

2007 Diagnostic Navigation

Vehicle Diagnostic Information - Corvette

DIAGNOSTIC INFORMATION AND PROCEDURES

STRATEGY BASED DIAGNOSIS

The goal of Strategy Based Diagnostics is to provide guidance when you create a plan of action for each specific diagnostic situation. Following a similar plan for each diagnostic situation, you will achieve maximum efficiency when you diagnose and repair vehicles. Although each of the Strategy Based Diagnostics boxes is numbered, you are not required to complete every box in order to successfully diagnose a customer concern. The first step of your diagnostic process should always be, verify the Customer Concern box. The final step of your diagnostic process should be Repair and verify the Fix box 7. Refer to the following chart for the correct Strategy Based Diagnostics.

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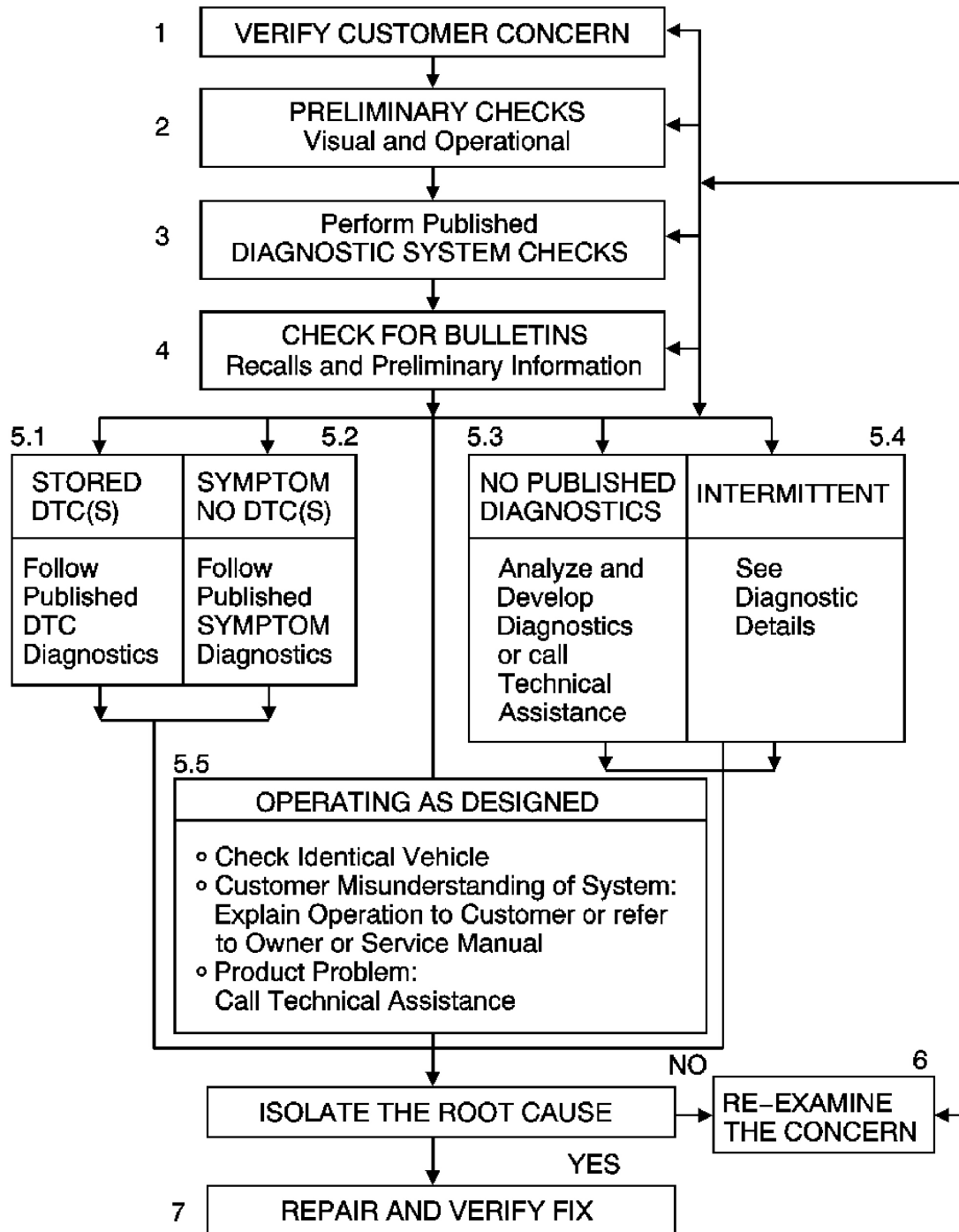


Fig. 1: Strategy Based Diagnosis Chart
 Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 1

Callout	Component Name

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1	Verify the Customer Concern: The first part of this step is to obtain as much information as possible from the customer. Are there aftermarket accessories on the vehicle? When does the condition occur? Where does the condition occur? How long does the condition last? How often does the condition occur? In order to verify the concern, the technician should be familiar with the normal operation of the system and refer to the owner or service manual for any information needed.
2	Preliminary Checks: Conduct a thorough visual inspection. Review the service history. Detect unusual sounds or odors. Gather diagnostic trouble code (DTC) information in order to achieve an effective repair.
3	Perform Published Diagnostic System Check: The Diagnostic System Check verifies the proper operation of the system. This will lead the technician in an organized approach to diagnostics.
4	Check Bulletins, Recalls and Preliminary Information (PI)s.
5.1	Stored DTCs: Follow the designated DTC in order to make an effective repair.
5.2	Symptom No DTC: Select the appropriate symptom. Follow the diagnostic steps or suggestions in order to complete the repair.
5.3	No Published Diagnostics: Analyze the Concern. Develop a plan for the diagnostics. The service manual schematics will help you to see system power, ground, input and output circuits. You can also identify splices and other areas where multiple circuits are tied together. Look at component locations to see if components, connectors or harnesses may be exposed to extreme temperature, moisture, road salt or other corrosives battery acid, oil or other fluids. Utilize the wiring diagrams, system description and operation, and system circuit description.
5.4	Intermittents: An intermittent condition is one that does not occur continuously and will occur when certain conditions are met. Generally, intermittents are caused by faulty electrical connections and wiring, malfunctioning components, electromagnetic/radio frequency interference, and aftermarket equipment. Combine technician knowledge with efficient use of the available service information. Evaluate the symptoms and conditions described by the customer. Use a check sheet or other method in order to identify the component. Follow the suggestions for intermittent diagnosis found in the service manual. A scan tool and a digital multi-meter may have data capturing capabilities that can assist in detection of intermittents.
	Vehicle Operates as Designed: This condition exists when the vehicle is found to operate normally. The condition described by the customer may

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5.5	be normal. Compare with another like vehicle that is operating normally under the same conditions described by the customer. Explain your findings and the operation of that system to the customer.
6	Re-examine the Concern: If a technician cannot successfully find or isolate the concern, a re-evaluation is necessary. Re-verify the concern. The concern could be an intermittent or normal condition.
7	Repair and Verify Fix: After isolating the cause, make the repairs and validate for the correct operation. Verify that the symptom has been corrected, which may involve road testing the vehicle.

DIAGNOSTIC PROCEDURE INSTRUCTIONS

The following is an overview of instructions for all 16 categories which may be included in a diagnostic procedure.

Diagnostic Instructions

A link to the [**Diagnostic System Check - Vehicle**](#) is provided here. This procedure should be performed prior to performing other diagnostic procedures, as this prevents misdiagnosis where there are integrated system dependencies.

A link to the [**Strategy Based Diagnosis**](#) is provided here. This provides an overview on how a technician should diagnose a vehicle.

A link to the [**Diagnostic Procedure Instructions**](#) is provided here. This information is an overview of instructions for all 16 categories which may be included in a diagnostic procedure.

DTC Descriptor

Describes what DTCs are diagnosed in this procedure. The DTC number, with Symptom Description when applicable, and descriptor are written out.

Diagnostic Fault Information

The diagnostic Fault Information table identifies each circuit that makes up an electrical subsystem and the associated circuit faults. DTCs and symptoms are listed in the table for all circuit fault modes. This information can be used to diagnose an electrical fault, or as a quick visual aid showing how the different symptoms and DTCs apply for the subsystem being diagnosed.

Even though all the DTCs and symptoms are shown in this table it does not mean they will all be

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diagnosed in the same procedure.

An example table from an engine coolant temperature (ECT) procedure:

Diagnostic Procedure Instructions

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
ECT Sensor Signal	P0117	P0118	P0118	P0125 P0128
ECT Low Reference		P0118	P0118	P0125 P0128

Typical Scan Tool Data

The Typical Scan Tool Data table identifies a scan tool data parameter and its value in reference to potential circuit faults.

An example table from an ECT procedure:

ECT Sensor Temperature - PCM

Circuit	Short to Ground	Open	Short to Voltage
Operating Conditions: Engine Running			
Parameter Normal Range: -32 to +130°C (-26 to +275°F)			
ECT Signal	-40°C (-40°F)	140°C (284°F)	-40°C (-40°F)
Low Reference	-	-40°C (-40°F)	-40°C (-40°F) ¹
¹ Internal ECM damage may occur if shorted to B+			

Circuit/System Description

Circuit/System Description identifies how a circuit/system normally functions.

Conditions for Running the DTC

Conditions for Running the DTC, identifies what conditions must be present to allow the diagnostic to run.

Conditions for Setting the DTC

Conditions for Setting the DTC, identifies the condition(s) that must be present in order to fail the diagnostic and when to set the DTC.

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Action Taken When the DTC Sets

Actions Taken When the DTC sets, identifies the default actions taken when a control module sets a DTC.

Conditions for Clearing the DTC

Conditions for Clearing the DTC, identifies the conditions that must be met in order to clear the DTC.

Diagnostic Aids

Diagnostic Aids are suggestions which explain other methods to diagnose the condition. It also provides unique information about the system used to assist the technician in finding and repairing a vehicle condition.

Reference Information

Reference Information includes links providing additional information for the diagnostic procedure.

For example:

- Schematic Reference
- Connector End View Reference
- Description and Operation
- Electrical Information Reference
- DTC Type Reference
- Scan Tool Reference
- Special Tools Required

Circuit/System Verification

The diagnostic format does not force a technician to any of the 3 diagnostic categories (Circuit/System Verification, Circuit/System Testing and Component Testing). However, performing the Circuit/System Verification category first, aids in determining if a vehicle condition is current. This category also serves to route the technician to another diagnostic procedure which should be performed first; for example, a DTC with a higher priority.

Circuit/System Verification is a non-intrusive procedure outlining how to verify that a system or a portion of a system is functioning correctly. During the verification process, the vehicle is kept

intact and tested as a complete system. This verification is used to assist the technician in determining whether a condition is current or intermittent. When a condition is determined to be intermittent, a technician can use the link in Electrical Information Reference: **Testing for Intermittent Conditions and Poor Connections** .

The technician should be able to identify if the fault is occurring on the input circuit - signal or on the output circuit - control when applicable. The technician will need to decide from the verification results if the system is working correctly or if further diagnosis needs to be performed in either Circuit/System Testing and/or Component Testing.

Circuit/System Testing

The diagnostic format does not force a technician to any of the 3 diagnostic categories (Circuit/System Verification, Circuit/System Testing and Component Testing). However, beginning with the Circuit/System Verification category aids in determining if a vehicle condition is current.

Circuit/System Testing is a step by step, positive-flow, testing sequence which allows the technician to perform each test step, in sequence, until a fault is detected. If the result of a test step is achieved, the normal flow is to proceed to the next step. If the result is NOT achieved, the repair arrow bullet will identify what actions need to take place.

Intrusive diagnostics are performed to locate the system fault. System harness connections are disconnected from the module or component to test individual circuit functions. The module or component will be used to assist in verifying the circuit function. When a test does not pass, the repair steps will indicate what circuit faults to test. For example, short to voltage, short to ground or open/high resistance.

When testing for individual circuit faults, the technician is expected to include terminal inspections such as connection surfaces and terminal tension at both the harness and component/module. Additionally, a technician can use the links in Electrical Information Reference: **Testing for Intermittent Conditions and Poor Connections** or **Circuit Testing** .

The control modules and components will also be diagnosed during these test steps. A retest of a control module or component should always be performed before replacement. For example, re-connect all components and modules and retest the system to verify the condition still exists before replacing modules or components.

Component Testing

The diagnostic format does not force a technician to any of the 3 diagnostic categories

(Circuit/System Verification, Circuit/System Testing and Component Testing). However, beginning with the Circuit/System Verification category aids in determining if a vehicle condition is current.

Component Testing can offer static and/or dynamic component tests. These tests can be used to verify if a component is operating correctly to avoid unnecessary replacement.

Testing modules in this category will not be offered. In most cases, the module is used to verify the harness circuits in the Circuit/System Testing category and a retest of the module should always be performed before replacement.

Repair Procedures

Repair Instructions provides a link to **Diagnostic Repair Verification**. This link describes how to verify the vehicle is repaired.

All links to Repair or Replacement procedures are located here.

Repair Verification

Repair Verification describes how to verify the vehicle is repaired when additional instructions are needed beyond what is in Diagnostic Repair Verification.

DIAGNOSTIC STARTING POINT - VEHICLE

Begin the system diagnosis with **Diagnostic System Check - Vehicle**. The Diagnostic System Check - Vehicle will provide the following information:

- The identification of the control modules which are not communicating through the serial data circuit.
- The identification of any stored diagnostic trouble codes (DTCs) and their status.

The use of the Diagnostic System Check - Vehicle will identify the correct procedures to begin vehicle diagnosis. These must be performed before system DTC or symptom diagnosis.

DIAGNOSTIC SYSTEM CHECK - VEHICLE

Circuit Description

The ignition mode switch has 2 contact buttons.

The upper button, with a circle indicator on it, that starts the engine if the brake pedal is applied

for automatic transmissions, or the clutch pedal is depressed for manual transmissions.

The lower button has 2 indicators on it, O and ACC. This button cycles the ignition through the following modes:

- **OFF**

This is the normal state upon entering the vehicle, and can also be reached from any other mode by depressing the button. The O indicator illuminates.

- **Accessory**

This mode can be reached from the Off state by depressing the button. The ACC indicator illuminates.

- **ON with the engine OFF**

This state can be reached from the Off or Accessory modes by depressing the button for about 5-6 seconds. The upper LED illuminates.

Circuit/System Testing

1. Before beginning vehicle diagnosis, the following preliminary inspections/tests must be performed:
 - Ensure that the battery is fully charged. Refer to **Battery Inspection/Test** .
 - Ensure that the battery cables are clean and tight.
 - Inspect for any open fuses. Refer to **Power Distribution Schematics** and **Electrical Center Identification Views** .
 - Ensure that the grounds are clean, tight, and in the correct location. Refer to **Ground Distribution Schematics** and **Power and Grounding Component Views** .
 - Inspect the easily accessible systems or the visible system components for obvious damage or conditions that could cause the concern.
 - Inspect for aftermarket devices that could affect the operation of the system. Refer to **Checking Aftermarket Accessories** .
 - Search for applicable service bulletins.
 - If the preceding inspections/tests resolve the concern, go to **Diagnostic Repair Verification**.
2. Ignition ON and engine OFF, verify that the NO FOB DETECTED message is not displayed on the driver information center (DIC)

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- If the NO FOB DETECTED message is displayed, refer to **Key Fob Not Detected** .
- 3. Install a scan tool. Verify that the scan tool powers up.
 - If the scan tool does not power up, refer to **Scan Tool Does Not Power Up** .
- 4. Ignition ON, Engine OFF, verify communication with all of the control modules on the vehicle. Refer to **Data Link References** for information on the modules you should expect to communicate.
 - If the scan tool does not communicate with one or more of the expected control modules, refer to **Data Link References** .
- 5. Attempt to start the engine. Verify that the engine cranks.
 - If the engine does not crank, refer to **Symptoms - Engine Electrical** .
- 6. Attempt to start the engine. Verify the engine starts and idles.
 - If the engine does not start and idle, refer to **Engine Cranks but Does Not Run** for the 6.0L engine or **Engine Cranks but Does Not Run** for the 7.0L engine.

IMPORTANT: Do not clear any DTCs unless instructed to do so by a diagnostic procedure.

IMPORTANT: If any DTCs are Powertrain related DTCs, select Capture Info in order to store the DTC information with the scan tool.

- 7. Advance to the List All DTCs selection on the scan tool. Verify there are no DTCs reported from any module.
 - If any DTCs are present, refer to **Diagnostic Trouble Code (DTC) List - Vehicle** and diagnose any current DTCs in the order they are displayed on the scan tool.
- 8. If the customer concern is related to inspection/maintenance (I/M) testing, refer to **Inspection/Maintenance (I/M) System Check** for the 6.0L engine or **Inspection/Maintenance (I/M) System Check** for the 7.0L engine.
 - If none of the previous tests or inspections addresses the concern, refer to **Symptoms - Vehicle**.

POWERTRAIN DIAGNOSTIC TROUBLE CODE (DTC) TYPE DEFINITIONS

Emissions Related DTCs

Action Taken When the DTC Sets - Type A

- The control module illuminates the malfunction indicator lamp (MIL) when the diagnostic

runs and fails.

- The control module records the operating conditions at the time the diagnostic fails. The control module stores this information in the Freeze Frame/Failure Records.

Action Taken When the DTC Sets - Type B

- The control module illuminates the MIL on the second consecutive ignition cycle that the diagnostic runs and fails.
- The control module records the operating conditions at the time the diagnostic fails. The first time the diagnostic fails, the control module stores this information in the Failure Records. If the diagnostic reports a failure on the second consecutive ignition cycle, the control module records the operating conditions at the time of the failure. The control module writes the operating conditions to the Freeze Frame and updates the Failure Records.
- The following applies to misfire DTCs:
 - If the control module detects a low level or an emission level misfire condition during 2 consecutive trips, the control module illuminates the MIL.
 - If the control module detects a high level or catalyst damaging misfire, the control module flashes the MIL at a rate of once per second.
 - If the control module detects a misfire during 2 non-consecutive trips, the stored conditions are compared with the current conditions. The control module illuminates the MIL when the following conditions occur:
 - The engine load is within 20 percent of the previous test that failed.
 - The engine speed is within 375 RPM of the previous test that failed.
 - The engine coolant temperature is in the same range of the previous test that failed.
- The following applies to fuel trim DTCs:
 - If the control module detects a fuel trim condition during 2 consecutive trips, the control module illuminates the MIL.
 - If the control module detects a fuel trim condition during 2 non-consecutive trips, the stored conditions are compared with the current conditions. The control module illuminates the MIL when the following conditions occur:
 - The engine load is within 20 percent of the previous test that failed.
 - The engine speed is within 375 RPM of the previous test that failed.
 - The engine coolant temperature is in the same range of the previous test that failed.

Conditions for Clearing the MIL/DTC - Type A or Type B

- The control module turns OFF the MIL after 4 consecutive ignition cycles that the diagnostic runs and does not fail.
- A current DTC, Last Test Failed, clears when the diagnostic runs and passes.
- A history DTC clears after 40 consecutive warm-up cycles, if no failures are reported by this or any other emission related diagnostic.
- Clear the MIL and the DTC with a scan tool.

Non-Emissions Related DTCs

Action Taken When the DTC Sets - Type C

- The control module stores the DTC information into memory when the diagnostic runs and fails.
- The MIL will not illuminate.
- The control module records the operating conditions at the time the diagnostic fails. The control module stores this information in the Failure Records.
- The driver information center, if equipped, may display a message.

Conditions for Clearing the DTC - Type C

- A current DTC Last Test Failed clears when the diagnostic runs and passes.
- A history DTC clears after 40 consecutive warm-up cycles, if no failures are reported by this or any other non-emission related diagnostic.
- Clear the DTC with a scan tool.

DIAGNOSTIC TROUBLE CODE (DTC) LIST - VEHICLE

This master DTC list includes all applicable DTCs in alphanumeric order with descriptors.

Diagnostic Trouble Code (DTC) List - Vehicle

DTC	DTC Descriptor	Module that Sets the DTC	Diagnostic Procedure
<p>IMPORTANT: Do NOT clear any DTCs unless instructed by a diagnostic procedure.</p> <ul style="list-style-type: none"> • Diagnose the DTCs in the order that the DTCs appear on the scan tool or mis-diagnosis may 			

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occur.

● **If multiple powertrain DTCs are stored, diagnose the DTCs in the following order:**

1. Component level DTCs, such as sensor DTCs, solenoid DTCs, and relay DTCs.
2. System level DTCs, such as misfire DTCs, evaporative emission (EVAP) system DTCs, and fuel trim DTCs.

B0001	Vehicle Speed Information Circuit Range/Performance	Navigation Radio	<u>DTC B0001</u>
B0005	In Park Switch Circuit	BCM, SCLCM	<u>DTC B0005</u>
B0012	Passenger Frontal Deployment Loop Stage 2 Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0013	Passenger Frontal Deployment Loop Stage 2 Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0014	Passenger Frontal Deployment Loop Stage 2 Voltage Out of Range	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0016	Passenger Frontal Deployment Loop Stage 1 Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0017	Passenger Frontal Deployment Loop Stage 1 Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089,</u>

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			<u>B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0018	Passenger Frontal Deployment Loop Stage 1 Voltage Out of Range	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0022	Driver Frontal Deployment Loop Stage 1 Resistance Low	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0024	Driver Frontal Deployment Loop Stage 1 Voltage Out of Range	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0026	Driver Frontal Deployment Loop Stage 1 Open	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0028	Right Front Side Deployment Loop Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0029	Right Front Side Deployment Loop Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0030	Right Front Side Deployment Loop Voltage Out of Range	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0040	Left Front Side Deployment Loop Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or</u>

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			<u>B3850-B3854</u>
B0041	Left Front Side Deployment Loop Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0042	Driver Frontal Deployment Loop Stage 2 Resistance Low	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0043	Driver Frontal Deployment Loop Stage 2 Voltage Out of Range	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0044	Driver Frontal Deployment Loop Stage 2 Open	SDM	<u>DTC B0022, B0024, B0026, B0042, B0043, or B0044</u>
B0045	Left Front Side Deployment Loop Voltage Out of Range	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0051	Deployment Commanded	SDM	<u>DTC B0051</u>
B0053	Deployment Commanded with Loop DTCs Present	SDM	<u>DTC B0053</u>
B0057	Right Front Pretensioner Deployment Loop Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0058	Right Front Pretensioner Deployment Loop Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0059	Right Front Pretensioner Deployment Loop Voltage Out	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046,</u>

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	of Range		<u>B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0064	Left Front Pretensioner Deployment Loop Resistance Low	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0065	Left Front Pretensioner Deployment Loop Open	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0066	Left Front Pretensioner Deployment Loop Voltage Out of Range	SDM	<u>DTC B0012-B0019, B0027, B0028, B0029, B0030, B0039, B0040, B0041, B0045, B0046, B0056-B0076, B0085-B0089, B0106-B0114, B0118-B0124, or B3850-B3854</u>
B0077	Driver Side Impact Sensor (SIS) Performance	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0078	Passenger Side Impact Sensor (SIS) Performance	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0079	Incorrect Driver Side Impact Sensor (SIS) Installed	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0080	Discard Driver Side Impact Sensor (SIS)	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0081	Incorrect Passenger Side Impact Sensor (SIS) Installed	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0082	Discard Passenger Side Impact Sensor (SIS)	SDM	<u>DTC B0077, B0078, B0079, B0080, B0081, or B0082</u>
B0083	Right Front Seat Position Sensor Circuit	SDM	<u>DTC B0083 or B0084</u>
B0084	Left Front Seat Position Sensor Circuit	SDM	<u>DTC B0083 or B0084</u>
	Passenger Presence System		

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B0092	Performance	SDM	<u>DTC B0092</u>
B0098	Passenger Presence System Configuration Error	SDM	<u>DTC B0098</u>
B0100	Front End Sensor 1 Performance	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0101	Discard Front End Sensor 1	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0102	Incorrect Front End Sensor 1 Installed	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0103	Front End Sensor 2 Performance	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0104	Discard Front End Sensor 2	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0105	Incorrect Front End Sensor 2 Installed	SDM	<u>DTC B0100, B0101, B0102, B0103, B0104, or B0105</u>
B0159	Outside Air Temperature Sensor Circuit	HVAC	<u>DTC B0159 or B0164</u>
B0164	Passenger Compartment Temperature Sensor Circuit	HVAC	<u>DTC B0159 or B0164</u>
B0174	Output Air Temperature Sensor 1	HVAC	<u>DTC B0174, B0179, B0510, or B0515</u>
B0179	Output Air Temperature Sensor 2	HVAC	<u>DTC B0174, B0179, B0510, or B0515</u>
B0184	Solar Load Sensor 1 Circuit Performance	HVAC	<u>DTC B0184 or B0189</u>
B0189	Solar Load Sensor 2 Circuit Performance	HVAC	<u>DTC B0184 or B0189</u>
B0248	Air Flow Control 3 Circuit	HVAC	<u>DTC B0248, B0268, B0408, or B0423</u>
B0249	Air Flow Control 3 Circuit Range	HVAC	<u>DTC B0249, B0269, B0409, or B0419</u>
B0268	Air Flow Control 7 Circuit	HVAC	<u>DTC B0248, B0268, B0408, or B0423</u>
B0269	Air Flow Control 7 and Circuit Range	HVAC	<u>DTC B0249, B0269, B0409, or B0419</u>
B0408	Temperature Control 1 Circuit	HVAC	<u>DTC B0248, B0268, B0408, or B0423</u>

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B0409	Temperature Control 1 Circuit Range	HVAC	<u>DTC B0249, B0269, B0409, or B0419</u>
B0419	Temperature Control 2 Circuit Range	HVAC	<u>DTC B0249, B0269, B0409, or B0419</u>
B0423	Temperature Control 2 Circuit	HVAC	<u>DTC B0248, B0268, B0408, or B0423</u>
B0510	Output Air Temperature Sensor 3	HVAC	<u>DTC B0174, B0179, B0510, or B0515</u>
B0515	Output Air Temperature Sensor 4	HVAC	<u>DTC B0174, B0179, B0510, or B0515</u>
B0540	Speedometer Circuit	IPC	<u>DTC B0540</u>
B0560	Tachometer Circuit	IPC	<u>DTC B0560</u>
B0976	Power Mode OFF Indicator Circuit	BCM	<u>DTC B0976, B0977, or B0978</u>
B0977	Power Mode START Indicator Circuit	BCM	<u>DTC B0976, B0977, or B0978</u>
B0978	Power Mode ACCESSORY Indicator Circuit	BCM	<u>DTC B0976, B0977, or B0978</u>
B1000	Electronic Control Unit (ECU) Performance	DSCC, BCM, DDM, DRR, RCDLR, FTC, HUD, HVAC, IPC, PDM, Radio, SCLCM, SDM, VCIM	<u>DTC B1000</u>
B1001	Option Configuration Error	BCM, DRR, Radio and VCIM	<u>DTC B1001</u>
		SDM	<u>DTC B1001</u>
B1004	Keep Alive Memory (KAM) Reset	Audio Amplifier, DDS, HVAC, SCLCM, VCIM	<u>DTC B1004</u>
		Audio	

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B1007	EEPROM Write Error	Amplifier, DDS, DPM, FTC, SCLCM	<u>DTC B1007</u>
B1009	EEPROM Checksum Mismatch	Audio Amplifier, DDS, DPM, FTC, SCLCM, VCIM	<u>DTC B1009</u>
B1011	System Disabled Information Stored	DDM, PDM	<u>DTC B1011</u>
		FTC	<u>DTC B1011</u>
B1013	Calibration Read Only Memory (ROM) Checksum Error	HVAC	<u>DTC B1013</u>
B1014	Program Read Only Memory (ROM) Checksum Error	HVAC	<u>DTC B1014</u>
B125A	Antenna 1 Circuit Left	Radio	<u>DTC B125A, B125B</u>
B125B	Antenna 2 Circuit Left	Radio	<u>DTC B125A, B125B</u>
B1271	Theft Locked	Radio	<u>DTC B1271</u>
B1291	Convertible Top Fifth Bow Position	FTC	<u>DTC B1291</u>
B1325	Device Power 1 Circuit Voltage	BCM	<u>DTC B1325</u>
B1327	Device Power 1 Circuit Low	Audio Amplifier, DRR, DPM, FTC, HVAC, SDM, SCLCM, VCIM, DDS	<u>DTC B1327</u>
B1328	Device Power 1 Circuit High	Audio Amplifier, FTC, HVAC, SCLCM, SDM	<u>DTC B1328</u>
B1336	Device Power 3 Circuit Range/Performance	DPM/MSM	<u>DTC B1336</u>

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B1370	Device Ignition 1 Circuit	RCDLR	<u>DTC B1370</u>
B1420	Device Voltage	DDM, PDM	<u>DTC B1420</u>
		DPM/MSM	<u>DTC B1420</u>
		FTC	<u>DTC B1420</u>
B1440	Power Mode Master Input Circuits Mismatch	RCDLR	<u>DTC B1440</u>
B1451	Accessory Power Circuit	BCM	<u>DTC B1451</u>
B1474	Right Front Exterior Door Handle Switch Circuit	DDM, PDM, RCDLR	<u>DTC B1474, B2981, B3848, or B3849 (DDM/PDM) or DTC B1474, B2981, B3848, or B3849 (RCDLR)</u>
B1480	Battery Rundown Protection Circuit	BCM	<u>DTC B1480</u>
B1580	Left Front Mirror Horizontal Position Sensor Circuit	DDM, PDM	<u>DTC B1580 or B1590</u>
B1590	Left Front Mirror Vertical Position Sensor Circuit	DDM, PDM	<u>DTC B1580 or B1590</u>
B1600	Mirror Motor 1 Circuit	DDM, PDM	<u>DTC B1600 or B1605</u>
B1605	Mirror Motor 2 Circuit	DDM, PDM	<u>DTC B1600 or B1605</u>
B1697	Mirror Left-Up Control Switch Circuit Low	DDSA	<u>DTC B1697, B1702, B1707, or B1712</u>
B1702	Mirror Left-Down Control Switch Circuit Low	DDSA	<u>DTC B1697, B1702, B1707, or B1712</u>
B1707	Mirror Right-Up Control Switch Circuit Low	DDSA	<u>DTC B1697, B1702, B1707, or B1712</u>
B1712	Mirror Right-Down Control Switch Circuit Low	DDSA	<u>DTC B1697, B1702, B1707, or B1712</u>
B1735	Seat Front Up Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1740	Seat Front Down Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1745	Seat Rear Up Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
			<u>DTC B1735, B1740, B1745,</u>

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B1750	Seat Rear Down Switch Circuit	DPM/MSM	<u>B1750, B1755, B1760, B1815, or B1820</u>
B1755	Seat Assembly Horizontal Forward Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1760	Seat Assembly Horizontal Rearward Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1815	Seat Recline Forward Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1820	Seat Recline Rearward Switch Circuit	DPM/MSM	<u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, or B1820</u>
B1825	Seat Recline Position Sensor Circuit	DPM/MSM	<u>DTC B1825, B1850, B2355, B2365, or B2375</u>
B1826	Seat Recline Position Sensor Circuit Range/Performance	DPM/MSM	<u>DTC B1826, B1851, B1861, B2356, B2366, or B2376</u>
B2355	Seat Front Vertical Position Sensor Circuit	DPM/MSM	<u>DTC B1825, B1850, B2355, B2365, or B2375</u>
B2356	Seat Front Vertical Position Sensor Circuit Range/Performance	DPM/MSM	<u>DTC B1826, B1851, B1861, B2356, B2366, or B2376</u>
B2365	Seat Rear Vertical Position Sensor Circuit	DPM/MSM	<u>DTC B1825, B1850, B2355, B2365, or B2375</u>
B2366	Seat Rear Vertical Position Sensor Circuit Range/Performance	DPM/MSM	<u>DTC B1826, B1851, B1861, B2356, B2366, or B2376</u>
B2375	Seat Assembly Horizontal Position Sensor Circuit	DPM/MSM	<u>DTC B1825, B1850, B2355, B2365, or B2375</u>
B2376	Seat Assembly Horizontal Position Sensor Circuit Range/Performance	DPM/MSM	<u>DTC B1826, B1851, B1861, B2356, B2366, or B2376</u>
B2455	Cellular Phone Microphone Circuit	VCIM	<u>DTC B2455</u>
B2462	Global Positioning System (GPS) Signal Error	Navigation Radio	<u>DTC B2462</u>

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B2470	Cellular Phone Antenna Circuit	VCIM	<u>DTC B2470</u>
B2476	Cellular Phone Select Service Switch	VCIM	<u>DTC B2476</u>
B2482	Cellular Phone Select Service Switch Performance	VCIM	<u>DTC B2482</u>
B2483	Global Positioning System (GPS) Sensor Circuit Low	VCIM	<u>DTC B2483 or B2484</u>
B2484	Global Positioning System (GPS) Sensor Circuit Open	VCIM	<u>DTC B2483 or B2484</u>
B2510	Steering Column Lock Motor Unlock Circuit	SCLCM	<u>DTC B2510</u>
B2515	Steering Column Lock Motor Feedback Circuit	SCLCM	<u>DTC B2515</u>
B2517	Left Front Door Latch Circuit	DDM, PDM	<u>DTC B2517 or B2518</u>
B2518	Right Front Door Latch Circuit	DDM, PDM	<u>DTC B2517 or B2518</u>
B2530	Front Foglamps Control Circuit	BCM	<u>DTC B2530</u>
B2540	Rear Foglamps Control Circuit	BCM	<u>DTC B2540</u>
B2580	Headlamp High Beam Control Circuit	BCM	<u>DTC B2580</u>
B2585	Park Lamp Control Circuit	BCM	<u>DTC B2585</u>
B2646	Ambient Light Sensor Circuit Performance	HVAC	<u>DTC B2646</u>
B2710	Gearshift Lock Circuit	RCDLR	<u>DTC B2710</u>
B2750	Horn Relay Coil Circuit	BCM	<u>DTC B2750</u>
B2757	Memory 1 Select Switch Circuit Low	DDM	<u>DTC B2757, B2762, B2767, or B2772</u>
B2762	Memory 2 Select Switch Circuit Low	DDM	<u>DTC B2757, B2762, B2767, or B2772</u>
B2853	Telescope Forward Switch Circuit High	DPM/MSM	<u>DTC B2853, B2858, B2873, or B2878</u>
B2858	Telescope Rearward Switch Circuit High	DPM/MSM	<u>DTC B2853, B2858, B2873, or B2878</u>
B2860	Telescope Position Sensor	DPM/MSM	<u>DTC B2860</u>

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B2897	Steering Column Lock Motor Lock Circuit	SCLCM	<u>DTC B2897</u>
B2907	Steering Column Lock Motor Enable Relay Circuit	BCM, SCLCM	<u>DTC B2907</u>
B2910	Steering Column Lock Password Incorrect	SCLCM	<u>DTC B2910</u>
B2981	Right Front Door Handle Switch Circuit	DDM, PDM, RCDLR	<u>DTC B1474, B2981, B3848, or B3849 (DDM/PDM) or DTC B1474, B2981, B3848, or B3849 (RCDLR)</u>
B3089	Content Theft System Intrusion Sensor Signal Circuit	BCM	<u>DTC B3089</u>
B3119	Keyless Entry Antenna 1 Performance	RCDLR	<u>DTC B3119</u>
B3120	Keyless Entry Antenna 2 Performance	RCDLR	<u>DTC B3120</u>
B3121	Keyless Entry Antenna 3 Performance	RCDLR	<u>DTC B3121</u>
B3122	Keyless Entry Antenna 4 Performance	RCDLR	<u>DTC B3122</u>
B3142	Left Front Unlock Switch Circuit Low	DDSA	<u>DTC B3142 or B3152</u>
B3145	Right Front Unlock Switch Circuit Low	PDM	<u>DTC B3145 or B3155</u>
B3152	Left Front Lock Switch Circuit Low	DDSA	<u>DTC B3142 or B3152</u>
B3155	Right Front Lock Switch Circuit Low	PDM	<u>DTC B3145 or B3155</u>
B3170	Right Front Window Up Switch Circuit	PDM	<u>DTC B3170, B3175, or B3280</u>
B3175	Right Front Window Down Switch Circuit	PDM	<u>DTC B3170, B3175, or B3280</u>
B3205	Left Front Window Motor Circuit	DDM	<u>DTC B3205</u>
B3265	Trunk Release Output Circuit Short to Battery	BCM	<u>DTC B3265</u>
B3280	Right Front Window Express	PDM	<u>DTC B3170, B3175, or B3280</u>

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	Up or Down Circuit		
B3377	Left Front Window Up Switch Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3382	Left Front Window Down Switch Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3387	Right Front Window Up Switch Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3392	Right Front Window Down Switch Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3467	Left Front Window Express Up or Down Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3472	Right Front Window Express Up or Down Circuit Low	DDSA	<u>DTC B3377, B3382, B3387, B3392, B3467, or B3472</u>
B3542	Left Front Window Obstruction Sensor Control Circuit	DDM, PDM	<u>DTC B3542</u>
B3602	Convertible Top Control Switch	FTC	<u>DTC B3602</u>
B3618	Exterior Trunk Release Switch Circuit Low	BCM	<u>DTC B3618</u>
B3619	Head-Up Display (HUD) Change Page Switch Circuit	HUD	<u>DTC B3619</u>
B3620	Head Up Display (HUD) Information Up Switch Circuit	HUD	<u>DTC B3620</u>
B3621	Head Up Display (HUD) Information Down Switch Circuit	HUD	<u>DTC B3621</u>
B3634	Head Up Display (HUD) Dimming (Up) Switch Circuit	HUD	<u>DTC B3634</u>
B3659	Head Up Display (HUD) Dimming Down Switch Circuit	HUD	<u>DTC B3659</u>
B3666	Rear Tonneau Position Error	FTC	<u>DTC B3666</u>
B3670	Pump Motor Temperature Sensor Circuit	FTC	<u>DTC B3670</u>
B3715	Front Wiper Relay Drive Circuit	BCM	<u>DTC B3715</u>

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B3744	Head Up Display (HUD) Mode Switch Circuit	HUD	<u>DTC B3744</u>
B3794	Cruise Control Function Request Circuit	BCM	<u>DTC B3794</u>
B3810	Headlamp Washer Relay Circuit	BCM	<u>DTC B3810</u>
B3848	Interior Door Handle Switch Circuit	DDM, PDM, RCDLR	<u>DTC B1474, B2981, B3848, or B3849 (DDM/PDM) or DTC B1474, B2981, B3848, or B3849 (RCDLR)</u>
B3849	Left Front Exterior Door Handle Switch Circuit	DDM, PDM, RCDLR	<u>DTC B1474, B2981, B3848, or B3849 (DDM/PDM) or DTC B1474, B2981, B3848, or B3849 (RCDLR)</u>
B3948	Left Front Turn Signal Circuit	BCM	<u>DTC B3948 or B3949</u>
B3949	Right Front Turn Signal Circuit	BCM	<u>DTC B3948 or B3949</u>
B3950	Left Rear Turn Signal Circuit	BCM	<u>DTC B3950 or B3951</u>
B3951	Right Rear Turn Signal Circuit	BCM	<u>DTC B3950 or B3951</u>
B3971	Folding Top Position Sensor	FTC	<u>DTC B3971</u>
C0035	Left Front Wheel Speed Sensor Circuit	EBCM	<u>DTC C0035-C0050</u>
C0040	Right Front Wheel Speed Sensor Circuit	EBCM	<u>DTC C0035-C0050</u>
C0045	Left Rear Wheel Speed Sensor Circuit	EBCM	<u>DTC C0035-C0050</u>
C0050	Right Rear Wheel Speed Sensor Circuit	EBCM	<u>DTC C0035-C0050</u>
C0110	Pump Motor Circuit	EBCM	<u>DTC C0110</u>
C0121	Valve Relay Circuit	EBCM	<u>DTC C0121</u>
C0136	Base Brake System Pressure Circuit	EBCM	<u>DTC C0136</u>
C0137	Base Brake System Pressure Circuit Range	EBCM	<u>DTC C0137</u>
C0161	Antilock Brake System (ABS)/Traction Control System (TCS) Brake Switch	EBCM	<u>DTC C0161</u>

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	Circuit		
C0179	System Thermal High	EBCM	<u>DTC C0179</u>
C0186	Lateral Accelerometer Circuit	EBCM	<u>DTC C0186</u>
C0196	Yaw Rate Circuit	EBCM	<u>DTC C0196</u>
C0220	Left Front Antilock Brake System (ABS) Channel in Release too Long	EBCM	<u>DTC C0220-C0229</u>
C0221	Right Front Antilock Brake System (ABS) Channel in Release too Long	EBCM	<u>DTC C0220-C0229</u>
C0228	Left Rear Antilock Brake System (ABS) Channel in Release too Long	EBCM	<u>DTC C0220-C0229</u>
C0229	Right Rear Antilock Brake System (ABS) Channel in Release too Long	EBCM	<u>DTC C0220-C0229</u>
C0240	Powertrain Control Module (PCM) Traction Control Not Allowed	EBCM	<u>DTC C0240</u>
C0242	Powertrain Control Module (PCM) Indicated TCS Malfunction	EBCM	<u>DTC C0242</u>
C0249	Left Normal Force Error	EBCM	<u>DTC C0249 or C0250</u>
C0250	Right Normal Force Error	EBCM	<u>DTC C0249 or C0250</u>
C0252	Vehicle Stability Enhancement System (VSES) Sensors Uncorrelated	EBCM	<u>DTC C0252</u>
C0253	Centering Error	EBCM	<u>DTC C0253</u>
C0267	Low Brake Fluid Indicated	EBCM	<u>DTC C0267</u>
C0277	Brake Pedal Position Sensor Circuit	BCM	<u>DTC C0277</u>
C0278	Brake Pedal Position Sensor Not Calibrated	BCM	<u>DTC C0278</u>
C0281	Dynamic Rear Proportioning (DRP) Performance	EBCM	<u>DTC C0281</u>
C0450	Steering Assist Control Solenoid/Motor/Actuator	EBCM	<u>DTC C0450</u>

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	Circuit		
C0550	Electronic Control Unit (ECU) Performance	EBCM	<u>DTC C0550</u>
		ESC	<u>DTC C0550</u>
C0551	Option Configuration Error	EBCM	<u>DTC C0551</u>
C0558	Calibration Data Not Programmed	ESC	<u>DTC C0558</u>
C0561	System Disabled Information Stored	EBCM	<u>DTC C0561</u>
C0565	Vehicle Identification Number (VIN) Information Error	EBCM	<u>DTC C0565</u>
C0575	Left Front Actuator Circuit	ESC	<u>DTC C0575, C0580, C0585, or C0590</u>
C0580	Right Front Actuator Circuit	ESC	<u>DTC C0575, C0580, C0585, or C0590</u>
C0585	Left Rear Actuator Circuit	ESC	<u>DTC C0575, C0580, C0585, or C0590</u>
C0590	Right Rear Actuator Circuit	ESC	<u>DTC C0575, C0580, C0585, or C0590</u>
C0615	Left Front Position Sensor Circuit	ESC	<u>DTC C0615, C0620, C0625 or C0630</u>
C0620	Right Front Position Sensor Circuit	ESC	<u>DTC C0615, C0620, C0625 or C0630</u>
C0625	Left Rear Position Sensor Circuit	ESC	<u>DTC C0615, C0620, C0625 or C0630</u>
C0630	Right Rear Position Sensor Circuit	ESC	<u>DTC C0615, C0620, C0625 or C0630</u>
C0696	Position Sensor Overcurrent (5-volt supply)	ESC	<u>DTC C0696</u>
C0710	Steering Position Signal	RCDLR	<u>DTC C0710</u>
C0750	Left Front Low Tire Pressure Sensor	RCDLR	<u>DTC C0750, C0755, C0760, or C0765</u>
C0755	Right Front Low Tire Pressure Sensor	RCDLR	<u>DTC C0750, C0755, C0760, or C0765</u>
C0760	Left Rear Low Tire Pressure Sensor	RCDLR	<u>DTC C0750, C0755, C0760, or C0765</u>
C0765	Right Rear Low Tire Pressure	RCDLR	<u>DTC C0750, C0755, C0760, or</u>

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	Sensor		<u>C0765</u>
C0820	EBCM Case Voltage	EBCM	<u>DTC C0820</u>
C0870	Device Voltage Reference Output 1 Circuit	BCM	<u>DTC C0870</u>
		EBCM	<u>DTC C0870</u>
C0895	Device Voltage	ESC	<u>DTC C0895</u>
C0899	Device 1 Voltage Low	EBCM	<u>DTC C0899</u>
C0900	Device 1 Voltage High	EBCM	<u>DTC C0900</u>
P0016	Crankshaft Position (CKP)-Camshaft Position (CMP) Correlation	ECM	<u>DTC P0016</u> for the 6.0L engine or <u>DTC P0016</u> for the 7.0L engine
P0030	HO2S Heater Control Circuit Bank 1 Sensor 1	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine
P0036	HO2S Heater Control Circuit Bank 1 Sensor 2	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine
P0050	HO2S Heater Control Bank 2 Sensor 1	ECM	<u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0053	HO2S Heater Resistance Circuit Bank 1 Sensor 1	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine

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P0054	HO2S Heater Resistance Circuit Bank 1 Sensor 2	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine
P0056	HO2S Heater Control Bank 2 Sensor 2	ECM	<u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0059	HO2S Heater Resistance Bank 2 Sensor 1	ECM	<u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0060	HO2S Heater Resistance Bank 2 Sensor 2	ECM	<u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0068	Throttle Body Airflow Performance	ECM	<u>DTC P0068 or P0121</u> for the 6.0L engine or <u>DTC P0068 or P0121</u> for the 7.0L engine
P0101	Mass Air Flow (MAF) Sensor Performance	ECM	<u>DTC P0101 or P1101</u> for the 6.0L engine or <u>DTC P0101 or P1101</u> for the 7.0L engine
			<u>DTC P0102 or P0103</u> for the 6.0L

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P0102	Mass Air Flow (MAF) Sensor Circuit Low Frequency	ECM	engine or <u>DTC P0102 or P0103</u> for the 7.0L engine
P0103	Mass Air Flow (MAF) Sensor Circuit High Frequency	ECM	<u>DTC P0102 or P0103</u> for the 6.0L engine or <u>DTC P0102 or P0103</u> for the 7.0L engine
P0106	Manifold Absolute Pressure (MAP) Sensor Performance	ECM	<u>DTC P0106</u> for the 6.0L engine or <u>DTC P0106</u> for the 7.0L engine
P0107	Manifold Absolute Pressure (MAP) Sensor Circuit Low Voltage	ECM	<u>DTC P0107 or P0108</u> for the 6.0L engine or <u>DTC P0107 or P0108</u> for the 7.0L engine
P0108	Manifold Absolute Pressure (MAP) Sensor Circuit High Voltage	ECM	<u>DTC P0107 or P0108</u> for the 6.0L engine or <u>DTC P0107 or P0108</u> for the 7.0L engine
P0112	Intake Air Temperature (IAT) Sensor Circuit Low Voltage	ECM	<u>DTC P0112 or P0113</u> for the 6.0L engine or <u>DTC P0112 or P0113</u> for the 7.0L engine
P0113	Intake Air Temperature (IAT) Sensor Circuit High Voltage	ECM	<u>DTC P0112 or P0113</u> for the 6.0L engine or <u>DTC P0112 or P0113</u> for the 7.0L engine
P0116	Engine Coolant Temperature (ECT) Sensor Performance	ECM	<u>DTC P0116</u> for the 6.0L engine or <u>DTC P0116</u> for the 7.0L engine
P0117	Engine Coolant Temperature (ECT) Sensor Circuit Low	ECM	<u>DTC P0117 or P0118</u> for the 6.0L engine or

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	Voltage		<u>DTC P0117 or P0118</u> for the 7.0L engine
P0118	Engine Coolant Temperature (ECT) Sensor Circuit High Voltage	ECM	<u>DTC P0117 or P0118</u> for the 6.0L engine or <u>DTC P0117 or P0118</u> for the 7.0L engine
P0120	Throttle Position (TP) Sensor 1 Circuit	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P0121	Throttle Position (TP) Sensor 1 Performance	ECM	<u>DTC P0068 or P0121</u> for the 6.0L engine or <u>DTC P0068 or P0121</u> for the 7.0L engine
P0122	Throttle Position (TP) Sensor 1 Circuit Low Voltage	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P0123	Throttle Position (TP) Sensor 1 Circuit High Voltage	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P0128	Engine Coolant Temperature (ECT) Below Thermostat Regulating Temperature	ECM	<u>DTC P0128</u> for the 6.0L engine or <u>DTC P0128</u> for the 7.0L engine
	HO2S Circuit Low Voltage		<u>DTC P0131, P0132, P0137, or P0138</u> for the 6.0L engine

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P0131	Bank 1 Sensor 1	ECM	or <u>DTC P0131, P0132, P0137, or P0138</u> for the 7.0L engine
P0132	HO2S Circuit High Voltage Bank 1 Sensor 1	ECM	<u>DTC P0131, P0132, P0137, or P0138</u> for the 6.0L engine or <u>DTC P0131, P0132, P0137, or P0138</u> for the 7.0L engine
P0133	HO2S Slow Response Bank 1 Sensor 1	ECM	<u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 6.0L engine or <u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 7.0L engine
P0134	HO2S Circuit Insufficient Activity Bank 1 Sensor 1	ECM	<u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 6.0L engine or <u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 7.0L engine
P0135	HO2S Heater Performance Bank 1 Sensor 1	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine
P0137	HO2S Circuit Low Voltage Bank 1 Sensor 2	ECM	<u>DTC P0131, P0132, P0137, or P0138</u> for the 6.0L engine or <u>DTC P0131, P0132, P0137, or P0138</u> for the 7.0L engine
P0138	HO2S Circuit High Voltage Bank 1 Sensor 2	ECM	<u>DTC P0131, P0132, P0137, or P0138</u> for the 6.0L engine or <u>DTC P0131, P0132, P0137, or P0138</u> for the 7.0L engine

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P0140	HO2S Circuit Insufficient Activity Bank 1 Sensor 2	ECM	<u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 6.0L engine or <u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 7.0L engine
P0141	HO2S Heater Performance Bank 1 Sensor 2	ECM	<u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 6.0L engine or <u>DTC P0030, P0036, P0053, P0054, P0135, or P0141</u> for the 7.0L engine
P0151	HO2S Circuit Low Voltage Bank 2 Sensor 1	ECM	<u>DTC P0151, P0152, P0157, or P0158</u> for the 6.0L engine or <u>DTC P0151, P0152, P0157, or P0158</u> for the 7.0L engine
P0152	HO2S Circuit High Voltage Bank 2 Sensor 1	ECM	<u>DTC P0151, P0152, P0157, or P0158</u> for the 6.0L engine or <u>DTC P0151, P0152, P0157, or P0158</u> for the 7.0L engine
P0153	HO2S Slow Response Bank 2 Sensor 1	ECM	<u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 6.0L engine or <u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 7.0L engine
P0154	HO2S Circuit Insufficient Activity Bank 2 Sensor 1	ECM	<u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 6.0L engine or <u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 7.0L engine
			<u>DTC P0050, P0056, P0059,</u>

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P0155	HO2S Heater Performance Bank 2 Sensor 1	ECM	<u>P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0157	HO2S Circuit Low Voltage Bank 2 Sensor 2	ECM	<u>DTC P0151, P0152, P0157, or P0158</u> for the 6.0L engine or <u>DTC P0151, P0152, P0157, or P0158</u> for the 7.0L engine
P0158	HO2S Circuit High Voltage Bank 2 Sensor 2	ECM	<u>DTC P0151, P0152, P0157, or P0158</u> for the 6.0L engine or <u>DTC P0151, P0152, P0157, or P0158</u> for the 7.0L engine
P0160	HO2S Circuit Insufficient Activity Bank 2 Sensor 2	ECM	<u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 6.0L engine or <u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 7.0L engine
P0161	HO2S Heater Performance Bank 2 Sensor 2	ECM	<u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 6.0L engine or <u>DTC P0050, P0056, P0059, P0060, P0155, or P0161</u> for the 7.0L engine
P0171	Fuel Trim System Lean Bank 1	ECM	<u>DTC P0171, P0172, P0174, or P0175</u> for the 6.0L engine or <u>DTC P0171, P0172, P0174, or P0175</u> for the 7.0L engine
P0172	Fuel Trim System Rich Bank 1	ECM	<u>DTC P0171, P0172, P0174, or P0175</u> for the 6.0L engine or <u>DTC P0171, P0172, P0174, or</u>

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			<u>P0175</u> for the 7.0L engine
P0174	Fuel Trim System Lean Bank 2	ECM	<u>DTC P0171, P0172, P0174, or P0175</u> for the 6.0L engine or <u>DTC P0171, P0172, P0174, or P0175</u> for the 7.0L engine
P0175	Fuel Trim System Rich Bank 2	ECM	<u>DTC P0171, P0172, P0174, or P0175</u> for the 6.0L engine or <u>DTC P0171, P0172, P0174, or P0175</u> for the 7.0L engine
P0201	Injector 1 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0202	Injector 2 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0203	Injector 3 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0204	Injector 4 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine

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P0205	Injector 5 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0206	Injector 6 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0207	Injector 7 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0208	Injector 8 Control Circuit	ECM	<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 6.0L engine or <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0207, or P0208</u> for the 7.0L engine
P0218	Transmission Fluid Overtemperature	TCM	<u>DTC P0218</u>
P0220	Throttle Position (TP) Sensor 2 Circuit	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
			<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u>

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P0222	Throttle Position (TP) Sensor 2 Circuit Low Voltage	ECM	for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P0223	Throttle Position (TP) Sensor 2 Circuit High Voltage	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P0230	Fuel Pump Relay Control Circuit	ECM	<u>DTC P0230</u> for the 6.0L engine or <u>DTC P0230</u> for the 7.0L engine
P0300	Engine Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0301	Cylinder 1 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0302	Cylinder 2 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0303	Cylinder 3 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0304	Cylinder 4 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or

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			<u>DTC P0300 - P0308</u> for the 7.0L engine
P0305	Cylinder 5 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0306	Cylinder 6 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0307	Cylinder 7 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0308	Cylinder 8 Misfire Detected	ECM	<u>DTC P0300 - P0308</u> for the 6.0L engine or <u>DTC P0300 - P0308</u> for the 7.0L engine
P0315	Crankshaft Position (CKP) System Variation Not Learned	ECM	<u>DTC P0315</u> for the 6.0L engine or <u>DTC P0315</u> for the 7.0L engine
P0324	Knock Sensor (KS) Module Performance	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0325	Knock Sensor (KS) Circuit Bank 1	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or</u>

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			<u>P0333</u> for the 7.0L engine
P0326	Knock Sensor (KS) Performance	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0327	Knock Sensor (KS) Circuit Low Voltage Bank 1	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0328	Knock Sensor (KS) Circuit High Voltage Bank 1	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0330	Knock Sensor (KS) Circuit Bank 2	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0332	Knock Sensor (KS) Circuit Low Voltage Bank 2	ECM	<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
			<u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 6.0L engine

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P0333	Knock Sensor (KS) Circuit High Voltage Bank 2	ECM	or <u>DTC P0324, P0325, P0326, P0327, P0328, P0330, P0332, or P0333</u> for the 7.0L engine
P0335	Crankshaft Position (CKP) Sensor Circuit	ECM	<u>DTC P0335 or P0336</u> for the 6.0L engine or <u>DTC P0335 or P0336</u> for the 7.0L engine
P0336	Crankshaft Position (CKP) Sensor Performance	ECM	<u>DTC P0335 or P0336</u> for the 6.0L engine or <u>DTC P0335 or P0336</u> for the 7.0L engine
P0340	Camshaft Position (CMP) Sensor Circuit	ECM	<u>DTC P0340 or P0341</u> for the 6.0L engine or <u>DTC P0340 or P0341</u> for the 7.0L engine
P0341	Camshaft Position (CMP) Sensor Performance	ECM	<u>DTC P0340 or P0341</u> for the 6.0L engine or <u>DTC P0340 or P0341</u> for the 7.0L engine
P0351	Ignition Coil 1 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0352	Ignition Coil 3 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0353	Ignition Coil 3 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine

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			engine
P0354	Ignition Coil 4 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0355	Ignition Coil 5 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0356	Ignition Coil 6 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0357	Ignition Coil 7 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0358	Ignition Coil 8 Control Circuit	ECM	<u>DTC P0351-P0358</u> for the 6.0L engine or <u>DTC P0351-P0358</u> for the 7.0L engine
P0420	Catalyst System Low Efficiency Bank 1	ECM	<u>DTC P0420 or P0430</u> for the 6.0L engine or <u>DTC P0420 or P0430</u> for the 7.0L engine
P0430	Catalyst System Low Efficiency Bank 2	ECM	<u>DTC P0420 or P0430</u> for the 6.0L engine or <u>DTC P0420 or P0430</u> for the 7.0L engine
P0442	Evaporative Emission (EVAP) System Small Leak Detected	ECM	<u>DTC P0442</u> for the 6.0L engine or

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			<u>DTC P0442</u> for the 7.0L engine
P0443	Evaporative Emission (EVAP) Purge Solenoid Control Circuit	ECM	<u>DTC P0443 or P0449</u> for the 6.0L engine or <u>DTC P0443 or P0449</u> for the 7.0L engine
P0446	Evaporative Emission (EVAP) Vent System Performance	ECM	<u>DTC P0446</u> for the 6.0L engine or <u>DTC P0446</u> for the 7.0L engine
P0449	Evaporative Emission (EVAP) Vent Solenoid Control Circuit	ECM	<u>DTC P0443 or P0449</u> for the 6.0L engine or <u>DTC P0443 or P0449</u> for the 7.0L engine
P0451	Fuel Tank Pressure (FTP) Sensor Performance	ECM	<u>DTC P0451, P0452, P0453, or P0454</u> for the 6.0L engine or <u>DTC P0451, P0452, P0453, or P0454</u> for the 7.0L engine
P0452	Fuel Tank Pressure (FTP) Sensor Circuit Low Voltage	ECM	<u>DTC P0451, P0452, P0453, or P0454</u> for the 6.0L engine or <u>DTC P0451, P0452, P0453, or P0454</u> for the 7.0L engine
P0453	Fuel Tank Pressure (FTP) Sensor Circuit High Voltage	ECM	<u>DTC P0451, P0452, P0453, or P0454</u> for the 6.0L engine or <u>DTC P0451, P0452, P0453, or P0454</u> for the 7.0L engine
P0454	Fuel Tank Pressure (FTP) Sensor Circuit Intermittent	ECM	<u>DTC P0451, P0452, P0453, or P0454</u> for the 6.0L engine or <u>DTC P0451, P0452, P0453, or P0454</u> for the 7.0L engine
P0455	Evaporative Emission (EVAP) System Large Leak Detected	ECM	<u>DTC P0455</u> for the 6.0L engine or <u>DTC P0455</u> for the 7.0L engine
	Fuel Level Sensor 1		

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P0461	Performance	ECM	<u>DTC P0461</u>
P0462	Fuel Level Sensor 1 Circuit Low Voltage	ECM	<u>DTC P0462</u>
P0463	Fuel Level Sensor 1 Circuit High Voltage	ECM	<u>DTC P0463</u>
P0464	Fuel Level Sensor Circuit Intermittent	ECM	<u>DTC P0464</u>
P0496	Evaporative Emission (EVAP) System Flow During Non-Purge	ECM	<u>DTC P0496</u> for the 6.0L engine or <u>DTC P0496</u> for the 7.0L engine
P0502	Vehicle Speed Sensor (VSS) Circuit Low Voltage	ECM	<u>DTC P0502</u> for the Tremec 6-Speed transmission
P0503	Vehicle Speed Sensor (VSS) Circuit Intermittent	ECM	<u>DTC P0503</u> for the Tremec 6-Speed transmission
P0506	Idle Speed Low	ECM	<u>DTC P0506 or P0507</u> for the 6.0L engine or <u>DTC P0506 or P0507</u> for the 7.0L engine
P0507	Idle Speed High	ECM	<u>DTC P0506 or P0507</u> for the 6.0L engine or <u>DTC P0506 or P0507</u> for the 7.0L engine
P0521	Engine Oil Pressure (EOP) Sensor Performance	ECM	<u>DTC P0521</u>
P0522	Engine Oil Pressure (EOP) Sensor Circuit Low Voltage	ECM	<u>DTC P0522</u>
P0523	Engine Oil Pressure (EOP) Sensor Circuit High Voltage	ECM	<u>DTC P0523</u>
P0532	Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit Low Voltage	ECM	<u>DTC P0532 or P0533</u>
P0533	Air Conditioning (A/C) Refrigerant Pressure Sensor Circuit High Voltage	ECM	<u>DTC P0532 or P0533</u>
P0562	System Voltage Low	ECM	<u>DTC P0562</u>

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		TCM	<u>DTC P0562 or P0563</u>
P0563	System Voltage High	ECM	<u>DTC P0563</u>
		TCM	<u>DTC P0562 or P0563</u>
P0572	Brake Switch Circuit 1 Low Voltage	ECM	<u>DTC P0572</u>
P0573	Brake Switch Circuit 1 High Voltage	ECM	<u>DTC P0573</u>
P0575	Cruise Control Switch Signal Circuit	ECM	<u>DTC P0575</u>
P0601	Control Module Read Only Memory (ROM)	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
	Transmission Control Module (TCM) Read Only Memory (ROM)	TCM	<u>DTC P0601, P0602, P0603, P0604, or P062F</u>
P0602	Control Module Not Programmed	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
	Transmission Control Module (TCM) Not Programmed	TCM	<u>DTC P0601, P0602, P0603, P0604, or P062F</u>
	Control Module Long Term Memory Reset	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603,</u>

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P0603			<u>P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
	Transmission Control Module (TCM) Long Term Memory Reset	TCM	<u>DTC P0601, P0602, P0603, P0604, or P062F</u>
P0604	Control Module Random Access Memory (RAM)	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
	Transmission Control Module (TCM) Random Access Memory (RAM)	TCM	<u>DTC P0601, P0602, P0603, P0604, or P062F</u>
P0606	Control Module Internal Performance	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
P0607	Control Module Performance	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
P0608	Vehicle Speed Output Circuit	ECM	<u>DTC P0608</u>
			<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D,</u>

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P060D	Control Module Accelerator Pedal Position (APP) System Performance	ECM	<u>P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
P0615	Starter Relay Control Circuit	ECM	<u>DTC P0615</u>
P0621	Generator L-Terminal Circuit	ECM	<u>DTC P0621</u>
P0622	Generator F-Terminal Circuit	ECM	<u>DTC P0622</u>
P062F	Control Module Long Term Memory Performance	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
	Transmission Control Module (TCM) Long Term Memory Performance	TCM	<u>DTC P0601, P0602, P0603, P0604, or P062F</u>
P0634	Transmission Control Module (TCM) Overtemperature	TCM	<u>DTC P0634</u>
P0641	5-Volt Reference 1 Circuit	ECM	<u>DTC P0641 or P0651</u> for the 6.0L engine or <u>DTC P0641 or P0651</u> for the 7.0L engine
P0645	Air Conditioning (A/C) Clutch Relay Control Circuit	ECM	<u>DTC P0645</u>
P0650	Malfunction Indicator Lamp (MIL) Control Circuit	ECM	<u>DTC P0650</u> for the 6.0L engine or <u>DTC P0650</u> for the 7.0L engine
P0651	5-Volt Reference 2 Circuit	ECM	<u>DTC P0641 or P0651</u> for the 6.0L engine or <u>DTC P0641 or P0651</u> for the 7.0L engine

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			engine
P0654	Engine Speed Output Circuit	ECM	<u>DTC P0654</u>
P0667	Transmission Control Module (TCM) Temperature Sensor Performance	TCM	<u>DTC P0667, P0668, or P0669</u>
P0668	Transmission Control Module (TCM) Temperature Sensor Circuit Low Voltage	TCM	<u>DTC P0667, P0668, or P0669</u>
P0669	Transmission Control Module (TCM) Temperature Sensor Circuit High Voltage	TCM	<u>DTC P0667, P0668, or P0669</u>
P0685	Engine Controls Ignition Relay Control Circuit	ECM	<u>DTC P0685, P0689, or P0690</u> for the 6.0L engine or <u>DTC P0685, P0689, or P0690</u> for the 7.0L engine
P0689	Engine Controls Ignition Relay Feedback Circuit Low Voltage	ECM	<u>DTC P0685, P0689, or P0690</u> for the 6.0L engine or <u>DTC P0685, P0689, or P0690</u> for the 7.0L engine
P0690	Engine Controls Ignition Relay Feedback Circuit High Voltage	ECM	<u>DTC P0685, P0689, or P0690</u> for the 6.0L engine or <u>DTC P0685, P0689, or P0690</u> for the 7.0L engine
P0700	Transmission Control Module (TCM) Requested MIL Illumination	ECM	<u>DTC P0700</u> for the 6.0L engine or <u>DTC P0700</u> for the 7.0L engine
P0703	Brake Switch 2 Circuit	TCM	<u>DTC P0703</u>
P0711	Transmission Fluid Temperature (TFT) Sensor Performance	TCM	<u>DTC P0711, P0712, or P0713</u>
P0712	Transmission Fluid Temperature (TFT) Sensor Circuit Low Voltage	ECM, TCM	<u>DTC P0712</u> for the Tremec 6-Speed transmission or <u>DTC P0711, P0712, or P0713</u> for the 6L50/6L80/6L90 transmission

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P0713	Transmission Fluid Temperature (TFT) Sensor Circuit High Voltage	ECM, TCM	<u>DTC P0713</u> for the Tremec 6-Speed transmission or <u>DTC P0711, P0712, or P0713</u> for the 6L50/6L80/6L90 transmission
P0716	Speed Sensor Performance	TCM	<u>DTC P0716 or P0717</u>
P0717	Input Speed Sensor Circuit Low Voltage	TCM	<u>DTC P0716 or P0717</u>
P0719	Brake Switch Circuit Low Voltage	TCM	<u>DTC P0719</u>
P0722	Output Speed Sensor Circuit Low Voltage	TCM	<u>DTC P0722 or P0723</u>
P0723	Output Speed Sensor Circuit Intermittent	TCM	<u>DTC P0722 or P0723</u>
P0724	Brake Switch Circuit High Voltage	TCM	<u>DTC P0724</u>
P0736	Incorrect Reverse Ratio	TCM	<u>DTC P0736</u>
P0741	Torque Converter Clutch (TCC) System - Stuck Off	TCM	<u>DTC P0741 or P0742</u>
P0742	Torque Converter Clutch (TCC) System - Stuck On	TCM	<u>DTC P0741 or P0742</u>
P0751	1-2 Shift Solenoid (SS) Valve Performance - No First or Fourth Gear	TCM	<u>DTC P0751</u>
P0752	1-2 Shift Solenoid (SS) Valve Performance - No Second or Third Gear	TCM	<u>DTC P0752</u>
P0756	2-3 Shift Solenoid (SS) Valve Performance - No First or Second Gear	TCM	<u>DTC P0756</u>
P0776	Clutch Pressure Control (PC) Solenoid 2 - Stuck Off	TCM	<u>DTC P0776 or P0777</u>
P0777	Clutch Pressure Control (PC) Solenoid 2 - Stuck On	TCM	<u>DTC P0776 or P0777</u>
P0796	Clutch Pressure Control (PC) Solenoid 3 - Stuck Off	TCM	<u>DTC P0796 or P0797</u>
P0797	Clutch Pressure Control (PC)	TCM	<u>DTC P0796 or P0797</u>

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	Solenoid 3 - Stuck On		
P0801	Reverse Inhibit Solenoid Control Circuit	ECM	<u>DTC P0801</u>
P0803	Skip Shift Solenoid Control Circuit	ECM	<u>DTC P0803</u>
P0815	Upshift Switch Circuit	TCM	<u>DTC P0815, P0816, or P0826</u>
P0816	Downshift Switch Circuit	TCM	<u>DTC P0815, P0816, or P0826</u>
P0826	Up and Down Shift Switch Circuit	TCM	<u>DTC P0815, P0816, or P0826</u>
P0833	Clutch Pedal Switch 2 Circuit	ECM	<u>DTC P0833</u>
P0842	Transmission Fluid Pressure (TFP) Switch 1 Circuit Low Voltage	TCM	<u>DTC P0842 or P0843</u>
P0843	Transmission Fluid Pressure (TFP) Switch 1 Circuit High Voltage	TCM	<u>DTC P0842 or P0843</u>
P0851	Park/Neutral Position (PNP) Switch Circuit Low Voltage	TCM	<u>DTC P0851 or P0852</u>
P0852	Park/Neutral Position (PNP) Switch Circuit High Voltage	TCM	<u>DTC P0851 or P0852</u>
P0872	Transmission Fluid Pressure (TFP) Switch 3 Circuit Low Voltage	TCM	<u>DTC P0872 or P0873</u>
P0873	Transmission Fluid Pressure (TFP) Switch 3 Circuit High Voltage	TCM	<u>DTC P0872 or P0873</u>
P0877	Transmission Fluid Pressure (TFP) Switch 4 Circuit Low Voltage	TCM	<u>DTC P0877 or P0878</u>
P0878	Transmission Fluid Pressure (TFP) Switch 4 Circuit High Voltage	TCM	<u>DTC P0877 or P0878</u>
P0961	Line Pressure Control (PC) Solenoid System Performance	TCM	<u>DTC P0961, P0962 or P0963</u>
P0962	Line Pressure Control (PC) Solenoid Control Circuit Low Voltage	TCM	<u>DTC P0961, P0962 or P0963</u>

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P0963	Line Pressure Control (PC) Solenoid Control Circuit High Voltage	TCM	<u>DTC P0961, P0962 or P0963</u>
P0965	Clutch Pressure Control (PC) Solenoid 2 System Performance	TCM	<u>DTC P0965, P0966 or P0967</u>
P0966	Clutch Pressure Control (PC) Solenoid 2 Control Circuit Low Voltage	TCM	<u>DTC P0965, P0966 or P0967</u>
P0967	Clutch Pressure Control (PC) Solenoid 2 Control Circuit High Voltage	TCM	<u>DTC P0965, P0966 or P0967</u>
P0969	Clutch Pressure Control (PC) Solenoid 3 System Performance	TCM	<u>DTC P0969, P0970 or P0971</u>
P0970	Clutch Pressure Control (PC) Solenoid 3 Control Circuit Low Voltage	TCM	<u>DTC P0969, P0970 or P0971</u>
P0971	Clutch Pressure Control (PC) Solenoid 3 Control Circuit High Voltage	TCM	<u>DTC P0969, P0970 or P0971</u>
P0973	1-2 Shift Solenoid (SS) Control Circuit Low Voltage	TCM	<u>DTC P0973 or P0974</u>
P0974	1-2 Shift Solenoid (SS) Control Circuit High Voltage	TCM	<u>DTC P0973 or P0974</u>
P0976	2-3 Shift Solenoid (SS) Control Circuit Low Voltage	TCM	<u>DTC P0976 or P0977</u>
P0977	2-3 Shift Solenoid (SS) Control Circuit High Voltage	TCM	<u>DTC P0976 or P0977</u>
P0989	Transmission Fluid Pressure (TFP) Switch 5 Circuit Low Voltage	TCM	<u>DTC P0989 or P0990</u>
P0990	Transmission Fluid Pressure (TFP) Switch 5 Circuit High Voltage	TCM	<u>DTC P0989 or P0990</u>
P1101	Intake Air Flow System	ECM	<u>DTC P0101 or P1101</u> for the 6.0L engine or

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	Performance		<u>DTC P0101 or P1101</u> for the 7.0L engine
P1133	HO2S Insufficient Switching Bank 1 Sensor 1	ECM	<u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 6.0L engine or <u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 7.0L engine
P1153	HO2S Insufficient Switching Bank 2 Sensor 1	ECM	<u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 6.0L engine or <u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 7.0L engine
P1258	Engine Coolant Overtemperature - Protection Mode Active	ECM	<u>DTC P1258</u>
P1380	Misfire Detected - Rough Road Data Not Available	ECM	<u>DTC P1380 or P1381</u> for the 6.0L engine or <u>DTC P1380 or P1381</u> for the 7.0L engine
P1381	Misfire Detected - No Communication With Brake Control Module	ECM	<u>DTC P1380 or P1381</u> for the 6.0L engine or <u>DTC P1380 or P1381</u> for the 7.0L engine
P1400	Cold Start Emission Reduction Control System	ECM	<u>DTC P1400</u> for the 6.0L engine or <u>DTC P1400</u> for the 7.0L engine
P1482	Cooling Fan Speed Output Circuit	ECM	<u>DTC P1482</u>
P1516	Throttle Actuator Control (TAC) Module Throttle Actuator Position Performance	ECM	<u>DTC P1516, P2101, P2119, or P2176</u> for the 6.0L engine or <u>DTC P1516, P2101, P2119, or</u>

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			<u>P2176</u> for the 7.0L engine
P1617	Engine Oil Level Switch Circuit	ECM	<u>DTC P1617</u>
P1630	Theft Deterrent Learn Mode Active	ECM	<u>DTC P1630</u>
P1631	Theft Deterrent Fuel Enable Signal Not Correct	ECM	<u>DTC P1631</u>
P166A	Exhaust Control Valve Control Circuit	EFCM	<u>DTC P166A</u>
P1682	Ignition 1 Switch Circuit 2	ECM	<u>DTC P1682</u> for the 6.0L engine or <u>DTC P1682</u> for the 7.0L engine
P1684	Transmission Control Module (TCM) Power Up Temperature Sensor Performance	TCM	<u>DTC P1684, P1685 or P1686</u>
P1685	Transmission Control Module (TCM) Power Up Temperature Sensor Circuit Low Voltage	TCM	<u>DTC P1684, P1685 or P1686</u>
P1686	Transmission Control Module (TCM) Power Up Temperature Sensor Circuit High Voltage	TCM	<u>DTC P1684, P1685 or P1686</u>
P1751	Shift Valve 1 Performance	TCM	<u>DTC P1751</u>
P1825	Internal Mode Switch - Invalid Range	TCM	<u>DTC P1825 or P1915</u>
P1831	Pressure Control (PC)/Shift Lock Solenoid Control Circuit Low Voltage	TCM	<u>DTC P1831 or P1832</u>
P1832	Pressure Control (PC)/Shift Lock Solenoid Control Circuit High Voltage	TCM	<u>DTC P1831 or P1832</u>
P1915	Internal Mode Switch Start/Wrong Range	TCM	<u>DTC P1825 or P1915</u>
P2066	Fuel Level Sensor 2 Performance	ECM	<u>DTC P2066 or P2636</u>

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P2067	Fuel Level Sensor 2 Circuit Low Voltage	ECM	<u>DTC P2067</u>
P2068	Fuel Level Sensor 2 Circuit High Voltage	ECM	<u>DTC P2068</u>
P2101	Control Module Throttle Actuator Position Performance	ECM	<u>DTC P1516, P2101, P2119, or P2176</u> for the 6.0L engine or <u>DTC P1516, P2101, P2119, or P2176</u> for the 7.0L engine
P2119	Throttle Closed Position Performance	ECM	<u>DTC P1516, P2101, P2119, or P2176</u> for the 6.0L engine or <u>DTC P1516, P2101, P2119, or P2176</u> for the 7.0L engine
P2120	Accelerator Pedal Position (APP) Sensor 1 Circuit	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2122	Accelerator Pedal Position (APP) Sensor 1 Circuit Low Voltage	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2123	Accelerator Pedal Position (APP) Sensor 1 Circuit High Voltage	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
	Accelerator Pedal Position		<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine

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P2125	(APP) Sensor 2 Circuit	ECM	or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2127	Accelerator Pedal Position (APP) Sensor 2 Circuit Low Voltage	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2128	Accelerator Pedal Position (APP) Sensor 2 Circuit High Voltage	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2135	Throttle Position (TP) Sensor 1-2 Correlation	ECM	<u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 6.0L engine or <u>DTC P0120, P0122, P0123, P0220, P0222, P0223, or P2135</u> for the 7.0L engine
P2138	Accelerator Pedal Position (APP) Sensor 1-2 Correlation	ECM	<u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 6.0L engine or <u>DTC P2120, P2122, P2123, P2125, P2127, P2128, or P2138</u> for the 7.0L engine
P2176	Minimum Throttle Position Not Learned	ECM	<u>DTC P1516, P2101, P2119, or P2176</u> for the 6.0L engine or <u>DTC P1516, P2101, P2119, or P2176</u> for the 7.0L engine
P2534	Ignition 1 Switch Circuit Low Voltage	TCM	<u>DTC P2534</u>

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P2610	Control Module Ignition Off Timer Performance	ECM	<u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 6.0L engine or <u>DTC P0601, P0602, P0603, P0604, P0606, P0607, P060D, P062F, or P2610</u> for the 7.0L engine
P2636	Fuel Transfer Pump Flow Insufficient	ECM	<u>DTC P2066 or P2636</u>
P2714	Clutch Pressure Control (PC) Solenoid 4 - Stuck Off	TCM	<u>DTC P2714 or P2715</u>
P2715	Clutch Pressure Control (PC) Solenoid 4 - Stuck On	TCM	<u>DTC P2714 or P2715</u>
P2719	Clutch Pressure Control (PC) Solenoid 4 System Performance	TCM	<u>DTC P2719, P2720 or P2721</u>
P2720	Clutch Pressure Control (PC) Solenoid 4 Control Circuit Low Voltage	TCM	<u>DTC P2719, P2720 or P2721</u>
P2721	Clutch Pressure Control (PC) Solenoid 4 Control Circuit High Voltage	TCM	<u>DTC P2719, P2720 or P2721</u>
P2723	Clutch Pressure Control (PC) Solenoid 5 - Stuck Off	TCM	<u>DTC P2723 or P2724</u>
P2724	Clutch Pressure Control (PC) Solenoid 5 - Stuck On	TCM	<u>DTC P2723 or P2724</u>
P2728	Clutch Pressure Control (PC) Solenoid 5 System Performance	TCM	<u>DTC P2728, P2729 or P2730</u>
P2729	Clutch Pressure Control (PC) Solenoid 5 Control Circuit Low Voltage	TCM	<u>DTC P2728, P2729 or P2730</u>
P2730	Clutch Pressure Control (PC) Solenoid 5 Control Circuit High Voltage	TCM	<u>DTC P2728, P2729 or P2730</u>
	Torque Converter Clutch		

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P2762	(TCC) Pressure Control Solenoid System Performance	TCM	<u>DTC P2762, DTC P2763 or DTC P2764</u>
P2763	Torque Converter Clutch (TCC) Pressure Control (PC) Solenoid Control Circuit High Voltage	TCM	<u>DTC P2762, DTC P2763 or DTC P2764</u>
P2764	Torque Converter Clutch (TCC) Pressure Control (PC) Solenoid Control Circuit Low Voltage	TCM	<u>DTC P2762, DTC P2763 or DTC P2764</u>
P2A01	HO2S Performance Bank 1 Sensor 2	ECM	<u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 6.0L engine or <u>DTC P0133, P0134, P0140, P1133, P2A00 or P2A01</u> for the 7.0L engine
P2A04	HO2S Performance Bank 2 Sensor 2	ECM	<u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 6.0L engine or <u>DTC P0153, P0154, P0160, P1153, P2A03, or P2A04</u> for the 7.0L engine
U0001	High Speed CAN Communication Bus	ECM	<u>DTC U0001</u>
U0073	Controller Area Network (CAN) Bus Communication	BCM, EBCM, ECM, ESC, TCM, VCIM	<u>DTC U0073 or U2100</u>
U0101	Lost Communications with Transmission Control Module (TCM)	ECM	<u>DTC U0100-U0299</u>
U0104	Lost Communications With Powertrain Control (ACC) System	ECM	<u>DTC U0100-U0299</u>
U0121	Lost Communications with Electronic Brake Control	ECM	<u>DTC U0100-U0299</u>

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	Module (EBCM)		
U0140	Lost Communication With Body Control Module (BCM)	ECM	<u>DTC U0100-U0299</u>
U1000	Class 2 Data Link	BCM, DDM, DDS, DPM, DRR, FTC, HUD, IPC, PDM, Radio, RCDLR, SCLCM, SDM, VCIM	<u>DTC U1000 and U1255</u>
U1064	Lost Communications with Body Control Module (BCM)	DDM, DDS, DPM, DRR, FTC, HVAC, HUD, IPC, PDM, Radio, RCDLR, SDM, VCIM	<u>DTC U1001-U1254</u>
U1088	Lost Communication with Sensing and Diagnostic Module (SDM)	BCM, IPC	<u>DTC U1001-U1254</u>
U1096	Lost Communication with Instrument Panel Cluster (IPC)	BCM, DDM, HUD, HVAC, PDM, Radio, SDM	<u>DTC U1001-U1254</u>
U1098	Lost Communications with Head Up Display (HUD)	BCM, IPC	<u>DTC U1001-U1254</u>
U1128	Lost Communications with Radio	DRR, IPC, HUD	<u>DTC U1001-U1254</u>
U1137	Lost Communications with Digital Radio Receiver (DRR)	Radio	<u>DTC U1001-U1254</u>
U1151	Lost Communications with Communication Interface Module (OnStar®)	IPC	<u>DTC U1001-U1254</u>
U1153	Lost Communication with HVAC Control Module	BCM, DDM, IPC, HUD, PDM, Radio	<u>DTC U1001-U1254</u>

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U1160	Lost Communications with Driver Door Module (DDM)	IPC	<u>DTC U1001-U1254</u>
U1161	Lost Communications with Passenger Door Module (PDM)	IPC	<u>DTC U1001-U1254</u>
U1164	Lost Communications with Driver Door Switch (DDS)	DDM, DPM, DRR, IPC, PDM, Radio, RCDLR	<u>DTC U1001-U1254</u>
U1166	Lost Communication with Driver Position Module (DPM)	IPC	<u>DTC U1001-U1254</u>
U1177	Lost Communications with Folding Top Controller (FTC)	DDM, HVAC, IPC, PDM	<u>DTC U1001-U1254</u>
U1193	Lost Communications with Remote Control Door Lock Receiver (RCDLR)	BCM, DDM, DDS, DPM, DRR, FTC, HVAC, HUD, IPC, PDM, Radio, SDM, VCIM	<u>DTC U1001-U1254</u>
U1194	Lost Communications with Steering Column Lock Control Module (SCLCM)	BCM, IPC	<u>DTC U1001-U1254</u>
U1255	Class 2 Data Link	HVAC	<u>DTC U1000 and U1255</u>
U1300	Class 2 Data Link Low	DDM, DDS, DRR, HVAC, IPC, PDM, Radio, SDM, VCIM	<u>DTC U1300, U1301, or U1305</u>
U1301	Class 2 Data Link High	DDM, DDS, DRR, HVAC, IPC, PDM, Radio, SDM, VCIM	<u>DTC U1300, U1301, or U1305</u>
U1305	Class 2 Data Link Low or High	BCM, DPM, FTC, HUD,	<u>DTC U1300, U1301, or U1305</u>

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		SCLCM	
U1500	Inter-device Dedicated Bus 1	VCIM	<u>DTC U1500</u>
U2100	Controller Area Network (CAN) Bus Communication	ESC, BCM, EBCM, TCM	<u>DTC U0073 or U2100</u>
U2105	Lost Communication with Engine Control Module (ECM)	BCM, EBCM, ESC, TCM	<u>DTC U2105-U2199</u>
U2106	Lost Communication With Transmission Control Module (TCM)	BCM, EBCM	<u>DTC U2105-U2199</u>
U2107	Lost Communication With Body Control Module (BCM)	EBCM, ESC, TCM	<u>DTC U2105-U2199</u>
U2108	Lost Communication With Electronic Brake Control Module (EBCM)	BCM, ESC, TCM	<u>DTC U2105-U2199</u>
U2112	Lost Communications With Electronic Suspension Control Module (ESC)	EBCM	<u>DTC U2105-U2199</u>
U2153	Navigation Electronic Control Unit (ECU) - VICS Communication Circuit	Navigation Radio	<u>DTC U2153</u>
023	Seat Belt Tension Sensor Circuit Out of Range	PPS	<u>DTC 023</u>
024	PPS Ignition 1 Voltage Performance	PPS	<u>DTC 024</u>
063	PPS Out of Calibration	PPS	<u>DTC 063</u>
064	PPS Communication/ID Performance	PPS	<u>DTC 064</u>
065	PPS Sensor Circuit Out of Range	PPS	<u>DTC 065</u>

SYMPTOMS - VEHICLE

General Information

Symptoms - Vibration Diagnosis and Correction

Body Systems

- **Symptoms - Fixed and Moveable Windows**
- **Symptoms - Horns**
- **Symptoms - Lighting**
- **Symptoms - Mirrors**
- **Symptoms - Vehicle Access**
- **Symptoms - Wiper/Washer Systems**

Brakes

- **Symptoms - Antilock Brake System**
- **Symptoms - Hydraulic Brakes**
- **Symptoms - Park Brake**

Driveline/Axle

- **Symptoms - Propeller Shaft**
- **Symptoms - Rear Drive Axle**
- **Symptoms - Wheel Drive Shafts**

Driver Information and Entertainment

- **Symptoms - Cellular Communication**
- **Symptoms - Entertainment**
- **Symptoms - Navigation Systems**
- **OnStar Symptom Diagnosis**
- **Symptoms - Displays and Gages**
- **Symptoms - Secondary and Configurable Customer Controls**

Engine

- **Symptoms - Cruise Control**
- **Symptoms - Engine Controls** for the 6.0L engine
- **Symptoms - Engine Controls** for the 7.0L engine
- **Symptoms - Engine Cooling**
- **Symptoms - Engine Electrical**
- **Symptoms - Engine Exhaust**

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- **Symptoms - Engine Mechanical** for the 6.0L engine
- **Symptoms - Engine Mechanical** for the 7.0L engine

HVAC

Symptoms - HVAC Systems - Automatic

Power and Signal Distribution

Symptoms - Computer/Integrating Systems

Roof

- **Symptoms - Roof** for the Folding Top
- **Symptoms - Fixed And Moveable Windows** for the Sunroof

Safety and Security

- **Symptoms - Remote Functions**
- **Symptoms - Seat Belts**
- **Symptoms - SIR**
- **Symptoms - Theft Deterrent**

Seats

- **Symptoms - Power Seats**
- **Symptoms - Seat Heating and Cooling**

Steering

Symptoms - Power Steering System

Suspension

- **Symptoms - Electronic Suspension Control**
- **Symptoms - Suspension General Diagnosis**

Transmission/Transaxle

- **Symptoms - Automatic Transmission**
- **Symptoms - Clutch**

- **Symptoms - Manual Transmission**
- **Symptoms - Automatic Transmission Shift Lock Control**

DIAGNOSTIC REPAIR VERIFICATION

1. Install any components or connectors that have been removed or replaced during diagnosis.
2. Perform any adjustment, programming or setup procedures that are required when a component or module is removed or replaced.
3. Clear the DTCs.
4. Turn OFF the ignition for 60 seconds.
5. If the repair was related to a DTC, duplicate the Conditions for Running the DTC and use the Freeze Frame/Failure Records, if applicable, in order to verify the DTC does not reset. If the DTC resets or another DTC is present, refer to the **Diagnostic Trouble Code (DTC) List - Vehicle** and perform the appropriate diagnostic procedure.

Or

If the repair was symptom related, duplicate the conditions under which the customer concern occurred to verify the repair. If the customer concern reoccurs, return to **Symptoms - Vehicle** and perform the appropriate symptom diagnostic.

DESCRIPTION AND OPERATION

DTC SYMPTOM DESCRIPTION

A DTC symptom is a 2-digit number which adds additional detail to a DTC. The DTC symptom provides additional information without requiring a large increase in the number of new DTCs.

DTC Symptom Categories

The DTC symptom is made up of 2 alphanumeric digits. The first digit following the DTC indicates the DTC symptom category. There are 16 possible categories available in the range of 0 through the letter F. Currently there are 8 categories in use, 0 through 7. These 8 categories together with their definitions are given below.

DTC Symptom Description

Category Number	Category Name	Category Description
		This category includes standard wiring failure

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0	General Electrical Failures	modes, direct current quantities related by Ohm's Law and quantities related to amplitude, frequency or rate of change, and wave shape.
1	Additional General Electrical Failures	This category includes the overflow from the previous category.
2	FM/PWM (Frequency/Pulse Width Modulated) Failures	This category includes faults related to frequency modulated and pulse width modulated inputs and outputs of the electronic control module (ECU). This category also includes faults where position is determined by counts.
3	ECU Internal Failures	This category includes faults related to memory, software, and internal electrical circuitry; requiring ECU replacement.
4	ECU Programming Failures	This category includes faults related to operational software, calibrations, and options, remedied by programming the ECU.
5	Algorithm Based Failures	This category includes faults based on comparing two or more input parameters for plausibility or comparing a single parameter to itself with respect to time.
6	Mechanical Failures	This category includes faults detected by inappropriate motion in response to an ECU controlled output.
7	Bus Signal/Message Failures	This category includes faults related to bus hardware and signal integrity. This category is also used when the physical input for a signal is located in one ECU and another ECU diagnoses the circuit.
8-F	Reserved by Document	Not in use at this time.

DTC Symptom Subtypes

The second digit of the DTC symptom is the subtype of the DTC symptom. These subtypes and their categories, together with their definitions, are given in the following table. DTC symptom 00 is a special case. If 00 is displayed, only the base code number and its description apply. Information regarding the fault will be provided in the code setting criteria.

Example

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The DTC symptoms associated with each DTC provide more information about the fault that caused that DTC. An example of a DTC displayed can be B1451 05 where the B1451 is the DTC, and 05 after the space represents the DTC symptom. While the DTC indicates that the fault is in the accessory power circuit, this DTC symptom indicates the circuit is shorted to battery or open. Another possible symptom for this code is B1451 02, where B1451 indicates the accessory power circuit, and 02 indicates the circuit is shorted to ground.

DTC Symptom Description

DTC Symptom	DTC Symptom Description
00	No Additional Information
01	Short to Battery
02	Short to Ground
03	Voltage Below Threshold
04	Open Circuit
05	Short to Battery or Open
06	Short to Ground or Open
07	Voltage Above Threshold
08	Signal Invalid
09	Rate of Change Above Threshold
0A	Rate of Change Below Threshold
0B	Current Above Threshold
0C	Current Below Threshold
0D	Resistance Above Threshold
0E	Resistance Below Threshold
0F	Erratic
10	Reserved
11	Above Maximum Threshold
12	Below Minimum Threshold
13	Voltage Low/High Temperature
14	Voltage High/Low Temperature
15	Signal Rising Time Failure
16	Signal Falling Time Failure
17	Signal Shape/Waveform Failure
18	Signal Amplitude Less Than Minimum
19	Signal Amplitude Greater Than Maximum
1A	Bias Level Out of Range

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1F	Intermittent
21	Incorrect Period
22	Low Time Less Than Minimum
23	Low Time Greater Than Maximum
24	High Time Less Than Minimum
25	High Time Greater Than Maximum
26	Frequency Too Low
27	Frequency Too High
28	Incorrect Frequency
29	Too Few Pulses
2A	Too Many Pulses
2B	Missing Reference
2C	Reference Compare Error
31	General Checksum Failure
32	General Memory Failure
33	Special Memory Failure
34	RAM Failure
35	ROM Failure
36	EEPROM Failure
37	Watchdog/Safety Processor Failure
38	Supervision Software Failure
39	Internal Electronic Failure
41	Operational Software/Calibration Data Set Not Programmed
42	Calibration Data Set Not Programmed
43	EEPROM Error
44	Security Access Not Activated
45	Variant Not Programmed
46	Vehicle Configuration Not Programmed
47	VIN Not Programmed
48	Theft/Security Data Not Programmed
49	RAM Error
4A	Checksum Error
4B	Calibration Not Learned
51	Calculation Failure
52	Compare Failure

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	Temperature Low
54	Temperature High
55	Expected Number of Transitions/Events Not Reached
56	Allowable Number of Transitions/Events Exceeded
57	Expected Reaction After Event Did Not Occur
58	Incorrect Reaction After Event
59	Circuit/Component Protection Time-Out
61	Actuator Stuck
62	Actuator Stuck Open
63	Actuator Stuck Closed
64	Actuator Slipping
65	Emergency Position Not Reachable
71	Invalid Serial Data Received (Signal Validity Bit Indicates Failure)
72	Alive Counter Incorrect/Not Updated
73	Parity Error
74	Value of Signal Protection Calculation Incorrect
75	Signal Above Allowable Range
76	Signal Below Allowable Range
7F	Erratic