive Crankcase Ventilation Regulator Valve Performance
P0530	A/C Refrigerant Pressure Sensor A Circuit
P0531	A/C Refrigerant Pressure Sensor A Circuit Range/Performance
P0532	A/C Refrigerant Pressure Sensor A Circuit Low
P0533	A/C Refrigerant Pressure Sensor A Circuit High

OBDII Generic Definitions

P0534	A/C Refrigerant Charge Loss
P0535	A/C Evaporator Temperature Sensor Circuit
P0536	A/C Evaporator Temperature Sensor Circuit Range/Performance
P0537	A/C Evaporator Temperature Sensor Circuit Low
P0538	A/C Evaporator Temperature Sensor Circuit High
P0539	A/C Evaporator Temperature Sensor Circuit Intermittent
P053A	Positive Crankcase Ventilation Heater Control Circuit /Open
P053B	Positive Crankcase Ventilation Heater Control Circuit Low
P053C	Positive Crankcase Ventilation Heater Control Circuit High
P0540	Intake Air Heater A Circuit
P0541	Intake Air Heater A Circuit Low
P0542	Intake Air Heater A Circuit High
P0543	Intake Air Heater A Circuit Open
P0544	Exhaust Gas Temperature Sensor Circuit (Bank 1, Sensor 1)
P0545	Exhaust Gas Temperature Sensor Circuit Low (Bank 1, Sensor 1)
P0546	Exhaust Gas Temperature Sensor Circuit High (Bank 1, Sensor 1)
P0547	Exhaust Gas Temperature Sensor Circuit (Bank 2, Sensor 1)
P0548	Exhaust Gas Temperature Sensor Circuit Low (Bank 2, Sensor 1)
P0549	Exhaust Gas Temperature Sensor Circuit High (Bank 2, Sensor 1)
P054A	Cold Start B Camshaft Position Timing Over-Advanced (Bank 1)
P054B	Cold Start B Camshaft Position Timing Over-Retarded (Bank 1)
P054C	Cold Start B Camshaft Position Timing Over-Advanced (Bank 2)
P054D	Cold Start B Camshaft Position Timing Over-Retarded (Bank 2)
P0550	Power Steering Pressure Sensor/Switch Circuit
P0551	Power Steering Pressure Sensor/Switch Circuit Range/Performance
P0552	Power Steering Pressure Sensor/Switch Circuit Low
P0553	Power Steering Pressure Sensor/Switch Circuit High
P0554	Power Steering Pressure Sensor/Switch Circuit Intermittent
P0555	Brake Booster Pressure Sensor Circuit
P0556	Brake Booster Pressure Sensor Circuit Range/Performance
P0557	Brake Booster Pressure Sensor Circuit Low
P0558	Brake Booster Pressure Sensor Circuit High
P0559	Brake Booster Pressure Sensor Circuit Intermittent
P0560	System Voltage
P0561	System Voltage Unstable
P0562	System Voltage Low
P0563	System Voltage High

OBDII Generic Definitions

P0564	Cruise Control Multi-Function Input A Circuit
P0565	Cruise Control On Signal
P0566	Cruise Control Off Signal
P0567	Cruise Control Resume Signal
P0568	Cruise Control Set Signal
P0569	Cruise Control Coast Signal
P056A	Cruise Control Increase Distance Signal
P056B	Cruise Control Decrease Distance Signal
P0570	Cruise Control Accelerate Signal
P0571	Brake Switch A Circuit
P0572	Brake Switch A Circuit Low
P0573	Brake Switch A Circuit High
P0574	Cruise Control System - Vehicle Speed Too High
P0575	Cruise Control Input Circuit
P0576	Cruise Control Input Circuit Low
P0577	Cruise Control Input Circuit High
P0578	Cruise Control Multi-Function Input A Circuit Stuck
P0579	Cruise Control Multi-Function Input A Circuit Range/Performance
P0580	Cruise Control Multi-Function Input A Circuit Low
P0581	Cruise Control Multi-Function Input A Circuit High
P0582	Cruise Control Vacuum Control Circuit/Open
P0583	Cruise Control Vacuum Control Circuit Low
P0584	Cruise Control Vacuum Control Circuit High
P0585	Cruise Control Multi-Function Input A/B Correlation
P0586	Cruise Control Vent Control Circuit/Open
P0587	Cruise Control Vent Control Circuit Low
P0588	Cruise Control Vent Control Circuit High
P0589	Cruise Control Multi-Function Input B Circuit
P0590	Cruise Control Multi-Function Input B Circuit Stuck
P0591	Cruise Control Multi-Function Input B Circuit Range/Performance
P0592	Cruise Control Multi-Function Input B Circuit Low
P0593	Cruise Control Multi-Function Input B Circuit High
P0594	Cruise Control Servo Control Circuit/Open
P0595	Cruise Control Servo Control Circuit Low
P0596	Cruise Control Servo Control Circuit High
P0597	Thermostat Heater Control Circuit/Open
P0598	Thermostat Heater Control Circuit Low

OBDII Generic Definitions

P0599	Thermostat Heater Control Circuit High
P0600	Serial Communication Link
P0601	Internal Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	Internal Control Module Keep Alive Memory (KAM) Error
P0604	Internal Control Module Random Access Memory (RAM) Error
P0605	Internal Control Module Read Only Memory (ROM) Error
P0606	Control Module Processor
P0607	Control Module Performance
P0608	Control Module VSS Output A
P0609	Control Module VSS Output B
P060A	Internal Control Module Monitoring Processor Performance
P060B	Internal Control Module A/D Processing Performance
P060C	Internal Control Module Main Processor Performance
P060D	Internal Control Module Accelerator Pedal Position Performance
P060E	Internal Control Module Throttle Position Performance
P060F	Internal Control Module Coolant Temperature Performance
P0610	Control Module Vehicle Options Error
P0611	Fuel Injector Control Module Performance
P0612	Fuel Injector Control Module Relay Control
P0613	TCU Processor
P0614	ECM/TCU Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High
P0618	Alternative Fuel Control Module KAM Error
P0619	Alternative Fuel Control Module RAM/ROM Error
P061A	Internal Control Module Torque Performance
P061B	Internal Control Module Torque Calculation Performance
P061C	Internal Control Module Engine RPM Performance
P061D	Internal Control Module Engine Air Mass Performance
P061E	Internal Control Module Brake Signal Performance
P061F	Internal Control Module Throttle Actuator Controller Performance
P0620	Generator Control Circuit
P0621	Generator Lamp/L Terminal Circuit
P0622	Generator Field/F Terminal Circuit
P0623	Generator Lamp Control Circuit

OBDII Generic Definitions

P0624	Fuel Cap Lamp Control Circuit
P0625	Generator Field/F Terminal Circuit Low
P0626	Generator Field/F Terminal Circuit High
P0627	Fuel Pump A Control Circuit/Open
P0628	Fuel Pump A Control Circuit Low
P0629	Fuel Pump A Control Circuit High
P062A	Fuel Pump A Control Circuit Range/Performance
P062B	Internal Control Module Fuel Injector Control Performance
P062C	Internal Control Module Vehicle Speed Performance
P062D	Fuel Injector Driver Circuit Performance (Bank 1)
P062E	Fuel Injector Driver Circuit Performance (Bank 2)
P062F	Internal Control Module EEPROM Error
P0630	VIN Not Programmed or Incompatible - ECM/PCM
P0631	VIN Not Programmed or Incompatible - TCU
P0632	Odometer Not Programmed - ECM/PCM
P0633	Immobilizer Key Not Programmed - ECM/PCM
P0634	PCM/ECM/TCU Internal Temperature A Too High
P0635	Power Steering Control Circuit
P0636	Power Steering Control Circuit Low
P0637	Power Steering Control Circuit High
P0638	Throttle Actuator Control Range/Performance (Bank 1)
P0639	Throttle Actuator Control Range/Performance (Bank 2)
P063A	Generator Voltage Sense Circuit
P063B	Generator Voltage Sense Circuit Range/Performance
P063C	Generator Voltage Sense Circuit Low
P063D	Generator Voltage Sense Circuit High
P063E	Auto Configuration Throttle Input Not Present
P063F	Auto Configuration Engine Coolant Temperature Input Not Present
P0640	Intake Air Heater Control Circuit
P0641	Sensor Reference Voltage A Circuit/Open
P0642	Sensor Reference Voltage A Circuit Low
P0643	Sensor Reference Voltage A Circuit High
P0644	Driver Display Serial Communication Circuit
P0645	A/C Clutch Relay Control Circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0648	Immobilizer Lamp Control Circuit

OBDII Generic Definitions

P0649	Speed Control Lamp Control Circuit
P064A	Fuel Pump Control Module
P064B	PTO Control Module
P064C	Glow Plug Control Module
P064D	Internal Control Module O2 Sensor Processor Performance (Bank 1)
P064E	Internal Control Module O2 Sensor Processor Performance (Bank 2)
P064F	Unauthorized Software/Calibration Detected
P0650	Malfunction Indicator Lamp (MIL) Control Circuit
P0651	Sensor Reference Voltage B Circuit/Open
P0652	Sensor Reference Voltage B Circuit Low
P0653	Sensor Reference Voltage B Circuit High
P0654	Engine RPM Output Circuit
P0656	Fuel Level Output Circuit
P0657	Actuator Supply Voltage A Circuit/Open
P0658	Actuator Supply Voltage A Circuit Low
P0659	Actuator Supply Voltage A Circuit High
P065A	Generator System Performance
P065B	Generator Control Circuit Range/Performance
P065C	Generator Mechanical Performance
P065D	Reductant System Malfunction Lamp Control Circuit
P065E	Intake Manifold Tuning Valve Performance (Bank 1)
P065F	Intake Manifold Tuning Valve Performance (Bank 2)
P0660	Intake Manifold Tuning Valve Control Circuit/Open (Bank 1)
P0661	Intake Manifold Tuning Valve Control Circuit Low (Bank 1)
P0662	Intake Manifold Tuning Valve Control Circuit High (Bank 1)
P0663	Intake Manifold Tuning Valve Control Circuit/Open (Bank 2)
P0664	Intake Manifold Tuning Valve Control Circuit Low (Bank 2)
P0665	Intake Manifold Tuning Valve Control Circuit High (Bank 2)
P0666	PCM/ECM/TCU Internal Temperature Sensor A Circuit
P0667	PCM/ECM/TCU Internal Temperature Sensor A Range/Performance
P0668	PCM/ECM/TCU Internal Temperature Sensor A Circuit Low
P0669	PCM/ECM/TCU Internal Temperature Sensor A Circuit High
P066A	Cylinder 1 Glow Plug Control Circuit Low
P066B	Cylinder 1 Glow Plug Control Circuit High
P066C	Cylinder 2 Glow Plug Control Circuit Low
P066D	Cylinder 2 Glow Plug Control Circuit High
P066E	Cylinder 3 Glow Plug Control Circuit Low

OBDII Generic Definitions

P066F	Cylinder 3 Glow Plug Control Circuit High
P0670	Glow Plug Control Module Control Circuit/Open
P0671	Cylinder 1 Glow Plug Circuit/Open
P0672	Cylinder 2 Glow Plug Circuit/Open
P0673	Cylinder 3 Glow Plug Circuit/Open
P0674	Cylinder 4 Glow Plug Circuit/Open
P0675	Cylinder 5 Glow Plug Circuit/Open
P0676	Cylinder 6 Glow Plug Circuit/Open
P0677	Cylinder 7 Glow Plug Circuit/Open
P0678	Cylinder 8 Glow Plug Circuit/Open
P0679	Cylinder 9 Glow Plug Circuit/Open
P067A	Cylinder 4 Glow Plug Control Circuit Low
P067B	Cylinder 4 Glow Plug Control Circuit High
P067D	Cylinder 5 Glow Plug Control Circuit High
P067E	Cylinder 6 Glow Plug Control Circuit Low
P067F	Cylinder 6 Glow Plug Control Circuit High
P0680	Cylinder 10 Glow Plug Circuit/Open
P0681	Cylinder 11 Glow Plug Circuit/Open
P0682	Cylinder 12 Glow Plug Circuit/Open
P0683	Glow Plug Control Module to PCM Communication Circuit
P0684	Glow Plug Control Module to PCM Communication Circuit Range/Performance
P0685	ECM/PCM Power Relay Control Circuit/Open
P0686	ECM/PCM Power Relay Control Circuit Low
P0687	ECM/PCM Power Relay Control Circuit High
P0688	ECM/PCM Power Relay Sense Circuit/Open
P0689	ECM/PCM Power Relay Sense Circuit Low
P068A	ECM/PCM Power Relay De-Energized Performance - Too Early
P068B	ECM/PCM Power Relay De-Energized Performance - Too Late
P068C	Cylinder 7 Glow Plug Control Circuit Low
P068D	Cylinder 7 Glow Plug Control Circuit High
P068E	Cylinder 8 Glow Plug Control Circuit Low
P068F	Cylinder 8 Glow Plug Control Circuit High
P0690	ECM/PCM Power Relay Sense Circuit High
P0691	Fan 1 Control Circuit Low
P0692	Fan 1 Control Circuit High
P0693	Fan 2 Control Circuit Low
P0694	Fan 2 Control Circuit High

OBDII Generic Definitions

P0695	Fan 3 Control Circuit Low
P0696	Fan 3 Control Circuit High
P0697	Sensor Reference Voltage C Circuit/Open
P0698	Sensor Reference Voltage C Circuit Low
P0699	Sensor Reference Voltage C Circuit High
P069A	Cylinder 9 Glow Plug Control Circuit Low
P069B	Cylinder 9 Glow Plug Control Circuit High
P069C	Cylinder 10 Glow Plug Control Circuit Low
P069D	Cylinder 10 Glow Plug Control Circuit High
P069E	Fuel Pump Control Module Requested MIL Illumination
P069F	Throttle Actuator Control Lamp Control Circuit
P06A0	Variable A/C Compressor Control Circuit
P06A1	Variable A/C Compressor Control Circuit Low
P06A2	Variable A/C Compressor Control Circuit High
P06A3	Sensor Reference Voltage D Circuit/Open
P06A4	Sensor Reference Voltage D Circuit Low
P06A5	Sensor Reference Voltage D Circuit High
P06A6	Sensor Reference Voltage A Circuit Range/Performance
P06A7	Sensor Reference Voltage B Circuit Range/Performance
P06A8	Sensor Reference Voltage C Circuit Range/Performance
P06A9	Sensor Reference Voltage D Circuit Range/Performance
P06AA	PCM/ECM/TCU Internal Temperature B Too High
P06AB	PCM/ECM/TCU Internal Temperature Sensor B Circuit
P06AC	PCM/ECM/TCU Internal Temperature Sensor B Range/Performance
P06AD	PCM/ECM/TCU Internal Temperature Sensor B Circuit Low
P06AE	PCM/ECM/TCU Internal Temperature Sensor B Circuit High
P06AF	Torque Management System - Forced Engine Shutdown
P06B0	Sensor Power Supply A Circuit/Open
P06B1	Sensor Power Supply A Circuit Low
P06B2	Sensor Power Supply A Circuit High
P06B3	Sensor Power Supply B Circuit/Open
P06B4	Sensor Power Supply B Circuit Low
P06B5	Sensor Power Supply B Circuit High
P06B6	Internal Control Module Knock Sensor Processor 1 Performance
P06B7	Internal Control Module Knock Sensor Processor 2 Performance
P06B8	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error
P06B9	Cylinder 1 Glow Plug Circuit Range/Performance

OBDII Generic Definitions

P06BA	Cylinder 2 Glow Plug Circuit Range/Performance
P0B6B	Hybrid Battery Voltage Sense J Circuit High
P06BC	Cylinder 4 Glow Plug Circuit Range/Performance
P06BD	Cylinder 5 Glow Plug Circuit Range/Performance
P06BE	Cylinder 6 Glow Plug Circuit Range/Performance
P06BF	Cylinder 7 Glow Plug Circuit Range/Performance
P06C0	Cylinder 8 Glow Plug Circuit Range/Performance
P06C1	Cylinder 9 Glow Plug Circuit Range/Performance
P06C2	Cylinder 10 Glow Plug Circuit Range/Performance
P06C3	Cylinder 11 Glow Plug Circuit Range/Performance
P06C4	Cylinder 12 Glow Plug Circuit Range/Performance
P06C5	Cylinder 1 Glow Plug Incorrect
P06C6	Cylinder 2 Glow Plug Incorrect
P06C7	Cylinder 3 Glow Plug Incorrect
P06C8	Cylinder 4 Glow Plug Incorrect
P06C9	Cylinder 5 Glow Plug Incorrect
P06CA	Cylinder 6 Glow Plug Incorrect
P06CB	Cylinder 7 Glow Plug Incorrect
P06CC	Cylinder 8 Glow Plug Incorrect
P06CD	Cylinder 9 Glow Plug Incorrect
P06CE	Cylinder 10 Glow Plug Incorrect
P06CF	Cylinder 11 Glow Plug Incorrect
P06D0	Cylinder 12 Glow Plug Incorrect
P06D1	Internal Control Module Ignition Coil Control Performance
P0700	Transmission Control System (MIL Request)
P0701	Transmission Control System Range/Performance
P0702	Transmission Control System Electrical
P0703	Brake Switch B Circuit
P0704	Clutch Switch Input Circuit
P0705	Transmission Range Sensor A Circuit (PRNDL Input)
P0706	Transmission Range Sensor A Circuit Range/Performance
P0707	Transmission Range Sensor A Circuit Low
P0708	Transmission Range Sensor A Circuit High
P0709	Transmission Range Sensor A Circuit Intermittent
P070A	Transmission Fluid Level Sensor Circuit
P070B	Transmission Fluid Level Sensor Circuit Range/Performance
P070C	Transmission Fluid Level Sensor Circuit Low

OBDII Generic Definitions

P070D	Transmission Fluid Level Sensor Circuit High
P070E	Transmission Fluid Level Sensor Circuit intermittent/Erratic
P070F	Transmission Fluid Level Too Low
P0710	Transmission Fluid Temperature Sensor A Circuit
P0711	Transmission Fluid Temperature Sensor A Circuit Range/Performance
P0712	Transmission Fluid Temperature Sensor A Circuit Low
P0713	Transmission Fluid Temperature Sensor A Circuit High
P0714	Transmission Fluid Temperature Sensor A Circuit Intermittent
P0715	Input/Turbine Speed Sensor A Circuit
P0716	Input/Turbine Speed Sensor A Circuit Range/Performance
P0717	Input/Turbine Speed Sensor A Circuit No Signal
P0718	Input/Turbine Speed Sensor A Circuit Intermittent
P0719	Brake Switch B Circuit Low
P071A	Transmission Mode Switch A Circuit
P071B	Transmission Mode Switch A Circuit Low
P071C	Transmission Mode Switch A Circuit High
P071D	Transmission Mode Switch B Circuit
P071E	Transmission Mode Switch B Circuit Low
P071F	Transmission Mode Switch B Circuit High
P0720	Output Speed Sensor Circuit
P0721	Output Speed Sensor Circuit Range/Performance
P0722	Output Speed Sensor Circuit No Signal
P0723	Output Speed Sensor Circuit Intermittent
P0724	Brake Switch B Circuit High
P0725	Engine Speed Input Circuit
P0726	Engine Speed Input Circuit Range/Performance
P0727	Engine Speed Input Circuit No Signal
P0728	Engine Speed Input Circuit Intermittent
P0729	Gear 6 Incorrect Ratio
P072A	Stuck in Neutral
P072B	Stuck In Reverse
P072C	Stuck in Gear 1
P072D	Stuck in Gear 2
P072E	Stuck in Gear 3
P072F	Stuck in Gear 4
P0730	Incorrect Gear Ratio
P0731	Gear 1 Incorrect Ratio

OBDII Generic Definitions

P0732	Gear 2 Incorrect Ratio
P0733	Gear 3 Incorrect Ratio
P0734	Gear 4 Incorrect Ratio
P0735	Gear 5 Incorrect Ratio
P0736	Reverse Incorrect Ratio
P0737	TCU Engine Speed Output Circuit
P0738	TCU Engine Speed Output Circuit Low
P0739	TCU Engine Speed Output Circuit High
P073A	Stuck in Gear 5
P073B	Stuck in Gear 6
P073C	Stuck in Gear 7
P073D	Unable to Engage Neutral
P073E	Unable to Engage Reverse
P073F	Unable to Engage Gear 1
P0740	Torque Converter Clutch Circuit/Open
P0741	Torque Converter Clutch Circuit Performance/Stuck Off
P0742	Torque Converter Clutch Circuit Stuck On
P0743	Torque Converter Clutch Circuit Electrical
P0744	Torque Converter Clutch Circuit Intermittent
P0745	Pressure Control Solenoid A
P0746	Pressure Control Solenoid A Performance/Stuck Off
P0747	Pressure Control Solenoid A Stuck On
P0748	Pressure Control Solenoid A Electrical
P0749	Pressure Control Solenoid A Intermittent
P074A	Unable To Engage Gear 2
P074B	Unable To Engage Gear 3
P074C	Unable To Engage Gear 4
P074D	Unable To Engage Gear 5
P074E	Unable To Engage Gear 6
P074F	Unable To Engage Gear 7
P0750	Shift Solenoid A
P0751	Shift Solenoid A Performance/Stuck Off
P0752	Shift Solenoid A Stuck On
P0753	Shift Solenoid A Electrical
P0754	Shift Solenoid A Intermittent
P0755	Shift Solenoid B
P0756	Shift Solenoid B Performance/Stuck Off

OBDII Generic Definitions

P0757	Shift Solenoid B Stuck On
P0758	Shift Solenoid B Electrical
P0759	Shift Solenoid B Intermittent
P075A	Shift Solenoid G
P075B	Shift Solenoid G Performance/Stuck Off
P075C	Shift Solenoid G Stuck On
P075D	Shift Solenoid G Electrical
P075E	Shift Solenoid G Intermittent
P075F	Transmission Fluid Level Too High
P0760	Shift Solenoid C
P0761	Shift Solenoid C Performance/Stuck Off
P0762	Shift Solenoid C Stuck On
P0763	Shift Solenoid C Electrical
P0764	Shift Solenoid C Intermittent
P0765	Shift Solenoid D
P0766	Shift Solenoid D Performance/Stuck Off
P0767	Shift Solenoid D Stuck On
P0768	Shift Solenoid D Electrical
P0769	Shift Solenoid D Intermittent
P076A	Shift Solenoid H
P076B	Shift Solenoid H Performance/Stuck Off
P076C	Shift Solenoid H Stuck On
P076D	Shift Solenoid H Electrical
P076E	Shift Solenoid H Intermittent
P076F	Gear 7 Incorrect Ratio
P0770	Shift Solenoid E
P0771	Shift Solenoid E Performance/Stuck Off
P0772	Shift Solenoid E Stuck On
P0773	Shift Solenoid E Electrical
P0774	Shift Solenoid E Intermittent
P0775	Pressure Control Solenoid B
P0776	Pressure Control Solenoid B Performance/Stuck Off
P0777	Pressure Control Solenoid B Stuck On
P0778	Pressure Control Solenoid B Electrical
P0779	Pressure Control Solenoid B Intermittent
P077A	Output Speed Sensor Circuit - Loss of Direction Signal
P077B	Output Speed Sensor Circuit - Direction Error

OBDII Generic Definitions

P0780	Shift Error
P0781	1-2 Shift
P0782	2-3 Shift
P0783	3-4 Shift
P0784	4-5 Shift
P0785	Shift Timing Solenoid A
P0786	Shift Timing Solenoid A Range/Performance
P0787	Shift Timing Solenoid A Low
P0788	Shift Timing Solenoid A High
P0789	Shift Timing Solenoid A Intermittent
P078A	Shift Timing Solenoid B
P078B	Shift Timing Solenoid B Range/Performance
P078C	Shift Timing Solenoid B Low
P078D	Shift Timing Solenoid B High
P078E	Shift Timing Solenoid B Intermittent
P0790	Normal/Performance Switch Circuit
P0791	Intermediate Shaft Speed Sensor A Circuit
P0792	Intermediate Shaft Speed Sensor A Circuit Range/Performance
P0793	Intermediate Shaft Speed Sensor A Circuit No Signal
P0794	Intermediate Shaft Speed Sensor A Circuit Intermittent
P0795	Pressure Control Solenoid C
P0796	Pressure Control Solenoid C Performance/Stuck Off
P0797	Pressure Control Solenoid C Stuck On
P0798	Pressure Control Solenoid C Electrical
P0799	Pressure Control Solenoid C Intermittent
P079A	Transmission Friction Element A Slip Detected
P079B	Transmission Friction Element B Slip Detected
P079C	Transmission Friction Element C Slip Detected
P079D	Transmission Friction Element D Slip Detected
P079E	Transmission Friction Element E Slip Detected
P079F	Transmission Friction Element F Slip Detected
P07A0	Transmission Friction Element G Slip Detected
P07A1	Transmission Friction Element H Slip Detected
P07A2	Transmission Friction Element A Performance/Stuck Off
P07A3	Transmission Friction Element A Stuck On
P07A4	Transmission Friction Element B Performance/Stuck Off
P07A5	Transmission Friction Element B Stuck On

OBDII Generic Definitions

P07A6	Transmission Friction Element C Performance/Stuck Off
P07A7	Transmission Friction Element C Stuck On
P07A8	Transmission Friction Element D Performance/Stuck Off
P07A9	Transmission Friction Element D Stuck On
P07AA	Transmission Friction Element E Performance/Stuck Off
P07AB	Transmission Friction Element E Stuck On
P07AC	Transmission Friction Element F Performance/Stuck Off
P07AD	Transmission Friction Element F Stuck On
P07AE	Transmission Friction Element G Performance/Stuck Off
P07AF	Transmission Friction Element G Stuck On
P07B0	Transmission Friction Element H Performance/Stuck Off
P07B1	Transmission Friction Element H Stuck On
P07B2	Transmission Park Position Sensor/Switch A Circuit/Open
P07B3	Transmission Park Position Sensor/Switch A Circuit Low
P07B4	Transmission Park Position Sensor/Switch A Circuit High
P07B5	Transmission Park Position Sensor/Switch A Circuit Performance/Low
P07B6	Transmission Park Position Sensor/Switch A Circuit Performance/High
P07B7	Transmission Park Position Sensor/Switch A Circuit Intermittent/Erratic
P07B8	Transmission Park Position Sensor/Switch B Circuit/Open
P07B9	Transmission Park Position Sensor/Switch B Circuit Low
P07BA	Transmission Park Position Sensor/Switch B Circuit High
P07BB	Transmission Park Position Sensor/Switch B Circuit Performance/Low
P07BC	Transmission Park Position Sensor/Switch B Circuit Performance High
P07BD	Transmission Park Position Sensor/Switch B Circuit Intermittent/Erratic
P07BE	Transmission Park Position Sensor/Switch A/B Correlation
P0800	Transfer Case Control System (MIL Request)
P0801	Reverse Inhibit Control Circuit
P0802	Transmission Control System MIL Request Circuit/Open
P0803	Upshift/Skip Shift Solenoid Control Circuit
P0804	Upshift/Skip Shift Lamp Control Circuit
P0805	Clutch Position Sensor Circuit
P0806	Clutch Position Sensor Circuit Range/Performance
P0807	Clutch Position Sensor Circuit Low
P0808	Clutch Position Sensor Circuit High
P0809	Clutch Position Sensor Circuit Intermittent
P080A	Clutch Position Not Learned
P080B	Upshift/Skip Shift Solenoid Control Circuit Range/Performance

OBDII Generic Definitions

P080C	Upshift/Skip Shift Solenoid Control Circuit Low
P080D	Upshift/Skip Shift Solenoid Control Circuit High
P0810	Clutch Position Control Error
P0811	Excessive Clutch A Slippage
P0812	Reverse Input Circuit
P0813	Reverse Output Circuit
P0814	Transmission Range Display Circuit
P0815	Upshift Switch Circuit
P0816	Downshift Switch Circuit
P0817	Starter Disable Circuit/Open
P0818	Driveline Disconnect Switch Input Circuit
P0819	Up and Down Shift Switch to Transmission Range Correlation
P081A	Starter Disable Circuit Low
P081B	Starter Disable Circuit High
P081C	Park Input Circuit
P081D	Neutral Input Circuit
P081E	Excessive Clutch B Slippage
P0820	Gear Lever X-Y Position Sensor Circuit
P0821	Gear Lever X Position Circuit
P0822	Gear Lever Y Position Circuit
P0823	Gear Lever X Position Circuit Intermittent
P0824	Gear Lever Y Position Circuit Intermittent
P0825	Gear Lever Push-Pull Switch (Shift Anticipate)
P0826	Up and Down Shift Switch Circuit
P0827	Up and Down Shift Switch Circuit Low
P0828	Up and Down Shift Switch Circuit High
P0829	5-6 Shift
P082A	Gear Lever X Position Circuit Range/Performance
P082B	Gear Lever X Position Circuit Low
P082C	Gear Lever X Position Circuit High
P082D	Gear Lever Y Position Circuit Range/Performance
P082E	Gear Lever Y Position Circuit Low
P082F	Gear Lever Y Position Circuit High
P0830	Clutch Pedal Switch A Circuit
P0831	Clutch Pedal Switch A Circuit Low
P0832	Clutch Pedal Switch A Circuit High
P0833	Clutch Pedal Switch B Circuit

OBDII Generic Definitions

P0834	Clutch Pedal Switch B Circuit Low
P0835	Clutch Pedal Switch B Circuit High
P0836	Four Wheel Drive (4WD) Switch Circuit
P0837	Four Wheel Drive (4WD) Switch Circuit Range/Performance
P0838	Four Wheel Drive (4WD) Switch Circuit Low
P0839	Four Wheel Drive (4WD) Switch Circuit High
P083A	Transmission Fluid Pressure Sensor/Switch G Circuit
P083B	Transmission Fluid Pressure Sensor/Switch G Circuit Range/Performance
P083C	Transmission Fluid Pressure Sensor/Switch G Circuit Low
P083D	Transmission Fluid Pressure Sensor/Switch G Circuit High
P083E	Transmission Fluid Pressure Sensor/Switch G Circuit Intermittent
P083F	Clutch Pedal Switch A/B Correlation
P0840	Transmission Fluid Pressure Sensor/Switch A Circuit
P0841	Transmission Fluid Pressure Sensor/Switch A Circuit Range/Performance
P0842	Transmission Fluid Pressure Sensor/Switch A Circuit Low
P0843	Transmission Fluid Pressure Sensor/Switch A Circuit High
P0844	Transmission Fluid Pressure Sensor/Switch A Circuit Intermittent
P0845	Transmission Fluid Pressure Sensor/Switch B Circuit
P0846	Transmission Fluid Pressure Sensor/Switch B Circuit Range/Performance
P0847	Transmission Fluid Pressure Sensor/Switch B Circuit Low
P0848	Transmission Fluid Pressure Sensor/Switch B Circuit High
P0849	Transmission Fluid Pressure Sensor/Switch B Circuit Intermittent
P084A	Transmission Fluid Pressure Sensor/Switch H Circuit
P084B	Transmission Fluid Pressure Sensor/Switch H Circuit Range/Performance
P084C	Transmission Fluid Pressure Sensor/Switch H Circuit Low
P084D	Transmission Fluid Pressure Sensor/Switch H Circuit High
P084E	Transmission Fluid Pressure Sensor/Switch H Circuit Intermittent
P084F	Park/Neutral Switch Output Circuit
P0850	Park/Neutral Switch Input Circuit
P0851	Park/Neutral Switch Input Circuit Low
P0852	Park/Neutral Switch Input Circuit High
P0853	Drive Switch Input Circuit
P0854	Drive Switch Input Circuit Low
P0855	Drive Switch Input Circuit High
P0856	Traction Control Input Signal
P0857	Traction Control Input Signal Range/Performance
P0858	Traction Control Input Signal Low

OBDII Generic Definitions

P0859	Traction Control Input Signal High
P085A	Gear Shift Control Module B Communication Circuit
P085B	Gear Shift Control Module B Communication Circuit Low
P085C	Gear Shift Control Module B Communication Circuit High
P085D	Gear Shift Control Module A Performance
P085E	Gear Shift Control Module B Performance
P0860	Gear Shift Control Module A Communication Circuit
P0861	Gear Shift Control Module A Communication Circuit Low
P0862	Gear Shift Control Module A Communication Circuit High
P0863	TCU Communication Circuit
P0864	TCU Communication Circuit Range/Performance
P0865	TCU Communication Circuit Low
P0866	TCU Communication Circuit High
P0867	Transmission Fluid Pressure
P0868	Transmission Fluid Pressure Low
P0869	Transmission Fluid Pressure High
P0870	Transmission Fluid Pressure Sensor/Switch C Circuit
P0871	Transmission Fluid Pressure Sensor/Switch C Circuit Range/Performance
P0872	Transmission Fluid Pressure Sensor/Switch C Circuit Low
P0873	Transmission Fluid Pressure Sensor/Switch C Circuit High
P0874	Transmission Fluid Pressure Sensor/Switch C Circuit Intermittent
P0875	Transmission Fluid Pressure Sensor/Switch D Circuit
P0876	Transmission Fluid Pressure Sensor/Switch D Circuit Range/Performance
P0877	Transmission Fluid Pressure Sensor/Switch D Circuit Low
P0878	Transmission Fluid Pressure Sensor/Switch D Circuit High
P0879	Transmission Fluid Pressure Sensor/Switch D Circuit Intermittent
P0880	TCU Power Input Signal
P0881	TCU Power Input Signal Range/Performance
P0882	TCU Power Input Signal Low
P0883	TCU Power Input Signal High
P0884	TCU Power Input Signal Intermittent
P0885	TCU Power Relay Control Circuit/Open
P0886	TCU Power Relay Control Circuit Low
P0887	TCU Power Relay Control Circuit High
P0888	TCU Power Relay Sense Circuit
P0889	TCU Power Relay Sense Circuit Range/Performance
P088A	Transmission Fluid Filter Deteriorated

OBDII Generic Definitions

P088B	Transmission Fluid Filter Very Deteriorated
P0890	TCU Power Relay Sense Circuit Low
P0891	TCU Power Relay Sense Circuit High
P0892	TCU Power Relay Sense Circuit Intermittent
P0893	Multiple Gears Engaged
P0894	Transmission Component Slipping
P0895	Shift Time Too Short
P0896	Shift Time Too Long
P0897	Transmission Fluid Deteriorated
P0898	Transmission Control System MIL Request Circuit Low
P0899	Transmission Control System MIL Request Circuit High
P0900	Clutch Actuator Circuit/Open
P0901	Clutch Actuator Circuit Range/Performance
P0902	Clutch Actuator Circuit Low
P0903	Clutch Actuator Circuit High
P0904	Gate Select Position Circuit
P0905	Gate Select Position Circuit Range/Performance
P0906	Gate Select Position Circuit Low
P0907	Gate Select Position Circuit High
P0908	Gate Select Position Circuit Intermittent
P0909	Gate Select Control Error
P0910	Gate Select Actuator Circuit/Open
P0911	Gate Select Actuator Circuit Range/Performance
P0912	Gate Select Actuator Circuit Low
P0913	Gate Select Actuator Circuit High
P0914	Gear Shift Position Circuit
P0915	Gear Shift Position Circuit Range/Performance
P0916	Gear Shift Position Circuit Low
P0917	Gear Shift Position Circuit High
P0918	Gear Shift Position Circuit Intermittent
P0919	Gear Shift Position Control Error
P0920	Gear Shift Forward Actuator Circuit/Open
P0921	Gear Shift Forward Actuator Circuit Range/Performance
P0923	Gear Shift Forward Actuator Circuit High
P0924	Gear Shift Reverse Actuator Circuit/Open
P0925	Gear Shift Reverse Actuator Circuit Range/Performance
P0926	Gear Shift Reverse Actuator Circuit Low

OBDII Generic Definitions

P0927	Gear Shift Reverse Actuator Circuit High
P0928	Gear Shift Lock Solenoid/Actuator Control Circuit A/Open
P0929	Gear Shift Lock Solenoid/Actuator Control Circuit A Range/Performance
P092A	Gear Shift Lock Solenoid/Actuator Control Circuit B/Open
P092B	Gear Shift Lock Solenoid/Actuator Control Circuit B Range/Performance
P092C	Gear Shift Lock Solenoid/Actuator Control Circuit B Low
P092D	Gear Shift Lock Solenoid/Actuator Control Circuit B High
P0930	Gear Shift Lock Solenoid/Actuator Control Circuit A Low
P0931	Gear Shift Lock Solenoid/Actuator Control Circuit A High
P0932	Hydraulic Pressure Sensor Circuit
P0933	Hydraulic Pressure Sensor Range/Performance
P0934	Hydraulic Pressure Sensor Circuit Low
P0935	Hydraulic Pressure Sensor Circuit High
P0936	Hydraulic Pressure Sensor Circuit Intermittent
P0937	Hydraulic Oil Temperature Sensor Circuit
P0938	Hydraulic Oil Temperature Sensor Range/Performance
P0939	Hydraulic Oil Temperature Sensor Circuit Low
P0940	Hydraulic Oil Temperature Sensor Circuit High
P0941	Hydraulic Oil Temperature Sensor Circuit Intermittent
P0942	Hydraulic Pressure Unit
P0943	Hydraulic Pressure Unit Cycling Period Too Short
P0944	Hydraulic Pressure Unit Loss of Pressure
P0945	Hydraulic Pump Relay Circuit/Open
P0946	Hydraulic Pump Relay Circuit Range/Performance
P0947	Hydraulic Pump Relay Circuit Low
P0948	Hydraulic Pump Relay Circuit High
P0949	Auto Shift Manual Adaptive Learning Not Complete
P0950	Auto Shift Manual Control Circuit
P0951	Auto Shift Manual Control Circuit Range/Performance
P0952	Auto Shift Manual Control Circuit Low
P0953	Auto Shift Manual Control Circuit High
P0954	Auto Shift Manual Control Circuit Intermittent
P0955	Auto Shift Manual Mode Circuit
P0956	Auto Shift Manual Mode Circuit Range/Performance
P0957	Auto Shift Manual Mode Circuit Low
P0958	Auto Shift Manual Mode Circuit High
P0959	Auto Shift Manual Mode Circuit Intermittent

OBDII Generic Definitions

P0960	Pressure Control Solenoid A Control Circuit/Open
P0961	Pressure Control Solenoid A Control Circuit Range/Performance
P0962	Pressure Control Solenoid A Control Circuit Low
P0963	Pressure Control Solenoid A Control Circuit High
P0964	Pressure Control Solenoid B Control Circuit/Open
P0965	Pressure Control Solenoid B Control Circuit Range/Performance
P0966	Pressure Control Solenoid B Control Circuit Low
P0967	Pressure Control Solenoid B Control Circuit High
P0968	Pressure Control Solenoid C Control Circuit/Open
P0969	Pressure Control Solenoid C Control Circuit Range/Performance
P0970	Pressure Control Solenoid C Control Circuit Low
P0971	Pressure Control Solenoid C Control Circuit High
P0972	Shift Solenoid A Control Circuit Range/Performance
P0973	Shift Solenoid A Control Circuit Low
P0974	Shift Solenoid A Control Circuit High
P0975	Shift Solenoid B Control Circuit Range/Performance
P0976	Shift Solenoid B Control Circuit Low
P0977	Shift Solenoid B Control Circuit High
P0978	Shift Solenoid C Control Circuit Range/Performance
P0979	Shift Solenoid C Control Circuit Low
P0980	Shift Solenoid C Control Circuit High
P0981	Shift Solenoid D Control Circuit Range/Performance
P0982	Shift Solenoid D Control Circuit Low
P0983	Shift Solenoid D Control Circuit High
P0984	Shift Solenoid E Control Circuit Range/Performance
P0985	Shift Solenoid E Control Circuit Low
P0986	Shift Solenoid E Control Circuit High
P0987	Transmission Fluid Pressure Sensor/Switch E Circuit
P0988	Transmission Fluid Pressure Sensor/Switch E Circuit Range/Performance
P0989	Transmission Fluid Pressure Sensor/Switch E Circuit Low
P0990	Transmission Fluid Pressure Sensor/Switch E Circuit High
P0991	Transmission Fluid Pressure Sensor/Switch E Circuit Intermittent
P0992	Transmission Fluid Pressure Sensor/Switch F Circuit
P0993	Transmission Fluid Pressure Sensor/Switch F Circuit Range/Performance
P0994	Transmission Fluid Pressure Sensor/Switch F Circuit Low
P0995	Transmission Fluid Pressure Sensor/Switch F Circuit High
P0996	Transmission Fluid Pressure Sensor/Switch F Circuit Intermittent

OBDII Generic Definitions

P0997	Shift Solenoid F Control Circuit Range/Performance
P0998	Shift Solenoid F Control Circuit Low
P0999	Shift Solenoid F Control Circuit High
P099A	Shift Solenoid G Control Circuit Range/Performance
P099B	Shift Solenoid G Control Circuit Low
P099C	Shift Solenoid G Control Circuit High
P099D	Shift Solenoid H Control Circuit Range/Performance
P099E	Shift Solenoid H Control Circuit Low
P099F	Shift Solenoid H Control Circuit High
P0A00	Motor Electronics Coolant Temperature Sensor Circuit
P0A01	Motor Electronics Coolant Temperature Sensor Circuit Range/Performance
P0A03	Motor Electronics Coolant Temperature Sensor Circuit High
P0A04	Motor Electronics Coolant Temperature Sensor Circuit Intermittent
P0A05	Motor Electronics Coolant Pump A Control Circuit/Open
P0A06	Motor Electronics Coolant Pump A Control Circuit Low
P0A07	Motor Electronics Coolant Pump A Control Circuit High
P0A08	DC/DC Converter Status Circuit
P0A09	DC/DC Converter Status Circuit Low
P0A0A	High Voltage System Interlock Circuit
P0A0B	High Voltage System Interlock Circuit Performance
P0A0C	High Voltage System Interlock Circuit Low
P0A0D	High Voltage System Interlock Circuit High
P0A0E	High Voltage System Interlock Circuit Intermittent
P0A0F	Engine Failed to Start
P0A10	DC/DC Converter Status Circuit High
P0A11	DC/DC Converter Enable Circuit/Open
P0A12	DC/DC Converter Enable Circuit Low
P0A13	DC/DC Converter Enable Circuit High
P0A14	Engine Mount A Control Circuit/Open
P0A15	Engine Mount A Control Circuit Low
P0A16	Engine Mount A Control Circuit High
P0A17	Motor Torque Sensor Circuit
P0A18	Motor Torque Sensor Circuit Range/Performance
P0A19	Motor Torque Sensor Circuit Low
P0A1A	Generator Control Module
P0A1B	Drive Motor A Control Module
P0A1C	Drive Motor B Control Module

OBDII Generic Definitions

P0A1D	Hybrid Powertrain Control Module
P0A1E	Starter/Generator Control Module
P0A1F	Battery Energy Control Module
P0A20	Motor Torque Sensor Circuit High
P0A21	Motor Torque Sensor Circuit Intermittent
P0A22	Generator Torque Sensor Circuit
P0A23	Generator Torque Sensor Circuit Range/Performance
P0A24	Generator Torque Sensor Circuit Low
P0A25	Generator Torque Sensor Circuit High
P0A26	Generator Torque Sensor Circuit Intermittent
P0A27	Hybrid Battery Power Off Circuit
P0A28	Hybrid Battery Power Off Circuit Low
P0A29	Hybrid Battery Power Off Circuit High
P0A2A	Drive Motor A Temperature Sensor Circuit
P0A2B	Drive Motor A Temperature Sensor Circuit Range/Performance
P0A2C	Drive Motor A Temperature Sensor Circuit Low
P0A2D	Drive Motor A Temperature Sensor Circuit High
P0A2E	Drive Motor A Temperature Sensor Circuit Intermittent
P0A2F	Drive Motor A Over Temperature
P0A30	Drive Motor B Temperature Sensor Circuit
P0A31	Drive Motor B Temperature Sensor Circuit Range/Performance
P0A32	Drive Motor B Temperature Sensor Circuit Low
P0A33	Drive Motor B Temperature Sensor Circuit High
P0A34	Drive Motor B Temperature Sensor Circuit Intermittent
P0A35	Drive Motor B Over Temperature
P0A36	Generator Temperature Sensor Circuit
P0A37	Generator Temperature Sensor Circuit Range/Performance
P0A38	Generator Temperature Sensor Circuit Low
P0A39	Generator Temperature Sensor Circuit High
P0A3A	Generator Temperature Sensor Circuit Intermittent
P0A3B	Generator Over Temperature
P0A3C	Drive Motor A Inverter Over Temperature
P0A3D	Drive Motor B Inverter Over Temperature
P0A3E	Generator Inverter Over Temperature
P0A3F	Drive Motor A Position Sensor Circuit
P0A40	Drive Motor A Position Sensor Circuit Range/Performance
P0A41	Drive Motor A Position Sensor Circuit Low

OBDII Generic Definitions

P0A42	Drive Motor A Position Sensor Circuit High
P0A43	Drive Motor A Position Sensor Circuit Intermittent
P0A44	Drive Motor A Position Sensor Circuit Overspeed
P0A45	Drive Motor B Position Sensor Circuit
P0A46	Drive Motor B Position Sensor Circuit Range/Performance
P0A47	Drive Motor B Position Sensor Circuit Low
P0A48	Drive Motor B Position Sensor Circuit High
P0A49	Drive Motor B Position Sensor Circuit Intermittent
P0A4A	Drive Motor B Position Sensor Circuit Overspeed
P0A4B	Generator Position Sensor Circuit
P0A4C	Generator Position Sensor Circuit Range/Performance
P0A4D	Generator Position Sensor Circuit Low
P0A4E	Generator Position Sensor Circuit High
P0A4F	Generator Position Sensor Circuit Intermittent
P0A50	Generator Position Sensor Circuit Overspeed
P0A51	Drive Motor A Current Sensor Circuit
P0A52	Drive Motor A Current Sensor Circuit Range/Performance
P0A53	Drive Motor A Current Sensor Circuit Low
P0A54	Drive Motor A Current Sensor Circuit High
P0A55	Drive Motor B Current Sensor Circuit
P0A56	Drive Motor B Current Sensor Circuit Range/Performance
P0A57	Drive Motor B Current Sensor Circuit Low
P0A58	Drive Motor B Current Sensor Circuit High
P0A59	Generator Current Sensor Circuit
P0A5A	Generator Current Sensor Circuit Range/Performance
P0A5B	Generator Current Sensor Circuit Low
P0A5C	Generator Current Sensor Circuit High
P0A5D	Drive Motor A Phase U Current
P0A5E	Drive Motor A Phase U Current Low
P0A5F	Drive Motor A Phase U Current High
P0A60	Drive Motor A Phase V Current
P0A61	Drive Motor A Phase V Current Low
P0A62	Drive Motor A Phase V Current High
P0A63	Drive Motor A Phase W Current
P0A64	Drive Motor A Phase W Current Low
P0A65	Drive Motor A Phase W Current High
P0A66	Drive Motor B Phase U Current

OBDII Generic Definitions

P0A67	Drive Motor B Phase U Current Low
P0A68	Drive Motor B Phase U Current High
P0A69	Drive Motor B Phase V Current
P0A6A	Drive Motor B Phase V Current Low
P0A6B	Drive Motor B Phase V Current High
P0A6C	Drive Motor B Phase W Current
P0A6D	Drive Motor B Phase W Current Low
P0A6E	Drive Motor B Phase W Current High
P0A6F	Generator Phase U Current
P0A70	Generator Phase U Current Low
P0A71	Generator Phase U Current High
P0A72	Generator Phase V Current
P0A73	Generator Phase V Current Low
P0A74	Generator Phase V Current High
P0A75	Generator Phase W Current
P0A76	Generator Phase W Current Low
P0A77	Generator Phase W Current High
P0A78	Drive Motor A Inverter Performance
P0A79	Drive Motor B Inverter Performance
P0A7A	Generator Inverter Performance
P0A7B	Battery Energy Control Module Requested MIL Illumination
P0A7C	Motor Electronics Over Temperature
P0A7D	Hybrid Battery Pack State of Charge Low
P0A7E	Hybrid Battery Pack Over Temperature
P0A7F	Hybrid Battery Pack Deterioration
P0A80	Replace Hybrid Battery Pack
P0A81	Hybrid Battery Pack Cooling Fan 1 Control Circuit/Open
P0A82	Hybrid Battery Pack Cooling Fan 1 Performance/Stuck Off
P0A83	Hybrid Battery Pack Cooling Fan 1 Stuck On
P0A84	Hybrid Battery Pack Cooling Fan 1 Control Circuit Low
P0A85	Hybrid Battery Pack Cooling Fan 1 Control Circuit High
P0A86	14 Volt Power Module Current Sensor Circuit
P0A87	14 Volt Power Module Current Sensor Circuit Range/Performance
P0A88	14 Volt Power Module Current Sensor Circuit Low
P0A89	14 Volt Power Module Current Sensor Circuit High
P0A8A	14 Volt Power Module Current Sensor Circuit Intermittent
P0A8B	14 Volt Power Module System Voltage

OBDII Generic Definitions

P0A8C	14 Volt Power Module System Voltage Unstable
P0A8D	14 Volt Power Module System Voltage Low
P0A8E	14 Volt Power Module System Voltage High
P0A8F	14 Volt Power Module System Performance
P0A90	Drive Motor A Performance
P0A91	Drive Motor B Performance
P0A92	Hybrid Generator Performance
P0A93	Inverter A Cooling System Performance
P0A94	DC/DC Converter Performance
P0A95	High Voltage Fuse
P0A96	Hybrid Battery Pack Cooling Fan 2 Control Circuit/Open
P0A97	Hybrid Battery Pack Cooling Fan 2 Performance/Stuck Off
P0A98	Hybrid Battery Pack Cooling Fan 2 Stuck On
P0A99	Hybrid Battery Pack Cooling Fan 2 Control Circuit Low
P0A9A	Hybrid Battery Pack Cooling Fan 2 Control Circuit High
P0A9B	Hybrid Battery Temperature Sensor A Circuit
P0A9C	Hybrid Battery Temperature Sensor A Range/Performance
P0A9D	Hybrid Battery Temperature Sensor A Circuit Low
P0A9E	Hybrid Battery Temperature Sensor A Circuit High
P0A9F	Hybrid Battery Temperature Sensor A Circuit Intermittent/Erratic
P0AA0	Hybrid Battery Positive Contactor Circuit
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed
P0AA2	Hybrid Battery Positive Contactor Circuit Stuck Open
P0AA3	Hybrid Battery Negative Contactor Circuit
P0AA4	Hybrid Battery Negative Contactor Circuit Stuck Closed
P0AA5	Hybrid Battery Negative Contactor Circuit Stuck Open
P0AA6	Hybrid Battery Voltage System Isolation Fault
P0AA7	Hybrid Battery Voltage Isolation Sensor Circuit
P0AA8	Hybrid Battery Voltage Isolation Sensor Circuit Range/Performance
P0AA9	Hybrid Battery Voltage Isolation Sensor Circuit Low
P0AAA	Hybrid Battery Voltage Isolation Sensor Circuit High
P0AAB	Hybrid Battery Voltage Isolation Sensor Circuit Intermittent/Erratic
P0AAC	Hybrid Battery Pack Air Temperature Sensor A Circuit
P0AAD	Hybrid Battery Pack Air Temperature Sensor A Circuit Range/Performance
P0AAE	Hybrid Battery Pack Air Temperature Sensor A Circuit Low
P0AAF	Hybrid Battery Pack Air Temperature Sensor A Circuit High
P0AB0	Hybrid Battery Pack Air Temperature Sensor A Circuit Intermittent/Erratic

OBDII Generic Definitions

P0AB1	Hybrid Battery Pack Air Temperature Sensor B Circuit
P0AB2	Hybrid Battery Pack Air Temperature Sensor B Circuit Range/Performance
P0AB3	Hybrid Battery Pack Air Temperature Sensor B Circuit Low
P0AB4	Hybrid Battery Pack Air Temperature Sensor B Circuit High
P0AB5	Hybrid Battery Pack Air Temperature Sensor B Circuit Intermittent/Erratic
P0AB6	Engine Mount B Control Circuit/Open
P0AB7	Engine Mount B Control Circuit Low
P0AB8	Engine Mount B Control Circuit High
P0AB9	Hybrid System Performance
P0ABA	Hybrid Battery Pack Voltage Sense A Circuit
P0ABB	Hybrid Battery Pack Voltage Sense A Circuit Range/Performance
P0ABC	Hybrid Battery Pack Voltage Sense A Circuit Low
P0ABD	Hybrid Battery Pack Voltage Sense A Circuit High
P0ABE	Hybrid Battery Pack Voltage Sense A Circuit Intermittent/Erratic
P0ABF	Hybrid Battery Pack Current Sensor A Circuit
P0AC0	Hybrid Battery Pack Current Sensor A Circuit Range/Performance
P0AC1	Hybrid Battery Pack Current Sensor A Circuit Low
P0AC2	Hybrid Battery Pack Current Sensor A Circuit High
P0AC3	Hybrid Battery Pack Current Sensor A Circuit Intermittent/Erratic
P0AC4	Hybrid Powertrain Control Module Requested MIL Illumination
P0AC5	Hybrid Battery Temperature Sensor B Circuit
P0AC6	Hybrid Battery Temperature Sensor B Range/Performance
P0AC7	Hybrid Battery Temperature Sensor B Circuit Low
P0AC8	Hybrid Battery Temperature Sensor B Circuit High
P0AC9	Hybrid Battery Temperature Sensor B Circuit Intermittent/Erratic
P0ACA	Hybrid Battery Temperature Sensor C Circuit
P0ACB	Hybrid Battery Temperature Sensor C Range/Performance
P0ACC	Hybrid Battery Temperature Sensor C Circuit Low
P0ACD	Hybrid Battery Temperature Sensor C Circuit High
P0ACE	Hybrid Battery Temperature Sensor C Circuit Intermittent/Erratic
P0ACF	Hybrid Battery Pack Cooling Fan 3 Control Circuit/Open
P0AD0	Hybrid Battery Pack Cooling Fan 3 Performance/Stuck Off
P0AD1	Hybrid Battery Pack Cooling Fan 3 Stuck On
P0AD2	Hybrid Battery Pack Cooling Fan 3 Control Circuit Low
P0AD3	Hybrid Battery Pack Cooling Fan 3 Control Circuit High
P0AD4	Hybrid Battery Pack Air Flow System Insufficient Air Flow
P0AD5	Hybrid Battery Pack Air Flow Valve A Control Circuit/Open

OBDII Generic Definitions

P0AD6	Hybrid Battery Pack Air Flow Valve A Control Circuit Range/Performance
P0AD7	Hybrid Battery Pack Air Flow Valve A Control Circuit Low
P0AD8	Hybrid Battery Pack Air Flow Valve A Control Circuit High
P0AD9	Hybrid Battery Positive Contactor Control Circuit/Open
P0ADA	Hybrid Battery Positive Contactor Control Circuit Range/Performance
P0ADB	Hybrid Battery Positive Contactor Control Circuit Low
P0ADC	Hybrid Battery Positive Contactor Control Circuit High
P0ADD	Hybrid Battery Negative Contactor Control Circuit/Open
P0ADE	Hybrid Battery Negative Contactor Control Circuit Range/Performance
P0ADF	Hybrid Battery Negative Contactor Control Circuit Low
P0AE0	Hybrid Battery Negative Contactor Control Circuit High
P0AE1	Hybrid Battery Precharge Contactor Circuit
P0AE2	Hybrid Battery Precharge Contactor Circuit Stuck Closed
P0AE3	Hybrid Battery Precharge Contactor Circuit Stuck Open
P0AE4	Hybrid Battery Precharge Contactor Control Circuit
P0AE5	Hybrid Battery Precharge Contactor Control Circuit Range/Performance
P0AE6	Hybrid Battery Precharge Contactor Control Circuit Low
P0AE7	Hybrid Battery Precharge Contactor Control Circuit High
P0AE8	Hybrid Battery Temperature Sensor D Circuit
P0AE9	Hybrid Battery Temperature Sensor D Range/Performance
P0AEA	Hybrid Battery Temperature Sensor D Circuit Low
P0AEB	Hybrid Battery Temperature Sensor D Circuit High
P0AEC	Hybrid Battery Temperature Sensor D Circuit Intermittent/Erratic
P0AED	Drive Motor Inverter Temperature Sensor A Circuit
P0AEE	Drive Motor Inverter Temperature Sensor A Circuit Range/Performance
P0AEF	Drive Motor Inverter Temperature Sensor A Circuit Low
P0AF0	Drive Motor Inverter Temperature Sensor A Circuit High
P0AF1	Drive Motor Inverter Temperature Sensor A Circuit Intermittent/Erratic
P0AF2	Drive Motor Inverter Temperature Sensor B Circuit
P0AF3	Drive Motor Inverter Temperature Sensor B Circuit Range/Performance
P0AF4	Drive Motor Inverter Temperature Sensor B Circuit Low
P0AF5	Drive Motor Inverter Temperature Sensor B Circuit High
P0AF6	Drive Motor Inverter Temperature Sensor B Circuit Intermittent/Erratic
P0AF7	14 Volt Power Module Internal Temperature Too High
P0AF8	Hybrid Battery System Voltage
P0AF9	Hybrid Battery System Voltage Unstable
P0AFA	Hybrid Battery System Voltage Low

OBDII Generic Definitions

P0AFB	Hybrid Battery System Voltage High
P0AFC	Hybrid Battery Pack Sensor Module
P0AFD	Hybrid Battery Pack Temperature Too Low
P0AFE	Hybrid Battery System Voltage Too Low for Voltage Step Up Conversion
P0AFF	System Voltage Too Low for Voltage Step Down Conversion
P0B00	Auxiliary Transmission Fluid Pump Motor Phase U Current
P0B01	Auxiliary Transmission Fluid Pump Motor Phase U Current Low
P0B02	Auxiliary Transmission Fluid Pump Motor Phase U Current High
P0B03	Auxiliary Transmission Fluid Pump Motor Phase V Current
P0B04	Auxiliary Transmission Fluid Pump Motor Phase V Current Low
P0B05	Auxiliary Transmission Fluid Pump Motor Phase V Current High
P0B06	Auxiliary Transmission Fluid Pump Motor Phase W Current
P0B07	Auxiliary Transmission Fluid Pump Motor Phase W Current Low
P0B08	Auxiliary Transmission Fluid Pump Motor Phase W Current High
P0B09	Auxiliary Transmission Fluid Pump Motor Supply Voltage Circuit/Open
P0B0A	Auxiliary Transmission Fluid Pump Motor Supply Voltage Circuit Low
P0B0B	Auxiliary Transmission Fluid Pump Motor Supply Voltage Circuit High
P0B0C	Auxiliary Transmission Fluid Pump Hydraulic Leakage
P0B0D	Auxiliary Transmission Fluid Pump Motor Control Module
P0B0E	Hybrid Battery Pack Current Sensor B Circuit
P0B0F	Hybrid Battery Pack Current Sensor B Circuit Range/Performance
P0B10	Hybrid Battery Pack Current Sensor B Circuit Low
P0B11	Hybrid Battery Pack Current Sensor B Circuit High
P0B12	Hybrid Battery Pack Current Sensor B Circuit Intermittent/Erratic
P0B13	Hybrid Battery Pack Current Sensor A/B Correlation
P0B14	Hybrid Battery Pack Voltage Sense B Circuit
P0B15	Hybrid Battery Pack Voltage Sense B Circuit Range/Performance
P0B16	Hybrid Battery Pack Voltage Sense B Circuit Low
P0B17	Hybrid Battery Pack Voltage Sense B Circuit High
P0B18	Hybrid Battery Pack Voltage Sense B Circuit Intermittent/Erratic
P0B19	Hybrid Battery Pack Voltage Sense C Circuit
P0B1A	Hybrid Battery Pack Voltage Sense C Circuit Range/Performance
P0B1B	Hybrid Battery Pack Voltage Sense C Circuit Low
P0B1C	Hybrid Battery Pack Voltage Sense C Circuit High
P0B1D	Hybrid Battery Pack Voltage Sense C Circuit Intermittent/Erratic
P0B1E	Hybrid Battery Pack Voltage Sense D Circuit
P0B1F	Hybrid Battery Pack Voltage Sense D Circuit Range/Performance

OBDII Generic Definitions

P0B20	Hybrid Battery Pack Voltage Sense D Circuit Low
P0B21	Hybrid Battery Pack Voltage Sense D Circuit High
P0B22	Hybrid Battery Pack Voltage Sense D Circuit Intermittent/Erratic
P0B23	Hybrid Battery A Voltage
P0B24	Hybrid Battery A Voltage Unstable
P0B25	Hybrid Battery A Voltage Low
P0B26	Hybrid Battery A Voltage High
P0B27	Hybrid Battery B Voltage
P0B28	Hybrid Battery B Voltage Unstable
P0B29	Hybrid Battery B Voltage Low
P0B2A	Hybrid Battery B Voltage High
P0B2B	Hybrid Battery C Voltage
P0B2C	Hybrid Battery C Voltage Unstable
P0B2D	Hybrid Battery C Voltage Low
P0B2E	Hybrid Battery C Voltage High
P0B2F	Hybrid Battery D Voltage
P0B30	Hybrid Battery D Voltage Unstable
P0B31	Hybrid Battery D Voltage Low
P0B32	Hybrid Battery D Voltage High
P0B33	High Voltage Service Disconnect Circuit
P0B34	High Voltage Service Disconnect Circuit Performance
P0B35	High Voltage Service Disconnect Circuit Low
P0B36	High Voltage Service Disconnect Circuit High
P0B37	High Voltage Service Disconnect Circuit Open
P0B38	Motor Electronics Coolant Pump B Control Circuit/Open
P0B39	Motor Electronics Coolant Pump B Control Circuit Low
P0B3A	Motor Electronics Coolant Pump B Control Circuit High
P0B3B	Hybrid Battery Voltage Sense A Circuit
P0B3C	Hybrid Battery Voltage Sense A Circuit Range/Performance
P0B3D	Hybrid Battery Voltage Sense A Circuit Low
P0B3E	Hybrid Battery Voltage Sense A Circuit High
P0B3F	Hybrid Battery Voltage Sense A Circuit Intermittent/Erratic
P0B40	Hybrid Battery Voltage Sense B Circuit
P0B41	Hybrid Battery Voltage Sense B Circuit Range/Performance
P0B42	Hybrid Battery Voltage Sense B Circuit Low
P0B43	Hybrid Battery Voltage Sense B Circuit High
P0B44	Hybrid Battery Voltage Sense B Circuit Intermittent/Erratic

OBDII Generic Definitions

P0B45	Hybrid Battery Voltage Sense C Circuit
P0B46	Hybrid Battery Voltage Sense C Circuit Range/Performance
P0B47	Hybrid Battery Voltage Sense C Circuit Low
P0B48	Hybrid Battery Voltage Sense C Circuit High
P0B49	Hybrid Battery Voltage Sense C Circuit Intermittent/Erratic
P0B4A	Hybrid Battery Voltage Sense D Circuit
P0B4B	Hybrid Battery Voltage Sense D Circuit Range/Performance
P0B4C	Hybrid Battery Voltage Sense D Circuit Low
P0B4D	Hybrid Battery Voltage Sense D Circuit High
P0B4E	Hybrid Battery Voltage Sense D Circuit Intermittent/Erratic
P0B4F	Hybrid Battery Voltage Sense E Circuit
P0B50	Hybrid Battery Voltage Sense E Circuit Range/Performance
P0B51	Hybrid Battery Voltage Sense E Circuit Low
P0B52	Hybrid Battery Voltage Sense E Circuit High
P0B53	Hybrid Battery Voltage Sense E Circuit Intermittent/Erratic
P0B54	Hybrid Battery Voltage Sense F Circuit
P0B55	Hybrid Battery Voltage Sense F Circuit Range/Performance
P0B56	Hybrid Battery Voltage Sense F Circuit Low
P0B57	Hybrid Battery Voltage Sense F Circuit High
P0B58	Hybrid Battery Voltage Sense F Circuit Intermittent/Erratic
P0B59	Hybrid Battery Voltage Sense G Circuit
P0B5A	Hybrid Battery Voltage Sense G Circuit Range/Performance
P0B5B	Hybrid Battery Voltage Sense G Circuit Low
P0B5C	Hybrid Battery Voltage Sense G Circuit High
P0B5D	Hybrid Battery Voltage Sense G Circuit Intermittent/Erratic
P0B5E	Hybrid Battery Voltage Sense H Circuit
P0B5F	Hybrid Battery Voltage Sense H Circuit Range/Performance
P0B60	Hybrid Battery Voltage Sense H Circuit Low
P0B61	Hybrid Battery Voltage Sense H Circuit High
P0B62	Hybrid Battery Voltage Sense H Circuit Intermittent/Erratic
P0B63	Hybrid Battery Voltage Sense I Circuit
P0B64	Hybrid Battery Voltage Sense I Circuit Range/Performance
P0B65	Hybrid Battery Voltage Sense I Circuit Low
P0B66	Hybrid Battery Voltage Sense I Circuit High
P0B67	Hybrid Battery Voltage Sense I Circuit Intermittent/Erratic
P0B68	Hybrid Battery Voltage Sense J Circuit
P0B69	Hybrid Battery Voltage Sense J Circuit Range/Performance

OBDII Generic Definitions

P0B6A	Hybrid Battery Voltage Sense J Circuit Low
P0B6B	Hybrid Battery Voltage Sense J Circuit High
P0B6C	Hybrid Battery Voltage Sense J Circuit Intermittent/Erratic
P0B6D	Hybrid Battery Voltage Sense K Circuit
P0B6E	Hybrid Battery Voltage Sense K Circuit Range/Performance
P0B6F	Hybrid Battery Voltage Sense K Circuit Low
P0B70	Hybrid Battery Voltage Sense K Circuit High
P0B71	Hybrid Battery Voltage Sense K Circuit Intermittent/Erratic
P0B72	Hybrid Battery Voltage Sense L Circuit
P0B73	Hybrid Battery Voltage Sense L Circuit Range/Performance
P0B74	Hybrid Battery Voltage Sense L Circuit Low
P0B75	Hybrid Battery Voltage Sense L Circuit High
P0B76	Hybrid Battery Voltage Sense L Circuit Intermittent/Erratic
P0B77	Hybrid Battery Voltage Sense M Circuit
P0B78	Hybrid Battery Voltage Sense M Circuit Range/Performance
P0B79	Hybrid Battery Voltage Sense M Circuit Low
P0B7A	Hybrid Battery Voltage Sense M Circuit High
P0B7B	Hybrid Battery Voltage Sense M Circuit Intermittent/Erratic
P0B7C	Hybrid Battery Voltage Sense N Circuit
P0B7D	Hybrid Battery Voltage Sense N Circuit Range/Performance
P0B7E	Hybrid Battery Voltage Sense N Circuit Low
P0B7F	Hybrid Battery Voltage Sense N Circuit High
P0B80	Hybrid Battery Voltage Sense N Circuit Intermittent/Erratic
P0B81	Hybrid Battery Voltage Sense O Circuit
P0B82	Hybrid Battery Voltage Sense O Circuit Range/Performance
P0B83	Hybrid Battery Voltage Sense O Circuit Low
P0B84	Hybrid Battery Voltage Sense O Circuit High
P0B85	Hybrid Battery Voltage Sense O Circuit Intermittent/Erratic
P0B86	Hybrid Battery Voltage Sense P Circuit
P0B87	Hybrid Battery Voltage Sense P Circuit Range/Performance
P0B88	Hybrid Battery Voltage Sense P Circuit Low
P0B89	Hybrid Battery Voltage Sense P Circuit High
P0B8A	Hybrid Battery Voltage Sense P Circuit Intermittent/Erratic
P0B8B	Hybrid Battery Voltage Sense Q Circuit
P0B8C	Hybrid Battery Voltage Sense Q Circuit Range/Performance
P0B8D	Hybrid Battery Voltage Sense Q Circuit Low
P0B8E	Hybrid Battery Voltage Sense Q Circuit High

6. Warranty and Service

6.1 Limited One Year Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE UDIAG PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

UDIAG product is warranted against defects in materials and workmanship for one year (12 months) from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and UDIAG shall not be liable for any consequential or incidental damages.

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