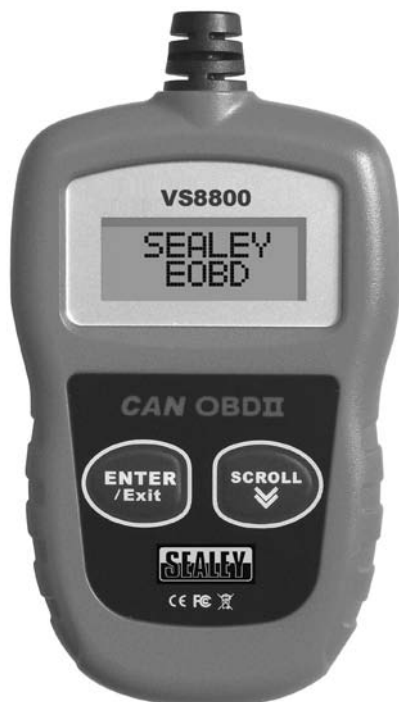


**SEALEY** Professional  
**TOOLS**  
Auto Service Line

# VS8800

## EOBD CODE READER



## INTRODUCTION:

Save time and money, plus take the guess-work out of your fault-finding and diagnosis with CAN enabled Sealey EOBD diagnostic tools - essential for the vehicle technician. Allows interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine. The competitively priced Model No.VS8800 EOBD tool works with all 1996 and later OBDII / EOBD compliant vehicles and is supplied with a code reference manual with over 7,000 DTC definitions.

*Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will give you years of trouble free performance, if these instructions are carefully followed and the product is correctly maintained.*

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We the sole importers into the UK, hereby declare that the equipment described below

Description and Function: **EOBD Code Reader**

Model/Type: **VS8800**

Manufacturing Date / Serial number (optional):

Manufacturer's authorised representative within the EC: **Jack Sealey Ltd. Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk, IP32 7AR**

Conforms to the requirements of the following Directives, as indicated.

- |  |   |
|--|---|
| <input type="checkbox"/> 2006/42/EC Machinery Directive                    | <input type="checkbox"/> 2000/14/EC Outdoor Noise Emissions Directive |
| <input type="checkbox"/> 2006/95/EC Low Voltage Directive                  | <input checked="" type="checkbox"/> 2002/96/EC WEEE Directive         |
| <input checked="" type="checkbox"/> 2004/108/EC EMC Directive              | <input checked="" type="checkbox"/> 2002/95/EC RoHS Directive         |
| <input type="checkbox"/> 93/68/EEC CE Marking Directive                    | <input type="checkbox"/> 97/23/EC Pressure Equipment Directive        |
| <input type="checkbox"/> 2009/105/EC the Simple Pressure Vessels Directive |   |

And the following harmonised standard(s)

.....  
.....  
.....  
.....

Additional technical standards and specifications (if applicable):  
.....  
.....

Technical file compiled by: **Jack Sealey Ltd.**

Signed: *Tim Thompson*

Date: **24-Apr-2012**

Place: **Bury St.Edmunds.**

Name: **Tim Thompson**

Position: **Commercial Director**

Being the responsible person appointed by the manufacturer.





**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY PRECAUTIONS.

- ✓ Wear safety eye protection that meets ANSI standards.
- ✓ Operate the vehicle to be tested in a well ventilated area. Exhaust gases are poisonous. If necessary connect the vehicle exhaust to a fume extraction system.
- ✓ Place chocks in front of the drive wheels and never leave the vehicle unattended whilst testing is in progress.
- ✓ Be extra cautious when working in close proximity to the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- ✓ Ensure that the handbrake is on and the gearbox is in neutral or 'Park' for automatic transmissions.
- ✓ Keep fire extinguishers nearby suitable for gasoline/ chemical/ electrical fires.
- ✓ Keep the code reader clean and in good condition.
- ✓ Remain vigilant when using the code reader on, or near, machinery where there are rotational parts such as belts, pulleys and fans.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain and/or tie back long hair.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep Product Surfaces Clean and Dry.
- ✗ **DO NOT** attempt to connect or disconnect any test equipment whilst the ignition is on or the engine is running.
- ✗ **DO NOT** use the code reader if damage is suspected. If suspected damage occurs with the device, have it inspected by qualified service personnel before using it again.
- ✗ **DO NOT** get the code reader wet or use in damp or wet locations or areas where there is condensation.
- ✗ **DO NOT** use the code reader for any purpose other than for which it is designed.
- ✗ **DO NOT** allow untrained persons to use code reader.
- ✗ **DO NOT** use the code reader when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** operate in a potentially explosive environment/atmosphere.
- WARNING:** The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

**INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor, Sealey Group,  
Kempton Way, Suffolk Business Park,  
Bury St. Edmunds, Suffolk.  
IP32 7AR



01284 757500



www.sealey.co.uk



01284 703534



sales@sealey.co.uk

## **2. General Information**

### **2.1 On-Board Diagnostics (OBD) II/EOBD**

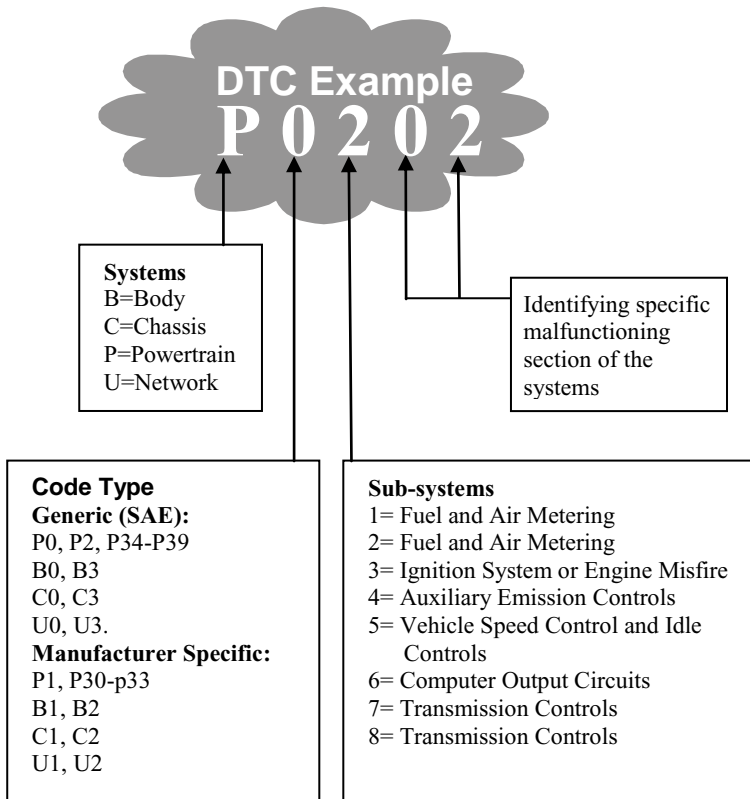
The first generation of On-Board Diagnostics (called OBD I) was developed by the California Air Resources Board (ARB) and implemented in 1988 to monitor some of the emission control components on vehicles. As technology evolved and the desire to improve the On-Board Diagnostic system increased, a new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

The European version of OBD II is commonly referred to as EOBD and has protocols developed for the European vehicle market. The EOBD 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 EOBD system turns on a warning lamp (MIL) on the vehicle instrument panel to alert the driver typically by the phrase of "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.**

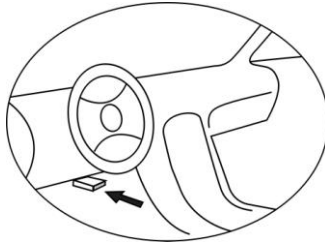
### **2.2 Diagnostic Trouble Codes (DTCs)**

EOBD 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. EOBD Diagnostic Trouble Codes consists 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 set. Here below is an example to illustrate the structure of the digits:



## 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 centre of the instrument panel (dash), under or around the driver's side for most vehicles. If Data Link Connector is not located under dashboard, a label should be there telling 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.



## 2.4 EOBD Readiness Monitors

An important part of a vehicle's EOBD system is the Readiness Monitors, which are indicators used to find out if all of the emissions components have been evaluated by the EOBD system. They are running periodic tests on specific systems and components to ensure that they are performing within allowable limits.

Currently, there are eleven EOBD Readiness Monitors (or I/M Monitors). 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 EOBD 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 EOBD 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**
- 2) **O2 Sensors**
- 3) **Catalyst**
- 4) **Evaporative System**
- 5) **O2 Sensor Heater**
- 6) **Secondary air**
- 7) **Heated Catalyst**
- 8) **A/C system**

## **2.5 EOBD Monitor Readiness Status**

EOBD systems must indicate whether or not the vehicle's PCM's monitor system has completed testing on each component. Components that have been tested will be reported as "Ready", or "Complete", meaning they have been tested by the EOBD system. The purpose of recording readiness status is to allow inspectors to determine if the vehicle's EOBD system has tested all the components and/or systems.

The power-train control module (PCM) sets a monitor to "Ready" or "Complete" after an appropriate drive cycle has been performed. The drive cycle that enables a monitor and sets readiness codes to "Ready" varies for each individual monitor. Once a monitor is set as "Ready" or "Complete", 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 "Not Ready". Since the three continuous monitors are constantly evaluating, they will be reported as "Ready" all of the time. If testing of a particular supported non-continuous monitor has not been completed, the monitor status will be reported as "Not Complete" or "Not Ready."

In order for the EOBD 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 EOBD monitor system ready, please consult your vehicle owner's manual.

## 2.6 EOBD Definitions

**Power-train Control Module (PCM)** -- EOBD terminology for the on-board computer that controls engine and 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) that 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.

**EOBD 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 EOBD 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 EOBD 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 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 Code Reader

#### 3.1 Tool Description



- ① **EOBD CONNECTOR** - Connects the code reader to the vehicle's Data Link Connector (DLC).
- ② **LCD DISPLAY** - Indicates test results. Backlit, 128 x 64 pixel display
- ③  **ENTER/Exit BUTTON** - Confirms a selection (or action) from a menu. Or returns to the previous menu.
- ④  **SCROLL BUTTON** - Scroll through menu items or cancel an operation.

#### 3.2 Specifications

- 1) Display: Backlit LCD, 2 lines, 8 characters each line.
- 2) Operating Temperature: 0 to 50°C (32 to 122 °F)
- 3) Storage Temperature: -20 to 70°C (-4 to 158 °F)
- 4) External Power: DC12V provided via the vehicle's battery
- 5) Dimensions:

<b>Length</b>	<b>Width</b>	<b>Height</b>
110 mm (4.33")	69 mm (2.72")	18 mm (0.71")

- 6) NW: 0.153kg (0.337lb)

### **3.3 Product Features**

- 1) Works with all 1996 and newer cars & light trucks that are EOBD compliant (including the CAN, VPW, PWM, ISO and KWP2000 protocols).
- 2) Reads and clears generic and manufacturer specific Diagnostic Trouble Codes (DTCs) and turns off check engine light.
- 3) Supports multiple trouble code requests: generic codes, pending codes and manufacturer's specific codes.
- 4) Reviews the emission readiness status of EOBD monitors.
- 5) Retrieves VIN (Vehicle Identification No.) on 2002 and newer vehicles that support Mode 9.
- 6) Determines the malfunction indicator lamp (MIL) status.
- 7) Easy to use with one plug-in; Highly reliable and accurate.
- 8) Easy-to-read crystal-clear backlit 2-line LCD display.
- 9) Stand-alone unit with no need for an additional laptop computer to operate.
- 10) Small in size and conveniently fits in your palm.
- 11) Safely communicates with the on-board computer.
- 12) No batteries needed--powered via detachable EOBD cable.

### **3.4 Vehicle Coverage**

The VS8800 EOBD Scanner is specially designed to work with all EOBD compliant vehicles, including those equipped with next-generation protocol -- Control Area Network (CAN).

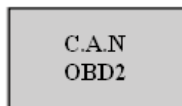
For your vehicle to be EOBD compliant it must have a 16-pin DLC (Data Link Connector) under the dash and the Vehicle Emission Control Information Label must state that the vehicle is EOBD compliant.

## 4. Operating Instructions

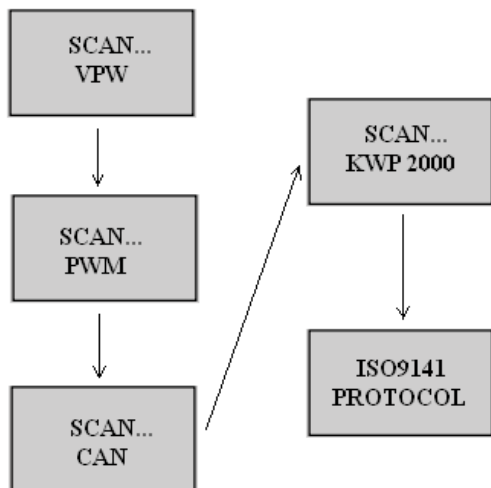
### 4.1 Reading Codes

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

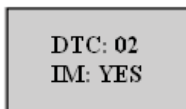
1. Turn the ignition off.
2. Locate the 16-pin Data Link Connector (DLC) and plug into the Code Reader cable connector to the DLC.
3. Wait for the LCD display to read “**C.A.N.OBD2**”.



4. Turn the ignition on. But do not start the engine.
5. Press the **ENTER** button. A sequence of messages showing the EOBD protocols will be observed on the display until the vehicle protocol is detected.

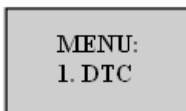


- Not all the above messages will be displayed unless protocol of the vehicle being tested is the last one—the ISO9141 protocol. They will stop appearing after the vehicle protocol is detected and a confirmation message of “XXX Protocol” is displayed.
  - **If a “LINK ERROR!” message shows up, turn the ignition off for about 10 seconds, check if the Code Readers’s EOBD connector is securely connected to the vehicle’s DLC, and then turn the ignition back to on. Repeat the procedure from step 5. If the “LINK ERROR” message does not go away, then there may be problems for the Code Reader to communicate with the vehicle.**
6. Wait for the main menu to come up after a brief overview displaying the scanning results with the total number of DTCs and the overall I/M Monitor Status.



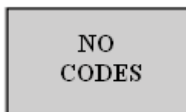
DTC: 02  
IM: YES

7. Select “**DTC**” from the main menu by pressing the **ENTER** button.



MENU:  
1. DTC

- If there are no Diagnostic Trouble Codes retrieved, the display will indicate “**NO CODES**”.



NO  
CODES

- If there are any Diagnostic Trouble Codes, then the total number of the Fault Codes followed by that of the Pending Codes will be reported on the display.

FAULT:02  
PEND: 02

8. Read the Diagnostic Trouble Codes by pressing the SCROLL button.
  - The first code number will appear on the first line of the LCD display, the numerical sequence of the code and the total number of the codes stored will appear on the second line. To view additional codes, press the **SCROLL** button to scroll, as necessary, until all the codes have been shown up.

P0101  
01/04

- If the code retrieved is a pending code, a “PD” will show on the LCD display in the end.

P0005 PD  
01/05

- To view previous codes, press the SCROLL button to scroll through to the end, and then start from the first of the list.
9. Look up part 5 for Diagnostic Trouble Code Definitions. Match the retrieved DTC(S) with those listed and read the definitions.

## 4.2 Erasing Codes

***CAUTION: Erasing the Diagnostic Trouble Codes allows the Code Reader to delete not only the codes from the vehicle’s on-board computer, but also “Freeze Frame” data and manufacturer specific enhanced data. Further, the I/M Readiness Monitor Status for all vehicle Monitors is reset to Not Ready or Not Complete status. Do not erase the codes before the system has been checked completely by a technician.***



1. If you decide to erase the DTCs, Select “**2. ERASE**” from the main menu by pressing the **ENTER** button.



MENU:  
2.ERASE

- If the Code Reader is not connected or no communication is established with the vehicle yet, then refer to “**Reading Codes**” from 1 to 6 at Paragraph 4.1.
2. A message of “**ERASE? YES NO**” comes up asking for your confirmation.



ERASE?  
YES NO

3. If you do not want to proceed with erasing the codes, **SCROLL** button to exit.
4. If you do wish to proceed to erase the codes, then press the **ENTER** button.
5. If the codes are cleared successfully, an “**ERASE DONE!**” message will show on the display. Press the **ENTER** button to return to the main Menu list.



ERASE  
DONE!

6. If the codes are not cleared, then an “**ERASE FAIL!**” message will appear. Press the **ENTER** button to return to the main Menu list.

ERASE  
FAIL!

***HOT KEY: Pressing and Holding the SCROLL button for about 3 seconds will allow you to erase the DTCs more quickly than through the main menu.***

### 4.3 Retrieving I/M Readiness Status

***IMPORTANT: I/M Readiness function is used to check the operations of the Emission System on EOBD compliant vehicles. It is an excellent function to use prior to having a vehicle inspected for compliance to a prescribed emissions program.***

**“YES”**--All monitors supported on the vehicle have completed their diagnostic testing and the MIL light is not on.

**“NO”**--At least one monitor supported on the vehicle has not completed its diagnostic testing, and (or) the “Check Engine”( MIL) light is on.

**“READY”**—Indicates that a particular monitor being checked has completed its diagnostic testing.

**“Not RDY(NOT READY)”**—Indicates that a particular monitor being checked has not completed its diagnostic testing.

**“N/A”**—The monitor is not supported on that vehicle.

**“→”**-- A flashing Right Arrow indicates additional information is available on the next screen.

“←”-- A flashing Left Arrow indicates additional information is available on the previous screen.

1. Select “**3. I/M**” from the main menu by pressing the **ENTER** button.



- If the Code Reader is not connected yet, then refer to “**Reading Codes**” from 1 to 6 at Section 4.1.
2. Use the **SCROLL** button to view the status of the **MIL** light (“**ON**” or “**OFF**”) and the following monitors:

**MISFIRE**--Misfire monitor

**FUEL**--Fuel System Monitor

**CCM**--Comprehensive Components Monitor

**CAT**-- Catalyst Monitor

**HCM**--Heated Catalyst Monitor

**EVAP**-- Evaporative System Monitor

**2AIR**-- Secondary Air Monitor

**A/C**--A/C system Monitor

**O2S**-- O2 Sensors Monitor

**HO2S**--O2 Sensor Heater Monitor

**EGR**-- EGR System Monitor

3. Press the **ENTER** button to return to the main Menu.

## 4.4 Viewing VIN Number

*The View VIN function allows you to retrieve the Vehicle Identification No. on 2002 and newer vehicles that support Mode 9.*

1. Select “**4. VIN**” from the main menu by pressing the **ENTER** Button.



- If the Code Reader is not connected yet, then refer to “**Reading Codes**” from step 1 to 6 at Section 4.1.
2. Use the **SCROLL** button to view additional digits of the 17-digit string.  
“→” -- A flashing Right Arrow indicates additional digits of VIN string are available on the next screen.  
“←” -- A flashing Left Arrow indicates additional digits of VIN string are available on the previous screen.
  3. Press the **ENTER** button to return to the main Menu.

## 4.5 Rescanning Data

*The RESCAN function allows you to retrieve the most current data stored in the ECM or to re-link to the vehicle if communication is disconnected.*

1. Select “**5. RESCAN**” from the main menu by pressing the **ENTER** button.

MENU:  
5.RESCAN

- If the Code Reader is not connected yet, then refer to **“Reading Codes”** from 1 to 6 at Section 4.1.
2. Use either the **SCROLL** or **ENTER** button to return to the main menu.

## **5. Warranty and Service**

### **5.1. Limited One Year Warranty**

Sealey warrants to its customers that this product will be free from all defects in materials and workmanship for a period of one (1) year from the date of the original purchase, subject to the following terms and conditions:

- 1) The sole responsibility of Sealey under the Warranty is limited to either the repair or, at the option of Sealey, replacement of the Code Reader at no charge with Proof of Purchase. The sales receipt may be used for this purpose.
- 2) This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired by anyone other than the Manufacturer's Service Centre.
- 3) Sealey shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the Code Reader.

### **5.2. Service Procedures**

If you have any questions, please contact your local distributor or visit our website at [www.sealey.co.uk](http://www.sealey.co.uk).

If it becomes necessary to return the Code Reader for repair, contact your local distributor for more information.

## 6. Diagnostic Trouble Code (DTC) Definitions

The following Diagnostic Trouble Code Definitions lists provide only Generic Diagnostic Trouble Codes. For Manufacturer Specific Diagnostic Trouble Code Definitions, consult the vehicle's service manual or the enclosed CD software.

***CAUTION: Parts or components should not be replaced based on only a DTC without first consulting the vehicle service manual for more information on possible causes of the fault as well as required testing procedures.***

### EOBD Generic DTC 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)
P0010	Camshaft Position Actuator A -Bank 1 Circuit Malfunction
P0011	Camshaft Position Actuator A -Bank 1 Timing Over-Advanced
P0012	Camshaft Position Actuator A - Bank 1 Timing Over-Retarded
P0013	Camshaft Position Actuator B - Bank 1 Circuit Malfunction
P0014	Camshaft Position Actuator B - Bank 1 Timing Over-Advanced
P0015	Camshaft Position Actuator B - Bank 1 Timing Over-Retarded
P0016	Cam/Crankshaft Pos. Correlation Sensor A - Bank 1
P0017	Cam/Crankshaft Pos. Correlation Sensor B - Bank 1
P0018	Cam/Crankshaft Pos. Correlation Sensor A - Bank 2
P0019	Cam/Crankshaft Pos. Correlation Sensor B - Bank 2
P0020	Camshaft Position Actuator A - Bank 2 Circuit Malfunction
P0021	Camshaft Position Actuator A - Bank 2 Timing Over-Advanced
P0022	Camshaft Position Actuator A -Bank 2 Timing Over-Retarded

## EOBD Generic DTC Definitions

P0023	Camshaft Position Actuator B - Bank 2 Circuit Malfunction
P0024	Camshaft Position Actuator B - Bank 2 Timing Over-Advanced
P0025	Camshaft Position Actuator B - Bank 2 Timing Over-Retarded
P0026	Intake Valve-Bank 1 Control Solenoid CKT Range/Performance
P0027	Exhaust Valve-Bank1 Control Solenoid CKT Range/Performance
P0028	Intake Valve-Bank 2 Control Solenoid CKT Range/Performance
P0029	Exhaust Valve-Bank2 Control Solenoid CKT Range/Performance
P0030	HO2S Bank 1 Sensor 1 Heater Circuit
P0031	HO2S Bank 1 Sensor 1 Heater Circuit Low
P0032	HO2S Bank 1 Sensor 1 Heater Circuit High
P0033	Turbo/Sup Wastegate Control Circuit
P0034	Turbo/Sup Wastegate Control Circuit Low
P0035	Turbo/Sup Wastegate Control Circuit High
P0036	HO2S Bank 1 Sensor 2 Heater Circuit
P0037	HO2S Bank 1 Sensor 2 Heater Circuit Low
P0038	HO2S Bank 1 Sensor 2 Heater Circuit High
P0039	Turbo/Super Charger Bypass Control CKT Performance
P0040	O2 Bank 1 Sensor 1 Signals Swapped w/ O2 Bank 2 Sensor 1
P0041	O2 Bank 1 Sensor 2 Signals Swapped w/ O2 Bank 2 Sensor 2
P0042	HO2S Bank 1 Sensor 3 Heater Circuit
P0043	HO2S Bank 1 Sensor 3 Heater Circuit Low
P0044	HO2S Bank 1 Sensor 3 Heater Circuit High
P0045	Turbo/Super Charger Boost Control Solenoid A Circuit Open
P0046	Turbo/Super Charger Boost Control Solenoid A Circuit Range/ Perform
P0047	Turbo/Super Charger Boost Control Solenoid A Circuit Low
P0048	Turbo/Super Charger Boost Control Solenoid A Circuit High
P0049	Turbo/Super Charger Boost Input/Turbine Speed Overspeed
P0050	HO2S Bank 2 Sensor 1 Heater Circuit
P0051	HO2S Bank 2 Sensor 1 Heater Circuit Low
P0052	HO2S Bank 2 Sensor 1 Heater Circuit High
P0053	HO2S Bank 1 Sensor 1 Heater Resistance
P0054	HO2S Bank 1 Sensor 2 Heater Resistance
P0055	HO2S Bank 1 Sensor 3 Heater Resistance
P0056	HO2S Bank 2 Sensor 2 Heater Circuit



P0057	HO2S Bank 2 Sensor 2 Heater Circuit Low
P0058	HO2S Bank 2 Sensor 2 Heater Circuit High
P0059	HO2S Bank 2 Sensor 1 Heater Resistance
P0060	HO2S Bank 2 Sensor 2 Heater Resistance
P0061	HO2S Bank 2 Sensor 3 Heater Resistance
P0062	HO2S Bank 2 Sensor 3 Heater Circuit
P0063	HO2S Bank 2 Sensor 3 Heater Circuit Low
P0064	HO2S Bank 2 Sensor 3 Heater Circuit High
P0065	Air Assisted Injector. Control Range/Performance
P0066	Air Assisted Injector. Control Circuit Low
P0067	Air Assisted Injector. Control Circuit High
P0068	MAF/MAP Sensor Throttle Position Correlation
P0069	MAP/BARO Correlation
P0070	Ambient Air Temp. Sensor Circuit
P0071	Ambient Air Temp. Sensor Range/Performance
P0072	Ambient Air Temp. Sensor Circuit Low
P0073	Ambient Air Temp. Sensor Circuit High
P0074	Ambient Air Temp. Sensor CKT Intermittent
P0075	Intake Valve-Bank 1 Control Circuit
P0076	Intake Valve-Bank 1 Control Circuit Low
P0077	Intake Valve-Bank 1 Control Circuit High
P0078	Exhaust Valve-Bank1 Control Circuit
P0079	Exhaust Valve-Bank1 Control Circuit Low
P0080	Exhaust Valve-Bank1 Control Circuit High
P0081	Intake Valve-Bank 2 Control Circuit
P0082	Intake Valve-Bank 2 Control Circuit Low
P0083	Intake Valve-Bank 2 Control Circuit High
P0084	Exhaust Valve-Bank2 Control Circuit
P0085	Exhaust Valve-Bank2 Control Circuit Low
P0086	Exhaust Valve-Bank2 Control Circuit High
P0087	Fuel Rail Pressure Too Low
P0088	Fuel Rail Pressure Too High
P0089	Fuel Pressure Regulator 1 Performance
P0090	Fuel Pressure Regulator 1 Control Circuit
P0091	Fuel Pressure Regulator 1 Control Circuit Low
P0092	Fuel Pressure Regulator 1 Control Circuit High

P0093	Fuel System Leak (Large)
P0094	Fuel System Leak (Small)
P0095	IAT Sensor 2 Circuit
P0096	IAT Sensor 2 CKT Range/Performance
P0097	IAT Sensor 2 Circuit Low
P0098	IAT Sensor 2 Circuit High
P0099	IAT Sensor 2 CKT Intermittent
P0100	MAF or VAF A Circuit Malfunction
P0101	MAF or VAF A Circuit Range/Performance
P0102	MAF or VAF A Circuit Low Input
P0103	MAF or VAF A Circuit High Input
P0104	MAF or VAF A Circuit Intermittent
P0105	MAP/BARO Circuit Malfunction
P0106	MAP/BARO CKT Range/Performance
P0107	MAP/BARO Circuit Low Input
P0108	MAP/BARO Circuit High Input
P0109	MAP/BARO CKT Intermittent
P0110	IAT Sensor Circuit Malfunction
P0111	IAT Sensor 1 CKT Range/Performance
P0112	IAT Sensor 1 Circuit Low Input
P0113	IAT Sensor 1 Circuit High Input
P0114	IAT Sensor 1 CKT Intermittent
P0115	Engine Coolant Temp Circuit Malfunction
P0116	Engine Coolant Temp CKT Range/Performance
P0117	Engine Coolant Temp Circuit Low Input
P0118	Engine Coolant Temp Circuit High Input
P0119	Engine Coolant Temp CKT Intermittent
P0120	TPS/Pedal Position Sensor A Circuit Malfunction
P0121	TPS/Pedal Position Sensor A CKT Range/Performance
P0122	TPS/Pedal Position Sensor A Circuit Low Input
P0123	TPS/Pedal Position Sensor A Circuit High Input
P0124	TPS/Pedal Position Sensor A CKT Intermittent
P0125	Closed Loop Fuel Ctrl Insufficient Coolant Temp
P0126	Coolant Temp Insufficient Stable Operation
P0127	IAT Sensor Too High
P0128	Coolant Temp Below Thermostat Regulating Temp

P0129	Barometric Pressure Too Low
P0130	O2 Sensor Circuit Malfunction (Bank 1 Sensor 1)
P0131	O2 Sensor Circuit Low Volts (Bank 1 Sensor 1)
P0132	O2 Sensor Circuit High Volts (Bank 1 Sensor 1)
P0133	O2 Sensor CKT Slow Response (Bank 1 Sensor 1)
P0134	O2 Sensor CKT No Activity (Bank 1 Sensor 1)
P0135	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
P0136	O2 Sensor Circuit Malfunction (Bank 1 Sensor 2)
P0137	O2 Sensor Circuit Low Volts (Bank 1 Sensor 2)
P0138	O2 Sensor Circuit High Volts (Bank 1 Sensor 2)
P0139	O2 Sensor CKT Slow Response (Bank 1 Sensor 2)
P0140	O2 Sensor CKT No Activity (Bank 1 Sensor 2)
P0141	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
P0142	O2 Sensor Circuit Malfunction (Bank 1 Sensor 3)
P0143	O2 Sensor Circuit Low Volts (Bank 1 Sensor 3)
P0144	O2 Sensor Circuit High Volts (Bank 1 Sensor 3)
P0145	O2 Sensor CKT Slow Response (Bank 1 Sensor 3)
P0146	O2 Sensor CKT No Activity (Bank 1 Sensor 3)
P0147	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)
P0148	Fuel Delivery Malfunction
P0149	Fuel Timing Malfunction
P0150	O2 Sensor Circuit Malfunction (Bank 2 Sensor 1)
P0151	O2 Sensor Circuit Low Volts (Bank 2 Sensor 1)
P0152	O2 Sensor Circuit High Volts (Bank 2 Sensor 1)
P0153	O2 Sensor CKT Slow Response (Bank 2 Sensor 1)
P0154	O2 Sensor CKT No Activity (Bank 2 Sensor 1)
P0155	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
P0156	O2 Sensor Circuit Malfunction (Bank 2 Sensor 2)
P0157	O2 Sensor Circuit Low Volts (Bank 2 Sensor 2)
P0158	O2 Sensor Circuit High Volts (Bank 2 Sensor 2)
P0159	O2 Sensor CKT Slow Response (Bank 2 Sensor 2)
P0160	O2 Sensor CKT No Activity (Bank 2 Sensor 2)
P0161	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
P0162	O2 Sensor Circuit Malfunction (Bank 2 Sensor 3)
P0163	O2 Sensor Circuit Low Volts (Bank 2 Sensor 3)
P0164	O2 Sensor Circuit High Volts (Bank 2 Sensor 3)

P0165	O2 Sensor CKT Slow Response (Bank 2 Sensor 3)
P0166	O2 Sensor CKT No Activity (Bank 2 Sensor 3)
P0167	O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)
P0168	Engine Fuel Temperature Too High
P0169	Fuel Composition Incorrect
P0170	Fuel Trim Malfunction (Bank 1)
P0171	System Too Lean (Bank 1)
P0172	System Too Rich (Bank 1)
P0173	Fuel Trim Malfunction (Bank 2)
P0174	System Too Lean (Bank 2)
P0175	System Too Rich (Bank 2)
P0176	Fuel Compensation Sensor Circuit Malfunction
P0177	Fuel Compensation Sensor CKT Range/Performance
P0178	Fuel Compensation Sensor Circuit Low Input
P0179	Fuel Compensation Sensor Circuit High Input
P0180	Fuel Temperature Sensor A Circuit Malfunction
P0181	Fuel Temperature Sensor A CKT Range/Performance
P0182	Fuel Temperature Sensor A Circuit Low Input
P0183	Fuel Temperature Sensor A Circuit High Input
P0184	Fuel Temperature Sensor A CKT Intermittent
P0185	Fuel Temperature Sensor B Circuit Malfunction
P0186	Fuel Temperature Sensor B CKT Range/Performance
P0187	Fuel Temperature Sensor B Circuit Low Input
P0188	Fuel Temperature Sensor B Circuit High Input
P0189	Fuel Temperature Sensor B CKT Intermittent
P0190	Fuel Rail Pressure Sensor Circuit Malfunction
P0191	Fuel Rail Pressure Sensor CKT Range/Performance
P0192	Fuel Rail Pressure Sensor Circuit Low Input
P0193	Fuel Rail Pressure Sensor Circuit High Input
P0194	Fuel Rail Pressure Sensor CKT Intermittent
P0195	Engine Oil Temp Sensor Circuit Malfunction
P0196	Engine Oil Temp Sensor CKT Range/Performance
P0197	Engine Oil Temp Sensor Circuit Low Input
P0198	Engine Oil Temp Sensor Circuit High Input
P0199	Engine Oil Temp Sensor CKT Intermittent
P0200	Injector Circuit Open

P0201	Injector Circuit Open Cylinder 1
P0202	Injector Circuit Open Cylinder 2
P0203	Injector Circuit Open Cylinder 3
P0204	Injector Circuit Open Cylinder 4
P0205	Injector Circuit Open Cylinder 5
P0206	Injector Circuit Open Cylinder 6
P0207	Injector Circuit Open Cylinder 7
P0208	Injector Circuit Open Cylinder 8
P0209	Injector Circuit Open Cylinder 9
P0210	Injector Circuit Open Cylinder 10
P0211	Injector Circuit Open Cylinder 11
P0212	Injector Circuit Open Cylinder 12
P0213	Cold Start Injector 1 Malfunction
P0214	Cold Start Injector 2 Malfunction
P0215	Engine Shutoff Solenoid Malfunction
P0216	Injection Timing Control Circuit Malfunction
P0217	Engine Overtemp Condition
P0218	Transmission Overtemp Condition
P0219	Engine Overspeed Condition
P0220	TPS/Pedal Position Sensor/Switch B Circuit Malfunction
P0221	TPS/Pedal Position Sensor/Switch B CKT Range/Performance
P0222	TPS/Pedal Position Sensor/Switch B Circuit Low Input
P0223	TPS/Pedal Position Sensor/Switch B Circuit High Input
P0224	TPS/Pedal Position Sensor/Switch B CKT Intermittent
P0225	TPS/Pedal Position Sensor/Switch C Circuit Malfunction
P0226	TPS/Pedal Position Sensor/Switch C CKT Range/Performance
P0227	TPS/Pedal Position Sensor/Switch C Circuit Low Input
P0228	TPS/Pedal Position Sensor/Switch C Circuit High Input
P0229	TPS/Pedal Position Sensor/Switch C CKT Intermittent
P0230	Fuel Pump Primary Circuit Malfunction
P0231	Fuel Pump Secondary Circuit Low
P0232	Fuel Pump Secondary Circuit High
P0233	Fuel Pump Secondary Circuit Intermittent Ckt
P0234	Engine Overboost Condition
P0235	Turbo/Super Boost Sensor A Circuit Malfunction
P0236	Turbo/Super Boost Sensor A CKT Range/Performance

P0237	Turbo/Super Boost Sensor A Circuit Low Input
P0238	Turbo/Super Boost Sensor A Circuit High Input
P0239	Turbo/Super Boost Sensor B Circuit Malfunction
P0240	Turbo/Super Boost Sensor B CKT Range/Performance
P0241	Turbo/Super Boost Sensor B Circuit Low Input
P0242	Turbo/Super Boost Sensor B Circuit High Input
P0243	Turbo/Sup Wastegate Solenoid A Malfunction
P0244	Turbo/Sup Wastegate Solenoid A Range/Performance
P0245	Turbo/Sup Wastegate Solenoid A Low
P0246	Turbo/Sup Wastegate Solenoid A High
P0247	Turbo/Sup Wastegate Solenoid B Malfunction
P0248	Turbo /Sup Wastegate Solenoid B Range/Performance
P0249	Turbo/Sup Wastegate Solenoid B Low
P0250	Turbo/Sup Wastegate Solenoid B High
P0251	Injection Pump Metering Control A
P0252	Injection Pump Metering Control A Range/Performance
P0253	Injection Pump Metering Control A Low
P0254	Injection Pump Metering Control A High
P0255	Injection Pump Metering Control A Intermittent (Cam/Rotor/Injector)
P0256	Injection Pump Metering Control B Malfunction (Cam/Rotor/Injector)
P0257	Injection Pump Metering Control B Range/Performance (Cam/Rotor/Injector)
P0258	Injection Pump Metering Control B Low (Cam/Rotor/Injector)
P0259	Injection Pump Metering Control B High (Cam/Rotor/Injector)
P0260	Injection Pump Metering Control B Intermittent (Cam/Rotor/Injector)
P0261	Cylinder 1 Injector Control Circuit Low
P0262	Cylinder 1 Injector Control Circuit High
P0263	Cylinder 1 Contribution Balance Fault
P0264	Cylinder 2 Injector Control Circuit Low
P0265	Cylinder 2 Injector Control Circuit High
P0266	Cylinder 2 Contribution Balance Fault
P0267	Cylinder 3 Injector Control Circuit Low
P0268	Cylinder 3 Injector Control Circuit High
P0269	Cylinder 3 Contribution Balance Fault
P0270	Cylinder 4 Injector Control Circuit Low
P0271	Cylinder 4 Injector Control Circuit High

P0272	Cylinder 4 Contribution Balance Fault
P0273	Cylinder 5 Injector Control Circuit Low
P0274	Cylinder 5 Injector Control Circuit High
P0275	Cylinder 5 Contribution Balance Fault
P0276	Cylinder 6 Injector Control Circuit Low
P0277	Cylinder 6 Injector Control Circuit High
P0278	Cylinder 6 Contribution Balance Fault
P0279	Cylinder 7 Injector Control Circuit Low
P0280	Cylinder 7 Injector Control Circuit High
P0281	Cylinder 7 Contribution Balance Fault
P0282	Cylinder 8 Injector Control Circuit Low
P0283	Cylinder 8 Injector Control Circuit High
P0284	Cylinder 8 Contribution Balance Fault
P0285	Cylinder 9 Injector Control Circuit Low
P0286	Cylinder 9 Injector Control Circuit High
P0287	Cylinder 9 Contribution Balance Fault
P0288	Cylinder 10 Injector Control Circuit Low
P0289	Cylinder 10 Injector Control Circuit High
P0290	Cylinder 10 Contribution Balance Fault
P0291	Cylinder 11 Injector Control Circuit Low
P0292	Cylinder 11 Injector Control Circuit High
P0293	Cylinder 11 Contribution Balance Fault
P0294	Cylinder 12 Injector Control Circuit Low
P0295	Cylinder 12 Injector Control Circuit High
P0296	Cylinder 12 Contribution Balance Fault
P0297	Vehicle Overspeed Error
P0298	Engine Oil Temperature Too High
P0299	Turbo/Super Charger UnderBoost
P0300	Random/Multiple Cylinder Misfire Detected
P0301	Cylinder 1 Misfire Detected
P0302	Cylinder 2 Misfire Detected
P0303	Cylinder 3 Misfire Detected
P0304	Cylinder 4 Misfire Detected
P0305	Cylinder 5 Misfire Detected
P0306	Cylinder 6 Misfire Detected

P0307	Cylinder 7 Misfire Detected
P0308	Cylinder 8 Misfire Detected
P0309	Cylinder 9 Misfire Detected
P0310	Cylinder 10 Misfire Detected
P0311	Cylinder 11 Misfire Detected
P0312	Cylinder 12 Misfire Detected
P0313	Misfire Detected Low Fuel Level
P0314	Misfire Detected Cyl. not Specific
P0315	Crankshaft Position System Variation Not Learned
P0316	Misfire Detected 1st 1000 Revs.
P0317	Rough Road Hardware Not Present
P0318	Rough Road Sensor A Signal Circuit
P0319	Rough Road Sensor B
P0320	Ignition/Dist Engine Speed Input Circuit Malfunction
P0321	Ignition/Dist Engine Speed Input CKT Range/Performance
P0322	Ignition/Dist Engine Speed Input Circuit No Signal
P0323	Ignition/Dist Engine Speed Input CKT Intermittent
P0324	Knock Control System Malfunction
P0325	Knock Sensor 1 Circuit Malfunction Bank 1 or 1 Sensor
P0326	Knock Sensor 1 CKT Range/Performance Bank 1 or 1 Sensor
P0327	Knock Sensor 1 Circuit Low Input Bank 1 or 1 Sensor
P0328	Knock Sensor 1 Circuit High Input Bank 1 or 1 Sensor
P0329	Knock Sensor 1 CKT Intermittent Bank 1 or 1 Sensor
P0330	Knock Sensor 2 Circuit Malfunction (Bank 2)
P0331	Knock Sensor 2 CKT Range/Performance (Bank 2)
P0332	Knock Sensor 2 Circuit Low Input (Bank 2)
P0333	Knock Sensor 2 Circuit High Input (Bank 2)
P0334	Knock Sensor 2 CKT Intermittent (Bank 2)
P0335	Crankshaft Position Sensor A Circuit Malfunction
P0336	Crankshaft Position Sensor A CKT Range/Performance
P0337	Crankshaft Position Sensor A Circuit Low Input
P0338	Crankshaft Position Sensor A Circuit High Input
P0339	Crankshaft Position Sensor A CKT Intermittent
P0340	Camshaft Position Sensor A - Bank 1 Circuit Malfunction
P0341	Camshaft Position Sensor A - Bank 1 CKT Range/Performance



P0342	Camshaft Position Sensor A - Bank 1 Circuit Low Input
P0343	Camshaft Position Sensor A - Bank 1 Circuit High Input
P0344	Camshaft Position Sensor A - Bank 1 CKT Intermittent
P0345	Camshaft Position Sensor A - Bank 2 Circuit Malfunction
P0346	Camshaft Position Sensor A - Bank 2 CKT Range/Performance
P0347	Camshaft Position Sensor A - Bank 2 Circuit Low Input
P0348	Camshaft Position Sensor A - Bank 2 Circuit High Input
P0349	Camshaft Position Sensor A - Bank 2 CKT Intermittent
P0350	Ignition Coil Primary/Secondary Circuit Malfunction
P0351	Ignition Coil A Primary/Secondary Circuit Malfunction
P0352	Ignition Coil B Primary/Secondary Circuit Malfunction
P0353	Ignition Coil C Primary/Secondary Circuit Malfunction
P0354	Ignition Coil D Primary/Secondary Circuit Malfunction
P0355	Ignition Coil E Primary/Secondary Circuit Malfunction
P0356	Ignition Coil F Primary/Secondary Circuit Malfunction
P0357	Ignition Coil G Primary/Secondary Circuit Malfunction
P0358	Ignition Coil H Primary/Secondary Circuit Malfunction
P0359	Ignition Coil I Primary/Secondary Circuit Malfunction
P0360	Ignition Coil J Primary/Secondary Circuit Malfunction
P0361	Ignition Coil K Primary/Secondary Circuit Malfunction
P0362	Ignition Coil L Primary/Secondary Circuit Malfunction
P0363	Misfire Detected Fueling Disabled
P0365	Camshaft Position Sensor B - Bank 1 Circuit Malfunction
P0366	Camshaft Position Sensor B - Bank 1 CKT Range/Performance
P0367	Camshaft Position Sensor B - Bank 1 Circuit Low Input
P0368	Camshaft Position Sensor B - Bank 1 Circuit High Input
P0369	Camshaft Position Sensor B - Bank 1 CKT Intermittent
P0370	Timing Reference High Resolution Signal A Malfunction
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 Erratic Pulses
P0374	Timing Reference High Resolution Signal A No Pulses
P0375	Timing Reference High Resolution Signal B Malfunction
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 Erratic Pulses
P0379	Timing Reference High Resolution Signal B No Pulses
P0380	Glow Plug/Heater CKT A Malfunction
P0381	Glow Plug/Heater Indicator Circuit Malfunction
P0382	Glow Plug/Heater CKT B Malfunction
P0383	Glow Plug Module Control Circuit Low
P0384	Glow Plug Module Control Circuit High
P0385	Crankshaft Position Sensor B Circuit Malfunction
P0386	Crankshaft Position Sensor B CKT Range/Performance
P0387	Crankshaft Position Sensor B Circuit Low Input
P0388	Crankshaft Position Sensor B Circuit High Input
P0389	Crankshaft Position Sensor B CKT Intermittent
P0390	Camshaft Position Sensor B - Bank 2 Circuit Malfunction
P0391	Camshaft Position Sensor B - Bank 2 CKT Range/Performance
P0392	Camshaft Position Sensor B - Bank 2 Circuit Low Input
P0393	Camshaft Position Sensor B - Bank 2 Circuit High Input
P0394	Camshaft Position Sensor B - Bank 2 CKT Intermittent
P0400	EGR Flow Malfunction
P0401	EGR Flow Insufficient
P0402	EGR Flow Excessive
P0403	EGR Flow Circuit Malfunction
P0404	EGR Flow CKT Range/Performance
P0405	EGR Flow Sensor A Circuit Low Input
P0406	EGR Flow Sensor A Circuit High Input
P0407	EGR Flow Sensor B Circuit Low Input
P0408	EGR Flow Sensor B Circuit High Input
P0409	EGR Flow Sensor A Circuit
P0410	Secondary Air Injection System Malfunction
P0411	Secondary Air Injection System Incorrect Flow
P0412	Secondary Air Injection System Valve A Malfunction
P0413	Secondary Air Injection System Valve A CKT Open
P0414	Secondary Air Injection System Valve A CKT Short
P0415	Secondary Air Injection System Valve B Malfunction
P0416	Secondary Air Injection System Valve B CKT Open
P0417	Secondary Air Injection System Valve B CKT Short

P0418	Secondary Air Injection System Relay A Malfunction
P0419	Secondary Air Injection System Relay B Malfunction
P0420	Catalyst Efficiency Below Threshold (Bank 1)
P0421	Warm Up Catalyst Below Threshold (Bank 1)
P0422	Main Catalyst Below Threshold (Bank 1)
P0423	Heated Catalyst Below Threshold (Bank 1)
P0424	Heated Catalyst Temp Below Threshold (Bank 1)
P0425	Catalyst Temp. Sensor (Bank 1 Sensor 1)
P0426	Catalyst Temp. Sensor Performance (Bank 1 Sensor 1)
P0427	Catalyst Temp. Sensor Circuit Low (Bank 1 Sensor 1)
P0428	Catalyst Temp. Sensor Circuit High (Bank 1 Sensor 1)
P0429	Catalyst Heater Control (Bank 1)
P0430	Catalyst Efficiency Below Threshold (Bank 2)
P0431	Warm Up Catalyst Below Threshold (Bank 2)
P0432	Main Catalyst Below Threshold (Bank 2)
P0433	Heated Catalyst Below Threshold (Bank 2)
P0434	Heated Catalyst Temp Below Threshold (Bank 2)
P0435	Catalyst Temp. Sensor (Bank 2 Sensor 1)
P0436	Catalyst Temp. Sensor Performance (Bank 2 Sensor 1)
P0437	Catalyst Temp. Sensor Circuit Low (Bank 2 Sensor 1)
P0438	Catalyst Temp. Sensor Circuit High (Bank 2 Sensor 1)
P0439	Catalyst Heater Control (Bank 2)
P0440	EVAP Emission Control System Malfunction
P0441	EVAP Emission Control System Purge Flow Fault
P0442	EVAP Emission Control System Leak (Small)
P0443	EVAP Emission Control System Purge Valve C Fault
P0444	EVAP Emission Control System Purge Valve C Open
P0445	EVAP Emission Control System Purge Valve C Short
P0446	EVAP Emission Control System Vent Circuit Malf
P0447	EVAP Emission Control System Vent Circuit Open
P0448	EVAP Emission Control System Vent Circuit Short
P0449	EVAP Emission Control System Vent Vlv/Sol Malf
P0450	EVAP Emission Control System Pres Sensor Fault
P0451	EVAP Emission Control System Pres Sensor Range
P0452	EVAP Emission Control System Pres Sensor Low
P0453	EVAP Emission Control System Pres Sensor High

P0454	EVAP Emission Control System Pres Sensor Erratic
P0455	EVAP Emission Control System Leak (Large)
P0456	EVAP Emission Control System Leak Very Small
P0457	EVAP Emission Control System Leak Cap Loose/Off
P0458	EVAP System Canister Purge Sol Circuit Low
P0459	EVAP System Canister Purge Sol Circuit High
P0460	Fuel Level Sensor A Circuit Malfunction
P0461	Fuel Level Sensor A CKT Range/Performance
P0462	Fuel Level Sensor A Circuit Low Input
P0463	Fuel Level Sensor A Circuit High Input
P0464	Fuel Level Sensor A CKT Intermittent
P0465	EVAP Emission Purge Flow Sensor Circuit Malfunction
P0466	EVAP Emission Purge Flow Sensor CKT Range/Performance
P0467	EVAP Emission Purge Flow Sensor Circuit Low Input
P0468	EVAP Emission Purge Flow Sensor Circuit High Input
P0469	EVAP Emission Purge Flow Sensor CKT Intermittent
P0470	Exhaust Pressure Sensor Circuit Malfunction
P0471	Exhaust Pressure Sensor CKT Range/Performance
P0472	Exhaust Pressure Sensor Circuit Low Input
P0473	Exhaust Pressure Sensor Circuit High Input
P0474	Exhaust Pressure Sensor CKT Intermittent
P0475	Exhaust Pressure Control Valve Circuit Malfunction
P0476	Exhaust Pressure Control Valve CKT Range/Performance
P0477	Exhaust Pressure Control Valve Circuit Low Input
P0478	Exhaust Pressure Control Valve Circuit High Input
P0479	Exhaust Pressure Control Valve CKT Intermittent
P0480	Cooling Fan 1 Control Circuit
P0481	Cooling Fan 2 Control Circuit
P0482	Cooling Fan 3 Control Circuit
P0483	Control Fan Rationality Check Malfunction
P0484	Control Fan CKT Over Current
P0485	Control Fan Power/Ground Circuit Malfunction
P0486	EGR System Sensor B Circuit
P0487	EGR TPS Control Circuit
P0488	EGR TPS Control CKT Range/Performance
P0489	EGR Control Circuit Low

P0490	EGR Control Circuit High
P0491	Secondary Air System (Bank 1)
P0492	Secondary Air System (Bank 2)
P0493	Fan Speed Overspeed
P0494	Fan Speed Low
P0495	Fan Speed High
P0496	EVAP Emission High Purge Flow Fault
P0497	EVAP Emission Low Purge Flow Fault
P0498	EVAP Emission Vent Vlv/Sol Malf Circuit Low
P0499	EVAP Emission Vent Vlv/Sol Malf Circuit High
P0500	Vehicle Speed Sensor A Malfunction
P0501	Vehicle Speed Sensor A Range/Performance
P0502	Vehicle Speed Sensor A Circuit Low Input
P0503	Vehicle Speed Sensor A Erratic/High
P0504	Brake Switch A Brake Switch B Correlation
P0505	Idle Control System Malfunction
P0506	Idle Control System RPM Low
P0507	Idle Control System RPM High
P0508	Idle Control System Circuit Low
P0509	Idle Control System Circuit High
P0510	Closed Throttle Position Switch
P0511	Idle Air Control Circuit
P0512	Starter Signal Circuit
P0513	Immobilizer Incorrect
P0514	Battery Temperature Sensor CKT Range/Performance
P0515	Battery Temperature Sensor Circuit
P0516	Battery Temperature Circuit Low
P0517	Battery Temperature Circuit High
P0518	Idle Air Control CKT Intermittent
P0519	Idle Air Control System Performance
P0520	Engine Oil Pressure Sensor/Switch Circuit Malfunction
P0521	Engine Oil Pressure Sensor/Switch Range/Performance
P0522	Engine Oil Pressure Sensor/Switch Low Voltage
P0523	Engine Oil Pressure Sensor/Switch High Voltage
P0524	Engine Oil Pressure Too Low
P0525	Cruise Servo CKT Range/Performance

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

P0562	System Voltage Low
P0563	System Voltage High
P0564	Cruise Control Multi-Function. Input A Signal Error
P0565	Cruise Control On Signal Malfunction
P0566	Cruise Control Off Signal Malfunction
P0567	Cruise Control Resume Signal Malfunction
P0568	Cruise Control Set Signal Malfunction
P0569	Cruise Control Coast Signal Malfunction
P0570	Cruise Control Acceleration Signal Error
P0571	Brake Switch A Circuit Malfunction
P0572	Brake Switch A Circuit Low Input
P0573	Brake Switch A Circuit High Input
P0574	Cruise Control Vehicle Speed Too High
P0575	Cruise Control Circuit Malfunction
P0576	Cruise Control Circuit Low Input
P0577	Cruise Control Circuit High Input
P0578	Cruise Control Multi-Function Input A Circuit Stuck
P0579	Cruise Control Multi-Function Input A CKT 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 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 CKT 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	Cruise Control Circuit Open

P0598	Cruise Control Circuit Low
P0599	Cruise Control Circuit High
P0600	Serial Communication Link Malfunction
P0601	Internal Control Module Memory Check Sum Error
P0602	Control Module Programming Error
P0603	PCM Keep Alive Memory (KAM) Error
P0604	PCM Random Access Memory (RAM) Error
P0605	PCM Read Only Memory (ROM) Error
P0606	PCM Processor Fault
P0607	Control Module Performance
P0608	Control Module VSS Output A Malfunction
P0609	Control Module VSS Output B Malfunction
P0610	Control Module Vehicle Options Malfunction
P0611	Injector Control Module Performance
P0612	Injector Control Module Relay Control
P0613	TCM Processor Fault
P0614	ECM/TCM Incompatible
P0615	Starter Relay Circuit
P0616	Starter Relay Circuit Low
P0617	Starter Relay Circuit High
P0618	Alternative Fuel Module (KAM) Error
P0619	Alternative Fuel Module Memory
P0620	Generator Control Malfunction
P0621	Generator L-Term. Lamp Control
P0622	Generator F-Term. Field F Control
P0623	Generator Lamp Control Circuit
P0624	Fuel Cap Lamp Circuit
P0625	Generator F-Term. Circuit Low
P0626	Generator F-Term. Circuit High
P0627	Fuel Pump A Control Circuit Open
P0628	Fuel Pump A Control Circuit Low
P0629	Fuel Pump A Control Circuit High
P0630	PCM VIN Not Program. Or Mismatch
P0631	TCM VIN Not Program. Or Mismatch
P0632	Odometer Code Not Programmed ECM/PCM
P0633	Immobilizer Code Not Programmed ECM/PCM



P0634	PCM/ECM/TCM Internal Temp. Too High
P0635	Power Steering Control Circuit
P0636	Power Steering Control Circuit Low
P0637	Power Steering Control Circuit High
P0638	Throttle Actuator Range/Performance (Bank 1)
P0639	Throttle Actuator Range/Performance (Bank 2)
P0640	Intake Air Heater Control Circuit
P0641	Sensor A Reference Voltage Circuit Open
P0642	Sensor A Reference Voltage Circuit Low
P0643	Sensor A Reference Voltage Circuit High
P0644	Driver Display Serial Communication Link
P0645	A/C Clutch Relay Control Circuit
P0646	A/C Clutch Relay Control Circuit Low
P0647	A/C Clutch Relay Control Circuit High
P0648	Immobilizer Lamp Circuit
P0649	Cruise Control Lamp Circuit
P0650	MIL Control Circuit Malfunction
P0651	Sensor B Reference Voltage Circuit Open
P0652	Sensor B Reference Voltage Circuit Low
P0653	Sensor B Reference Voltage Circuit High
P0654	Engine RPM Circuit Malfunction
P0655	Engine Hot Lamp Output Circuit Malfunction
P0656	Fuel Level Output Circuit Malfunction
P0657	Actuator Supply Voltage A Circuit Open
P0658	Actuator Supply Voltage A Circuit Low
P0659	Actuator Supply Voltage A Circuit High
P0660	Intake Man Tuning Control CKT Open (Bank 1)
P0661	Intake Man Tuning Control CKT Low (Bank 1)
P0662	Intake Man Tuning Control CKT High (Bank 1)
P0663	Intake Man Tuning Control CKT Open (Bank 2)
P0664	Intake Man Tuning Control CKT Low (Bank 2)
P0665	Intake Man Tuning Control CKT High (Bank 2)
P0666	PCM/ECM/TCM Internal Temp. Sensor Circuit
P0667	PCM/ECM/TCM Internal Temp. Sensor Range/Performance
P0668	PCM/ECM/TCM Internal Temp. Sensor Circuit Low
P0669	PCM/ECM/TCM Internal Temp. Sensor Circuit High

P0670	Glow Plug/Heater Module Control
P0671	Glow Plug/Heater Cylinder 1
P0672	Glow Plug/Heater Cylinder 2
P0673	Glow Plug/Heater Cylinder 3
P0674	Glow Plug/Heater Cylinder 4
P0675	Glow Plug/Heater Cylinder 5
P0676	Glow Plug/Heater Cylinder 6
P0677	Glow Plug/Heater Cylinder 7
P0678	Glow Plug/Heater Cylinder 8
P0679	Glow Plug/Heater Cylinder 9
P0680	Glow Plug/Heater Cylinder 10
P0681	Glow Plug/Heater Cylinder 11
P0682	Glow Plug/Heater Cylinder 12
P0683	Glow Plug/Heater Module Communication Problem
P0684	Glow Plug/Heater Communication Problem CKT 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
P0690	ECM/PCM Power Relay Sense Circuit High
P0691	Fan 1 Control Circuit Low
P0692	Fan 1 Control Circuit High
P0693	Fan 2 Control Circuit Low
P0694	Fan 2 Control Circuit High
P0695	Fan 3 Control Circuit Low
P0696	Fan 3 Control Circuit High
P0697	Sensor C Reference Voltage Circuit Open
P0698	Sensor C Reference Voltage Circuit Low
P0699	Sensor C Reference Voltage Circuit High
P0700	Trans Control Sys Malfunction
P0701	Trans Control Sys Range/Performance
P0702	Trans Control Sys Electrical
P0703	Brake Switch B Circuit Malfunction
P0704	Clutch Switch Input Circuit Malfunction
P0705	Trans Range Sensor Circuit Malfunction (PRNDL Input)

P0706	Trans Range Sensor CKT Range/Performance
P0707	Trans Range Sensor Circuit Low Input
P0708	Trans Range Sensor Circuit High Input
P0709	Trans Range Sensor CKT Intermittent
P0710	Transmission Fluid Temperature Sensor Circuit Malfunction
P0711	Trans Fluid Temp Sensor A CKT Range/Performance
P0712	Trans Fluid Temp Sensor A Circuit Low Input
P0713	Trans Fluid Temp Sensor A Circuit High Input
P0714	Trans Fluid Temp Sensor A CKT Intermittent
P0715	Input/Turbine Speed Sensor A Circuit Malfunction
P0716	Input/Turbine Speed Sensor A CKT Range/Performance
P0717	Input/Turbine Speed Sensor A Circuit No Signal
P0718	Input/Turbine Speed Sensor A CKT Intermittent
P0719	Brake Switch B Circuit Low Input
P0720	Output Speed Sensor Circuit Malfunction
P0721	Output Speed Sensor Circuit Range/Performance
P0722	Output Speed Sensor Circuit No Signal
P0723	Output Speed Sensor CKT Intermittent
P0724	Brake Switch B Circuit High Input
P0725	Engine Speed Sensor Circuit Malfunction
P0726	Engine Speed Sensor CKT Range/Performance
P0727	Engine Speed Sensor Circuit No Signal
P0728	Engine Speed Sensor CKT Intermittent
P0729	Gear 6 Ratio Incorrect
P0730	Gear Ratio Incorrect
P0731	Gear 1 Ratio Incorrect
P0732	Gear 2 Ratio Incorrect
P0733	Gear 3 Ratio Incorrect
P0734	Gear 4 Ratio Incorrect
P0735	Gear 5 Ratio Incorrect
P0736	Reverse Ratio Incorrect
P0737	TCM Engine Speed Output Circuit
P0738	TCM Engine Speed Output Circuit Low
P0739	TCM Engine Speed Output Circuit High
P0740	TCC Circuit Malfunction
P0741	Torque Converter CKT Performance Or Stuck Off

P0742	Torque Converter Circuit Stuck On
P0743	Torque Converter Circuit Electrical
P0744	Torque Converter CKT Intermittent
P0745	Pres Control Sol. A Circuit Malfunction
P0746	Pres Control Sol. A CKT Performance Or Stuck Off
P0747	Pres Control Sol. A Circuit Stuck On
P0748	Pres Control Sol. A Circuit Electrical
P0749	Pres Control Sol. A CKT Intermittent
P0750	Shift Solenoid A Malfunction
P0751	Shift Solenoid A CKT Performance Or Stuck Off
P0752	Shift Solenoid A Circuit Stuck On
P0753	Shift Solenoid A Circuit Electrical
P0754	Shift Solenoid A CKT Intermittent
P0755	Shift Solenoid B Malfunction
P0756	Shift Solenoid B CKT Performance Or Stuck Off
P0757	Shift Solenoid B Circuit Stuck On
P0758	Shift Solenoid B Circuit Electrical
P0759	Shift Solenoid B CKT Intermittent
P0760	Shift Solenoid C Malfunction
P0761	Shift Solenoid C CKT Performance Or Stuck Off
P0762	Shift Solenoid C Circuit Stuck On
P0763	Shift Solenoid C Circuit Electrical
P0764	Shift Solenoid C CKT Intermittent
P0765	Shift Solenoid D Malfunction
P0766	Shift Solenoid D CKT Performance Or Stuck Off
P0767	Shift Solenoid D Circuit Stuck On
P0768	Shift Solenoid D Circuit Electrical
P0769	Shift Solenoid D CKT Intermittent
P0770	Shift Solenoid E Malfunction
P0771	Shift Solenoid E CKT Performance Or Stuck Off
P0772	Shift Solenoid E Circuit Stuck On
P0773	Shift Solenoid E Circuit Electrical
P0774	Shift Solenoid E CKT Intermittent
P0775	Pres Ctrl Sol. B Circuit Malfunction
P0776	Pres Ctrl Sol. B CKT Performance Or Stuck Off
P0777	Pres Ctrl Sol. B Circuit Stuck On

P0778	Pres Ctrl Sol. B Circuit Electrical
P0779	Pres Ctrl Sol. B CKT Intermittent
P0780	Shift Malfunction
P0781	1-2 Shift Malfunction
P0782	2-3 Shift Malfunction
P0783	3-4 Shift Malfunction
P0784	4-5 Shift Malfunction
P0785	Shift/Timing Solenoid Malfunction
P0786	Shift/Timing Solenoid Range/Performance
P0787	Shift/Timing Solenoid Low
P0788	Shift/Timing Solenoid High
P0789	Shift/Timing Solenoid Intermittent Ckt
P0790	Normal/Performance Switch Circuit Malfunction
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 CKT Intermittent
P0795	Pres Ctrl Sol. C Malfunction
P0796	Pres Ctrl Sol. C CKT Performance Or Stuck Off
P0797	Pres Ctrl Sol. C Circuit Stuck On
P0798	Pres Ctrl Sol. C Circuit Electrical
P0799	Pres Ctrl Sol. C CKT Intermittent
P0800	Transfer Case Control System MIL Request
P0801	Reverse Inhibit Control Circuit Malfunction
P0802	Trans Control Sys MIL Request Circuit Open
P0803	1-4 Upshift (Skip Shift) Solenoid Circuit Malfunction
P0804	1-4 Upshift (Skip Shift) Lamp Circuit Malfunction
P0805	Clutch Position Sensor Circuit Malfunction
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 Ckt
P0810	Clutch Position Control Malfunction
P0811	Clutch Slippage Excessive
P0812	Reverse Input Circuit Malfunction
P0813	Reverse Output Circuit Malfunction

P0814	Trans Range Display Circuit Malfunction
P0815	Upshift Switch Circuit Malfunction
P0816	Downshift Switch Circuit Malfunction
P0817	Starter Disable Circuit
P0818	Driveline Disconnect Switch Input
P0819	Up/Down Shift SW Transmission Range Correlation
P0820	Gear Lever X-Y Sensor Circuit
P0821	Gear Lever X Sensor Circuit
P0822	Gear Lever Y Sensor Circuit
P0823	Gear Lever X Sensor Circuit Intermittent Ckt
P0824	Gear Lever Y Sensor Circuit Intermittent Ckt
P0825	Gear Lever Push/Pull Switch (Shift Anticipate)
P0826	Upshift Switch Downshift Switch Circuit
P0827	Upshift Switch Downshift Switch Circuit Low
P0828	Upshift Switch Downshift Switch Circuit High
P0829	5-6 Shift
P0830	Clutch Position Switch A Circuit Malfunction
P0831	Clutch Position Switch A Circuit Low
P0832	Clutch Position Switch A Circuit High
P0833	Clutch Position Switch B Circuit Malfunction
P0834	Clutch Position Switch B Circuit Low
P0835	Clutch Position Switch B Circuit High
P0836	4 Wheel Drive Switch Circuit Malfunction
P0837	4 Wheel Drive Switch CKT Range/Performance
P0838	4 Wheel Drive Switch Circuit Low
P0839	4 Wheel Drive Switch Circuit High
P0840	Trans Fluid Press Sensor/Switch A Circuit Malfunction
P0841	Trans Fluid Press Sensor/Switch A CKT Range/Performance
P0842	Trans Fluid Press Sensor/Switch A Circuit Low
P0843	Trans Fluid Press Sensor/Switch A Circuit High
P0844	Trans Fluid Press Sensor/Switch A CKT Intermittent
P0845	Trans Fluid Press Sensor/Switch B Circuit Malfunction
P0846	Trans Fluid Press Sensor/Switch B CKT Range/Performance
P0847	Trans Fluid Press Sensor/Switch B Circuit Low
P0848	Trans Fluid Press Sensor/Switch B Circuit High
P0849	Trans Fluid Press Sensor/Switch B CKT Intermittent

P0850	Park/Neutral Switch Input Circuit
P0851	Park/Neutral Switch Circuit Low Input
P0852	Park/Neutral Switch Circuit High Input
P0853	Drive Switch Input Circuit
P0854	Drive Switch Circuit Low Input
P0855	Drive Switch Circuit High Input
P0856	Traction Control Input Signal
P0857	Traction Control Input Signal Range/Performance
P0858	Traction Control Input Signal Low
P0859	Traction Control Input Signal High
P0860	Gear Shift Module Communications Circuit
P0861	Gear Shift Module Communications Circuit Low
P0862	Gear Shift Module Communications Circuit High
P0863	TCM Communications Circuit
P0864	TCM Communications CKT Range/Performance
P0865	TCM Communications Circuit Low
P0866	TCM Communications Circuit High
P0867	Trans Fluid Press
P0868	Trans Fluid Press Low
P0869	Trans Fluid Press High
P0870	Trans Fluid Press Sensor/Switch C Circuit
P0871	Trans Fluid Press Sensor/Switch C CKT Range/Performance
P0872	Trans Fluid Press Sensor/Switch C Circuit Low
P0873	Trans Fluid Press Sensor/Switch C Circuit High
P0874	Trans Fluid Press Sensor/Switch C CKT Intermittent
P0875	Trans Fluid Press Sensor/Switch D Circuit
P0876	Trans Fluid Press Sensor/Switch D CKT Range/Performance
P0877	Trans Fluid Press Sensor/Switch D Circuit Low
P0878	Trans Fluid Press Sensor/Switch D Circuit High
P0879	Trans Fluid Press Sensor/Switch D CKT Intermittent
P0880	TCM Power Input Signal
P0881	TCM Power Input Signal Range/Performance
P0882	TCM Power Input Signal Low
P0883	TCM Power Input Signal High
P0884	TCM Power Input Signal CKT Intermittent
P0885	TCM Power Relay Control Circuit Open

P0886	TCM Power Relay Control Circuit Low
P0887	TCM Power Relay Control Circuit High
P0888	TCM Power Relay Sense Circuit
P0889	TCM Power Relay Sense CKT Range/Performance
P0890	TCM Power Relay Sense Circuit Low
P0891	TCM Power Relay Sense Circuit High
P0892	TCM Power Relay Sense CKT Intermittent
P0893	Multiple Gears Engaged
P0894	Transmission Comp. Slipping
P0895	Shift Time Too Short
P0896	Shift Time Too Long
P0897	Transmission Fluid Deteriorated
P0898	Transmission Ctrl. MIL Request Circuit Low
P0899	Transmission Ctrl. MIL Request Circuit High
P0900	Clutch Actuator Circuit Open
P0901	Clutch Actuator CKT Range/Performance
P0902	Clutch Actuator Circuit Low
P0903	Clutch Actuator Circuit High
P0904	Gate Select Position Circuit
P0905	Gate Select Position CKT Range/Performance
P0906	Gate Select Position Circuit Low
P0907	Gate Select Position Circuit High
P0908	Gate Select Position CKT Intermittent
P0909	Gate Select Control Error
P0910	Gate Select Actuator Circuit Open
P0911	Gate Select Actuator CKT Range/Performance
P0912	Gate Select Actuator Circuit Low
P0913	Gate Select Actuator Circuit High
P0914	Gear Shift Position Circuit
P0915	Gear Shift Position CKT Range/Performance
P0916	Gear Shift Position Circuit Low
P0917	Gear Shift Position Circuit High
P0918	Gear Shift Position CKT Intermittent
P0919	Gear Shift Position Control Error
P0920	Gear Shift Forward Actuator Circuit Open
P0921	Gear Shift Forward Actuator CKT Range/Performance



P0922	Gear Shift Forward Actuator Circuit Low
P0923	Gear Shift Forward Actuator Circuit High
P0924	Gear Shift Reverse Actuator Circuit Open
P0925	Gear Shift Reverse Actuator CKT Range/Performance
P0926	Gear Shift Reverse Actuator Circuit Low
P0927	Gear Shift Reverse Actuator Circuit High
P0928	Gear Shift Lock Solenoid Ctrl Circuit Open
P0929	Gear Shift Lock Solenoid Ctrl CKT Range/Performance
P0930	Gear Shift Lock Solenoid Ctrl Circuit Low
P0931	Gear Shift Lock Solenoid Ctrl Circuit High
P0932	Hydraulic Pressure Sensor Circuit
P0933	Hydraulic Pressure Sensor CKT Range/Performance
P0934	Hydraulic Pressure Sensor Circuit Low
P0935	Hydraulic Pressure Sensor Circuit High
P0936	Hydraulic Pressure Sensor CKT Intermittent
P0937	Hydraulic Oil Temp Sensor Circuit
P0938	Hydraulic Oil Temp Sensor CKT Range/Performance
P0939	Hydraulic Oil Temp Sensor Circuit Low
P0940	Hydraulic Oil Temp Sensor Circuit High
P0941	Hydraulic Oil Temp Sensor CKT Intermittent
P0942	Hyd. Pressure Unit
P0943	Hyd. Pressure Unit Cycling Too Short
P0944	Hyd. Pressure Unit Loss of Pressure
P0945	Hyd. Pump Relay Circuit Open
P0946	Hyd. Pump Relay CKT Range/Performance
P0947	Hyd. Pump Relay Circuit Low
P0948	Hyd. Pump Relay Circuit High
P0949	Auto Shift Adaptive Learning Not Complete
P0950	Auto Shift Manual Control Circuit
P0951	Auto Shift Manual Control CKT Range/Performance
P0952	Auto Shift Manual Control Circuit Low
P0953	Auto Shift Manual Control Circuit High
P0954	Auto Shift Manual Control CKT Intermittent
P0955	Auto Shift Manual Mode Circuit
P0956	Auto Shift Manual Mode CKT Range/Performance
P0957	Auto Shift Manual Mode Circuit Low

P0958	Auto Shift Manual Mode Circuit High
P0959	Auto Shift Manual Mode CKT Intermittent
P0960	Pressure Control Solenoid A Control Circuit Open
P0961	Pressure Control Solenoid A Control CKT 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 CKT 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 CKT Range/Performance
P0970	Pressure Control Solenoid C Control Circuit Low
P0971	Pressure Control Solenoid C Control Circuit High
P0972	Shift Solenoid A Control CKT Range/Performance
P0973	Shift Solenoid A Control Circuit Low
P0974	Shift Solenoid A Control Circuit High
P0975	Shift Solenoid B Control CKT Range/Performance
P0976	Shift Solenoid B Control Circuit Low
P0977	Shift Solenoid B Control Circuit High
P0978	Shift Solenoid C Control CKT Range/Performance
P0979	Shift Solenoid C Control Circuit Low
P0980	Shift Solenoid C Control Circuit High
P0981	Shift Solenoid D Control CKT Range/Performance
P0982	Shift Solenoid D Control Circuit Low
P0983	Shift Solenoid D Control Circuit High
P0984	Shift Solenoid E Control CKT Range/Performance
P0985	Shift Solenoid E Control Circuit Low
P0986	Shift Solenoid E Control Circuit High
P0987	Trans Fluid Press Sensor/Switch E Circuit
P0988	Trans Fluid Press Sensor/Switch E CKT Range/Performance
P0989	Trans Fluid Press Sensor/Switch E Circuit Low
P0990	Trans Fluid Press Sensor/Switch E Circuit High
P0991	Trans Fluid Press Sensor/Switch E CKT Intermittent
P0992	Trans Fluid Press Sensor/Switch F Circuit
P0993	Trans Fluid Press Sensor/Switch F CKT Range/Performance

P0994	Trans Fluid Press Sensor/Switch F Circuit Low
P0995	Trans Fluid Press Sensor/Switch F Circuit High
P0996	Trans Fluid Press Sensor/Switch F CKT Intermittent
P0997	Shift Solenoid F Control CKT 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
P09A0 -P09FF	ISO/SAE Reserved
P0A00	Motor Electronics Coolant Temperature Sensor Circuit
P0A01	Motor Electronics Coolant Temperature Sensor Circuit
P0A02	Range/Performance
P0A03	Motor Electronics Coolant Temperature Sensor Circuit Low
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
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
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
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 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
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
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
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
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
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
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 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
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
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
P0B8F	Hybrid Battery Voltage Sense "Q" Circuit Intermittent/Erratic
P0B90	Hybrid Battery Voltage Sense "R" Circuit
P0B91	Hybrid Battery Voltage Sense "R" Circuit Range/Performance
P0B92	Hybrid Battery Voltage Sense "R" Circuit Low
P0B93	Hybrid Battery Voltage Sense "R" Circuit High
P0B94	Hybrid Battery Voltage Sense "R" Circuit Intermittent/Erratic

P0B95	Hybrid Battery Voltage Sense "S" Circuit
P0B96	Hybrid Battery Voltage Sense "S" Circuit Range/Performance
P0B97	Hybrid Battery Voltage Sense "S" Circuit Low
P0B98	Hybrid Battery Voltage Sense "S" Circuit High
P0B99	Hybrid Battery Voltage Sense "S" Circuit Intermittent/Erratic
P0B9A	Hybrid Battery Voltage Sense "T" Circuit
P0B9B	Hybrid Battery Voltage Sense "T" Circuit Range/Performance
P0B9C	Hybrid Battery Voltage Sense "T" Circuit Low
P0B9D	Hybrid Battery Voltage Sense "T" Circuit High
P0B9E	Hybrid Battery Voltage Sense "T" Circuit Intermittent/Erratic
P0B9F	Hybrid Battery Voltage Sense "U" Circuit
P0BA0	Hybrid Battery Voltage Sense "U" Circuit Range/Performance
P0BA1	Hybrid Battery Voltage Sense "U" Circuit Low
P0BA2	Hybrid Battery Voltage Sense "U" Circuit High
P0BA3	Hybrid Battery Voltage Sense "U" Circuit Intermittent/Erratic
P0BA4	Hybrid Battery Voltage Sense "V" Circuit
P0BA5	Hybrid Battery Voltage Sense "V" Circuit Range/Performance
P0BA6	Hybrid Battery Voltage Sense "V" Circuit Low
P0BA7	Hybrid Battery Voltage Sense "V" Circuit High
P0BA8	Hybrid Battery Voltage Sense "V" Circuit Intermittent/Erratic
P0BA9	Hybrid Battery Voltage Sense "W" Circuit
P0BAA	Hybrid Battery Voltage Sense "W" Circuit Range/Performance
P0BAB	Hybrid Battery Voltage Sense "W" Circuit Low
P0BAC	Hybrid Battery Voltage Sense "W" Circuit High
P0BAD	Hybrid Battery Voltage Sense "W" Circuit Intermittent/Erratic
P0BAE	Hybrid Battery Voltage Sense "X" Circuit
P0BAF	Hybrid Battery Voltage Sense "X" Circuit Range/Performance
P0BB0	Hybrid Battery Voltage Sense "X" Circuit Low
P0BB1	Hybrid Battery Voltage Sense "X" Circuit High
P0BB2	Hybrid Battery Voltage Sense "X" Circuit Intermittent/Erratic
P0BB3	Hybrid Battery Voltage Sense "Y" Circuit
P0BB4	Hybrid Battery Voltage Sense "Y" Circuit Range/Performance
P0BB5	Hybrid Battery Voltage Sense "Y" Circuit Low
P0BB6	Hybrid Battery Voltage Sense "Y" Circuit High
P0BB7	Hybrid Battery Voltage Sense "Y" Circuit Intermittent/Erratic

P0BB8	Hybrid Battery Voltage Sense "Z" Circuit
P0BB9	Hybrid Battery Voltage Sense "Z" Circuit Range/Performance
P0BBA	Hybrid Battery Voltage Sense "Z" Circuit Low
P0BBB	Hybrid Battery Voltage Sense "Z" Circuit High
P0BBC	Hybrid Battery Voltage Sense "Z" Circuit Intermittent/Erratic
P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit
P0BBE	Hybrid Battery Pack Voltage Variation
P0BBF	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit/Open
P0BC0	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit Low
P0BC1	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit High
P0BC2	Hybrid Battery Temperature Sensor "E" Circuit
P0BC3	Hybrid Battery Temperature Sensor "E" Range/Performance
P0BC4	Hybrid Battery Temperature Sensor "E" Circuit Low
P0BC5	Hybrid Battery Temperature Sensor "E" Circuit High
P0BBD	Hybrid Battery Pack Voltage Variation Exceeded Limit
P0BBE	Hybrid Battery Pack Voltage Variation
P0BBF	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit/Open
P0BC0	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit Low
P0BC1	Hybrid Battery Pack Cooling Fan Supply Voltage Circuit High
P0BC2	Hybrid Battery Temperature Sensor "E" Circuit
P0BC3	Hybrid Battery Temperature Sensor "E" Range/Performance
P0BC4	Hybrid Battery Temperature Sensor "E" Circuit Low
P0BC5	Hybrid Battery Temperature Sensor "E" Circuit High
P0BC6	Hybrid Battery Temperature Sensor "E" Circuit Intermittent/Erratic
P0BC7	Hybrid Battery Pack Cooling Fan Sense Circuit/Open
P0BC8	Hybrid Battery Pack Cooling Fan Sense Range/Performance
P0BC9	Hybrid Battery Pack Cooling Fan Sense Circuit Low
P0BCA	Hybrid Battery Pack Cooling Fan Sense Circuit High
P0BCB	Hybrid Battery Pack Cooling Fan Sense Circuit Intermittent/Erratic
P0BCC	Generator Inverter Temperature Sensor Circuit
P0BCD	Generator Inverter Temperature Sensor Circuit Range/Performance
P0BCE	Generator Inverter Temperature Sensor Circuit Low
P0BCF	Generator Inverter Temperature Sensor Circuit High
P0BD0	Generator Inverter Temperature Sensor Circuit Intermittent/Erratic
P0BD1	Drive Motor Inverter Temperature Sensor "C" Circuit



P0BD2	Drive Motor Inverter Temperature Sensor "C" Circuit Range/Performance
P0BD3	Drive Motor Inverter Temperature Sensor "C" Circuit Low
P0BD4	Drive Motor Inverter Temperature Sensor "C" Circuit High
P0BD5	Drive Motor Inverter Temperature Sensor "C" Circuit Intermittent/Erratic
P0BD6	Drive Motor Inverter Temperature Sensor "D" Circuit
P0BD7	Drive Motor Inverter Temperature Sensor "D" Circuit Range/Performance
P0BD8	Drive Motor Inverter Temperature Sensor "D" Circuit Low
P0BD9	Drive Motor Inverter Temperature Sensor "D" Circuit High
P0BDA	Drive Motor Inverter Temperature Sensor "D" Circuit Intermittent/Erratic
P0BDB	Drive Motor Inverter Temperature Sensor "E" Circuit
P0BDC	Drive Motor Inverter Temperature Sensor "E" Circuit Range/Performance
P0BDD	Drive Motor Inverter Temperature Sensor "E" Circuit Low
P0BDE	Drive Motor Inverter Temperature Sensor "E" Circuit High
P0BDF	Drive Motor Inverter Temperature Sensor "E" Circuit Intermittent/Erratic
P0BE0	Drive Motor Inverter Temperature Sensor "F" Circuit
P0BE1	Drive Motor Inverter Temperature Sensor "F" Circuit Range/Performance
P0BE2	Drive Motor Inverter Temperature Sensor "F" Circuit Low
P0BE3	Drive Motor Inverter Temperature Sensor "F" Circuit High
P0BE4	Drive Motor Inverter Temperature Sensor "F" Circuit Intermittent/Erratic
P0BE5	Drive Motor "A" Phase U Current Sensor Circuit
P0BE6	Drive Motor "A" Phase U Current Sensor Circuit Range/Performance
P0BE7	Drive Motor "A" Phase U Current Sensor Circuit Low
P0BE8	Drive Motor "A" Phase U Current Sensor Circuit High
P0BE9	Drive Motor "A" Phase V Current Sensor Circuit
P0BEA	Drive Motor "A" Phase V Current Sensor Circuit Range/Performance
P0BEB	Drive Motor "A" Phase V Current Sensor Circuit Low
P0BEC	Drive Motor "A" Phase V Current Sensor Circuit High
P0BED	Drive Motor "A" Phase W Current Sensor Circuit
P0BEE	Drive Motor "A" Phase W Current Sensor Circuit Range/Performance
P0BEF	Drive Motor "A" Phase W Current Sensor Circuit Low
P0BF0	Drive Motor "A" Phase W Current Sensor Circuit High
P0BF1	Drive Motor "B" Phase U Current Sensor Circuit
P0BF2	Drive Motor "B" Phase U Current Sensor Circuit Range/Performance
P0BF3	Drive Motor "B" Phase U Current Sensor Circuit Low
P0BF4	Drive Motor "B" Phase U Current Sensor Circuit High

P0BF5	Drive Motor "B" Phase V Current Sensor Circuit
P0BF6	Drive Motor "B" Phase V Current Sensor Circuit Range/Performance
P0BF7	Drive Motor "B" Phase V Current Sensor Circuit Low
P0BF8	Drive Motor "B" Phase V Current Sensor Circuit High
P0BF9	Drive Motor "B" Phase W Current Sensor Circuit
P0BFA	Drive Motor "B" Phase W Current Sensor Circuit Range/Performance
P0BFB	Drive Motor "B" Phase W Current Sensor Circuit Low
P0BFC	Drive Motor "B" Phase W Current Sensor Circuit High
P0BFD	Drive Motor "A" Phase U-V-W Current Sensor Correlation
P0BFE	Drive Motor "B" Phase U-V-W Current Sensor Correlation
P0BFF	Drive Motor "A" Current
P0C00	Drive Motor "A" Current Low
P0C01	Drive Motor "A" Current High
P0C02	Drive Motor "B" Current
P0C03	Drive Motor "B" Current Low
P0C04	Drive Motor "B" Current High
P0C05	Drive Motor "A" Phase U-V-W Circuit/Open
P0C06	Drive Motor "A" Phase U-V-W Circuit Low
P0C07	Drive Motor "A" Phase U-V-W Circuit High
P0C08	Drive Motor "B" Phase U-V-W Circuit/Open
P0C09	Drive Motor "B" Phase U-V-W Circuit Low
P0C0A	Drive Motor "B" Phase U-V-W Circuit High
P0C0B	Drive Motor "A" Inverter Power Supply Circuit/Open
P0C0C	Drive Motor "A" Inverter Power Supply Circuit Low
P0C0D	Drive Motor "A" Inverter Power Supply Circuit High
P0C0E	Drive Motor "B" Inverter Power Supply Circuit/Open
P0C0F	Drive Motor "B" Inverter Power Supply Circuit Low
P0C10	Drive Motor "B" Inverter Power Supply Circuit High
P0C11	Drive Motor "A" Inverter Phase U Over Temperature
P0C12	Drive Motor "A" Inverter Phase V Over Temperature
P0C13	Drive Motor "A" Inverter Phase W Over Temperature
P0C14	Drive Motor "B" Inverter Phase U Over Temperature
P0C15	Drive Motor "B" Inverter Phase V Over Temperature
P0C16	Drive Motor "B" Inverter Phase W Over Temperature
P0C17	Drive Motor "A" Position Sensor Not Learned

P0C18	Drive Motor "B" Position Sensor Not Learned
P0C19	Drive Motor "A" Torque Delivered Performance
P0C1A	Drive Motor "B" Torque Delivered Performance
P0C1B	Auxiliary Transmission Fluid Pump Control Module Internal Temperature Too High
P0C1C	Auxiliary Transmission Fluid Pump Control Module Internal Temperature Sensor Circuit
P0C1D	Auxiliary Transmission Fluid Pump Control Module Internal Temperature Sensor Circuit Range/Performance
P0C1E	Auxiliary Transmission Fluid Pump Control Module Internal Temperature Sensor Circuit Low
P0C1F	Auxiliary Transmission Fluid Pump Control Module Internal Temperature Sensor Circuit High
P0C20	Auxiliary Transmission Fluid Pump Phase U-V-W Circuit/Open
P0C21	Auxiliary Transmission Fluid Pump Phase U-V-W Circuit Low
P0C22	Auxiliary Transmission Fluid Pump Phase U-V-W Circuit High
P0C23	Auxiliary Transmission Fluid Pump Control Module Circuit/Open
P0C24	Auxiliary Transmission Fluid Pump Control Module Circuit Low
P0C25	Auxiliary Transmission Fluid Pump Control Module Circuit High
P0C26	Auxiliary Transmission Fluid Pump Motor Current
P0C27	Auxiliary Transmission Fluid Pump Motor Current Low
P0C28	Auxiliary Transmission Fluid Pump Motor Current High
P0C29	Auxiliary Transmission Fluid Pump Driver Circuit Performance
P0C2A	Auxiliary Transmission Fluid Pump Motor Stalled
P0C2B	Auxiliary Transmission Fluid Pump Control Module Feedback Signal
P0C2C	Auxiliary Transmission Fluid Pump Control Module Feedback Signal Range/Performance
P0C2D	Auxiliary Transmission Fluid Pump Control Module Feedback Signal Low
P0C2E	Auxiliary Transmission Fluid Pump Control Module Feedback Signal High
P0C2F	Internal Control Module Drive Motor/Generator - Engine Speed Sensor Performance
P0C30	Hybrid Battery Pack State of Charge High
P0C31	Inverter "B" Cooling System Performance
P0C32	Hybrid Battery Cooling System Performance
P0C33	Hybrid Battery Temperature Sensor "F" Circuit
P0C34	Hybrid Battery Temperature Sensor "F" Circuit Range/Performance

P0C35	Hybrid Battery Temperature Sensor "F" Circuit Low
P0C36	Hybrid Battery Temperature Sensor "F" Circuit High
P0C37	Hybrid Battery Temperature Sensor "F" Circuit Intermittent/Erratic
P0C38	DC/DC Converter Temperature Sensor "A" Circuit
P0C39	DC/DC Converter Temperature Sensor "A" Range/Performance
P0C3A	DC/DC Converter Temperature Sensor "A" Low
P0C3B	DC/DC Converter Temperature Sensor "A" High
P0C3C	DC/DC Converter Temperature Sensor "A" Intermittent/Erratic
P0C3D	DC/DC Converter Temperature Sensor "B" Circuit
P0C3E	DC/DC Converter Temperature Sensor "B" Range/Performance
P0C3F	DC/DC Converter Temperature Sensor "B" Low
P0C40	DC/DC Converter Temperature Sensor "B" High
P0C41	DC/DC Converter Temperature Sensor "B" Intermittent/Erratic
P0C42	Hybrid Battery Pack Coolant Temperature Sensor Circuit
P0C43	Hybrid Battery Pack Coolant Temperature Sensor Circuit Range/Performance
P0C44	Hybrid Battery Pack Coolant Temperature Sensor Circuit Low
P0C45	Hybrid Battery Pack Coolant Temperature Sensor Circuit High
P0C46	Hybrid Battery Pack Coolant Temperature Sensor Circuit Intermittent/Erratic
P0C47	Hybrid Battery Pack Coolant Pump Control Circuit/Open
P0C48	Hybrid Battery Pack Coolant Pump Control Circuit Low
P0C49	Hybrid Battery Pack Coolant Pump Control Circuit High
P0C4A	Hybrid Battery Pack Coolant Pump Control Performance
P0C4B	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit/Open
P0C4C	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit Low
P0C4D	Hybrid Battery Pack Coolant Pump Supply Voltage Circuit High
P0C4E	Drive Motor "A" Position Exceeded Learning Limit
P0C4F	Drive Motor "B" Position Exceeded Learning Limit
P0C50	Drive Motor "A" Position Sensor Circuit "A"
P0C51	Drive Motor "A" Position Sensor Circuit "A" Range/Performance
P0C52	Drive Motor "A" Position Sensor Circuit "A" Low
P0C53	Drive Motor "A" Position Sensor Circuit "A" High
P0C54	Drive Motor "A" Position Sensor Circuit "A" Intermittent/Erratic
P0C55	Drive Motor "B" Position Sensor Circuit "A"
P0C56	Drive Motor "B" Position Sensor Circuit "A" Range/Performance

P0C57	Drive Motor "B" Position Sensor Circuit "A" Low
P0C58	Drive Motor "B" Position Sensor Circuit "A" High
P0C59	Drive Motor "B" Position Sensor Circuit "A" Intermittent/Erratic
P0C5A	Drive Motor "A" Position Sensor Circuit "B"
P0C5B	Drive Motor "A" Position Sensor Circuit "B" Range/Performance
P0C5C	Drive Motor "A" Position Sensor Circuit "B" Low
P0C5D	Drive Motor "A" Position Sensor Circuit "B" High
P0C5E	Drive Motor "A" Position Sensor Circuit "B" Intermittent/Erratic
P0C5F	Drive Motor "B" Position Sensor Circuit "B"
P0C60	Drive Motor "B" Position Sensor Circuit "B" Range/Performance
P0C61	Drive Motor "B" Position Sensor Circuit "B" Low
P0C62	Drive Motor "B" Position Sensor Circuit "B" High
P0C63	Drive Motor "B" Position Sensor Circuit "B" Intermittent/Erratic
P0C64	Generator Position Sensor Circuit "A"
P0C65	Generator Position Sensor Circuit "A" Range/Performance
P0C66	Generator Position Sensor Circuit "A" Low
P0C67	Generator Position Sensor Circuit "A" High
P0C68	Generator Position Sensor Circuit "A" Intermittent/Erratic
P0C69	Generator Position Sensor Circuit "B"
P0C6A	Generator Position Sensor Circuit "B" Range/Performance
P0C6B	Generator Position Sensor Circuit "B" Low
P0C6C	Generator Position Sensor Circuit "B" High
P0C6D	Generator Position Sensor Circuit "B" Intermittent/Erratic
P0C6E	Hybrid Battery Temperature Sensor "A"/"B" Correlation
P0C6F	Hybrid Battery Temperature Sensor "B"/"C" Correlation
P0C70	Hybrid Battery Temperature Sensor "C"/"D" Correlation
P0C71	Hybrid Battery Temperature Sensor "D"/"E" Correlation
P0C72	Hybrid Battery Temperature Sensor "E"/"F" Correlation
P0C73	Motor Electronics Coolant Pump "A" Control Performance
P0C74	Motor Electronics Coolant Pump "B" Control Performance
P0C75	Hybrid Battery System Discharge Time Too Short
P0C76	Hybrid Battery System Discharge Time Too Long
P0C77	Hybrid Battery System Precharge Time Too Short
P0C78	Hybrid Battery System Precharge Time Too Long
P0C79	Drive Motor "A" Inverter Voltage Too High

P0C7A	Drive Motor "B" Inverter Voltage Too High
P0C7B	Generator Inverter Voltage Too High
P0C7C	Hybrid Battery Temperature Sensor "G" Circuit
P0C7D	Hybrid Battery Temperature Sensor "G" Range/Performance
P0C7E	Hybrid Battery Temperature Sensor "G" Circuit Low
P0C7F	Hybrid Battery Temperature Sensor "G" Circuit High
P0C80	Hybrid Battery Temperature Sensor "G" Circuit Intermittent/Erratic
P0C81	Hybrid Battery Temperature Sensor "H" Circuit
P0C82	Hybrid Battery Temperature Sensor "H" Range/Performance
P0C83	Hybrid Battery Temperature Sensor "H" Circuit Low
P0C84	Hybrid Battery Temperature Sensor "H" Circuit High
P0C85	Hybrid Battery Temperature Sensor "H" Circuit Intermittent/Erratic
P0C86	Hybrid Battery Temperature Sensor "F"/"G" Correlation
P0C87	Hybrid Battery Temperature Sensor "G"/"H" Correlation
P0C88	ISO/SAE Reserved
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P0CFF	
P0D00	ISO/SAE Reserved
P0E00	ISO/SAE Reserved
P0F00	ISO/SAE Reserved
P1000	Manufacturer Controlled DTC
P2000	NOx Adsorber Efficiency Below Threshold
P2001	NOx Adsorber Efficiency Below Threshold
P2002	Diesel Particulate Filter Efficiency Below Threshold
P2003	Diesel Particulate Filter Efficiency Below Threshold
P2004	Intake Manifold Runner Control Stuck Open
P2005	Intake Manifold Runner Control Stuck Open
P2006	Intake Manifold Runner Control Stuck Closed
P2007	Intake Manifold Runner Control Stuck Closed
P2008	Intake Manifold Runner Control Circuit/Open
P2009	Intake Manifold Runner Control Circuit Low
P200A	Intake Manifold Runner Performance
P200B	Intake Manifold Runner Performance
P200C	Diesel Particulate Filter Over Temperature
P200D	Diesel Particulate Filter Over Temperature
P200E	Catalyst System Over Temperature

P200F	Catalyst System Over Temperature
P2010	Intake Manifold Runner Control Circuit High
P2011	Intake Manifold Runner Control Circuit/Open
P2012	Intake Manifold Runner Control Circuit Low
P2013	Intake Manifold Runner Control Circuit High
P2014	Intake Manifold Runner Position Sensor/Switch Circuit
P2015	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance
P2016	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2017	Intake Manifold Runner Position Sensor/Switch Circuit High
P2018	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent
P2019	Intake Manifold Runner Position Sensor/Switch Circuit
P201A	Reductant Injection Valve Circuit Range/Performance
P201B	ISO/SAE Reserved
P201C	ISO/SAE Reserved
P201D	ISO/SAE Reserved
P201E	ISO/SAE Reserved
P201F	ISO/SAE Reserved
P2020	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance
P2021	Intake Manifold Runner Position Sensor/Switch Circuit Low
P2022	Intake Manifold Runner Position Sensor/Switch Circuit High
P2023	Intake Manifold Runner Position Sensor/Switch Circuit Intermittent
P2024	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit
P2025	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Performance
P2026	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit Low Voltage
P2027	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit High Voltage
P2028	Evaporative Emissions (EVAP) Fuel Vapor Temperature Sensor Circuit Intermittent
P2029	Fuel Fired Heater Disabled
P202A	Reductant Tank Heater Control Circuit/Open
P202B	Reductant Tank Heater Control Circuit Low
P202C	Reductant Tank Heater Control Circuit High
P202D	Reductant Leakage

P202E	Reductant Injection Valve Circuit Range/Performance
P202F	Reductant/Regeneration Supply Control Circuit Range/Performance
P2030	Fuel Fired Heater Performance
P2031	Exhaust Gas Temperature Sensor Circuit
P2032	Exhaust Gas Temperature Sensor Circuit Low
P2033	Exhaust Gas Temperature Sensor Circuit High
P2034	Exhaust Gas Temperature Sensor Circuit
P2035	Exhaust Gas Temperature Sensor Circuit Low
P2036	Exhaust Gas Temperature Sensor Circuit High
P2037	Reductant Injection Air Pressure Sensor "A" Circuit
P2038	Reductant Injection Air Pressure Sensor "A" Circuit Range/Performance
P2031	Exhaust Gas Temperature Sensor Circuit
P2032	Exhaust Gas Temperature Sensor Circuit Low
P2033	Exhaust Gas Temperature Sensor Circuit High
P2034	Exhaust Gas Temperature Sensor Circuit
P2035	Exhaust Gas Temperature Sensor Circuit Low
P2036	Exhaust Gas Temperature Sensor Circuit High
P2037	Reductant Injection Air Pressure Sensor "A" Circuit
P2038	Reductant Injection Air Pressure Sensor "A" Circuit Range/Performance
P2034	Exhaust Gas Temperature Sensor Circuit
P2035	Exhaust Gas Temperature Sensor Circuit Low
P2036	Exhaust Gas Temperature Sensor Circuit High
P2037	Reductant Injection Air Pressure Sensor "A" Circuit
P2038	Reductant Injection Air Pressure Sensor "A" Circuit Range/Performance
P2039	Reductant Injection Air Pressure Sensor "A" Circuit Low
P203A	Reductant Level Sensor Circuit
P203B	Reductant Level Sensor Circuit Range/Performance
P203C	Reductant Level Sensor Circuit Low
P203D	Reductant Level Sensor Circuit High
P203E	Reductant Level Sensor Circuit Intermittent/Erratic
P203F	Reductant Level Too Low
P2040	Reductant Injection Air Pressure Sensor "A" Circuit High
P2041	Reductant Injection Air Pressure Sensor "A" Circuit Intermittent
P2042	Reductant Temperature Sensor Circuit
P2043	Reductant Temperature Sensor Circuit Range/Performance



P2044	Reductant Temperature Sensor Circuit Low
P2045	Reductant Temperature Sensor Circuit High
P2046	Reductant Temperature Sensor Circuit Intermittent
P2047	Reductant Injection Valve Circuit/Open
P2048	Reductant Injection Valve Circuit Low
P2049	Reductant Injection Valve Circuit High
P204A	Reductant Pressure Sensor Circuit
P204B	Reductant Pressure Sensor Circuit Range/Performance
P204C	Reductant Pressure Sensor Circuit Low
P204D	Reductant Pressure Sensor Circuit High
P204E	Reductant Pressure Sensor Circuit Intermittent/Erratic
P204F	Reductant System Performance
P2050	Reductant Injection Valve Circuit/Open
P2051	Reductant Injection Valve Circuit Low
P2052	Reductant Injection Valve Circuit High
P2053	Reductant Injection Valve Circuit/Open
P2054	Reductant Injection Valve Circuit Low
P2055	Reductant Injection Valve Circuit High
P2056	Reductant Injection Valve Circuit/Open
P2057	Reductant Injection Valve Circuit Low
P2058	Reductant Injection Valve Circuit High
P2059	Reductant Injection Air Pump Control Circuit/Open
P205A	Reductant Tank Temperature Sensor Circuit
P205B	Reductant Tank Temperature Sensor Circuit Range/Performance
P205C	Reductant Tank Temperature Sensor Circuit Low
P205D	Reductant Tank Temperature Sensor Circuit High
P205E	Reductant Tank Temperature Sensor Circuit Intermittent/Erratic
P205F	Reductant System Performance
P2060	Reductant Injection Air Pump Control Circuit Low
P2061	Reductant Injection Air Pump Control Circuit High
P2062	Reductant/Regeneration Supply Control Circuit/Open
P2063	Reductant/Regeneration Supply Control Circuit Low
P2064	Reductant/Regeneration Supply Control Circuit High
P2065	Fuel Level Sensor "B" Circuit
P2066	Fuel Level Sensor "B" Performance

P2067	Fuel Level Sensor "B" Circuit Low
P2068	Fuel Level Sensor "B" Circuit High
P2069	Fuel Level Sensor "B" Circuit Intermittent
P206A	Reductant Quality Sensor Circuit
P206B	Reductant Quality Sensor Circuit Range/Performance
P206C	Reductant Quality Sensor Circuit Low
P206D	Reductant Quality Sensor Circuit High
P206E	Intake Manifold Tuning (IMT) Valve Stuck Open
P206F	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2070	Intake Manifold Tuning (IMT) Valve Stuck Open
P2071	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2072	Throttle Actuator Control System - Ice Blockage
P2073	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Idle
P206E	Intake Manifold Tuning (IMT) Valve Stuck Open
P206F	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2070	Intake Manifold Tuning (IMT) Valve Stuck Open
P2071	Intake Manifold Tuning (IMT) Valve Stuck Closed
P2072	Throttle Actuator Control System - Ice Blockage
P2073	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Idle
P2074	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Higher Load
P2075	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P2076	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Range/Performance
P2077	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Low
P2078	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit High
P2079	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Intermittent
P207A	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit
P207B	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Range/Performance
P207C	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Low
P207D	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit High
P207E	Intake Manifold Tuning (IMT) Valve Position Sensor/Switch Circuit Intermittent

P207F	Reductant Quality Performance
P2080	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2081	Exhaust Gas Temperature Sensor Circuit Intermittent
P2082	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2083	Exhaust Gas Temperature Sensor Circuit Intermittent
P2084	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2085	Exhaust Gas Temperature Sensor Circuit Intermittent
P2086	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2087	Exhaust Gas Temperature Sensor Circuit Intermittent
P2088	"A" Camshaft Position Actuator Control Circuit Low
P2089	"A" Camshaft Position Actuator Control Circuit High
P208A	Reductant Pump Control Circuit/Open
P208B	Reductant Pump Control Range/Performance
P208C	Reductant Pump Control Circuit Low
P208D	Reductant Pump Control Circuit High
P208E	Reductant Injection Valve Stuck Closed
P208F	Reductant Injection Valve Stuck Closed
P2090	"B" Camshaft Position Actuator Control Circuit Low
P2091	"B" Camshaft Position Actuator Control Circuit High
P2092	"A" Camshaft Position Actuator Control Circuit Low
P2093	"A" Camshaft Position Actuator Control Circuit High
P2094	"B" Camshaft Position Actuator Control Circuit Low
P2095	"B" Camshaft Position Actuator Control Circuit High
P2096	Post Catalyst Fuel Trim System Too Lean
P2097	Post Catalyst Fuel Trim System Too Rich
P2098	Post Catalyst Fuel Trim System Too Lean
P2099	Post Catalyst Fuel Trim System Too Rich
P209A	Reductant Injection Air Pressure Sensor "B" Circuit
P209B	Reductant Injection Air Pressure Sensor "B" Circuit Range/Performance
P209C	Reductant Injection Air Pressure Sensor "B" Circuit Low
P209D	Reductant Injection Air Pressure Sensor "B" Circuit High
P209E	Reductant Injection Air Pressure Sensor "A"/"B" Correlation
P209F	Reductant Tank Heater Control Circuit Performance
P20A0	Reductant Purge Control Valve Circuit /Open
P20A1	Reductant Purge Control Valve Performance

P20A2	Reductant Purge Control Valve Circuit Low
P20A3	Reductant Purge Control Valve Circuit High
P20A4	Reductant Purge Control Valve Stuck Open
P20A5	Reductant Purge Control Valve Stuck Closed
P20A6	Reductant Injection Air Pressure Control Valve Circuit/Open
P20A7	Reductant Injection Air Pressure Control Valve Performance
P20A8	Reductant Injection Air Pressure Control Valve Circuit Low
P20A9	Reductant Injection Air Pressure Control Valve Circuit High
P20AA	Reductant Injection Air Pressure Control Valve Stuck Open
P20AB	Reductant Injection Air Pressure Control Valve Stuck Closed
P20AC	Reductant Metering Unit Temperature Sensor Circuit
P20AD	Reductant Metering Unit Temperature Sensor Circuit Range/Performance
P20AE	Reductant Metering Unit Temperature Sensor Circuit Low
P20AF	Reductant Metering Unit Temperature Sensor Circuit High
P20B0	Reductant Metering Unit Temperature Sensor Circuit Intermittent/Erratic
P20B1	Reductant Heater Coolant Control Valve Circuit/Open
P20B2	Reductant Heater Coolant Control Valve Performance
P20B3	Reductant Heater Coolant Control Valve Circuit Low
P20B4	Reductant Heater Coolant Control Valve Circuit High
P20B5	Reductant Metering Unit Heater Control Circuit/Open
P20B6	Reductant Metering Unit Heater Control Circuit Performance
P20B7	Reductant Metering Unit Heater Control Circuit Low
P20B8	Reductant Metering Unit Heater Control Circuit High
P20B9	Reductant Heater "A" Control Circuit/Open
P20BA	Reductant Heater "A" Control Circuit Performance
P20BB	Reductant Heater "A" Control Circuit Low
P20BC	Reductant Heater "A" Control Circuit High
P20BD	Reductant Heater "B" Control Circuit/Open
P20BE	Reductant Heater "B" Control Circuit Performance
P20BF	Reductant Heater "B" Control Circuit Low
P20C0	Reductant Heater "B" Control Circuit High
P20C1	Reductant Heater "C" Control Circuit/Open
P20C2	Reductant Heater "C" Control Circuit Performance
P20C3	Reductant Heater "C" Control Circuit Low
P20C4	Reductant Heater "C" Control Circuit High

P20C5	Reductant Heater "D" Control Circuit/Open
P20C6	Reductant Heater "D" Control Circuit Performance
P20C7	Reductant Heater "D" Control Circuit Low
P20C8	Reductant Heater "D" Control Circuit High
P20C9	Reductant Control Module Requested MIL Illumination
P20C4	Reductant Heater "C" Control Circuit High
P20C5	Reductant Heater "D" Control Circuit/Open
P20C6	Reductant Heater "D" Control Circuit Performance
P20C7	Reductant Heater "D" Control Circuit Low
P20C8	Reductant Heater "D" Control Circuit High
P20C9	Reductant Control Module Requested MIL Illumination
P20CA	Reductant Injection Air Pressure Leakage
P20CB	Exhaust Aftertreatment Fuel Injector "A" Control Circuit/Open
P20CC	Exhaust Aftertreatment Fuel Injector "A" Control Performance
P20CD	Exhaust Aftertreatment Fuel Injector "A" Control Circuit Low
P20CE	Exhaust Aftertreatment Fuel Injector "A" Control Circuit High
P20CF	Exhaust Aftertreatment Fuel Injector "A" Stuck Open
P20D0	Exhaust Aftertreatment Fuel Injector "A" Stuck Closed
P20D1	Exhaust Aftertreatment Fuel Injector "B" Control Circuit/Open
P20D2	Exhaust Aftertreatment Fuel Injector "B" Control Performance
P20D3	Exhaust Aftertreatment Fuel Injector "B" Control Circuit Low
P20D4	Exhaust Aftertreatment Fuel Injector "B" Control Circuit High
P20D5	Exhaust Aftertreatment Fuel Injector "B" Stuck Open
P20D6	Exhaust Aftertreatment Fuel Injector "B" Stuck Closed
P20D7	Exhaust Aftertreatment Fuel Supply Control Circuit/Open
P20D8	Exhaust Aftertreatment Fuel Supply Control Performance
P20D9	Exhaust Aftertreatment Fuel Supply Control Circuit Low
P20DA	Exhaust Aftertreatment Fuel Supply Control Circuit High
P20DB	Exhaust Aftertreatment Fuel Supply Control Stuck Open
P20DC	Exhaust Aftertreatment Fuel Supply Control Stuck Closed
P20DD	Exhaust Aftertreatment Fuel Pressure Sensor Circuit
P20DE	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Range/Performance
P20DF	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Low
P20E0	Exhaust Aftertreatment Fuel Pressure Sensor Circuit High
P20E1	Exhaust Aftertreatment Fuel Pressure Sensor Circuit Intermittent/Erratic

P20E2	Exhaust Gas Temperature Sensor 1/2 Correlation
P20E3	Exhaust Gas Temperature Sensor 1/3 Correlation
P20E4	Exhaust Gas Temperature Sensor 2/3 Correlation
P20E5	Exhaust Gas Temperature Sensor 1/2 Correlation
P20E6	Reductant Injection Air Pressure Too Low
P20E7	Reductant Injection Air Pressure Too High
P20E8	Reductant Pressure Too Low
P20E9	Reductant Pressure Too High
P20EA	Reductant Control Module Power Relay De-Energized Performance - Too Early
P20EB	Reductant Control Module Power Relay De-Energized Performance - Too Late
P20EC	SCR NOx Catalyst - Over Temperature
P20ED	SCR NOx Pre-Catalyst - Over Temperature
P20EE	SCR NOx Catalyst Efficiency Below Threshold
P20EF	SCR NOx Pre- Catalyst Efficiency Below Threshold
P20F0	SCR NOx Catalyst - Over Temperature
P20F1	SCR NOx Pre-Catalyst - Over Temperature
P20F2	SCR NOx Catalyst Efficiency Below Threshold
P20F3	SCR NOx Pre- Catalyst Efficiency Below Threshold
P20F4	Reductant Consumption Too Low
P20F5	Reductant Consumption Too High
P20F6	Reductant Injection Valve Stuck Open
P20F7	Reductant Injection Valve Stuck Open
P20F8	ISO/SAE Reserved
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P20FF	
P2100	Throttle Actuator "A" Control Motor Circuit/Open
P2101	Throttle Actuator "A" Control Motor Circuit Range/Performance
P2102	Throttle Actuator "A" Control Motor Circuit Low
P2103	Throttle Actuator "A" Control Motor Circuit High
P2104	Throttle Actuator Control System - Forced Idle
P2105	Throttle Actuator Control System - Forced Engine Shutdown
P2106	Throttle Actuator Control System - Forced Limited Power
P2107	Throttle Actuator Control Module Processor
P2108	Throttle Actuator Control Module Performance

P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance
P210A	Throttle Actuator "B" Control Motor Circuit/Open
P210B	Throttle Actuator "B" Control Motor Circuit Range/Performance
P210C	Throttle Actuator "B" Control Motor Circuit Low
P210D	Throttle Actuator "B" Control Motor Circuit High
P210E	Throttle/Pedal Position Sensor/Switch "C"/"F" Voltage Correlation
P210F	ISO/SAE Reserved
P2110	Throttle Actuator Control System - Forced Limited RPM
P2111	Throttle Actuator Control System - Stuck Open
P2112	Throttle Actuator Control System - Stuck Closed
P2113	Throttle/Pedal Position Sensor "B" Minimum Stop Performance
P2114	Throttle/Pedal Position Sensor "C" Minimum Stop Performance
P2115	Throttle/Pedal Position Sensor "D" Minimum Stop Performance
P2116	Throttle/Pedal Position Sensor "E" Minimum Stop Performance
P2117	Throttle/Pedal Position Sensor "F" Minimum Stop Performance
P2118	Throttle Actuator Control Motor Current Range/Performance
P2119	Throttle Actuator Control Throttle Body Range/Performance
P211A	ISO/SAE Reserved
P211B	ISO/SAE Reserved
P211C	ISO/SAE Reserved
P211D	ISO/SAE Reserved
P211E	ISO/SAE Reserved
P211F	ISO/SAE Reserved
P2120	Throttle/Pedal Position Sensor/Switch "D" Circuit
P2121	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance
P2122	Throttle/Pedal Position Sensor/Switch "D" Circuit Low
P2123	Throttle/Pedal Position Sensor/Switch "D" Circuit High
P2124	Throttle/Pedal Position Sensor/Switch "D" Circuit Intermittent
P2125	Throttle/Pedal Position Sensor/Switch "E" Circuit
P2126	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance
P2127	Throttle/Pedal Position Sensor/Switch "E" Circuit Low
P2128	Throttle/Pedal Position Sensor/Switch "E" Circuit High
P2129	Throttle/Pedal Position Sensor/Switch "E" Circuit Intermittent
P212A	Throttle Position Sensor/Switch "G" Circuit
P212B	Throttle Position Sensor/Switch "G" Circuit Range/Performance

P212C	Throttle Position Sensor/Switch "G" Circuit Low
P212D	Throttle Position Sensor/Switch "G" Circuit High
P212E	Throttle Position Sensor/Switch "G" Circuit Intermittent
P212F	ISO/SAE Reserved
P2130	Throttle/Pedal Position Sensor/Switch "F" Circuit
P2131	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance
P2132	Throttle/Pedal Position Sensor/Switch "F" Circuit Low
P2133	Throttle/Pedal Position Sensor/Switch "F" Circuit High
P2134	Throttle/Pedal Position Sensor/Switch "F" Circuit Intermittent
P2135	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
P2136	Throttle/Pedal Position Sensor/Switch "A"/"C" Voltage Correlation
P2137	Throttle/Pedal Position Sensor/Switch "B"/"C" Voltage Correlation
P2138	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation
P2139	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation
P213A	Exhaust Gas Recirculation Throttle Control Circuit "B" /Open
P213B	Exhaust Gas Recirculation Throttle Control Circuit "B" Range/Performance
P213C	Exhaust Gas Recirculation Throttle Control Circuit "B" Low
P213D	Exhaust Gas Recirculation Throttle Control Circuit "B" High
P213E	Fuel Injection System Fault - Forced Engine Shutdown
P213F	Fuel Pump System Fault - Forced Engine Shutdown
P2140	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation
P2141	Exhaust Gas Recirculation Throttle Control Circuit "A" Low
P2142	Exhaust Gas Recirculation Throttle Control Circuit "A" High
P2143	Exhaust Gas Recirculation Vent Control Circuit/Open
P2144	Exhaust Gas Recirculation Vent Control Circuit Low
P2145	Exhaust Gas Recirculation Vent Control Circuit High
P2146	Fuel Injector Group "A" Supply Voltage Circuit/Open
P2147	Fuel Injector Group "A" Supply Voltage Circuit Low
P2148	Fuel Injector Group "A" Supply Voltage Circuit High
P2149	Fuel Injector Group "B" Supply Voltage Circuit/Open
P214A	ISO/SAE Reserved
P214B	ISO/SAE Reserved
P214C	ISO/SAE Reserved
P214D	ISO/SAE Reserved
P214E	ISO/SAE Reserved



P214F	ISO/SAE Reserved
P2150	Fuel Injector Group "B" Supply Voltage Circuit Low
P2151	Fuel Injector Group "B" Supply Voltage Circuit High
P2152	Fuel Injector Group "C" Supply Voltage Circuit/Open
P2153	Fuel Injector Group "C" Supply Voltage Circuit Low
P2154	Fuel Injector Group "C" Supply Voltage Circuit High
P2155	Fuel Injector Group "D" Supply Voltage Circuit/Open
P2156	Fuel Injector Group "D" Supply Voltage Circuit Low
P2157	Fuel Injector Group "D" Supply Voltage Circuit High
P2158	Vehicle Speed Sensor "B"
P2159	Vehicle Speed Sensor "B" Range/Performance
P215A	Vehicle Speed - Wheel Speed Correlation
P215B	Vehicle Speed - Output Shaft Speed Correlation
P215C	Output Shaft Speed - Wheel Speed Correlation
P215D	ISO/SAE Reserved
P215E	ISO/SAE Reserved
P215F	ISO/SAE Reserved
P2160	Vehicle Speed Sensor "B" Circuit Low
P2161	Vehicle Speed Sensor "B" Intermittent/Erratic/High
P2162	Vehicle Speed Sensor "A"/"B" Correlation
P2163	Throttle/Pedal Position Sensor "A" Maximum Stop Performance
P2164	Throttle/Pedal Position Sensor "B" Maximum Stop Performance
P2165	Throttle/Pedal Position Sensor "C" Maximum Stop Performance
P2166	Throttle/Pedal Position Sensor "D" Maximum Stop Performance
P2167	Throttle/Pedal Position Sensor "E" Maximum Stop Performance
P2168	Throttle/Pedal Position Sensor "F" Maximum Stop Performance
P2169	Exhaust Pressure Regulator Vent Solenoid Control Circuit/Open
P216A	Fuel Injector Group "E" Supply Voltage Circuit/Open
P216B	Fuel Injector Group "E" Supply Voltage Circuit Low
P216C	Fuel Injector Group "E" Supply Voltage Circuit High
P216D	Fuel Injector Group "F" Supply Voltage Circuit/Open
P216E	Fuel Injector Group "F" Supply Voltage Circuit Low
P216F	Fuel Injector Group "F" Supply Voltage Circuit High
P2170	Exhaust Pressure Regulator Vent Solenoid Control Circuit Low
P2171	Exhaust Pressure Regulator Vent Solenoid Control Circuit High

P2172	Throttle Actuator Control System - Sudden High Air Flow Detected
P2173	Throttle Actuator Control System - High Air Flow Detected
P2174	Throttle Actuator Control System - Sudden Low Air Flow Detected
P2175	Throttle Actuator Control System - Low Air Flow Detected
P2176	Throttle Actuator Control System - Idle Position Not Learned
P2177	System Too Lean Off Idle
P2178	System Too Rich Off Idle
P2179	System Too Lean Off Idle
P217A	Fuel Injector Group "G" Supply Voltage Circuit/Open
P217B	Fuel Injector Group "G" Supply Voltage Circuit Low
P217C	Fuel Injector Group "G" Supply Voltage Circuit High
P217D	Fuel Injector Group "H" Supply Voltage Circuit/Open
P217E	Fuel Injector Group "H" Supply Voltage Circuit Low
P217F	Fuel Injector Group "H" Supply Voltage Circuit High
P2180	System Too Rich Off Idle
P2181	Cooling System Performance
P2182	Engine Coolant Temperature Sensor 2 Circuit
P2183	Engine Coolant Temperature Sensor 2 Circuit Range/Performance
P2184	Engine Coolant Temperature Sensor 2 Circuit Low
P2185	Engine Coolant Temperature Sensor 2 Circuit High
P2186	Engine Coolant Temperature Sensor 2 Circuit Intermittent/Erratic
P2187	System Too Lean at Idle
P2188	System Too Rich at Idle
P2189	System Too Lean at Idle
P218A	ISO/SAE Reserved
P218B	ISO/SAE Reserved
P218C	ISO/SAE Reserved
P218D	ISO/SAE Reserved
P218E	ISO/SAE Reserved
P218F	ISO/SAE Reserved
P2190	System Too Rich at Idle
P2191	System Too Lean at Higher Load
P2192	System Too Rich at Higher Load
P2193	System Too Lean at Higher Load
P2194	System Too Rich at Higher Load

P2195	O2 Sensor Signal Biased/Stuck Lean
P2196	O2 Sensor Signal Biased/Stuck Rich
P2197	O2 Sensor Signal Biased/Stuck Lean
P2198	O2 Sensor Signal Biased/Stuck Rich
P2199	Intake Air Temperature Sensor 1/2 Correlation
P219A	ISO/SAE Reserved
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P21FF	
P2200	NOx Sensor Circuit
P2201	NOx Sensor Circuit Range/Performance
P2202	NOx Sensor Circuit Low
P2203	NOx Sensor Circuit High
P2204	NOx Sensor Circuit Intermittent
P2205	NOx Sensor Heater Control Circuit/Open
P2206	NOx Sensor Heater Control Circuit Low
P2207	NOx Sensor Heater Control Circuit High
P2208	NOx Sensor Heater Sense Circuit
P2209	NOx Sensor Heater Sense Circuit Range/Performance
P220A	ISO/SAE Reserved
P220B	ISO/SAE Reserved
P220C	ISO/SAE Reserved
P220D	ISO/SAE Reserved
P220E	ISO/SAE Reserved
P220F	ISO/SAE Reserved
P2210	NOx Sensor Heater Sense Circuit Low
P2211	NOx Sensor Heater Sense Circuit High
P2212	NOx Sensor Heater Sense Circuit Intermittent
P2213	NOx Sensor Circuit
P2214	NOx Sensor Circuit Range/Performance
P2215	NOx Sensor Circuit Low
P2216	NOx Sensor Circuit High
P2217	NOx Sensor Circuit Intermittent
P2218	NOx Sensor Heater Control Circuit/Open
P2219	NOx Sensor Heater Control Circuit Low
P221A	ISO/SAE Reserved
P221B	ISO/SAE Reserved

P221C	ISO/SAE Reserved
P221D	ISO/SAE Reserved
P221E	ISO/SAE Reserved
P221F	ISO/SAE Reserved
P2220	NOx Sensor Heater Control Circuit High
P2221	NOx Sensor Heater Sense Circuit
P2222	NOx Sensor Heater Sense Circuit Range/Performance
P2223	NOx Sensor Heater Sense Circuit Low
P2224	NOx Sensor Heater Sense Circuit High
P2225	NOx Sensor Heater Sense Circuit Intermittent
P2226	Barometric Pressure Sensor "A" Circuit
P2227	Barometric Pressure Sensor "A" Circuit Range/Performance
P2228	Barometric Pressure Sensor "A" Circuit Low
P2229	Barometric Pressure Sensor "A" Circuit High
P222A	Barometric Pressure Sensor "B" Circuit
P222B	Barometric Pressure Sensor "B" Circuit Range/Performance
P222C	Barometric Pressure Sensor "B" Circuit Low
P222D	Barometric Pressure Sensor "B" Circuit High
P222E	Barometric Pressure Sensor "B" Circuit Intermittent/Erratic
P222F	Barometric Pressure Sensor "A"/"B" Correlation
P2230	Barometric Pressure Sensor "A" Circuit Intermittent/Erratic
P2231	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2232	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2233	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2234	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2235	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2236	O2 Sensor Signal Circuit Shorted to Heater Circuit
P2237	O2 Sensor Positive Current Control Circuit/Open
P2238	O2 Sensor Positive Current Control Circuit Low
P2239	O2 Sensor Positive Current Control Circuit High
P223A	ISO/SAE Reserved
P223B	ISO/SAE Reserved
P223C	ISO/SAE Reserved
P223D	ISO/SAE Reserved
P223E	ISO/SAE Reserved

P223F	ISO/SAE Reserved
P2240	O2 Sensor Positive Current Control Circuit/Open
P2241	O2 Sensor Positive Current Control Circuit Low
P2242	O2 Sensor Positive Current Control Circuit High
P2243	O2 Sensor Reference Voltage Circuit/Open
P2244	O2 Sensor Reference Voltage Performance
P2245	O2 Sensor Reference Voltage Circuit Low
P2246	O2 Sensor Reference Voltage Circuit High
P2247	O2 Sensor Reference Voltage Circuit/Open
P2248	O2 Sensor Reference Voltage Performance
P2249	O2 Sensor Reference Voltage Circuit Low
P224A	ISO/SAE Reserved
P224B	ISO/SAE Reserved
P224C	ISO/SAE Reserved
P224D	ISO/SAE Reserved
P224E	ISO/SAE Reserved
P224F	ISO/SAE Reserved
P2250	O2 Sensor Reference Voltage Circuit High
P2251	O2 Sensor Negative Current Control Circuit/Open
P2252	O2 Sensor Negative Current Control Circuit Low
P2253	O2 Sensor Negative Current Control Circuit High
P2254	O2 Sensor Negative Current Control Circuit/Open
P2255	O2 Sensor Negative Current Control Circuit Low
P2256	O2 Sensor Negative Current Control Circuit High
P2257	Secondary Air Injection System Control "A" Circuit Low
P2258	Secondary Air Injection System Control "A" Circuit High
P2259	Secondary Air Injection System Control "B" Circuit Low
P225A	ISO/SAE Reserved
P225B	ISO/SAE Reserved
P225C	ISO/SAE Reserved
P225D	ISO/SAE Reserved
P225E	ISO/SAE Reserved
P225F	ISO/SAE Reserved
P2260	Secondary Air Injection System Control "B" Circuit High
P2261	Turbocharger/Supercharger Bypass Valve - Mechanical

P2262	Turbocharger/Supercharger Boost Pressure Not Detected -Mechanical
P2263	Turbocharger/Supercharger Boost System Performance
P2264	Water in Fuel Sensor Circuit
P2265	Water in Fuel Sensor Circuit Range/Performance
P2266	Water in Fuel Sensor Circuit Low
P2267	Water in Fuel Sensor Circuit High
P2268	Water in Fuel Sensor Circuit Intermittent
P2269	Water in Fuel Condition
P226A	Water in Fuel Lamp Control Circuit
P226B	Turbocharger/Supercharger Boost Pressure Too High - Mechanical
P226C	ISO/SAE Reserved
P226D	ISO/SAE Reserved
P226E	ISO/SAE Reserved
P226F	ISO/SAE Reserved
P2270	O2 Sensor Signal Biased/Stuck Lean
P2271	O2 Sensor Signal Biased/Stuck Rich
P2272	O2 Sensor Signal Biased/Stuck Lean
P2273	O2 Sensor Signal Biased/Stuck Rich
P2274	O2 Sensor Signal Biased/Stuck Lean
P2275	O2 Sensor Signal Biased/Stuck Rich
P2276	O2 Sensor Signal Biased/Stuck Lean
P2277	O2 Sensor Signal Biased/Stuck Rich
P2278	O2 Sensor Signals Swapped Bank 1 Sensor 3/Bank 2 Sensor 3
P2279	Intake Air System Leak
P227A	ISO/SAE Reserved
P227B	ISO/SAE Reserved
P227C	ISO/SAE Reserved
P227D	ISO/SAE Reserved
P227E	ISO/SAE Reserved
P227F	ISO/SAE Reserved
P2280	Air Flow Restriction/Air Leak Between Air Filter and MAF
P2281	Air Leak Between MAF and Throttle Body
P2282	Air Leak Between Throttle Body and Intake Valves
P2283	Injector Control Pressure Sensor Circuit
P2284	Injector Control Pressure Sensor Circuit Range/Performance

P2285	Injector Control Pressure Sensor Circuit Low
P2286	Injector Control Pressure Sensor Circuit High
P2287	Injector Control Pressure Sensor Circuit Intermittent
P2288	Injector Control Pressure Too High
P2289	Injector Control Pressure Too High - Engine Off
P228A	Fuel Pressure Regulator 1 - Forced Engine Shutdown
P228B	Fuel Pressure Regulator 2 - Forced Engine Shutdown
P228C	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too Low
P228D	Fuel Pressure Regulator 1 Exceeded Control Limits - Pressure Too High
P228E	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too Low
P228F	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too High
P2290	Injector Control Pressure Too Low
P2291	Injector Control Pressure Too Low - Engine Cranking
P2292	Injector Control Pressure Erratic
P2293	Fuel Pressure Regulator 2 Performance
P2294	Fuel Pressure Regulator 2 Control Circuit/Open
P2295	Fuel Pressure Regulator 2 Control Circuit Low
P2296	Fuel Pressure Regulator 2 Control Circuit High
P2297	O2 Sensor Out of Range During Deceleration
P2298	O2 Sensor Out of Range During Deceleration
P2299	Brake Pedal Position/Accelerator Pedal Position Incompatible
P229A	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too Low
P229B	Fuel Pressure Regulator 2 Exceeded Control Limits - Pressure Too High
P229C	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too Low
P229D	Fuel Pressure Regulator 2 Exceeded Learning Limits - Too High
P229E	ISO/SAE Reserved
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P22FF	
P2300	Ignition Coil "A" Primary Control Circuit Low
P2301	Ignition Coil "A" Primary Control Circuit High
P2302	Ignition Coil "A" Secondary Circuit
P2303	Ignition Coil "B" Primary Control Circuit Low
P2304	Ignition Coil "B" Primary Control Circuit High
P2305	Ignition Coil "B" Secondary Circuit
P2306	Ignition Coil "C" Primary Control Circuit Low
P2307	Ignition Coil "C" Primary Control Circuit High

P2308	Ignition Coil "C" Secondary Circuit
P2309	Ignition Coil "D" Primary Control Circuit Low
P230A	ISO/SAE Reserved
P230B	ISO/SAE Reserved
P230C	ISO/SAE Reserved
P230D	ISO/SAE Reserved
P230E	ISO/SAE Reserved
P230F	ISO/SAE Reserved
P2310	Ignition Coil "D" Primary Control Circuit High
P2311	Ignition Coil "D" Secondary Circuit
P2312	Ignition Coil "E" Primary Control Circuit Low
P2313	Ignition Coil "E" Primary Control Circuit High
P2314	Ignition Coil "E" Secondary Circuit
P2315	Ignition Coil "F" Primary Control Circuit Low
P2316	Ignition Coil "F" Primary Control Circuit High
P2317	Ignition Coil "F" Secondary Circuit
P2318	Ignition Coil "G" Primary Control Circuit Low
P2319	Ignition Coil "G" Primary Control Circuit High
P231A	ISO/SAE Reserved
P231B	ISO/SAE Reserved
P231C	ISO/SAE Reserved
P231D	ISO/SAE Reserved
P231E	ISO/SAE Reserved
P231F	ISO/SAE Reserved
P2320	Ignition Coil "G" Secondary Circuit
P2321	Ignition Coil "H" Primary Control Circuit Low
P2322	Ignition Coil "H" Primary Control Circuit High
P2323	Ignition Coil "H" Secondary Circuit
P2324	Ignition Coil "I" Primary Control Circuit Low
P2325	Ignition Coil "I" Primary Control Circuit High
P2326	Ignition Coil "I" Secondary Circuit
P2327	Ignition Coil "J" Primary Control Circuit Low
P2328	Ignition Coil "J" Primary Control Circuit High
P2329	Ignition Coil "J" Secondary Circuit
P232A	ISO/SAE Reserved



P232B	ISO/SAE Reserved
P232C	ISO/SAE Reserved
P232D	ISO/SAE Reserved
P232E	ISO/SAE Reserved
P232F	ISO/SAE Reserved
P2330	Ignition Coil "K" Primary Control Circuit Low
P2331	Ignition Coil "K" Primary Control Circuit High
P2332	Ignition Coil "K" Secondary Circuit
P2333	Ignition Coil "L" Primary Control Circuit Low
P2334	Ignition Coil "L" Primary Control Circuit High
P2335	Ignition Coil "L" Secondary Circuit
P2336	Cylinder 1 Above Knock Threshold
P2337	Cylinder 2 Above Knock Threshold
P2338	Cylinder 3 Above Knock Threshold
P2339	Cylinder 4 Above Knock Threshold
P233A	ISO/SAE Reserved
P233B	ISO/SAE Reserved
P233C	ISO/SAE Reserved
P233D	ISO/SAE Reserved
P233E	ISO/SAE Reserved
P233F	ISO/SAE Reserved
P2340	Cylinder 5 Above Knock Threshold
P2341	Cylinder 6 Above Knock Threshold
P2342	Cylinder 7 Above Knock Threshold
P2343	Cylinder 8 Above Knock Threshold
P2344	Cylinder 9 Above Knock Threshold
P2345	Cylinder 10 Above Knock Threshold
P2346	Cylinder 11 Above Knock Threshold
P2347	Cylinder 12 Above Knock Threshold
P2348	ISO/SAE Reserved
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P23FF	
P2400	Evaporative Emission System Leak Detection Pump Control Circuit/Open
P2401	Evaporative Emission System Leak Detection Pump Control Circuit Low
P2402	Evaporative Emission System Leak Detection Pump Control Circuit High
P2403	Evaporative Emission System Leak Detection Pump Sense Circuit/Open

P2404	Evaporative Emission System Leak Detection Pump Sense Circuit Range/Performance
P2405	Evaporative Emission System Leak Detection Pump Sense Circuit Low
P2406	Evaporative Emission System Leak Detection Pump Sense Circuit High
P2407	Evaporative Emission System Leak Detection Pump Sense Circuit Intermittent/Erratic
P2408	Fuel Cap Sensor/Switch Circuit
P2409	Fuel Cap Sensor/Switch Circuit Range/Performance
P240A	Evaporative Emission System Leak Detection Pump Heater Control Circuit/Open
P240B	Evaporative Emission System Leak Detection Pump Heater Control Circuit Low
P240C	Evaporative Emission System Leak Detection Pump Heater Control Circuit High
P240D	ISO/SAE Reserved
P240E	ISO/SAE Reserved
P240F	ISO/SAE Reserved
P2410	Fuel Cap Sensor/Switch Circuit Low
P2411	Fuel Cap Sensor/Switch Circuit High
P2412	Fuel Cap Sensor/Switch Circuit Intermittent/Erratic
P2413	Exhaust Gas Recirculation System Performance
P2414	O2 Sensor Exhaust Sample Error
P2415	O2 Sensor Exhaust Sample Error
P2416	O2 Sensor Signals Swapped Bank 1 Sensor 2/Bank 1 Sensor 3
P2417	O2 Sensor Signals Swapped Bank 2 Sensor 2/Bank 2 Sensor 3
P2418	Evaporative Emission System Switching Valve Control Circuit/Open
P2419	Evaporative Emission System Switching Valve Control Circuit Low
P241A	ISO/SAE Reserved
P241B	ISO/SAE Reserved
P241C	ISO/SAE Reserved
P241D	ISO/SAE Reserved
P241E	ISO/SAE Reserved
P241F	ISO/SAE Reserved
P2420	Evaporative Emission System Switching Valve Control Circuit High
P2421	Evaporative Emission System Vent Valve Stuck Open
P2422	Evaporative Emission System Vent Valve Stuck Closed

P2423	HC Adsorption Catalyst Efficiency Below Threshold
P2424	HC Adsorption Catalyst Efficiency Below Threshold
P2425	Exhaust Gas Recirculation Cooling Valve Control Circuit/Open
P2426	Exhaust Gas Recirculation Cooling Valve Control Circuit Low
P2427	Exhaust Gas Recirculation Cooling Valve Control Circuit High
P2428	Exhaust Gas Temperature Too High
P2429	Exhaust Gas Temperature Too High
P242A	Exhaust Gas Temperature Sensor Circuit
P242B	Exhaust Gas Temperature Sensor Circuit Range/Performance
P242C	Exhaust Gas Temperature Sensor Circuit Low
P242D	Exhaust Gas Temperature Sensor Circuit High
P242E	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P242F	Diesel Particulate Filter Restriction - Ash Accumulation
P2430	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2431	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance
P2432	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low
P2433	Secondary Air Injection System Air Flow/Pressure Sensor Circuit High
P2434	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic
P2435	Secondary Air Injection System Air Flow/Pressure Sensor Circuit
P2436	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Range/Performance
P2437	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Low
P2438	Secondary Air Injection System Air Flow/Pressure Sensor Circuit High
P2439	Secondary Air Injection System Air Flow/Pressure Sensor Circuit Intermittent/Erratic
P243A	ISO/SAE Reserved
P243B	ISO/SAE Reserved
P243C	ISO/SAE Reserved
P243D	ISO/SAE Reserved
P243E	ISO/SAE Reserved
P243F	ISO/SAE Reserved
P2440	Secondary Air Injection System Switching Valve Stuck Open
P2441	Secondary Air Injection System Switching Valve Stuck Closed
P2442	Secondary Air Injection System Switching Valve Stuck Open

P2443	Secondary Air Injection System Switching Valve Stuck Closed
P2444	Secondary Air Injection System Pump Stuck On
P2445	Secondary Air Injection System Pump Stuck Off
P2446	Secondary Air Injection System Pump Stuck On
P2447	Secondary Air Injection System Pump Stuck Off
P2448	Secondary Air Injection System High Air Flow
P2449	Secondary Air Injection System High Air Flow
P244A	Diesel Particulate Filter Differential Pressure Too Low
P244B	Diesel Particulate Filter Differential Pressure Too High
P244C	Exhaust Temperature Too Low For Particulate Filter Regeneration
P244D	Exhaust Temperature Too High For Particulate Filter Regeneration
P244E	Exhaust Temperature Too Low For Particulate Filter Regeneration
P244F	Exhaust Temperature Too High For Particulate Filter Regeneration
P2450	Evaporative Emission System Switching Valve Performance/Stuck Open
P2451	Evaporative Emission System Switching Valve Stuck Closed
P2452	Diesel Particulate Filter Pressure Sensor "A" Circuit
P2453	Diesel Particulate Filter Pressure Sensor "A" Circuit Range/Performance
P2454	Diesel Particulate Filter Pressure Sensor "A" Circuit Low
P2455	Diesel Particulate Filter Pressure Sensor "A" Circuit High
P2456	Diesel Particulate Filter Pressure Sensor "A" Circuit Intermittent/Erratic
P2457	Exhaust Gas Recirculation Cooling System Performance
P2458	Diesel Particulate Filter Regeneration Duration
P2459	Diesel Particulate Filter Regeneration Frequency
P245A	Exhaust Gas Recirculation Cooler Bypass Control Circuit/Open
P245B	Exhaust Gas Recirculation Cooler Bypass Control Circuit Range/Performance
P245C	Exhaust Gas Recirculation Cooler Bypass Control Circuit Low
P245D	Exhaust Gas Recirculation Cooler Bypass Control Circuit High
P245E	Diesel Particulate Filter Pressure Sensor "B" Circuit
P245F	Diesel Particulate Filter Pressure Sensor "B" Circuit Range/Performance
P2460	Diesel Particulate Filter Pressure Sensor "B" Circuit Low
P2461	Diesel Particulate Filter Pressure Sensor "B" Circuit High
P2462	Diesel Particulate Filter Pressure Sensor "B" Circuit Intermittent/Erratic
P2463	Diesel Particulate Filter Restriction - Soot Accumulation
P2464	Diesel Particulate Filter Differential Pressure Too Low
P2465	Diesel Particulate Filter Differential Pressure Too High

P2466	Exhaust Gas Temperature Sensor Circuit
P2467	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2468	Exhaust Gas Temperature Sensor Circuit Low
P2469	Exhaust Gas Temperature Sensor Circuit High
P246A	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P246B	Vehicle Conditions Incorrect for Diesel Particulate Filter Regeneration
P246C	Diesel Particulate Filter Restriction - Forced Limited Power
P246D	Diesel Particulate Filter Pressure Sensor "A"/"B" Correlation
P246E	Exhaust Gas Temperature Sensor Circuit
P246F	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2470	Exhaust Gas Temperature Sensor Circuit Low
P2471	Exhaust Gas Temperature Sensor Circuit High
P2472	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2473	Exhaust Gas Temperature Sensor Circuit
P2474	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2475	Exhaust Gas Temperature Sensor Circuit Low
P2476	Exhaust Gas Temperature Sensor Circuit High
P2477	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2478	Exhaust Gas Temperature Out of Range
P2479	Exhaust Gas Temperature Out of Range
P247A	Exhaust Gas Temperature Out of Range
P247B	Exhaust Gas Temperature Out of Range
P247C	Exhaust Gas Temperature Out of Range
P247D	Exhaust Gas Temperature Out of Range
P247E	Exhaust Gas Temperature Out of Range
P247F	Exhaust Gas Temperature Out of Range
P2480	Exhaust Gas Temperature Sensor Circuit/Open
P2481	Exhaust Gas Temperature Sensor Circuit Low
P2482	Exhaust Gas Temperature Sensor Circuit High
P2483	Exhaust Gas Temperature Sensor Circuit Range/Performance
P2484	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P2485	Exhaust Gas Temperature Sensor Circuit/Open
P2486	Exhaust Gas Temperature Sensor Circuit Low
P2487	Exhaust Gas Temperature Sensor Circuit High
P2488	Exhaust Gas Temperature Sensor Circuit Range/Performance

P2489	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic
P248A	ISO/SAE Reserved
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P24FF	
P2500	Generator Lamp/L-Terminal Circuit Low
P2501	Generator Lamp/L-Terminal Circuit High
P2502	Charging System Voltage
P2503	Charging System Voltage Low
P2504	Charging System Voltage High
P2505	ECM/PCM Power Input Signal
P2506	ECM/PCM Power Input Signal Range/Performance
P2507	ECM/PCM Power Input Signal Low
P2508	ECM/PCM Power Input Signal High
P2509	ECM/PCM Power Input Signal Intermittent
P250A	Engine Oil Level Sensor Circuit
P250B	Engine Oil Level Sensor Circuit Range/Performance
P250C	Engine Oil Level Sensor Circuit Low
P250D	Engine Oil Level Sensor Circuit High
P250E	Engine Oil Level Sensor Circuit Intermittent/Erratic
P250F	Engine Oil Level Too Low
P2510	ECM/PCM Power Relay Sense Circuit Range/Performance
P2511	ECM/PCM Power Relay Sense Circuit Intermittent
P2512	Event Data Recorder Request Circuit/ Open
P2513	Event Data Recorder Request Circuit Low
P2514	Event Data Recorder Request Circuit High
P2515	A/C Refrigerant Pressure Sensor "B" Circuit
P2516	A/C Refrigerant Pressure Sensor "B" Circuit Range/Performance
P2517	A/C Refrigerant Pressure Sensor "B" Circuit Low
P2518	A/C Refrigerant Pressure Sensor "B" Circuit High
P2519	A/C Request "A" Circuit
P251A	PTO Enable Switch Circuit/Open
P251B	PTO Enable Switch Circuit Low
P251C	PTO Enable Switch Circuit High
P251D	PTO Engine Shutdown Circuit/Open
P251E	PTO Engine Shutdown Circuit Low
P251F	PTO Engine Shutdown Circuit High

P2520	A/C Request "A" Circuit Low
P2521	A/C Request "A" Circuit High
P2522	A/C Request "B" Circuit
P2523	A/C Request "B" Circuit Low
P2524	A/C Request "B" Circuit High
P2525	Vacuum Reservoir Pressure Sensor Circuit
P2526	Vacuum Reservoir Pressure Sensor Circuit Range/Performance
P2527	Vacuum Reservoir Pressure Sensor Circuit Low
P2528	Vacuum Reservoir Pressure Sensor Circuit High
P2529	Vacuum Reservoir Pressure Sensor Circuit Intermittent
P252A	Engine Oil Quality Sensor Circuit
P252B	Engine Oil Quality Sensor Circuit Range/Performance
P252C	Engine Oil Quality Sensor Circuit Low
P252D	Engine Oil Quality Sensor Circuit High
P252E	Engine Oil Quality Circuit Intermittent/Erratic
P252F	Engine Oil Level Too High
P2530	Ignition Switch Run Position Circuit
P2531	Ignition Switch Run Position Circuit Low
P2532	Ignition Switch Run Position Circuit High
P2533	Ignition Switch Run/Start Position Circuit
P2534	Ignition Switch Run/Start Position Circuit Low
P2535	Ignition Switch Run/Start Position Circuit High
P2536	Ignition Switch Accessory Position Circuit
P2537	Ignition Switch Accessory Position Circuit Low
P2538	Ignition Switch Accessory Position Circuit High
P2539	Low Pressure Fuel System Sensor Circuit
P253A	PTO Sense Circuit/Open
P253B	PTO Sense Circuit Range/Performance
P253C	PTO Sense Circuit Low
P253D	PTO Sense Circuit High
P253E	PTO Sense Circuit Intermittent/Erratic
P253F	Engine Oil Deteriorated
P2540	Low Pressure Fuel System Sensor Circuit Range/Performance
P2541	Low Pressure Fuel System Sensor Circuit Low
P2542	Low Pressure Fuel System Sensor Circuit High

P2543	Low Pressure Fuel System Sensor Circuit Intermittent
P2544	Torque Management Request Input Signal "A"
P2545	Torque Management Request Input Signal "A" Range/Performance
P2546	Torque Management Request Input Signal "A" Low
P2547	Torque Management Request Input Signal "A" High
P2548	Torque Management Request Input Signal "B"
P2549	Torque Management Request Input Signal "B" Range/Performance
P254A	PTO Speed Selector Sensor/Switch 1 Circuit/Open
P254B	PTO Speed Selector Sensor/Switch 1 Range/Performance
P254C	PTO Speed Selector Sensor/Switch 1 Circuit Low
P254D	PTO Speed Selector Sensor/Switch 1 Circuit High
P254E	PTO Speed Selector Sensor/Switch 1 Circuit Intermittent/Erratic
P254F	Engine Hood Switch Circuit
P2550	Torque Management Request Input Signal "B" Low
P2551	Torque Management Request Input Signal "B" High
P2552	Throttle/Fuel Inhibit Circuit
P2553	Throttle/Fuel Inhibit Circuit Range/Performance
P2554	Throttle/Fuel Inhibit Circuit Low
P2555	Throttle/Fuel Inhibit Circuit High
P2556	Engine Coolant Level Sensor/Switch Circuit
P2557	Engine Coolant Level Sensor/Switch Circuit Range/Performance
P2558	Engine Coolant Level Sensor/Switch Circuit Low
P2559	Engine Coolant Level Sensor/Switch Circuit High
P255A	PTO Speed Selector Sensor/Switch 2 Circuit/Open
P255B	PTO Speed Selector Sensor/Switch 2 Range/Performance
P255C	PTO Speed Selector Sensor/Switch 2 Circuit Low
P255D	PTO Speed Selector Sensor/Switch 2 Circuit High
P255E	PTO Speed Selector Sensor/Switch 2 Circuit Intermittent/Erratic
P255F	A/C Request "A" Circuit Range/Performance
P2560	Engine Coolant Level Low
P2561	A/C Control Module Requested MIL Illumination
P2562	Turbocharger Boost Control Position Sensor "A" Circuit
P2563	Turbocharger Boost Control Position Sensor "A" Circuit Range/Performance
P2564	Turbocharger Boost Control Position Sensor "A" Circuit Low
P2565	Turbocharger Boost Control Position Sensor "A" Circuit High



P2566	Turbocharger Boost Control Position Sensor "A" Circuit Intermittent
P2567	Direct Ozone Reduction Catalyst Temperature Sensor Circuit
P2568	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Range/Performance
P2569	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Low
P256A	Engine Idle Speed Selector Sensor/Switch Circuit/Open
P256B	Engine Idle Speed Selector Sensor/Switch Range/Performance
P256C	Engine Idle Speed Selector Sensor/Switch Circuit Low
P256D	Engine Idle Speed Selector Sensor/Switch Circuit High
P256E	Engine Idle Speed Selector Sensor/Switch Circuit Intermittent/Erratic
P256F	A/C Request "B" Circuit Range/Performance
P2570	Direct Ozone Reduction Catalyst Temperature Sensor Circuit High
P2571	Direct Ozone Reduction Catalyst Temperature Sensor Circuit Intermittent/Erratic
P2572	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit
P2573	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Range/Performance
P2574	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Low
P2575	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit High
P2576	Direct Ozone Reduction Catalyst Deterioration Sensor Circuit Intermittent/Erratic
P2577	Direct Ozone Reduction Catalyst Efficiency Below Threshold
P2578	Turbocharger Speed Sensor Circuit
P2579	Turbocharger Speed Sensor Circuit Range/Performance
P257A	Vacuum Reservoir Control Circuit/Open
P257B	Vacuum Reservoir Control Circuit Low
P257C	Vacuum Reservoir Control Circuit High
P257D	Engine Hood Switch Circuit Range/Performance
P257E	Engine Hood Switch Circuit Low
P257F	Engine Hood Switch Circuit High
P2580	Turbocharger Speed Sensor Circuit Low
P2581	Turbocharger Speed Sensor Circuit High
P2582	Turbocharger Speed Sensor Circuit Intermittent
P2583	Cruise Control Front Distance Range Sensor
P2584	Fuel Additive Control Module Requested MIL Illumination
P2585	Fuel Additive Control Module Warning Lamp Request

P2586	Turbocharger Boost Control Position Sensor "B" Circuit
P2587	Turbocharger Boost Control Position Sensor "B" Circuit Range/Performance
P2588	Turbocharger Boost Control Position Sensor "B" Circuit Low
P2589	Turbocharger Boost Control Position Sensor "B" Circuit High
P258A	Vacuum Pump Control Circuit/Open
P258B	Vacuum Pump Control Range/Performance
P258C	Vacuum Pump Control Circuit Low
P258D	Vacuum Pump Control Circuit High
P258E	PTO Enable Switch Performance
P258F	Torque Management Request Output Signal
P2590	Turbocharger Boost Control Position Sensor "B" Circuit Intermittent/Erratic
P2591	Cruise Control Front Distance Range Sensor
P2592	Cruise Control Front Distance Range Sensor
P2593	ISO/SAE Reserved
- P25FF	
P2600	Coolant Pump "A" Control Circuit/Open
P2601	Coolant Pump "A" Control Circuit Range/Performance
P2602	Coolant Pump "A" Control Circuit Low
P2603	Coolant Pump "A" Control Circuit High
P2604	Intake Air Heater "A" Circuit Range/Performance
P2605	Intake Air Heater "B" Circuit/Open
P2606	Intake Air Heater "B" Circuit Range/Performance
P2607	Intake Air Heater "B" Circuit Low
P2608	Intake Air Heater "B" Circuit High
P2609	Intake Air Heater System Performance
P260A	PTO Control Circuit/Open
P260B	PTO Control Circuit Low
P260C	PTO Control Circuit High
P260D	PTO Engaged Lamp Control Circuit
P260E	Diesel Particulate Filter Regeneration Lamp Control Circuit
P260F	Evaporative System Monitoring Processor Performance
P2610	ECM/PCM Internal Engine Off Timer Performance
P2611	A/C Refrigerant Distribution Valve Control Circuit/Open

P2612	A/C Refrigerant Distribution Valve Control Circuit Low
P2613	A/C Refrigerant Distribution Valve Control Circuit High
P2614	Camshaft Position Signal Output Circuit/Open
P2615	Camshaft Position Signal Output Circuit Low
P2616	Camshaft Position Signal Output Circuit High
P2617	Crankshaft Position Signal Output Circuit/Open
P2618	Crankshaft Position Signal Output Circuit Low
P2619	Crankshaft Position Signal Output Circuit High
P261A	Coolant Pump "B" Control Circuit/Open
P261B	Coolant Pump "B" Control Circuit Range/Performance
P261C	Coolant Pump "B" Control Circuit Low
P261D	Coolant Pump "B" Control Circuit High
P261E	ISO/SAE Reserved
P261F	ISO/SAE Reserved
P2620	Throttle Position Output Circuit/Open
P2621	Throttle Position Output Circuit Low
P2622	Throttle Position Output Circuit High
P2623	Injector Control Pressure Regulator Circuit/Open
P2624	Injector Control Pressure Regulator Circuit Low
P2625	Injector Control Pressure Regulator Circuit High
P2626	O2 Sensor Pumping Current Trim Circuit/Open
P2627	O2 Sensor Pumping Current Trim Circuit Low
P2628	O2 Sensor Pumping Current Trim Circuit High
P2629	O2 Sensor Pumping Current Trim Circuit/Open
P262A	ISO/SAE Reserved
P262B	ISO/SAE Reserved
P262C	ISO/SAE Reserved
P262D	ISO/SAE Reserved
P262E	ISO/SAE Reserved
P262F	ISO/SAE Reserved
P2630	O2 Sensor Pumping Current Trim Circuit Low
P2631	O2 Sensor Pumping Current Trim Circuit High
P2632	Fuel Pump "B" Control Circuit /Open
P2633	Fuel Pump "B" Control Circuit Low
P2634	Fuel Pump "B" Control Circuit High

P2635	Fuel Pump "A" Low Flow/Performance
P2636	Fuel Pump "B" Low Flow/Performance
P2637	Torque Management Feedback Signal "A"
P2638	Torque Management Feedback Signal "A" Range/Performance
P2639	Torque Management Feedback Signal "A" Low
P263A	ISO/SAE Reserved
P263B	ISO/SAE Reserved
P263C	ISO/SAE Reserved
P263D	ISO/SAE Reserved
P263E	ISO/SAE Reserved
P263F	ISO/SAE Reserved
P2640	Torque Management Feedback Signal "A" High
P2641	Torque Management Feedback Signal "B"
P2642	Torque Management Feedback Signal "B" Range/Performance
P2643	Torque Management Feedback Signal "B" Low
P2644	Torque Management Feedback Signal "B" High
P2645	"A" Rocker Arm Actuator Control Circuit/Open
P2646	"A" Rocker Arm Actuator System Performance/Stuck Off
P2647	"A" Rocker Arm Actuator System Stuck On
P2648	"A" Rocker Arm Actuator Control Circuit Low
P2649	"A" Rocker Arm Actuator Control Circuit High
P264A	"A" Rocker Arm Actuator Position Sensor Circuit
P264B	"A" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P264C	"A" Rocker Arm Actuator Position Sensor Circuit Low
P264D	"A" Rocker Arm Actuator Position Sensor Circuit High
P264E	"A" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P264F	ISO/SAE Reserved
P2650	"B" Rocker Arm Actuator Control Circuit/Open
P2651	"B" Rocker Arm Actuator System Performance/Stuck Off
P2652	"B" Rocker Arm Actuator System Stuck On
P2653	"B" Rocker Arm Actuator Control Circuit Low
P2654	"B" Rocker Arm Actuator Control Circuit High
P2655	"A" Rocker Arm Actuator Control Circuit/Open
P2656	"A" Rocker Arm Actuator System Performance/Stuck Off
P2657	"A" Rocker Arm Actuator System Stuck On

P2658	"A" Rocker Arm Actuator Control Circuit Low
P2659	"A" Rocker Arm Actuator Control Circuit High
P265A	"B" Rocker Arm Actuator Position Sensor Circuit
P265B	"B" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P265C	"B" Rocker Arm Actuator Position Sensor Circuit Low
P265D	"B" Rocker Arm Actuator Position Sensor Circuit High
P265E	"B" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P265F	ISO/SAE Reserved
P2660	"B" Rocker Arm Actuator Control Circuit/Open
P2661	"B" Rocker Arm Actuator System Performance/Stuck Off
P2662	"B" Rocker Arm Actuator System Stuck On
P2663	"B" Rocker Arm Actuator Control Circuit Low
P2664	"B" Rocker Arm Actuator Control Circuit High
P2665	Fuel Shutoff Valve "B" Control Circuit/Open
P2666	Fuel Shutoff Valve "B" Control Circuit Low
P2667	Fuel Shutoff Valve "B" Control Circuit High
P2668	Fuel Mode Indicator Lamp Control Circuit
P2669	Actuator Supply Voltage "B" Circuit /Open
P266A	"A" Rocker Arm Actuator Position Sensor Circuit
P266B	"A" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P266C	"A" Rocker Arm Actuator Position Sensor Circuit Low
P266D	"A" Rocker Arm Actuator Position Sensor Circuit High
P266E	"A" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P266F	ISO/SAE Reserved
P2670	Actuator Supply Voltage "B" Circuit Low
P2671	Actuator Supply Voltage "B" Circuit High
P2672	Injection Pump Timing Offset
P2673	Injection Pump Timing Calibration Not Learned
P2674	Injection Pump Fuel Calibration Not Learned
P2675	Air Cleaner Inlet Control Circuit/Open
P2676	Air Cleaner Inlet Control Circuit Low
P2677	Air Cleaner Inlet Control Circuit High
P2678	Coolant Degassing Valve Control Circuit/Open
P2679	Coolant Degassing Valve Control Circuit Low
P267A	"B" Rocker Arm Actuator Position Sensor Circuit

P267B	"B" Rocker Arm Actuator Position Sensor Circuit Range/Performance
P267C	"B" Rocker Arm Actuator Position Sensor Circuit Low
P267D	"B" Rocker Arm Actuator Position Sensor Circuit High
P267E	"B" Rocker Arm Actuator Position Sensor Circuit Intermittent/Erratic
P267F	ISO/SAE Reserved
P2680	Coolant Degassing Valve Control Circuit High
P2681	Engine Coolant Bypass Valve Control Circuit/Open
P2682	Engine Coolant Bypass Valve Control Circuit Low
P2683	Engine Coolant Bypass Valve Control Circuit High
P2684	Actuator Supply Voltage "C" Circuit/Open
P2685	Actuator Supply Voltage "C" Circuit Low
P2686	Actuator Supply Voltage "C" Circuit High
P2687	Fuel Supply Heater Control Circuit/Open
P2688	Fuel Supply Heater Control Circuit Low
P2689	Fuel Supply Heater Control Circuit High
P268A	Fuel Injector Calibration Not Learned/Programmed
P268B	High Pressure Fuel Pump Calibration Not Learned/Programmed
P268C	Cylinder 1 Injector Data Incompatible
P268D	Cylinder 2 Injector Data Incompatible
P268E	Cylinder 3 Injector Data Incompatible
P268F	Cylinder 4 Injector Data Incompatible
P2690	Cylinder 5 Injector Data Incompatible
P2691	Cylinder 6 Injector Data Incompatible
P2692	Cylinder 7 Injector Data Incompatible
P2693	Cylinder 8 Injector Data Incompatible
P2694	Cylinder 9 Injector Data Incompatible
P2695	Cylinder 10 Injector Data Incompatible
P2696	Injector Data Incompatible
P2697	Exhaust Aftertreatment Fuel Injector "A" Circuit/Open
P2698	Exhaust Aftertreatment Fuel Injector "A" Performance
P2699	Exhaust Aftertreatment Fuel Injector "A" Circuit Low
P269A	Exhaust Aftertreatment Fuel Injector "A" Circuit High
P269B	Exhaust Aftertreatment Glow Plug Control Circuit/Open
P269C	Exhaust Aftertreatment Glow Plug Control Performance
P269D	Exhaust Aftertreatment Glow Plug Control Circuit Low

P269E	Exhaust Aftertreatment Glow Plug Control Circuit High
P269F	Exhaust Aftertreatment Glow Plug Circuit/Open
P26A0	Exhaust Aftertreatment Glow Plug Performance
P26A1	Exhaust Aftertreatment Glow Plug Circuit Low
P26A2	Exhaust Aftertreatment Glow Plug Circuit High
P26A3	ISO/SAE Reserved
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P26FF	
P2700	Transmission Friction Element "A" Apply Time Range/Performance
P2701	Transmission Friction Element "B" Apply Time Range/Performance
P2702	Transmission Friction Element "C" Apply Time Range/Performance
P2703	Transmission Friction Element "D" Apply Time Range/Performance
P2704	Transmission Friction Element "E" Apply Time Range/Performance
P2705	Transmission Friction Element "F" Apply Time Range/Performance
P2706	Shift Solenoid "F"
P2707	Shift Solenoid "F" Performance/Stuck Off
P2708	Shift Solenoid "F" Stuck On
P2709	Shift Solenoid "F" Electrical
P270A	ISO/SAE Reserved
P270B	ISO/SAE Reserved
P270C	ISO/SAE Reserved
P270D	ISO/SAE Reserved
P270E	ISO/SAE Reserved
P270F	ISO/SAE Reserved
P2710	Shift Solenoid "F" Intermittent
P2711	Unexpected Mechanical Gear Disengagement
P2712	Hydraulic Power Unit Leakage
P2713	Pressure Control Solenoid "D"
P2714	Pressure Control Solenoid "D" Performance/Stuck Off
P2715	Pressure Control Solenoid "D" Stuck On
P2716	Pressure Control Solenoid "D" Electrical
P2717	Pressure Control Solenoid "D" Intermittent
P2718	Pressure Control Solenoid "D" Control Circuit/Open
P2719	Pressure Control Solenoid "D" Control Circuit Range/Performance
P271A	ISO/SAE Reserved
P271B	ISO/SAE Reserved

P271C	ISO/SAE Reserved
P271D	ISO/SAE Reserved
P271E	ISO/SAE Reserved
P271F	ISO/SAE Reserved
P2720	Pressure Control Solenoid "D" Control Circuit Low
P2721	Pressure Control Solenoid "D" Control Circuit High
P2722	Pressure Control Solenoid "E"
P2723	Pressure Control Solenoid "E" Performance/Stuck Off
P2724	Pressure Control Solenoid "E" Stuck On
P2725	Pressure Control Solenoid "E" Electrical
P2726	Pressure Control Solenoid "E" Intermittent
P2727	Pressure Control Solenoid "E" Control Circuit/Open
P2728	Pressure Control Solenoid "E" Control Circuit Range/Performance
P2729	Pressure Control Solenoid "E" Control Circuit Low
P272A	ISO/SAE Reserved
P272B	ISO/SAE Reserved
P272C	ISO/SAE Reserved
P272D	ISO/SAE Reserved
P272E	ISO/SAE Reserved
P272F	ISO/SAE Reserved
P2730	Pressure Control Solenoid "E" Control Circuit High
P2731	Pressure Control Solenoid "F"
P2732	Pressure Control Solenoid "F" Performance/Stuck Off
P2733	Pressure Control Solenoid "F" Stuck On
P2734	Pressure Control Solenoid "F" Electrical
P2735	Pressure Control Solenoid "F" Intermittent
P2736	Pressure Control Solenoid "F" Control Circuit/Open
P2737	Pressure Control Solenoid "F" Control Circuit Range/Performance
P2738	Pressure Control Solenoid "F" Control Circuit Low
P2739	Pressure Control Solenoid "F" Control Circuit High
P273A	Transmission Friction Element "G" Apply Time Range/Performance
P273B	Transmission Friction Element "H" Apply Time Range/Performance
P273C	ISO/SAE Reserved
P273D	ISO/SAE Reserved
P273E	ISO/SAE Reserved



P273F	ISO/SAE Reserved
P2740	Transmission Fluid Temperature Sensor "B" Circuit"
P2741	Transmission Fluid Temperature Sensor "B" Circuit Range/Performance
P2742	Transmission Fluid Temperature Sensor "B" Circuit Low
P2743	Transmission Fluid Temperature Sensor "B" Circuit High
P2744	Transmission Fluid Temperature Sensor "B" Circuit Intermittent
P2745	Intermediate Shaft Speed Sensor "B" Circuit
P2746	Intermediate Shaft Speed Sensor "B" Circuit Range/Performance
P2747	Intermediate Shaft Speed Sensor "B" Circuit No Signal
P2748	Intermediate Shaft Speed Sensor "B" Circuit Intermittent
P2749	Intermediate Shaft Speed Sensor "C" Circuit
P274A	ISO/SAE Reserved
P274B	ISO/SAE Reserved
P274C	ISO/SAE Reserved
P274D	ISO/SAE Reserved
P274E	ISO/SAE Reserved
P274F	ISO/SAE Reserved
P2750	Intermediate Shaft Speed Sensor "C" Circuit Range/Performance
P2751	Intermediate Shaft Speed Sensor "C" Circuit No Signal
P2752	Intermediate Shaft Speed Sensor "C" Circuit Intermittent
P2753	Transmission Fluid Cooler Control Circuit/Open
P2754	Transmission Fluid Cooler Control Circuit Low
P2755	Transmission Fluid Cooler Control Circuit High
P2756	Torque Converter Clutch Pressure Control Solenoid
P2757	Torque Converter Clutch Pressure Control Solenoid Control Circuit Performance/Stuck Off
P2758	Torque Converter Clutch Pressure Control Solenoid Control Circuit Stuck On
P2759	Torque Converter Clutch Pressure Control Solenoid Control Circuit Electrical
P275A	ISO/SAE Reserved
P275B	ISO/SAE Reserved
P275C	ISO/SAE Reserved
P275D	ISO/SAE Reserved
P275E	ISO/SAE Reserved
P275F	ISO/SAE Reserved

P2760	Torque Converter Clutch Pressure Control Solenoid Control Circuit Intermittent
P2761	Torque Converter Clutch Pressure Control Solenoid Control Circuit/Open
P2762	Torque Converter Clutch Pressure Control Solenoid Control Circuit Range/Performance
P2763	Torque Converter Clutch Pressure Control Solenoid Control Circuit High
P2764	Torque Converter Clutch Pressure Control Solenoid Control Circuit Low
P2765	Input/Turbine Speed Sensor "B" Circuit
P2766	Input/Turbine Speed Sensor "B" Circuit Range/Performance
P2767	Input/Turbine Speed Sensor "B" Circuit No Signal
P2768	Input/Turbine Speed Sensor "B" Circuit Intermittent
P2769	Torque Converter Clutch Circuit Low
P276A	ISO/SAE Reserved
P276B	ISO/SAE Reserved
P276C	ISO/SAE Reserved
P276D	ISO/SAE Reserved
P276E	ISO/SAE Reserved
P276F	ISO/SAE Reserved
P2770	Torque Converter Clutch Circuit High
P2771	Four Wheel Drive (4WD) Low Switch Circuit
P2772	Four Wheel Drive (4WD) Low Switch Circuit Range/Performance
P2773	Four Wheel Drive (4WD) Low Switch Circuit Low
P2774	Four Wheel Drive (4WD) Low Switch Circuit High
P2775	Upshift Switch Circuit Range/Performance
P2776	Upshift Switch Circuit Low
P2777	Upshift Switch Circuit High
P2778	Upshift Switch Circuit Intermittent/Erratic
P2779	Downshift Switch Circuit Range/Performance
P277A	ISO/SAE Reserved
P277B	ISO/SAE Reserved
P277C	ISO/SAE Reserved
P277D	ISO/SAE Reserved
P277E	ISO/SAE Reserved
P277F	ISO/SAE Reserved
P2780	Downshift Switch Circuit Low
P2781	Downshift Switch Circuit High

P2782	Downshift Switch Circuit Intermittent/Erratic
P2783	Torque Converter Temperature Too High
P2784	Input/Turbine Speed Sensor "A"/"B" Correlation
P2785	Clutch Actuator Temperature Too High
P2786	Gear Shift Actuator Temperature Too High
P2787	Clutch Temperature Too High
P2788	Auto Shift Manual Adaptive Learning at Limit
P2789	Clutch "A" Adaptive Learning at Limit
P278A	Kick Down Switch Circuit
P278B	Kick Down Switch Circuit Range/Performance
P278C	Kick Down Switch Circuit Low
P278D	Kick Down Switch Circuit High
P278E	Kick Down Switch Circuit Intermittent/Erratic
P278F	Clutch "B" Adaptive Learning at Limit
P2790	Gate Select Direction Circuit
P2791	Gate Select Direction Circuit Low
P2792	Gate Select Direction Circuit High
P2793	Gear Shift Direction Circuit
P2794	Gear Shift Direction Circuit Low
P2795	Gear Shift Direction Circuit High
P2796	Auxiliary Transmission Fluid Pump Control Circuit/Open
P2797	Auxiliary Transmission Fluid Pump Performance
P2798	Auxiliary Transmission Fluid Pump Control Circuit Low
P2799	Auxiliary Transmission Fluid Pump Control Circuit High
P279A	Transfer Case Gear High Incorrect Ratio
P279B	Transfer Case Gear Low Incorrect Ratio
P279C	Transfer Case Gear Neutral Incorrect Ratio
P279D	Four Wheel Drive (4WD) Range Signal Circuit
P279E	Four Wheel Drive (4WD) Range Signal Circuit Range/Performance
P279F	Four Wheel Drive (4WD) Range Signal Circuit Low
P27A0	Four Wheel Drive (4WD) Range Signal Circuit High
P27A1	ISO/SAE Reserved
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P27FF	
P2800	Transmission Range Sensor "B" Circuit (PRNDL Input)
P2801	Transmission Range Sensor "B" Circuit Range/Performance

P2802	Transmission Range Sensor "B" Circuit Low
P2803	Transmission Range Sensor "B" Circuit High
P2804	Transmission Range Sensor "B" Circuit Intermittent
P2805	Transmission Range Sensor "A"/"B" Correlation
P2806	Transmission Range Sensor Alignment
P2807	Pressure Control Solenoid "G"
P2808	Pressure Control Solenoid "G" Performance/Stuck Off
P2809	Pressure Control Solenoid "G" Stuck On
P280A	Transmission Range Sensor "A" Circuit Not Learned
P280B	Transmission Range Sensor "B" Circuit Not Learned
P280C	ISO/SAE Reserved
P280D	ISO/SAE Reserved
P280E	ISO/SAE Reserved
P280F	ISO/SAE Reserved
P2810	Pressure Control Solenoid "G" Electrical
P2811	Pressure Control Solenoid "G" Intermittent
P2812	Pressure Control Solenoid "G" Control Circuit/Open
P2813	Pressure Control Solenoid "G" Control Circuit Range/Performance
P2814	Pressure Control Solenoid "G" Control Circuit Low
P2815	Pressure Control Solenoid "G" Control Circuit High
P2816	Pressure Control Solenoid "H"
P2817	Pressure Control Solenoid "H" Performance/Stuck Off
P2818	Pressure Control Solenoid "H" Stuck On
P2819	Pressure Control Solenoid "H" Electrical
P281A	Pressure Control Solenoid "H" Intermittent
P281B	Pressure Control Solenoid "H" Control Circuit/Open
P281C	Pressure Control Solenoid "H" Control Circuit Range/Performance
P281D	Pressure Control Solenoid "H" Control Circuit Low
P281E	Pressure Control Solenoid "H" Control Circuit High
P281F	Pressure Control Solenoid "J"
P2820	Pressure Control Solenoid "J" Performance/Stuck Off
P2821	Pressure Control Solenoid "J" Stuck On
P2822	Pressure Control Solenoid "J" Electrical
P2823	Pressure Control Solenoid "J" Intermittent
P2824	Pressure Control Solenoid "J" Control Circuit/Open

P2825	Pressure Control Solenoid "J" Control Circuit Range/Performance
P2826	Pressure Control Solenoid "J" Control Circuit Low
P2827	Pressure Control Solenoid "J" Control Circuit High
P2828	Pressure Control Solenoid "K"
P2829	Pressure Control Solenoid "K" Performance/Stuck Off
P282A	Pressure Control Solenoid "K" Stuck On
P282B	Pressure Control Solenoid "K" Electrical
P282C	Pressure Control Solenoid "K" Intermittent
P282D	Pressure Control Solenoid "K" Control Circuit/Open
P282E	Pressure Control Solenoid "K" Control Circuit Range/Performance
P282F	Pressure Control Solenoid "K" Control Circuit Low
P2830	Pressure Control Solenoid "K" Control Circuit High
P2831	Shift Fork "A" Position Circuit
P2832	Shift Fork "A" Position Circuit Range/Performance
P2833	Shift Fork "A" Position Circuit Low
P2834	Shift Fork "A" Position Circuit High
P2835	Shift Fork "A" Position Circuit Intermittent
P2836	Shift Fork "B" Position Circuit
P2837	Shift Fork "B" Position Circuit Range/Performance
P2838	Shift Fork "B" Position Circuit Low
P2839	Shift Fork "B" Position Circuit High
P283A	Shift Fork "B" Position Circuit Intermittent
P283B	Shift Fork "C" Position Circuit
P283C	Shift Fork "C" Position Circuit Range/Performance
P283D	Shift Fork "C" Position Circuit Low
P283E	Shift Fork "C" Position Circuit High
P283F	Shift Fork "C" Position Circuit Intermittent
P2840	Shift Fork "D" Position Circuit
P2841	Shift Fork "D" Position Circuit Range/Performance
P2842	Shift Fork "D" Position Circuit Low
P2843	Shift Fork "D" Position Circuit High
P2844	Shift Fork "D" Position Circuit Intermittent
P2845	Shift Fork "A" Position Sensor Incorrect Neutral Position Indicated
P2846	Shift Fork "B" Position Sensor Incorrect Neutral Position Indicated
P2847	Shift Fork "C" Position Sensor Incorrect Neutral Position Indicated

P2848	Shift Fork "D" Position Sensor Incorrect Neutral Position Indicated
P2849	Shift Fork "A" Stuck
P284A	Shift Fork "B" Stuck
P284B	Shift Fork "C" Stuck
P284C	Shift Fork "D" Stuck
P284D	Shift Fork "A" Unrequested Movement
P284E	Shift Fork "B" Unrequested Movement
P284F	Shift Fork "C" Unrequested Movement
P2850	Shift Fork "D" Unrequested Movement
P2851	Shift Fork Position Sensor "A"/"B" Correlation
P2852	Shift Fork Position Sensor "C"/"D" Correlation
P2853	Clutch "A" Pressure Discharge Performance
P2854	Clutch "B" Pressure Discharge Performance
P2855	Clutch "A" Pressure Charge Performance
P2856	Clutch "B" Pressure Charge Performance
P2857	Clutch "A" Pressure Engagement Performance
P2858	Clutch "B" Pressure Engagement Performance
P2859	Clutch "A" Pressure Disengagement Performance
P285A	Clutch "B" Pressure Disengagement Performance
P285B	ISO/SAE Reserved
- P28FF	
P2900	ISO/SAE Reserved
P2A00	O2 Sensor Circuit Range/Performance
P2A01	O2 Sensor Circuit Range/Performance
P2A02	O2 Sensor Circuit Range/Performance
P2A03	O2 Sensor Circuit Range/Performance
P2A04	O2 Sensor Circuit Range/Performance
P2A05	O2 Sensor Circuit Range/Performance
P2A06	O2 Sensor Negative Voltage
P2A07	O2 Sensor Negative Voltage
P2A08	O2 Sensor Negative Voltage
P2A09	O2 Sensor Negative Voltage
P2A0A	ISO/SAE Reserved
P2A0B	ISO/SAE Reserved
P2A0C	ISO/SAE Reserved

P2A0D	ISO/SAE Reserved
P2A0E	ISO/SAE Reserved
P2A0F	ISO/SAE Reserved
P2A10	O2 Sensor Negative Voltage
P2A11	O2 Sensor Negative Voltage
P2A12	ISO/SAE Reserved
– P2AFF	
P2B00	ISO/SAE Reserved
– P2BA6	
P2BA7	NOx Exceedence - Empty Reagent Tank
P2BA8	NOx Exceedence - Interruption of Reagent Dosing Activity
P2BA9	NOx Exceedence - Insufficient Reagent Quality
P2BAA	NOx Exceedence - Low Reagent Consumption
P2BAB	NOx Exceedence - Incorrect EGR Flow
P2BAC	NOx Exceedence - Deactivation of EGR
P2BAD	NOx Exceedence - Root Cause Unknown
P2BAE	NOx Exceedence - NOx control monitoring system
P2BAF	ISO/SAE Reserved
– P2BFF	
P2C00	ISO/SAE Reserved
P2D00	ISO/SAE Reserved
P2E00	ISO/SAE Reserved
P2F00	ISO/SAE Reserved
P3000	Manufacturer Controlled DTC
P3100	Manufacturer Controlled DTC
P3200	Manufacturer Controlled DTC
P3300	Manufacturer Controlled DTC
P3400	Cylinder Deactivation System
P3401	Cylinder 1 Deactivation/Intake Valve Control Circuit/Open
P3402	Cylinder 1 Deactivation/Intake Valve Control Circuit Performance
P3403	Cylinder 1 Deactivation/Intake Valve Control Circuit Low
P3404	Cylinder 1 Deactivation/Intake Valve Control Circuit High
P3405	Cylinder 1 Exhaust Valve Control Circuit/Open

P3406	Cylinder 1 Exhaust Valve Control Circuit Performance
P3407	Cylinder 1 Exhaust Valve Control Circuit Low
P3408	Cylinder 1 Exhaust Valve Control Circuit High
P3409	Cylinder 2 Deactivation/Intake Valve Control Circuit/Open
P340A	ISO/SAE Reserved
P340B	ISO/SAE Reserved
P340C	ISO/SAE Reserved
P340D	ISO/SAE Reserved
P340E	ISO/SAE Reserved
P340F	ISO/SAE Reserved
P3410	Cylinder 2 Deactivation/Intake Valve Control Circuit Performance
P3411	Cylinder 2 Deactivation/Intake Valve Control Circuit Low
P3412	Cylinder 2 Deactivation/Intake Valve Control Circuit High
P3413	Cylinder 2 Exhaust Valve Control Circuit/Open
P3414	Cylinder 2 Exhaust Valve Control Circuit Performance
P3415	Cylinder 2 Exhaust Valve Control Circuit Low
P3416	Cylinder 2 Exhaust Valve Control Circuit High
P3417	Cylinder 3 Deactivation/Intake Valve Control Circuit/Open
P3418	Cylinder 3 Deactivation/Intake Valve Control Circuit Performance
P3419	Cylinder 3 Deactivation/Intake Valve Control Circuit Low
P341A	ISO/SAE Reserved
P341B	ISO/SAE Reserved
P341C	ISO/SAE Reserved
P341D	ISO/SAE Reserved
P341E	ISO/SAE Reserved
P341F	ISO/SAE Reserved
P3420	Cylinder 3 Deactivation/Intake Valve Control Circuit High
P3421	Cylinder 3 Exhaust Valve Control Circuit/Open
P3422	Cylinder 3 Exhaust Valve Control Circuit Performance
P3423	Cylinder 3 Exhaust Valve Control Circuit Low
P3424	Cylinder 3 Exhaust Valve Control Circuit High
P3425	Cylinder 4 Deactivation/Intake Valve Control Circuit/Open
P3426	Cylinder 4 Deactivation/Intake Valve Control Circuit Performance
P3427	Cylinder 4 Deactivation/Intake Valve Control Circuit Low
P3428	Cylinder 4 Deactivation/Intake Valve Control Circuit High



P3429	Cylinder 4 Exhaust Valve Control Circuit/Open
P342A	ISO/SAE Reserved
P342B	ISO/SAE Reserved
P342C	ISO/SAE Reserved
P342D	ISO/SAE Reserved
P342E	ISO/SAE Reserved
P342F	ISO/SAE Reserved
P3430	Cylinder 4 Exhaust Valve Control Circuit Performance
P3431	Cylinder 4 Exhaust Valve Control Circuit Low
P3432	Cylinder 4 Exhaust Valve Control Circuit High
P3433	Cylinder 5 Deactivation/Intake Valve Control Circuit/Open
P3434	Cylinder 5 Deactivation/Intake Valve Control Circuit Performance
P3435	Cylinder 5 Deactivation/Intake Valve Control Circuit Low
P3436	Cylinder 5 Deactivation/Intake Valve Control Circuit High
P3437	Cylinder 5 Exhaust Valve Control Circuit/Open
P3438	Cylinder 5 Exhaust Valve Control Circuit Performance
P3439	Cylinder 5 Exhaust Valve Control Circuit Low
P343A	ISO/SAE Reserved
P343B	ISO/SAE Reserved
P343C	ISO/SAE Reserved
P343D	ISO/SAE Reserved
P343E	ISO/SAE Reserved
P343F	ISO/SAE Reserved
P3440	Cylinder 5 Exhaust Valve Control Circuit High
P3441	Cylinder 6 Deactivation/Intake Valve Control Circuit/Open
P3442	Cylinder 6 Deactivation/Intake Valve Control Circuit Performance
P3443	Cylinder 6 Deactivation/Intake Valve Control Circuit Low
P3444	Cylinder 6 Deactivation/Intake Valve Control Circuit High
P3445	Cylinder 6 Exhaust Valve Control Circuit/Open
P3446	Cylinder 6 Exhaust Valve Control Circuit Performance
P3447	Cylinder 6 Exhaust Valve Control Circuit Low
P3448	Cylinder 6 Exhaust Valve Control Circuit High
P3449	Cylinder 7 Deactivation/Intake Valve Control Circuit/Open
P344A	ISO/SAE Reserved
P344B	ISO/SAE Reserved

P344C	ISO/SAE Reserved
P344D	ISO/SAE Reserved
P344E	ISO/SAE Reserved
P344F	ISO/SAE Reserved
P3450	Cylinder 7 Deactivation/Intake Valve Control Circuit Performance
P3451	Cylinder 7 Deactivation/Intake Valve Control Circuit Low
P3452	Cylinder 7 Deactivation/Intake Valve Control Circuit High
P3453	Cylinder 7 Exhaust Valve Control Circuit/Open
P3454	Cylinder 7 Exhaust Valve Control Circuit Performance
P3455	Cylinder 7 Exhaust Valve Control Circuit Low
P3456	Cylinder 7 Exhaust Valve Control Circuit High
P3457	Cylinder 8 Deactivation/Intake Valve Control Circuit/Open
P3458	Cylinder 8 Deactivation/Intake Valve Control Circuit Performance
P3459	Cylinder 8 Deactivation/Intake Valve Control Circuit Low
P345A	ISO/SAE Reserved
P345B	ISO/SAE Reserved
P345C	ISO/SAE Reserved
P345D	ISO/SAE Reserved
P345E	ISO/SAE Reserved
P345F	ISO/SAE Reserved
P3460	Cylinder 8 Deactivation/Intake Valve Control Circuit High
P3461	Cylinder 8 Exhaust Valve Control Circuit/Open
P3462	Cylinder 8 Exhaust Valve Control Circuit Performance
P3463	Cylinder 8 Exhaust Valve Control Circuit Low
P3464	Cylinder 8 Exhaust Valve Control Circuit High
P3465	Cylinder 9 Deactivation/Intake Valve Control Circuit/Open
P3466	Cylinder 9 Deactivation/Intake Valve Control Circuit Performance
P3467	Cylinder 9 Deactivation/Intake Valve Control Circuit Low
P3468	Cylinder 9 Deactivation/Intake Valve Control Circuit High
P3469	Cylinder 9 Exhaust Valve Control Circuit/Open
P346A	ISO/SAE Reserved
P346B	ISO/SAE Reserved
P346C	ISO/SAE Reserved
P346D	ISO/SAE Reserved
P346E	ISO/SAE Reserved

P346F	ISO/SAE Reserved
P3470	Cylinder 9 Exhaust Valve Control Circuit Performance
P3471	Cylinder 9 Exhaust Valve Control Circuit Low
P3472	Cylinder 9 Exhaust Valve Control Circuit High
P3473	Cylinder 10 Deactivation/Intake Valve Control Circuit/Open
P3474	Cylinder 10 Deactivation/Intake Valve Control Circuit Performance
P3475	Cylinder 10 Deactivation/Intake Valve Control Circuit Low
P3476	Cylinder 10 Deactivation/Intake Valve Control Circuit High
P3477	Cylinder 10 Exhaust Valve Control Circuit/Open
P3478	Cylinder 10 Exhaust Valve Control Circuit Performance
P3479	Cylinder 10 Exhaust Valve Control Circuit Low
P347A	ISO/SAE Reserved
P347B	ISO/SAE Reserved
P347C	ISO/SAE Reserved
P347D	ISO/SAE Reserved
P347E	ISO/SAE Reserved
P347F	ISO/SAE Reserved
P3480	Cylinder 10 Exhaust Valve Control Circuit High
P3481	Cylinder 11 Deactivation/Intake Valve Control Circuit/Open
P3482	Cylinder 11 Deactivation/Intake Valve Control Circuit Performance
P3483	Cylinder 11 Deactivation/Intake Valve Control Circuit Low
P3484	Cylinder 11 Deactivation/Intake Valve Control Circuit High
P3485	Cylinder 11 Exhaust Valve Control Circuit/Open
P3486	Cylinder 11 Exhaust Valve Control Circuit Performance
P3487	Cylinder 11 Exhaust Valve Control Circuit Low
P3488	Cylinder 11 Exhaust Valve Control Circuit High
P3489	Cylinder 12 Deactivation/Intake Valve Control Circuit/Open
P348A	ISO/SAE Reserved
P348B	ISO/SAE Reserved
P348C	ISO/SAE Reserved
P348D	ISO/SAE Reserved
P348E	ISO/SAE Reserved
P348F	ISO/SAE Reserved
P3490	Cylinder 12 Deactivation/Intake Valve Control Circuit Performance
P3491	Cylinder 12 Deactivation/Intake Valve Control Circuit Low

P3492	Cylinder 12 Deactivation/Intake Valve Control Circuit High
P3493	Cylinder 12 Exhaust Valve Control Circuit/Open
P3494	Cylinder 12 Exhaust Valve Control Circuit Performance
P3495	Cylinder 12 Exhaust Valve Control Circuit Low
P3496	Cylinder 12 Exhaust Valve Control Circuit High
P3497	Cylinder Deactivation System
P3498	ISO/SAE Reserved
-	
P34FF	
P3500	ISO/SAE Reserved
P3600	ISO/SAE Reserved
P3700	ISO/SAE Reserved
P3800	ISO/SAE Reserved
P3900	ISO/SAE Reserved
P3A00	ISO/SAE Reserved
P3B00	ISO/SAE Reserved
P3C00	ISO/SAE Reserved
P3D00	ISO/SAE Reserved
P3E00	ISO/SAE Reserved
P3F00	ISO/SAE Reserved
U0000	ISO/SAE Reserved
U0001	High Speed CAN Communication Bus
U0002	High Speed CAN Communication Bus Performance
U0003	High Speed CAN Communication Bus (+) Open
U0004	High Speed CAN Communication Bus (+) Low
U0005	High Speed CAN Communication Bus (+) High
U0006	High Speed CAN Communication Bus (-) Open
U0007	High Speed CAN Communication Bus (-) Low
U0008	High Speed CAN Communication Bus (-) High
U0009	High Speed CAN Communication Bus (-) shorted to Bus (+)
U000A	ISO/SAE Reserved
U000B	ISO/SAE Reserved
U000C	ISO/SAE Reserved
U000D	ISO/SAE Reserved
U000E	ISO/SAE Reserved

U000F	ISO/SAE Reserved
U0010	Medium Speed CAN Communication Bus
U0011	Medium Speed CAN Communication Bus Performance
U0012	Medium Speed CAN Communication Bus (+) Open
U0013	Medium Speed CAN Communication Bus (+) Low
U0014	Medium Speed CAN Communication Bus (+) High
U0015	Medium Speed CAN Communication Bus (-) Open
U0016	Medium Speed CAN Communication Bus (-) Low
U0017	Medium Speed CAN Communication Bus (-) High
U0018	Medium Speed CAN Communication Bus (-) shorted to Bus (+)
U0019	Low Speed CAN Communication Bus
U001A	ISO/SAE Reserved
U001B	ISO/SAE Reserved
U001C	ISO/SAE Reserved
U001D	ISO/SAE Reserved
U001E	ISO/SAE Reserved
U001F	ISO/SAE Reserved
U0020	Low Speed CAN Communication Bus Performance
U0021	Low Speed CAN Communication Bus (+) Open
U0022	Low Speed CAN Communication Bus (+) Low
U0023	Low Speed CAN Communication Bus (+) High
U0024	Low Speed CAN Communication Bus (-) Open
U0025	Low Speed CAN Communication Bus (-) Low
U0026	Low Speed CAN Communication Bus (-) High
U0027	Low Speed CAN Communication Bus (-) shorted to Bus (+)
U0028	Vehicle Communication Bus A
U0029	Vehicle Communication Bus A Performance
U002A	ISO/SAE Reserved
U002B	ISO/SAE Reserved
U002C	ISO/SAE Reserved
U002D	ISO/SAE Reserved
U002E	ISO/SAE Reserved
U002F	ISO/SAE Reserved
U0030	Vehicle Communication Bus A (+) Open
U0031	Vehicle Communication Bus A (+) Low

U0032	Vehicle Communication Bus A (+) High
U0033	Vehicle Communication Bus A (-) Open
U0034	Vehicle Communication Bus A (-) Low
U0035	Vehicle Communication Bus A (-) High
U0036	Vehicle Communication Bus A (-) shorted to Bus A (+)
U0037	Vehicle Communication Bus B
U0038	Vehicle Communication Bus B Performance
U0039	Vehicle Communication Bus B (+) Open
U003A	ISO/SAE Reserved
U003B	ISO/SAE Reserved
U003C	ISO/SAE Reserved
U003D	ISO/SAE Reserved
U003E	ISO/SAE Reserved
U003F	ISO/SAE Reserved
U0040	Vehicle Communication Bus B (+) Low
U0041	Vehicle Communication Bus B (+) High
U0042	Vehicle Communication Bus B (-) Open
U0043	Vehicle Communication Bus B (-) Low
U0044	Vehicle Communication Bus B (-) High
U0045	Vehicle Communication Bus B (-) shorted to Bus B (+)
U0046	Vehicle Communication Bus C
U0047	Vehicle Communication Bus C Performance
U0048	Vehicle Communication Bus C (+) Open
U0049	Vehicle Communication Bus C (+) Low
U004A	ISO/SAE Reserved
U004B	ISO/SAE Reserved
U004C	ISO/SAE Reserved
U004D	ISO/SAE Reserved
U004E	ISO/SAE Reserved
U004F	ISO/SAE Reserved
U0050	Vehicle Communication Bus C (+) High
U0051	Vehicle Communication Bus C (-) Open
U0052	Vehicle Communication Bus C (-) Low
U0053	Vehicle Communication Bus C (-) High
U0054	Vehicle Communication Bus C (-) shorted to Bus C (+)

U0055	Vehicle Communication Bus D
U0056	Vehicle Communication Bus D Performance
U0057	Vehicle Communication Bus D (+) Open
U0058	Vehicle Communication Bus D (+) Low
U0059	Vehicle Communication Bus D (+) High
U005A	ISO/SAE Reserved
U005B	ISO/SAE Reserved
U005C	ISO/SAE Reserved
U005D	ISO/SAE Reserved
U005E	ISO/SAE Reserved
U005F	ISO/SAE Reserved
U0060	Vehicle Communication Bus D (-) Open
U0061	Vehicle Communication Bus D (-) Low
U0062	Vehicle Communication Bus D (-) High
U0063	Vehicle Communication Bus D (-) shorted to Bus D (+)
U0064	Vehicle Communication Bus E
U0065	Vehicle Communication Bus E Performance
U0066	Vehicle Communication Bus E (+) Open
U0067	Vehicle Communication Bus E (+) Low
U0068	Vehicle Communication Bus E (+) High
U0069	Vehicle Communication Bus E (-) Open
U006A	ISO/SAE Reserved
U006B	ISO/SAE Reserved
U006C	ISO/SAE Reserved
U006D	ISO/SAE Reserved
U006E	ISO/SAE Reserved
U006F	ISO/SAE Reserved
U0070	Vehicle Communication Bus E (-) Low
U0071	Vehicle Communication Bus E (-) High
U0072	Vehicle Communication Bus E (-) shorted to Bus E (+)
U0073	Control Module Communication Bus "A" Off
U0074	Control Module Communication Bus "B" Off
U0075	ISO/SAE Reserved
- U00FF	
U0100	Lost Communication With ECM/PCM "A"

U0101	Lost Communication with TCM
U0102	Lost Communication with Transfer Case Control Module
U0103	Lost Communication With Gear Shift Control Module "A"
U0104	Lost Communication With Cruise Control Module
U0105	Lost Communication With Fuel Injector Control Module
U0106	Lost Communication With Glow Plug Control Module
U0107	Lost Communication With Throttle Actuator Control Module
U0108	Lost Communication With Alternative Fuel Control Module
U0109	Lost Communication With Fuel Pump Control Module
U010A	Lost Communication With Exhaust Gas Recirculation Control Module "A"
U010B	Lost Communication With Exhaust Gas Recirculation Control Module "B"
U010C	Lost Communication With Turbocharger/Supercharger Control Module "A"
U010D	Lost Communication With Turbocharger/Supercharger Control Module "B"
U010E	Lost Communication With Reductant Control Module
U010F	Lost Communication With Air Conditioning Control Module
U0110	Lost Communication With Drive Motor Control Module "A"
U0111	Lost Communication With Battery Energy Control Module "A"
U0112	Lost Communication With Battery Energy Control Module "B"
U0113	Lost Communication With Emissions Critical Control Information
U0114	Lost Communication With Four-Wheel Drive Clutch Control Module
U0115	Lost Communication With ECM/PCM "B"
U0116	Lost Communication With Coolant Temperature Control Module
U0117	Lost Communication With PTO Control Module
U0118	Lost Communication With Fuel Additive Control Module
U0119	Lost Communication With Fuel Cell Control Module
U011A	Lost Communication With Exhaust Gas Sensor Module
U011B	Lost Communication With Rocker Arm Control Module "A"
U011C	Lost Communication With Rocker Arm Control Module "B"
U011D	Lost Communication With All Wheel Drive Control Module
U011E	ISO/SAE Reserved
U011F	ISO/SAE Reserved
U0120	Lost Communication With Starter / Generator Control Module
U0121	Lost Communication With Anti-Lock Brake System (ABS) Control



	Module
U0122	Lost Communication With Vehicle Dynamics Control Module
U0123	Lost Communication With Yaw Rate Sensor Module
U0124	Lost Communication With Lateral Acceleration Sensor Module
U0125	Lost Communication With Multi-axis Acceleration Sensor Module
U0126	Lost Communication With Steering Angle Sensor Module
U0127	Lost Communication With Tire Pressure Monitor Module
U0128	Lost Communication With Park Brake Control Module
U0129	Lost Communication With Brake System Control Module
U012A	ISO/SAE Reserved
U012B	ISO/SAE Reserved
U012C	ISO/SAE Reserved
U012D	ISO/SAE Reserved
U012E	ISO/SAE Reserved
U012F	ISO/SAE Reserved
U0130	Lost Communication With Steering Effort Control Module
U0131	Lost Communication With Power Steering Control Module
U0132	Lost Communication With Suspension Control Module "A"
U0133	Lost Communication With Active Roll Control Module
U0134	Lost Communication With Power Steering Control Module
U0135	Lost Communication With Differential Control Module
U0136	Lost Communication With Differential Control Module
U0137	Lost Communication With Trailer Brake Control Module
U0138	Lost Communication With All Terrain Control Module
U0139	Lost Communication With Suspension Control Module "B"
U013A	ISO/SAE Reserved
U013B	ISO/SAE Reserved
U013C	ISO/SAE Reserved
U013D	ISO/SAE Reserved
U013E	ISO/SAE Reserved
U013F	ISO/SAE Reserved
U0140	Lost Communication With Body Control Module
U0141	Lost Communication With Body Control Module "A"
U0142	Lost Communication With Body Control Module "B"
U0143	Lost Communication With Body Control Module "C"

U0144	Lost Communication With Body Control Module "D"
U0145	Lost Communication With Body Control Module "E"
U0146	Lost Communication With Gateway "A"
U0147	Lost Communication With Gateway "B"
U0148	Lost Communication With Gateway "C"
U0149	Lost Communication With Gateway "D"
U014A	ISO/SAE Reserved
U014B	ISO/SAE Reserved
U014C	ISO/SAE Reserved
U014D	ISO/SAE Reserved
U014E	ISO/SAE Reserved
U014F	ISO/SAE Reserved
U0150	Lost Communication With Gateway "E"
U0151	Lost Communication With Restraints Control Module
U0152	Lost Communication With Side Restraints Control Module
U0153	Lost Communication With Side Restraints Control Module
U0154	Lost Communication With Restraints Occupant Classification System Module
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module
U0156	Lost Communication With Information Center "A"
U0157	Lost Communication With Information Center "B"
U0158	Lost Communication With Head Up Display
U0159	Lost Communication With Parking Assist Control Module "A"
U015A	ISO/SAE Reserved
U015B	ISO/SAE Reserved
U015C	ISO/SAE Reserved
U015D	ISO/SAE Reserved
U015E	ISO/SAE Reserved
U015F	ISO/SAE Reserved
U0160	Lost Communication With Audible Alert Control Module
U0161	Lost Communication With Compass Module
U0162	Lost Communication With Navigation Display Module
U0163	Lost Communication With Navigation Control Module
U0164	Lost Communication With HVAC Control Module
U0165	Lost Communication With HVAC Control Module
U0166	Lost Communication With Auxiliary Heater Control Module

U0167	Lost Communication With Vehicle Immobilizer Control Module
U0168	Lost Communication With Vehicle Security Control Module
U0169	Lost Communication With Sunroof Control Module
U016A	Lost Communication With Global Positioning System Module
U016B	ISO/SAE Reserved
U016C	ISO/SAE Reserved
U016D	ISO/SAE Reserved
U016E	ISO/SAE Reserved
U016F	ISO/SAE Reserved
U0170	Lost Communication With "Restraints System Sensor A"
U0171	Lost Communication With "Restraints System Sensor B"
U0172	Lost Communication With "Restraints System Sensor C"
U0173	Lost Communication With "Restraints System Sensor D"
U0174	Lost Communication With "Restraints System Sensor E"
U0175	Lost Communication With "Restraints System Sensor F"
U0176	Lost Communication With "Restraints System Sensor G"
U0177	Lost Communication With "Restraints System Sensor H"
U0178	Lost Communication With "Restraints System Sensor I"
U0179	Lost Communication With "Restraints System Sensor J"
U017A	Lost Communication With "Restraints System Sensor K"
U017B	Lost Communication With "Restraints System Sensor L"
U017C	Lost Communication With "Restraints System Sensor M"
U017D	Lost Communication With "Restraints System Sensor N"
U017E	Lost Communication With Seatbelt Pretensioner Module "A"
U017F	Lost Communication With Seatbelt Pretensioner Module "B"
U0180	Lost Communication With Automatic Lighting Control Module
U0181	Lost Communication With Headlamp Leveling Control Module
U0182	Lost Communication With Lighting Control Module
U0183	Lost Communication With Lighting Control Module
U0184	Lost Communication With Radio
U0185	Lost Communication With Antenna Control Module
U0186	Lost Communication With Audio Amplifier "A"
U0187	Lost Communication With Digital Disc Player/Changer Module "A"
U0188	Lost Communication With Digital Disc Player/Changer Module "B"
U0189	Lost Communication With Digital Disc Player/Changer Module "C"

U018A	ISO/SAE Reserved
U018B	ISO/SAE Reserved
U018C	ISO/SAE Reserved
U018D	ISO/SAE Reserved
U018E	ISO/SAE Reserved
U018F	ISO/SAE Reserved
U0190	Lost Communication With Digital Disc Player/Changer Module "D"
U0191	Lost Communication With Television
U0192	Lost Communication With Personal Computer
U0193	Lost Communication With "Digital Audio Control Module A"
U0194	Lost Communication With "Digital Audio Control Module B"
U0195	Lost Communication With Subscription Entertainment Receiver Module
U0196	Lost Communication With Entertainment Control Module
U0197	Lost Communication With Telephone Control Module
U0198	Lost Communication With Telematic Control Module
U0199	Lost Communication With "Door Control Module A"
U019A	ISO/SAE Reserved
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U01FF	
U0200	Lost Communication With "Door Control Module B"
U0201	Lost Communication With "Door Control Module C"
U0202	Lost Communication With "Door Control Module D"
U0203	Lost Communication With "Door Control Module E"
U0204	Lost Communication With "Door Control Module F"
U0205	Lost Communication With "Door Control Module G"
U0206	Lost Communication With Folding Top Control Module
U0207	Lost Communication With Moveable Roof Control Module
U0208	Lost Communication With "Seat Control Module A"
U0209	Lost Communication With "Seat Control Module B"
U020A	ISO/SAE Reserved
U020B	ISO/SAE Reserved
U020C	ISO/SAE Reserved
U020D	ISO/SAE Reserved
U020E	ISO/SAE Reserved
U020F	ISO/SAE Reserved
U0210	Lost Communication With "Seat Control Module C"

U0211	Lost Communication With "Seat Control Module D"
U0212	Lost Communication With Steering Column Control Module
U0213	Lost Communication With Mirror Control Module
U0214	Lost Communication With Remote Function Actuation
U0215	Lost Communication With "Door Switch A"
U0216	Lost Communication With "Door Switch B"
U0217	Lost Communication With "Door Switch C"
U0218	Lost Communication With "Door Switch D"
U0219	Lost Communication With "Door Switch E"
U021A	ISO/SAE Reserved
U021B	ISO/SAE Reserved
U021C	ISO/SAE Reserved
U021D	ISO/SAE Reserved
U021E	ISO/SAE Reserved
U021F	ISO/SAE Reserved
U0220	Lost Communication With "Door Switch F"
U0221	Lost Communication With "Door Switch G"
U0222	Lost Communication With "Door Window Motor A"
U0223	Lost Communication With "Door Window Motor B"
U0224	Lost Communication With "Door Window Motor C"
U0225	Lost Communication With "Door Window Motor D"
U0226	Lost Communication With "Door Window Motor E"
U0227	Lost Communication With "Door Window Motor F"
U0228	Lost Communication With "Door Window Motor G"
U0229	Lost Communication With Heated Steering Wheel Module
U022A	ISO/SAE Reserved
U022B	ISO/SAE Reserved
U022C	ISO/SAE Reserved
U022D	ISO/SAE Reserved
U022E	ISO/SAE Reserved
U022F	ISO/SAE Reserved
U0230	Lost Communication With Rear Gate Module
U0231	Lost Communication With Rain Sensing Module
U0232	Lost Communication With Side Obstacle Detection Control Module
U0233	Lost Communication With Side Obstacle Detection Control Module

U0234	Lost Communication With Convenience Recall Module
U0235	Lost Communication With Cruise Control Front Distance Range Sensor
U0236	Lost Communication With Column Lock Module
U0237	Lost Communication With "Digital Audio Control Module C"
U0238	Lost Communication With "Digital Audio Control Module D"
U0239	Lost Communication With Entrapment Control Module "A"
U023A	Lost Communication With Image Processing Module "A"
U023B	Lost Communication With Image Processing Module "B"
U023C	Lost Communication With Image Processing Module "C"
U023D	Lost Communication With Cruise Control Front Distance Range Sensor
U023E	Lost Communication With Cruise Control Front Distance Range Sensor
U023F	ISO/SAE Reserved
U0240	Lost Communication With Entrapment Control Module "B"
U0241	Lost Communication With Headlamp Control Module "A"
U0242	Lost Communication With Headlamp Control Module "B"
U0243	Lost Communication With Parking Assist Control Module "B"
U0244	Lost Communication With Running Board Control Module "A"
U0245	Lost Communication With Entertainment Control Module
U0246	Lost Communication With "Seat- Control Module E"
U0247	Lost Communication With "Seat Control Module F"
U0248	Lost Communication With Remote Accessory Module
U0249	Lost Communication With Entertainment Control Module
U024A	Lost Communication With Interior Lighting Control Module
U024B	ISO/SAE Reserved
U024C	ISO/SAE Reserved
U024D	ISO/SAE Reserved
U024E	ISO/SAE Reserved
U024F	ISO/SAE Reserved
U0250	Lost Communication With Impact Classification System Module
U0251	Lost Communication With Running Board Control Module "B"
U0252	Lost Communication With Lighting Control Module
U0253	Lost Communication With Accessory Protocol Interface Module
U0254	Lost Communication With Remote Start Module
U0255	Lost Communication With Front Display Interface Module
U0256	Lost Communication With Front Controls Interface Module "A"

U0257	Lost Communication With Front Controls/Display Interface Module
U0258	Lost Communication With Radio Transceiver
U0259	Lost Communication With Special Purpose Vehicle Control Module "A"
U025A	Lost Communication With Special Purpose Vehicle Control Module "B"
U025B	Lost Communication With Special Purpose Vehicle Control Module "C"
U025C	Lost Communication With Special Purpose Vehicle Control Module "D"
U025D	Lost Communication With Front Controls Interface Module "B"
U025E	ISO/SAE Reserved
U025F	ISO/SAE Reserved
U0260	Lost Communication With Seat Control Switch Module "A"
U0261	Lost Communication With Seat Control Switch Module "B"
U0262	Lost Communication With Audio Amplifier "B"
U0263	Lost Communication With Speech Recognition Module
U0264	Lost Communication With Camera Module
U0265	ISO/SAE Reserved
U0266	ISO/SAE Reserved
U0267	ISO/SAE Reserved
U0268	ISO/SAE Reserved
U0269	ISO/SAE Reserved
U026A	ISO/SAE Reserved
U026B	ISO/SAE Reserved
U026C	ISO/SAE Reserved
U026D	ISO/SAE Reserved
U026E	ISO/SAE Reserved
U026F	ISO/SAE Reserved
U0270	ISO/SAE Reserved
U0271	ISO/SAE Reserved
U0272	ISO/SAE Reserved
U0273	ISO/SAE Reserved
U0274	ISO/SAE Reserved
U0275	ISO/SAE Reserved
U0276	ISO/SAE Reserved
U0277	ISO/SAE Reserved
U0278	ISO/SAE Reserved
U0279	ISO/SAE Reserved

U027A	ISO/SAE Reserved
U027B	ISO/SAE Reserved
U027C	ISO/SAE Reserved
U027D	ISO/SAE Reserved
U027E	ISO/SAE Reserved
U027F	ISO/SAE Reserved
U0280	ISO/SAE Reserved
U0281	ISO/SAE Reserved
U0282	ISO/SAE Reserved
U0283	ISO/SAE Reserved
U0284	ISO/SAE Reserved
U0285	ISO/SAE Reserved
U0286	Lost Communication With Radiator Anti Tamper Device
U0287	Lost Communication With Transmission Fluid Pump Module
U0288	Lost Communication With DC to AC Converter Control Module "A"
U0289	Lost Communication With DC to AC Converter Control Module "B"
U028A	ISO/SAE Reserved
U028B	ISO/SAE Reserved
U028C	ISO/SAE Reserved
U028D	ISO/SAE Reserved
U028E	ISO/SAE Reserved
U028F	ISO/SAE Reserved
U0290	ISO/SAE Reserved
U0291	Lost Communication With Gear Shift Control Module "B"
U0292	Lost Communication With Drive Motor Control Module "B"
U0293	Lost Communication With Hybrid Powertrain Control Module
U0294	Lost Communication With Powertrain Control Monitor Module
U0295	Lost Communication With AC to AC Converter Control Module
U0296	Lost Communication With AC to DC Converter Control Module "A"
U0297	Lost Communication With AC to DC Converter Control Module "B"
U0298	Lost Communication With DC to DC Converter Control Module "A"
U0299	Lost Communication With DC to DC Converter Control Module "B"
U029A	Lost Communication With Hybrid Battery Pack Sensor Module
U029B	Lost Communication With Drive Motor Control Module "C"
U029C	Lost Communication With Drive Motor Control Module "D"



U029D	Lost Communication With NOX Sensor "A"
U029E	Lost Communication With NOX Sensor "B"
U029F – U02FF	ISO/SAE Reserved
U0300	Internal Control Module Software Incompatibility
U0301	Software Incompatibility With ECM/PCM
U0302	Software Incompatibility With Transmission Control Module
U0303	Software Incompatibility With Transfer Case Control Module
U0304	Software Incompatibility With Gear Shift Control Module "A"
U0305	Software Incompatibility With Cruise Control Module
U0306	Software Incompatibility With Fuel Injector Control Module
U0307	Software Incompatibility With Glow Plug Control Module
U0308	Software Incompatibility With Throttle Actuator Control Module
U0309	Software Incompatibility With Alternative Fuel Control Module
U030A	ISO/SAE Reserved
U030B	ISO/SAE Reserved
U030C	ISO/SAE Reserved
U030D	ISO/SAE Reserved
U030E	ISO/SAE Reserved
U030F	ISO/SAE Reserved
U0310	Software Incompatibility With Fuel Pump Control Module
U0311	Software Incompatibility With Drive Motor Control Module
U0312	Software Incompatibility With Battery Energy Control Module A
U0313	Software Incompatibility With Battery Energy Control Module B
U0314	Software Incompatibility With Four-Wheel Drive Clutch Control Module
U0315	Software Incompatibility With Anti-Lock Brake System Control Module
U0316	Software Incompatibility With Vehicle Dynamics Control Module
U0317	Software Incompatibility With Park Brake Control Module
U0318	Software Incompatibility With Brake System Control Module
U0319	Software Incompatibility With Steering Effort Control Module
U031A	ISO/SAE Reserved
U031B	ISO/SAE Reserved
U031C	ISO/SAE Reserved
U031D	ISO/SAE Reserved
U031E	ISO/SAE Reserved

U031F	ISO/SAE Reserved
U0320	Software Incompatibility With Power Steering Control Module
U0321	Software Incompatibility With Suspension Control Module "A"
U0322	Software Incompatibility With Body Control Module
U0323	Software Incompatibility With Instrument Panel Control Module
U0324	Software Incompatibility With HVAC Control Module
U0325	Software Incompatibility With Auxiliary Heater Control Module
U0326	Software Incompatibility With Vehicle Immobilizer Control Module
U0327	Software Incompatibility With Vehicle Security Control Module
U0328	Software Incompatibility With Steering Angle Sensor Module
U0329	Software Incompatibility With Steering Column Control Module
U032A	ISO/SAE Reserved
U032B	ISO/SAE Reserved
U032C	ISO/SAE Reserved
U032D	ISO/SAE Reserved
U032E	ISO/SAE Reserved
U032F	ISO/SAE Reserved
U0330	Software Incompatibility With Tire Pressure Monitor Module
U0331	Software Incompatibility With Body Control Module "A"
U0332	Software Incompatibility With Multi-axis Acceleration Sensor Module
U0333	Software Incompatibility With Gear Shift Control Module "B"
U0334	Software Incompatibility With Radio
U0335	Software Incompatibility With Hybrid Battery Pack Sensor Module
U0336	Software Incompatibility with Restraints Control Module
U0337	ISO/SAE Reserved
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U03FF	
U0400	Invalid Data Received
U0401	Invalid Data Received From ECM/PCM "A"
U0402	Invalid Data Received From TCM
U0403	Invalid Data Received From Transfer Case Control Module
U0404	Invalid Data Received From Gear Shift Control Module "A"
U0405	Invalid Data Received From Cruise Control Module
U0406	Invalid Data Received From Fuel Injector Control Module
U0407	Invalid Data Received From Glow Plug Control Module
U0408	Invalid Data Received From Throttle Actuator Control Module

U0409	Invalid Data Received From Alternative Fuel Control Module
U040A	Invalid Data Received From Air Conditioning Control Module
U040B	Invalid Data Received From Exhaust Gas Recirculation Control Module "A"
U040C	Invalid Data Received From Exhaust Gas Recirculation Control Module "B"
U040D	Invalid Data Received From Turbocharger/Supercharger Control Module "A"
U040E	Invalid Data Received From Turbocharger/Supercharger Control Module "B"
U040F	Invalid Data Received From Reductant Control Module
U0410	Invalid Data Received From Fuel Pump Control Module
U0411	Invalid Data Received From Drive Motor Control Module "A"
U0412	Invalid Data Received From Battery Energy Control Module "A"
U0413	Invalid Data Received From Battery Energy Control Module "B"
U0414	Invalid Data Received From Four-Wheel Drive Clutch Control Module
U0415	Invalid Data Received From Anti-Lock Brake System (ABS) Control Module
U0416	Invalid Data Received From Vehicle Dynamics Control Module
U0417	Invalid Data Received From Park Brake Control Module
U0418	Invalid Data Received From Brake System Control Module
U0419	Invalid Data Received From Steering Effort Control Module
U041A	ISO/SAE Reserved
U041B	Invalid Data Received From Exhaust Gas Sensor Module
U041C	Invalid Data Received From Rocker Arm Control Module "A"
U041D	Invalid Data Received From Rocker Arm Control Module "B"
U041E	Invalid Data Received From All Wheel Drive Control Module
U041F	ISO/SAE Reserved
U0420	Invalid Data Received From Power Steering Control Module
U0421	Invalid Data Received From Suspension Control Module "A"
U0422	Invalid Data Received From Body Control Module
U0423	Invalid Data Received From Instrument Panel Cluster Control Module
U0424	Invalid Data Received From HVAC Control Module
U0425	Invalid Data Received From Auxiliary Heater Control Module
U0426	Invalid Data Received From Vehicle Immobilizer Control Module
U0427	Invalid Data Received From Vehicle Security Control Module

U0428	Invalid Data Received From Steering Angle Sensor Module
U0429	Invalid Data Received From Steering Column Control Module
U042A	ISO/SAE Reserved
U042B	ISO/SAE Reserved
U042C	ISO/SAE Reserved
U042D	ISO/SAE Reserved
U042E	ISO/SAE Reserved
U042F	ISO/SAE Reserved
U0430	Invalid Data Received From Tire Pressure Monitor Module
U0431	Invalid Data Received From Body Control Module "A"
U0432	Invalid Data Received From Multi-axis Acceleration Sensor Module
U0433	Invalid Data Received From Cruise Control Front Distance Range Sensor
U0434	Invalid Data Received From Active Roll Control Module
U0435	Invalid Data Received From Power Steering Control Module
U0436	Invalid Data Received From Differential Control Module
U0437	Invalid Data Received From Differential Control Module
U0438	Invalid Data Received From Trailer Brake Control Module
U0439	Invalid Data Received From All Terrain Control Module
U043A	Invalid Data Received From Suspension Control Module "B"
U043B	Invalid Data Received From Cruise Control Front Distance Range Sensor
U043C	Invalid Data Received From Cruise Control Front Distance Range Sensor
U043D	ISO/SAE Reserved
U043E	ISO/SAE Reserved
U043F	ISO/SAE Reserved
U0440	ISO/SAE Reserved
U0441	Invalid Data Received From Emissions Critical Control Information
U0442	Invalid Data Received From ECM/PCM "B"
U0443	Invalid Data Received From Body Control Module "B"
U0444	Invalid Data Received From Body Control Module "C"
U0445	Invalid Data Received From Body Control Module "D"
U0446	Invalid Data Received From Body Control Module "E"
U0447	Invalid Data Received From Gateway "A"
U0448	Invalid Data Received From Gateway "B"
U0449	Invalid Data Received From Gateway "C"
U044A	Invalid Data Received From Gateway "D"

U044B	ISO/SAE Reserved
U044C	ISO/SAE Reserved
U044D	ISO/SAE Reserved
U044E	ISO/SAE Reserved
U044F	ISO/SAE Reserved
U0450	ISO/SAE Reserved
U0451	Invalid Data Received From Gateway "E"
U0452	Invalid Data Received From Restraints Control Module
U0453	Invalid Data Received From Side Restraints Control Module
U0454	Invalid Data Received From Side Restraints Control Module
U0455	Invalid Data Received From Restraints Occupant Classification System Module
U0456	Invalid Data Received From Coolant Temperature Control Module
U0457	Invalid Data Received From Information Center "A"
U0458	Invalid Data Received From Information Center "B"
U0459	Invalid Data Received From Head Up Display
U045A	Invalid Data Received From Parking Assist Control Module "A"
U045B	ISO/SAE Reserved
U045C	ISO/SAE Reserved
U045D	ISO/SAE Reserved
U045E	ISO/SAE Reserved
U045F	ISO/SAE Reserved
U0460	ISO/SAE Reserved
U0461	Invalid Data Received From Audible Alert Control Module
U0462	Invalid Data Received From Compass Module
U0463	Invalid Data Received From Navigation Display Module
U0464	Invalid Data Received From Navigation Control Module
U0465	Invalid Data Received From PTO Control Module
U0466	Invalid Data Received From HVAC Control Module
U0467	Invalid Data Received From Fuel Additive Control Module
U0468	Invalid Data Received From Fuel Cell Control Module
U0469	Invalid Data Received From Starter / Generator Control Module
U046A	Invalid Data Received From Sunroof Control Module
U046B	Invalid Data Received From Global Positioning System Module
U046C	ISO/SAE Reserved
U046D	ISO/SAE Reserved

U046E	ISO/SAE Reserved
U046F	ISO/SAE Reserved
U0470	ISO/SAE Reserved
U0471	Invalid Data Received From "Restraints System Sensor A"
U0472	Invalid Data Received From "Restraints System Sensor B"
U0473	Invalid Data Received From "Restraints System Sensor C"
U0474	Invalid Data Received From "Restraints System Sensor D"
U0475	Invalid Data Received From "Restraints System Sensor E"
U0476	Invalid Data Received From "Restraints System Sensor F"
U0477	Invalid Data Received From "Restraints System Sensor G"
U0478	Invalid Data Received From "Restraints System Sensor H"
U0479	Invalid Data Received From "Restraints System Sensor I"
U047A	Invalid Data Received From "Restraints System Sensor J"
U047B	Invalid Data Received From "Restraints System Sensor K"
U047C	Invalid Data Received From "Restraints System Sensor L"
U047D	Invalid Data Received From "Restraints System Sensor M"
U047E	Invalid Data Received From "Restraints System Sensor N"
U047F	Invalid Data Received From Seatbelt Pretensioner Module "A"
U0480	Invalid Data Received From Seatbelt Pretensioner Module "B"
U0481	Invalid Data Received From Automatic Lighting Control Module
U0482	Invalid Data Received From Headlamp Leveling Control Module
U0483	Invalid Data Received From Lighting Control Module
U0484	Invalid Data Received From Lighting Control Module
U0485	Invalid Data Received From Radio
U0486	Invalid Data Received From Antenna Control Module
U0487	Invalid Data Received From Audio Amplifier "A"
U0488	Invalid Data Received From Digital Disc Player/Changer Module "A"
U0489	Invalid Data Received From Digital Disc Player/Changer Module "B"
U048A	Invalid Data Received From Digital Disc Player/Changer Module "C"
U048B	ISO/SAE Reserved
U048C	ISO/SAE Reserved
U048D	ISO/SAE Reserved
U048E	ISO/SAE Reserved
U048F	ISO/SAE Reserved
U0490	ISO/SAE Reserved

U0491	Invalid Data Received From Digital Disc Player/Changer Module "D"
U0492	Invalid Data Received From Television
U0493	Invalid Data Received From Personal Computer
U0494	Invalid Data Received From "Digital Audio Control Module A"
U0495	Invalid Data Received From "Digital Audio Control Module B"
U0496	Invalid Data Received From Subscription Entertainment Receiver Module
U0497	Invalid Data Received From Entertainment Control Module
U0498	Invalid Data Received From Telephone Control Module
U0499	Invalid Data Received From Telematic Control Module
U049A	Invalid Data Received From "Door Control Module A"
U049B	ISO/SAE Reserved
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U04FF	
U0500	ISO/SAE Reserved
U0501	Invalid Data Received From "Door Control Module B"
U0502	Invalid Data Received From "Door Control Module C"
U0503	Invalid Data Received From "Door Control Module D"
U0504	Invalid Data Received From "Door Control Module E"
U0505	Invalid Data Received From "Door Control Module F"
U0506	Invalid Data Received From "Door Control Module G"
U0507	Invalid Data Received From Folding Top Control Module
U0508	Invalid Data Received From Moveable Roof Control Module
U0509	Invalid Data Received From "Seat Control Module A"
U050A	Invalid Data Received From "Seat Control Module B"
U050B	ISO/SAE Reserved
U050C	ISO/SAE Reserved
U050D	ISO/SAE Reserved
U050E	ISO/SAE Reserved
U050F	ISO/SAE Reserved
U0510	ISO/SAE Reserved
U0511	Invalid Data Received From "Seat Control Module C"
U0512	Invalid Data Received From "Seat Control Module D"
U0513	Invalid Data Received From Yaw Rate Sensor Module
U0514	Invalid Data Received From Mirror Control Module
U0515	Invalid Data Received From Remote Function Actuation
U0516	Invalid Data Received From "Door Switch A"

U0517	Invalid Data Received From "Door Switch B"
U0518	Invalid Data Received From "Door Switch C"
U0519	Invalid Data Received From "Door Switch D"
U051A	Invalid Data Received From "Door Switch E"
U051B	ISO/SAE Reserved
U051C	ISO/SAE Reserved
U051D	ISO/SAE Reserved
U051E	ISO/SAE Reserved
U051F	ISO/SAE Reserved
U0520	ISO/SAE Reserved
U0521	Invalid Data Received From "Door Switch F"
U0522	Invalid Data Received From "Door Switch G"
U0523	Invalid Data Received From "Door Window Motor A"
U0524	Invalid Data Received From "Door Window Motor B"
U0525	Invalid Data Received From "Door Window Motor C"
U0526	Invalid Data Received From "Door Window Motor D"
U0527	Invalid Data Received From "Door Window Motor E"
U0528	Invalid Data Received From "Door Window Motor F"
U0529	Invalid Data Received From "Door Window Motor G"
U052A	Invalid Data Received From Heated Steering Wheel Module
U052B	ISO/SAE Reserved
U052C	ISO/SAE Reserved
U052D	ISO/SAE Reserved
U052E	ISO/SAE Reserved
U052F	ISO/SAE Reserved
U0530	ISO/SAE Reserved
U0531	Invalid Data Received From Rear Gate Module
U0532	Invalid Data Received From Rain Sensing Module
U0533	Invalid Data Received From Side Obstacle Detection Control Module
U0534	Invalid Data Received From Side Obstacle Detection Control Module
U0535	Invalid Data Received From Convenience Recall Module
U0536	Invalid Data Received From Lateral Acceleration Sensor Module
U0537	Invalid Data Received From Column Lock Module
U0538	Invalid Data Received From "Digital Audio Control Module C"
U0539	Invalid Data Received From "Digital Audio Control Module D"



U053A	Invalid Data Received From Entrapment Control Module "A"
U053B	Invalid Data Received From Image Processing Module "A"
U053C	Invalid Data Received From Image Processing Module "B"
U053D	Invalid Data Received From Image Processing Module "C"
U053E	ISO/SAE Reserved
U053F	ISO/SAE Reserved
U0540	ISO/SAE Reserved
U0541	Invalid Data Received From Entrapment Control Module "B"
U0542	Invalid Data Received From Headlamp Control Module "A"
U0543	Invalid Data Received From Headlamp Control Module "B"
U0544	Invalid Data Received From Parking Assist Control Module "B"
U0545	Invalid Data Received From Running Board Control Module
U0546	Invalid Data Received From Entertainment Control Module
U0547	Invalid Data Received From "Seat Control Module E"
U0548	Invalid Data Received From "Seat Control Module F"
U0549	Invalid Data Received From Remote Accessory Module
U054A	Invalid Data Received From Entertainment Control Module
U054B	Invalid Data Received From Interior Lighting Control Module
U054C	ISO/SAE Reserved
U054D	ISO/SAE Reserved
U054E	ISO/SAE Reserved
U054F	ISO/SAE Reserved
U0550	ISO/SAE Reserved
U0551	Invalid Data Received From Impact Classification System Module
U0552	Invalid Data Received From Running Board Control Module "B"
U0553	Invalid Data Received From Lighting Control Module
U0554	Invalid Data Received From Accessory Protocol Interface Module
U0555	Invalid Data Received From Remote Start Module
U0556	Invalid Data Received From Front Display Interface Module
U0557	Invalid Data Received From Front Controls Interface Module "A"
U0558	Invalid Data Received From Front Controls/Display Interface Module
U0559	Invalid Data Received From Radio Transceiver
U055A	Invalid Data Received From Special Purpose Vehicle Control Module "A"
U055B	Invalid Data Received From Special Purpose Vehicle Control Module "B"
U055C	Invalid Data Received From Special Purpose Vehicle Control Module "C"

U055D	Invalid Data Received From Special Purpose Vehicle Control Module "D"
U055E	Invalid Data Received From Front Controls Interface Module "B"
U055F	ISO/SAE Reserved
U0560	ISO/SAE Reserved
U0561	Invalid Data Received From Seat Control Switch Module "A"
U0562	Invalid Data Received From Seat Control Switch Module "B"
U0563	Invalid Data Received From Audio Amplifier "B"
U0564	Invalid Data Received From Speech Recognition Module
U0565	Invalid Data Received From Camera Module
U0566	ISO/SAE Reserved
U0567	ISO/SAE Reserved
U0568	ISO/SAE Reserved
U0569	ISO/SAE Reserved
U056A	ISO/SAE Reserved
U056B	ISO/SAE Reserved
U056C	ISO/SAE Reserved
U056D	ISO/SAE Reserved
U056E	ISO/SAE Reserved
U056F	ISO/SAE Reserved
U0570	ISO/SAE Reserved
U0571	ISO/SAE Reserved
U0572	ISO/SAE Reserved
U0573	ISO/SAE Reserved
U0574	ISO/SAE Reserved
U0575	ISO/SAE Reserved
U0576	ISO/SAE Reserved
U0577	ISO/SAE Reserved
U0578	ISO/SAE Reserved
U0579	ISO/SAE Reserved
U057A	ISO/SAE Reserved
U057B	ISO/SAE Reserved
U057C	ISO/SAE Reserved
U057D	ISO/SAE Reserved
U057E	ISO/SAE Reserved
U057F	ISO/SAE Reserved

U0580	ISO/SAE Reserved
U0581	ISO/SAE Reserved
U0582	ISO/SAE Reserved
U0583	ISO/SAE Reserved
U0584	ISO/SAE Reserved
U0585	ISO/SAE Reserved
U0586	ISO/SAE Reserved
U0587	Invalid Data Received From With Radiator Anti Tamper Device
U0588	Invalid Data Received From Transmission Fluid Pump Module
U0589	Invalid Data Received From DC to AC Converter Control Module "A"
U058A	Invalid Data Received From DC to AC Converter Control Module "B"
U058B	ISO/SAE Reserved
U058C	ISO/SAE Reserved
U058D	ISO/SAE Reserved
U058E	ISO/SAE Reserved
U058F	ISO/SAE Reserved
U0590	ISO/SAE Reserved
U0591	ISO/SAE Reserved
U0592	Invalid Data Received From Gear Shift Control Module "B"
U0593	Invalid Data Received From Drive Motor Control Module "B"
U0594	Invalid Data Received From Hybrid Powertrain Control Module
U0595	Invalid Data Received From Powertrain Control Monitor Module
U0596	Invalid Data Received From AC to AC Converter Control Module
U0597	Invalid Data Received From AC to DC Converter Control Module "A"
U0598	Invalid Data Received From AC to DC Converter Control Module "B"
U0599	Invalid Data Received From DC to DC Converter Control Module "A"
U059A	Invalid Data Received From DC to DC Converter Control Module "B"
U059B	Invalid Data Received From Hybrid Battery Pack Sensor Module
U059C	Invalid Data Received From Drive Motor Control Module "C"
U059D	Invalid Data Received From Drive Motor Control Module "D"
U059E	Invalid Data Received From NOX Sensor "A"
U059F	Invalid Data Received From NOX Sensor "B"
U05A0	ISO/SAE Reserved
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U05FF	
U0600	ISO/SAE Reserved

U1000	Manufacturer Controlled DTC
U2000	Manufacturer Controlled DTC
U3000	Control Module
U3001	Control Module Improper Shutdown
U3002	Vehicle Identification Number
U3003	Battery Voltage
U3004	Accessory Power Relay
U3005	Retained Accessory Power
U3006	Control Module Input Power "A"
U3007	Control Module Input Power "B"
U3008	Control Module Ground "A"
U3009	Control Module Ground "B"
U300A	Ignition Switch
U300B	Ignition Input Accessory/On/Start
U300C	Ignition Input Off/On/Start
U300D	Ignition Input On/Start
U300E	Ignition Input On
U300F	Ignition Input Accessory
U3010	Ignition Input Start
U3011	Ignition Input Off
U3012	ISO/SAE Reserved
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U30FF	
U3100	ISO/SAE Reserved