GENERAL INFORMATION

Vehicle Diagnostic Information - Diagnostic Information and Procedures - Escalade, Suburban, Tahoe, Yukon

DIAGNOSTIC INFORMATION AND PROCEDURES

STRATEGY BASED DIAGNOSIS

The goal of Strategy Based Diagnosis 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 Diagnosis steps are numbered, you are not required to complete every step in order to successfully diagnose a customer concern. The first step of your diagnostic process should always be Understand and Verify the Customer's Concern. The final step of your diagnostic process should be to Repair and verify the Fix. Refer to the steps listed below for the correct Strategy Based Diagnosis.

NOTE: **For additional information on the following steps refer to the corresponding numbered paragraphs listed below.**

1. Understand and verify the customers concern.
2. Verify the vehicle is not operating as designed:
   - **If the vehicle is operating as designed review the suggestions listed below:**
   - Check Identical Vehicle
   - Customer Misunderstanding of System - Explain operation to customer or refer to owners or service manual
   - Customer dissatisfaction - Submit a Field Product Report
   - **If the vehicle is not operating as designed**
3. Perform preliminary checks - Visual inspections and operational
   - **If the customers concern is found, refer to step 7**
   - **If the customers concern is not found**
4. Perform the Diagnostic System Check - Vehicle, determine the diagnostic service category to perform.
   - **If the customers concern is found, refer to step 7**
   - **If the customers concern is not found**
5. Check for related Bulletins, Recalls and Preliminary Information.
   - **If the customers concern is found, refer to step 7**
   - **If the customers concern is not found**

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6. Follow the diagnostic path listed below:
    1. Current DTC - Follow DTC Diagnostics
    2. Symptom no DTC - Follow Symptom Diagnostics
    3. No published diagnostic - Analyze and develop diagnostics or call Technical Assistance
    4. Intermittent/History DTC - See diagnostic detail below
7. Isolate the root cause then repair and verify the fix.
8. Re-examine the concern.
    - **If the vehicle is not repaired, refer to step 1**
    - **If the vehicle is repaired**
9. All OK.

Additional Information

1. Understand and Verify the Customer's 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. Vehicle Operating as Designed: This condition exists when the vehicle is found to operate normally. The condition described by the customer may 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 the system to the customer. If the customer is dissatisfied submit a Field Product Report.
3. 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.
4. Perform Published Diagnostic System Check - Vehicle: The **Diagnostic System Check - Vehicle** verifies the proper operation of the system. This will lead the technician in an organized approach to diagnostics and identify what category of diagnostic to perform.
5. Check for related Bulletins, Recalls and Preliminary Information (PI).
6. Diagnostic categories:
    1. Current DTC: Follow the designated DTC diagnostic in order to make an effective repair. Refer to **Diagnostic Trouble Code (DTC) List - Vehicle**.
    2. Symptom - No DTC: Select the appropriate symptom diagnostic. Follow the diagnostic steps or suggestions in order to complete the repair. Refer to **Symptoms - Vehicle**.
    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.

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Look at component locations to see if components, connectors or harnesses may be exposed to extreme temperature, moisture, or corrosives (road salt, battery acid, oil or other fluids). Utilize the wiring diagrams, system description and operation, and system circuit description.

4. Intermittent/History DTC: An intermittent condition is one that does not occur continuously, may be difficult to duplicate, and will only occur when certain conditions are met. Generally, an intermittent is caused by faulty electrical connections and wiring, malfunctioning components, electromagnetic/radio frequency interference, driving conditions, or aftermarket equipment. The following approaches/tools may prove to be beneficial in locating and repairing an intermittent condition or history DTC.
   - Combining technicians knowledge with the available service information.
   - Evaluate the symptoms and conditions described by the customer.

     North America - The GM Customer Concern Verification Sheets have been designed to improve communications between the service customer and the technician. The more clearly the technician understands the concern and its symptoms, the more likely the concern will be fixed right the first time. The blank CCVS can be found in GM Global Connect under Service, Service Forms.

   - Follow the suggestions on **Testing for Intermittent Conditions and Poor Connections** .
   - Use a tool with data capturing capabilities like scan tool, digital multi-meter, or (if available) a vehicle data recorder.

7. Isolate the Root Cause then Repair and Verify Fix: After isolating the root cause, make the repairs and validate for the correct operation by performing the **Diagnostic Repair Verification**. Verifying that the DTC or symptom has been corrected may involve road testing the vehicle.
8. 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.

DIAGNOSTIC PROCEDURE INSTRUCTIONS

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

DTC Descriptor

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Lists all DTCs and descriptors that are diagnosed within the procedure.

If the DTC supports symptom bytes they will either be listed with the DTC or there will be a link to the symptom byte list.

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 DTCs and symptoms apply for the subsystem being diagnosed.

All DTCs and symptoms shown in this table are not necessarily diagnosed during this procedure.

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

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	P0117	P0118, P0119	P0118*, P0119	P0128, P111E
Low Reference	-	P0118, P0119	-	P0128
* Internal control module or component damage may occur if the circuit shorts to B+.				

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

Circuit	Short to Ground	Open	Short to Voltage
Operating Conditions: Engine = Idling - At normal operating temperature. **Parameter Normal Range:** 88 to 105Â°C (190 to 221Â°F)			
Signal	140Â°C (248Â°F)	-40Â°C (-40Â°F)	-40Â°C (-40Â°F)
Low Reference	-	-40Â°C (-40Â°F)	-

Circuit/System Description

Circuit/System Description identifies circuits, components, and describes how the circuit/system normally functions.

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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 conditions that must be present in order to fail the diagnostic and when to set the DTC.

Actions 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 to assist the technician in finding and repairing a vehicle condition.

Reference Information

Reference Information includes links providing additional information to be used with the diagnostic procedure.

For example:

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

Circuit/System Verification

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The Circuit/System Verification, when supported, needs to be performed prior to the Circuit/System Testing. It will determine the following conditions:

- If a higher priority concern needs to be addressed first (E.g. other DTCs)
- If other conditions are present (E.g. low fluid level)
- If the condition is current
- If the condition is intermittent
- If the system is all Ok

NOTE: **Any diagnostic step that asks if a DTC is "set" refers to a Set, Current, Present, Active DTC status. This does not include any other DTC status. For example History, Not Run, Passed and Failed.**

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. The verification is used to assist the technician in determining whether a condition is current, intermittent, or not present (All Ok). When a condition is determined to be intermittent a technician can use the **Testing for Intermittent Conditions and Poor Connections** link in Electrical Information Reference for additional testing information.

The technician should be able to identify if the fault is occurring on the input (signal) circuit or on the output (control) circuit when applicable.

Component Codes

The component codes are a language independent method of identifying a common component between different areas in the service information. The component codes work regardless on how the actual component name was translated.

The component codes used on the schematics will have the base code with an extension to identify location or quantity. For example the ABS wheel speed sensors are identified on the schematic with a base code (B5) and a location extension (LF, RF, LR, and RR) as seen below:

- B5LF Wheel Speed Sensor - Left Front
- B5RF Wheel Speed Sensor - Right Front
- B5LR Wheel Speed Sensor - Left Rear
- B5LR Wheel Speed Sensor - Left Rear

The diagnostic procedures will use the base code (B5) for a wheel speed sensor but may or may not use the extension identifying location (LF, RF, LR, and RR).

Example:

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Disconnect the harness connector at the appropriate B5 Wheel Speed Sensor.

Or

Disconnect the appropriate electrical connector: B5 Wheel Speed Sensor

This is done so the diagnostic procedure can be common for all four wheel speed sensors and not have to take into account part location or quantity.

When the diagnostic states "the appropriate" it is up to the technician to identify which component is being diagnosed either by the symptom (Driver's door lock is inoperative) or the DTC descriptor (DTC C0585 04: Left Rear Door Latch Circuit Open).

Circuit/System Testing

NOTE: **Performing the Circuit/System Verification category first will aid in determining if a vehicle condition currently exists.**

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 numbered test step is NOT achieved, the Right Repair Arrow below the failed test will identify what actions need to take place. If the result of a numbered test step is achieved, the normal flow is to proceed to the next numbered test step, as indicated by the Down Pass Arrow.

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

When testing for individual circuit faults, the technician is expected to perform terminal inspections such as connection surfaces and terminal tension at both the harness and the component or control module. When a condition is determined to be intermittent a technician can use the **Testing for Intermittent Conditions and Poor Connections** , or **Circuit Testing** link in Electrical Information Reference for additional information.

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

Component Testing

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

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

Repair Instructions

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

All links to repair, replacement, or programming 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 the Diagnostic Repair Verification.

DIAGNOSTIC SYSTEM CHECK INSTRUCTIONS

The following is an overview of instructions for the general information and 13 step System Verification included in the Diagnostic System Check - Vehicle procedure.

Diagnostic Instructions

A link to **Strategy Based Diagnosis** is provided as an overview on how a technician should diagnose a vehicle.

A link to the Diagnostic System Check Instructions is provided. This provides an overview of instructions and examples for the general information and 13 step System Verification included in the Diagnostic System Check - Vehicle procedure. The examples in this document are intended to give the technician a general idea of what the test step is referring to. They are not intended to list every possible condition or situation.

Diagnostic Systems Check steps are listed by priority to guide the technician to the appropriate diagnostic procedure to correct the customer concern. There are many ways to determine the priority of diagnosing a vehicle concern. Some faults can cause customer perceived symptoms in areas unrelated to the fault. Using an example from the System Check, after reading DTCs, the technician is asked to verify there are no Electronic Control Unit Internal Performance Faults present. It is important that any internal performance issues are addressed prior to continuing through the System Check. There is no benefit addressing other DTCs that could be set due to an internal fault to a control module. If the fault is present, performing the diagnostic procedure for that fault will likely correct the customer perceived concern and possibly eliminate other DTCs that may be set.

Not all steps of the Diagnostic System Check have to be performed. The Diagnostic System Check tries to prioritize the test steps with the highest priority faults first. The technician is then lead to another document to do the actual diagnosis or repair. The strategy is to repair higher level faults that may be the cause of other system or component level symptoms. Additionally, the Diagnostic System Check can only be used for a single fault at a time. If additional faults are present, the technician must perform the diagnostic system check for each concern until all customer concerns are

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corrected.

Once a repair has been completed, General Motors diagnostic strategy is to always have the technician verify that the customer concern has been corrected. This is to prevent comebacks and to ensure customer satisfaction with their dealership experience. Therefore a link has been provided to **Diagnostic Repair Verification** procedure for the technician to verify the customer concern has been corrected.

There are some assumptions made when General Motors prepares service information. They include the following areas which are presumed to function as designed:

- The 12-volt battery is fully charged. General Motors assumes the majority of vehicles brought in for repair will be able to start and be driven into the service stall. If the vehicle has a dead battery, it is slow cranking or for any other reason the technician feels the customer concern may be battery related, a link is provided to **Battery Inspection/Test** . This procedure will guide the technician through inspecting and verifying the battery functions properly.
- Fuses should not be open. General Motors does not call out in diagnostic procedures to verify a fuse. The technician is expected to find an open fuse when the diagnostic test step states to check for an open circuit condition. Therefore a link has been provided to **Power Distribution Schematics** , and **Electrical Center Identification Views** **Electrical Center Identification Views** for technicians to reference power sources and fuse locations if they feel there may be loss of power due to an open fuse condition.
- Ground circuits are clean, tight, and in the correct location. General Motors assumes that the original ground circuits have not been compromised. The technician is expected to find a poor ground connection when the diagnostic test step states to test the ground circuit for an open/high resistance. Therefore a link has been provided to **Ground Distribution Schematics** , and **Harness Routing Views** for technicians to reference ground locations and which ground circuits may be related to the customer concern.
- All connectors/terminals fully seated in the area of concern. General Motors assumes that all connections are properly installed. The technician is expected to find an open or poor connection when the diagnostic test step asks to test the circuit for an open/high resistance. Therefore a link has been provided to **COMPONENT CONNECTOR END VIEWS - INDEX** for technicians to reference which connections may be related to the customer concern.
- There are no aftermarket devices that affect the operation of the system. General Motors can only author diagnostic and repair information for vehicle systems and components that are original equipment or genuine GM Accessories. Aftermarket equipment can negatively affect original equipment operation and lead a technician's diagnosis of a concern in the wrong direction. Therefore a link has been provided to **Checking Aftermarket Accessories** that guides a technician through the possible causes of vehicle problems related to aftermarket accessories.
- The scan tool powers up. General Motors assumes that power is available at the Data Link Connector and the scan tool will power on. Therefore a link has been provided to **Scan Tool Does Not Power Up** if the technician finds that the scan tool does not power on.

Diagnostic System Check

1. VERIFY CUSTOMER CONCERN - This step is to obtain as much information as possible from the customer. Are there aftermarket

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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? Review the service history of the vehicle for previous repairs that could help diagnose the current concern.

Now that the technician understands the customer concern, they should validate the concern on the vehicle. 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. Inspect the visible system components for obvious damage or conditions that could cause the concern. Conduct a thorough visual inspection. Detect unusual sounds or odors.

The condition described by the customer may be normal. If the technician finds the vehicle to operate normally, compare with another like vehicle that is operating normally, under the same conditions described by the customer. If this is the case, explain your findings and the operation of the system to the customer. If the customer is dissatisfied, submit a Field Product Report.

2. BULLETIN SEARCH - By searching for related bulletins, recall/field actions and preliminary information documents, a procedure for a known field issue may resolve the customer concern with little or no diagnosis necessary saving the technician diagnostic time.
3. MECHANICAL CONCERNS - This step is designed to take the technician directly to a list of symptom diagnostic procedures. The technician is asked to verify the symptoms exhibited by the system are mechanical in nature and not related to an electrical system, see some examples below. If the technician feels the concern could be related to an electrical system, they should continue through the Diagnostic System Check to verify the electrical functionality of vehicle. If the technician feels the concern is exclusively related to a mechanical system, a link to **Symptoms - Vehicle** is provided to select the appropriate symptom diagnostic procedure for the customer concern.

   Examples:

   - Brake noise or diagnosing irregular pad wear
   - Water leak diagnosis
   - Engine or transmission fluid leak diagnosis
   - Manual window or door lock diagnosis
   - Vehicle vibration diagnosis
   - Exhaust noise or leak diagnosis
4. VEHICLE POWER UP VERIFICATION - The technician is asked in this step to turn the ignition key ON and verify that the vehicle powers up. The technician should look for clues that multiple vehicle systems are receiving vehicle power mode messages, such as the cluster waking up, the radio powers on, the HVAC blower is operational, windshield wipers turn on, etc, with the key ON. This would be a rare condition as both the power mode master and back-up power mode master would have to be inoperable, however, if the vehicle does not power up, a link to **Power Mode Mismatch (With BTM)** **Power Mode Mismatch (Without BTM)** is provided.
5. CONTROL MODULE COMMUNICATION and DTC CHECK - The technician is asked in this step to record the following three pieces of data on the Repair Order; any control module that the scan tool determined is not communicating, any DTC and symptom byte set current or

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history, and the control module that has set the DTC.

This is considered a setup step for the rest of the Diagnostic System Check. The technician is not expected to do anything other than record the three pieces of data provided by the scan tool on the Repair Order. This provides the information needed to complete the rest of the diagnostic system check.

To complete this step, the technician is asked to utilize the scan tool Vehicle DTC Information function. This function will query every possible control module on the vehicle requesting all DTCs. During the DTC query, the scan tool will try to establish communication with each control module. If the scan tool can communicate with the control module during the DTC request, it will display PRESENT and provide the number of DTCs set in the control module. If the scan tool cannot communicate with a control module, it will only display NOT COMMUNICATING. Since the scan tool cannot determine if a given control module should be present or not, the technician is asked in a future step to verify that the vehicle was not built with control modules listed as NOT COMMUNICATING.

If the scan tool cannot establish communications with ALL of the vehicles control modules, a link to **Data Link References** is provided. A faulty control module or fault with the serial data circuit can cause no communication with all of the control modules on the vehicle. If any control module communicates on the serial data circuit, continue through the Diagnostic System check, as a future step will address any specific non communicating or group of non communicating control modules.

Once the scan tool has completed the routine, the technician should review each control module that has set a DTC and document them on the Repair Order. When reviewing the DTCs, the technician should take notice if any DTCs are powertrain related, and if so, navigate in the scan tool to the Powertrain area and utilize the Capture Info function. This will upload any Freeze Frame/Failure Records stored in the control module to the scan tool in case the data is lost from the control module. As an example, if the technician commands a Clear DTCs function on a powertrain controller, all diagnostic information stored in the controller is erased. This includes Freeze Frame/Failure Records and Inspection/Maintenance System Status indicators, if required for your region.

6. CONTROL MODULE INTERNAL PERFORMANCE FAULTS - The technician is asked to review the DTCs recorded in step 5 and verify there are no control module internal performance faults set current. This type of fault may be the cause of other symptoms or DTCs displayed by the vehicle. By addressing this fault first, the technician may find the other concerns are resolved. The technician should always follow the diagnostic procedure for these types of faults prior to replacing any control module. If the technician finds a control module has an internal performance fault, a link is provided to **Diagnostic Trouble Code (DTC) List - Vehicle** to select the appropriate DTC diagnostic procedure.

   Examples:

   - B1000 Electronic Control Unit Performance
   - B101D ECU Hardware Performance
   - C0550 Electronic Control Unit Performance

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- C056D ECU Hardware Performance
- C0570 Auxiliary Electronic Control Unit Performance
- P0606 Control Module Internal Performance
- P0607 Control Module Performance

7. CONTROL MODULE COMMUNICATION VERIFICATION - This step is used to ensure the control modules that are NOT COMMUNICATING were not built on the vehicle. To understand if the vehicle was built with that option, we provide a link to the **Data Link References** , document where Regular Production Options (RPOs) are listed next to the names of optional ECU's and can be compared to those the vehicle was built with. If the technician determines that a control that is NOT COMMUNICATING should be present, the technician is asked to follow the appropriate diagnostic procedure listed in the **Data Link References** document.
8. COMMUNICATION and POWER MODE FAULTS - This step is asking the technician to look for communication DTCs or DTCs related to control modules powering up based on power mode, communication enable or wake-up circuits. See in the below table some examples of the DTCs the technician should diagnose prior to continuing through the Diagnostic System Check. The technician should review the list of DTCs recorded in step 4 and verify that none of these type of DTCs are present. If so, the technician is referred to the **Diagnostic Trouble Code (DTC) List - Vehicle** to select the appropriate DTC diagnostic procedure.

   Examples:

   - U0140 Lost Communication With Body Control Module
   - U0164 Lost Communication With HVAC Control Module
   - U0170 Lost Communication With Passenger Presence Detection Module
   - U0402 Invalid Data Received From Transmission Control Module
   - U0452 Invalid Data Received From Inflatable Restraint Sensing and Diagnostic Module
   - U1814 Powertrain High Speed Communication Enable Circuit
   - B1428 Ignition Switched Power Run/Crank Relay Circuit
   - B137B Accessory Power Module Wake Up Circuit
   - C0897 Control Module Power Moding
   - P2536 Ignition Accessory Switch Circuit
9. POWER MODE VERIFICATION - This step verifies the Power Mode Master is receiving the proper output state of the ignition switch. The technician should use the main power mode input, this being either the ignition key or, on vehicles equipped with Passive Entry Passive Start, the push button switch. The test should not be performed using a key fob, if the MIL is illuminated the powertrain controller may disable this input. The technician is asked to perform the test with the driver door open. This ensures the retained accessory power mode is inactive during this test which could result in different scan tool readings. The technician is only asked to verify the current Power Mode parameter in the

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power mode data display list. If the parameter does not match the actual ignition switch position, a link is provided to perform the **Power Mode Mismatch (With BTM)** **Power Mode Mismatch (Without BTM)** diagnostic procedure.

10. ENGINE CRANK and RUN VERIFICATION - Here the technician is asked to verify that the engine cranks and runs. The technician should use the main power mode input, this being either the ignition key or, on vehicles equipped with Passive Entry Passive Start, the push button switch, to complete this step. The test should not be performed using a key fob, if the MIL is illuminated the powertrain controller may disable this input. The technician should know at this point whether the engine cranks and runs without having to actually performing this test step. One of the follow has probably already occurred and this step can be skipped: The technician drove the vehicle into the stall or verified when checking the Crank and Run parameter in step 8. If the technician has not already somehow verified the engine cranks in previous steps, the technician should perform this test step. Regardless of how this step was performed, if the engine does not crank, a link is provided to **Engine Does Not Crank**, or if the engine cranks but does not run, a link is provided to **Engine Cranks But Does Not Run** for the technician to choose the correct diagnostic procedure for the actual engine application being used.
11. REMAINING DTC REVIEW - Here the technician is asked to review any remaining DTCs that were not addressed in previous steps. The technician is asked first to verify there are no control module supply voltage, system voltage or 5V circuit DTCs present. Control modules, systems or components with insufficient or zero voltage can cause one or multiple symptoms to exist on the vehicle. Control module voltage issues could also be the cause of failures during a programming event. The technician should correct voltage issues prior to addressing any programming or configuration DTCs. The technician should then check for any ECU programming, setup or configuration DTCs. By programming software or configuring a control module, the technician could correct the customer concern unobtrusively. The remaining DTCs, which are usually specific system or component faults, are diagnosed last. They can include ECU input and output circuit DTCs or individual circuit faults that usually cause single symptoms or failure modes on the vehicle and can be fixed following the proper DTC diagnostic procedure. In general, the technician should think about what DTCs or faults could be caused by another DTC or fault. A failed sensor may set a component DTC and then the system may set a DTC indicating the system cannot operate properly. By correcting the sensor fault, the system may now operate properly and the system level DTC will transition to history. Refer to the examples within each category below to understand the differences between these DTCs. If DTCs of these type are current, the technician is referred to **Diagnostic Trouble Code (DTC) List - Vehicle** to choose the correct DTC diagnostic procedure.
    1. Voltage DTCs
        - B1325 Device Power 1 Circuit
        - C0875 Device Voltage Reference Input 2 Circuit
        - C1001 Adaptive Cruise Control Indicators Supply Voltage Circuit
        - P0641 5-Volt Reference Circuit
        - P0787 Downshift Timing Solenoid Control Circuit Low Voltage
    2. Programming, Setup, Configuration or Software Performance DTCs
        - B3943 Steering Column Lock has Not Learned Column Integration Module
        - B101E ECU Software Performance

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- B1019 System Configuration Error
- C0558 Calibration Data Not Programmed
- P0630 VIN Not Programmed or Mismatched - Powertrain Control Module (PCM)

3. Component related DTCs
    - B0013 Driver Frontal Deployment Loop Stage 2
    - B0163 Passenger Compartment Temp Sensor Circuit
    - C0045 Left Rear Wheel Speed Sensor Circuit
    - P0565 Cruise Control Switch Circuit
    - P0751 1-2 Shift Solenoid (SS) Valve Performance
4. System related DTCs
    - B1010 System Sensors Data Mismatch
    - C0176 System Thermal Error
    - C0561 System Disabled Information Stored
    - P1564 Vehicle Acceleration Too High - Cruise Control Disabled
    - P1625 Transmission Control Module (TCM) System Reset
5. Any other remaining DTCs - The technician should diagnose and correct any other DTCs that are left that were not from the categories above.

12. EMISSION RELATED INSPECTION/MAINTENANCE TESTING CONCERNS - Several regions require that a vehicle pass on-board diagnostic system tests and the inspection/maintenance emission tests in order to renew license plates or vehicle registration. This is accomplished by viewing the Inspection/Maintenance System Status display on a scan tool. Using a scan tool, the technician can observe the Inspection/Maintenance System Status in order to verify that the vehicle meets the criteria that comply with the local area requirements. If inspection and maintenance checks are required in your region, and the customer concern is related to not passing an Inspection/Maintenance test, a link is provided to **Inspection/Maintenance System Check** where the technician can choose the appropriate Inspection/Maintenance System Check for the actual engine application being used.
13. SYMPTOM DIAGNOSIS - At this step, the diagnostics are assuming that the only information the technician has available to diagnose the customer concern are symptoms of a problem. There are no DTCs set current or history. There may be a Driver Information Center display message or a system indicator to aid in identifying the root cause. The technician should evaluate the symptoms and conditions described by the customer and perform the symptoms diagnostics for the area of customer concern. A link is provided to **Symptoms - Vehicle** which contains a list of all symptoms related to this service manual publication.

DIAGNOSTIC STARTING POINT - VEHICLE

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Begin the system diagnosis with **Diagnostic System Check - Vehicle**. The Diagnostic System Check - Vehicle will provide a complete strategy to locate and repair a mechanical or electrical vehicle fault. Not following this strategy may cause additional diagnostic time and/or misdiagnosis.

The Diagnostic System Check - Vehicle will provide the following strategy:

- When to verify the customer concern and identify related bulletins, recalls and preliminary information
- When to identify a control module that is not communicating, a control module that has set a DTC, and the DTC diagnostic priority
- When to address power mode concerns
- When to verify the engine cranks and runs
- When to diagnose symptom related concerns

DIAGNOSTIC SYSTEM CHECK - VEHICLE

Diagnostic Instructions

- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- Refer to **Diagnostic System Check Instructions** to provide an overview of each diagnostic step.
- Continue through the Diagnostic System Check until you are directed to follow a particular diagnostic or repair procedure. Once a repair has been completed, perform the **Diagnostic Repair Verification** and verify the customer concern has been corrected.

The diagnostic procedures within this manual are developed on the assumption that the following areas function as designed:

- The 12 V battery is fully charged and cables are clean and tight. Refer to **Battery Inspection/Test** .
- Fuses are not open. Refer to **Power Distribution Schematics** , and **Electrical Center Identification Views** **Electrical Center Identification Views** .
- Ground circuits for the area of customer concern are clean, tight, and in the correct location. Refer to **Ground Distribution Schematics** , and **Harness Routing Views** .
- All connectors/terminals fully seated in the area of concern. Refer to **COMPONENT CONNECTOR END VIEWS - INDEX** .
- There are no aftermarket devices that affect the operation of the system. Refer to **Checking Aftermarket Accessories** .
- The scan tool powers up. Refer to **Scan Tool Does Not Power Up** .

Diagnostic System Check

1. VERIFY CUSTOMER CONCERN - Understand and validate the customer concern. Inspect the visible system components for obvious damage or conditions that may cause the concern.

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2. BULLETIN SEARCH - Check for related bulletins, recall/field actions and preliminary information.
3. MECHANICAL CONCERNS - Verify the symptom is not exclusively a mechanical concern.
   - **If the symptom is exclusively a mechanical concern**

     Refer to **Symptoms - Vehicle**.

   - **If the symptom is not a mechanical concern**

NOTE: **Do not clear any DTCs unless instructed to do so by a diagnostic procedure. If any DTC is Powertrain related, select Capture Info to store DTC and Freeze Frame/Failure Records to the scan tool.**

4. VEHICLE POWER UP VERIFICATION - Ignition ON, verify the vehicle powers up.
   - **If the vehicle does not power up**

     Refer to **Power Mode Mismatch (With BTM)** **Power Mode Mismatch (Without BTM)** .

   - **If the vehicle powers up**
5. CONTROL MODULE COMMUNICATION and DTC CHECK - Using a scan tool, perform the Vehicle DTC Information function and verify at least one control module communicates with the scan tool. Record on the Repair Order the following information:
   - Any control module that is not communicating.
   - Any DTC, including symptom byte, and the control module that has set the DTC.
   - **If the scan tool does not communicate with any control module on the vehicle**

     Refer to **Data Link References** .

   - **If the scan tool communicates with any control module**
6. CONTROL MODULE INTERNAL PERFORMANCE FAULTS - Verify there are no current control module Internal Hardware Performance DTCs set.
   - **If any DTC of this type is set**

     Refer to **Diagnostic Trouble Code (DTC) List - Vehicle**.

   - **If no DTC of this type is set**
7. CONTROL MODULE COMMUNICATION VERIFICATION - Verify the vehicle is not built with any control module listed as not communicating with the scan tool, refer to **Data Link References** .

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- **If the vehicle is built with a control module that is not communicating**

  Refer to **Data Link References** .

- **If all control modules the vehicle is built with are communicating**

8. COMMUNICATION and POWERMODE FAULTS - Verify there are no current control module Power Mode or Communication DTCs set.
   - **If any DTC of this type is set**

     Refer to **Diagnostic Trouble Code (DTC) List - Vehicle**.

   - **If no DTC of this type is set**

NOTE: **The engine may start during this test. Ensure the vehicle is out of gear and the parking brake is applied. Turn the engine OFF as soon as the crank power mode parameter has been observed.**

9. POWER MODE VERIFICATION - Driver door open, observe each scan tool Power Mode data parameter while cycling through all power modes. Verify all Power Mode data parameters match the actual ignition switch/push button switch selection.
   - **If any Power Mode data parameter does not match**

     Refer to **Power Mode Mismatch (With BTM)** **Power Mode Mismatch (Without BTM)** .

   - **If all Power Mode data parameters match**

10. ENGINE CRANK and RUN VERIFICATION - Verify that the engine cranks and runs.
    - **If the engine does not crank**

      Refer to **Engine Does Not Crank**.

    - **If the engine does not run**

      Refer to **Engine Cranks But Does Not Run**.

    - **If the engine cranks and runs**

11. REMAINING DTC REVIEW - Verify there are no other DTCs set.
    - **If other DTCs are set**

      Diagnose them in the order listed below. Refer to **Diagnostic Trouble Code (DTC) List - Vehicle**.

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1. Voltage DTCs
2. Programming, Setup, Configuration or Software Performance DTCs
3. Component related DTCs
4. System related DTCs
5. Any remaining DTCs

- **If no other DTCs are set**

12. EMISSION RELATED INSPECTION/MAINTENANCE TESTING CONCERNS-If inspection and maintenance checks are required in your region, verify the customer concern is not related to inspection/maintenance testing.
    - **If the customer concern is related to inspection/maintenance testing**

      Refer to **Inspection/Maintenance System Check**.

    - **If the customer concern is not related to inspection/maintenance testing**
13. SYMPTOM DIAGNOSIS - Diagnose any remaining customer 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

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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

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- 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.

DTC	Diagnostic Procedure
B0005	Wiring Systems and Power Management - **DTC B0005**
B0012	Supplemental Inflatable Restraints - **DTC B0012 or B0013**
B0013	Supplemental Inflatable Restraints - **DTC B0012 or B0013**
B0014	Supplemental Inflatable Restraints - **DTC B001E, B0014, B0021, B0031, or B0038**
B0015	Supplemental Inflatable Restraints - **DTC B0015, B001A, B001B, or B0022**
B0016	Supplemental Inflatable Restraints - **DTC B0016, B0018, B0023, or B0025**
B0018	Supplemental Inflatable Restraints - **DTC B0016, B0018, B0023, or B0025**
B0019	Supplemental Inflatable Restraints - **DTC B0019 or B0020**
B001A	Supplemental Inflatable Restraints - **DTC B0015, B001A, B001B, or B0022**
B001B	Supplemental Inflatable Restraints - **DTC B0015, B001A, B001B, or B0022**
B001E	Supplemental Inflatable Restraints - **DTC B001E, B0014, B0021, B0031, or B0038**
B0020	Supplemental Inflatable Restraints - **DTC B0019 or B0020**
B0021	Supplemental Inflatable Restraints - **DTC B001E, B0014, B0021, B0031, or B0038**
B0022	Supplemental Inflatable Restraints - **DTC B0015, B001A, B001B, or B0022**
B0023	Supplemental Inflatable Restraints - **DTC B0016, B0018, B0023, or B0025**
B0025	Supplemental Inflatable Restraints - **DTC B0016, B0018, B0023, or B0025**
B0031	Supplemental Inflatable Restraints - **DTC B001E, B0014, B0021, B0031, or B0038**
B0038	Supplemental Inflatable Restraints - **DTC B001E, B0014, B0021, B0031, or B0038**
B0052	Supplemental Inflatable Restraints - **DTC B0052**
B0071	Supplemental Inflatable Restraints - **DTC B0071**
B0079	Supplemental Inflatable Restraints - **DTC B0079 or B0080**
B0080	Supplemental Inflatable Restraints - **DTC B0079 or B0080**

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DTC	Diagnostic Procedure
B0081	Supplemental Inflatable Restraints - **DTC B0081 (Inflatable Restraint Sensing and Diagnostic Module)** **DTC B0081 (Passenger Presence Module)**
B0083	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B0084	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B0085	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B0086	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B0087	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B0088	Supplemental Inflatable Restraints - **DTC B0083-B0088**
B008F	Supplemental Inflatable Restraints - **DTC B008F**
B0091	Supplemental Inflatable Restraints - **DTC B0091**
B0158	Displays and Gauges - **DTC B0158**
B0163	HVAC - Automatic - **DTC B0163, B0183, or B1405**
B0173	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B0178	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B0183	HVAC - Automatic - **DTC B0163, B0183, or B1405**
B0193	HVAC - Automatic - **DTC B0193**
B0208	HVAC - Automatic - **DTC B0208**
B0223	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0228	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0233	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0283	Fixed and Moveable Windows - **DTC B0283**
B0408	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0413	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0418	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**

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DTC	Diagnostic Procedure
B0423	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0428	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0433	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B0509	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B0514	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B0519	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B051A	Frame and Underbody - **DTC B051A or B051B**
B051B	Frame and Underbody - **DTC B051A or B051B**
B051C	Frame and Underbody - **DTC B051C or B051D**
B051D	Frame and Underbody - **DTC B051C or B051D**
B051E	Frame and Underbody - **DTC B051E**
B052B	Frame and Underbody - **DTC B052B**
B0550	Displays and Gauges - **DTC B0550**
B0560	Active Noise Cancellation - **DTC B0560**
B0655	Lighting - **DTC B0655**
B067A	Supplemental Inflatable Restraints - **DTC B067A, B067F, or B0680**
B067F	Supplemental Inflatable Restraints - **DTC B067A, B067F, or B0680**
B0680	Supplemental Inflatable Restraints - **DTC B067A, B067F, or B0680**
B0770	Transfer Case - MP 3010 (NP0) - **DTC B0770**
B0770	Transfer Case - MP 3023/3024 (NQH) - **DTC B0770**
B0775	Transfer Case - MP 3010 (NP0) - **DTC B0775**
B0775	Transfer Case - MP 3023/3024 (NQH) - **DTC B0775**
B0780	Transfer Case - MP 3023/3024 (NQH) - **DTC B0780**
B0785	Transfer Case - MP 3010 (NP0) - **DTC B0785**
B0785	Transfer Case - MP 3023/3024 (NQH) - **DTC B0785**
B0790	Transfer Case - MP 3023/3024 (NQH) - **DTC B0790**
B094C	Object Detection and Pedestrian Protection - **DTC B094C**
B0954	Object Detection and Pedestrian Protection - **DTC B0954, B0955, B0956, or B0957**

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DTC	Diagnostic Procedure
B0955	Object Detection and Pedestrian Protection - **DTC B0954, B0955, B0956, or B0957**
B0956	Object Detection and Pedestrian Protection - **DTC B0954, B0955, B0956, or B0957**
B0957	Object Detection and Pedestrian Protection - **DTC B0954, B0955, B0956, or B0957**
B0958	Object Detection and Pedestrian Protection - **DTC B0958, B0959, B0960, or B0961**
B0959	Object Detection and Pedestrian Protection - **DTC B0958, B0959, B0960, or B0961**
B0960	Object Detection and Pedestrian Protection - **DTC B0958, B0959, B0960, or B0961**
B0961	Object Detection and Pedestrian Protection - **DTC B0958, B0959, B0960, or B0961**
B0967	Object Detection and Pedestrian Protection - **DTC B0967**
B0968	Object Detection and Pedestrian Protection - **DTC B0968 (Chevrolet, GMC)** **DTC B0968 (Cadillac, without UGN)** **DTC B0968 (Cadillac, with UGN)**
B097B	Wiring Systems and Power Management - **DTC B097B**
B097C	Wiring Systems and Power Management - **DTC B097C**
B0987	Object Detection and Pedestrian Protection - **DTC B0987 (Chevrolet, GMC)** **DTC B0987 (Cadillac, without UGN)** **DTC B0987 (Cadillac, with UGN)**
B0997	Cellular, Entertainment, and Navigation - **DTC B0997**
B1000	Data Communications - **DTC B1000**
B1001	Data Communications - **DTC B1001**
B1001	Supplemental Inflatable Restraints - **DTC B1001 (Passenger Presence System)** **DTC B1001 (Inflatable Restraint Sensing and Diagnostic Module)**
B1008	Object Detection and Pedestrian Protection - **DTC B1008**
B1011	Object Detection and Pedestrian Protection - **DTC B1011**
B1015	Object Detection and Pedestrian Protection - **DTC B1015**
B1019	Vehicle Access - **Liftgate Control Module - DTC B1019**
B1019	Supplemental Inflatable Restraints - **DTC B1019**
B101D	Data Communications - **DTC B101D**
B101E	Data Communications - **DTC B101E**
B1020	HVAC - Automatic - **DTC B1020**
B1023	Steering Wheel and Column - **DTC B1023**
B1024	Cellular, Entertainment, and Navigation - **DTC B1024 (Audio Amplifier)** **DTC B1024 (Human Machine Interface Control Module)**

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DTC	Diagnostic Procedure
B1025	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1026	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1027	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1028	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1029	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1030	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1031	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1032	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1033	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1034	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1035	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1036	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1037	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1038	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1039	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1040	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**

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DTC	Diagnostic Procedure
B1041	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1042	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1043	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1044	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1045	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1046	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1047	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1048	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1049	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1050	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1051	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1052	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1053	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1054	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1055	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1056	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**

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DTC	Diagnostic Procedure
B1057	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1058	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1059	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1060	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1061	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1062	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1063	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1064	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1065	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1066	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1067	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1068	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1069	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1070	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1071	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1072	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**

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DTC	Diagnostic Procedure
B1073	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1074	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1075	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1085	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1095	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1105	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1115	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1125	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B1135	Cellular, Entertainment, and Navigation - **DTC B1025-B1135 (UQ3)** **DTC B1025-B1135 (UQA with Front Bench Seat)** **DTC B1025-B1135 (UQA with Front Bucket Seats)** **DTC B1025-B1135 (UQS)** **DTC B1025-B1135 (UQH)**
B124B	Cellular, Entertainment, and Navigation - **DTC B124B (IO3)** **DTC B124B (IO5/IO6)**
B124C	Cellular, Entertainment, and Navigation - **DTC B124C**
B124F	Cellular, Entertainment, and Navigation - **DTC B124F**
B124F	Displays and Gauges - **DTC B124F**
B125A	Cellular, Entertainment, and Navigation - **DTC B125A**
B125C	Cellular, Entertainment, and Navigation - **DTC B125C**
B1271	Cellular, Entertainment, and Navigation - **DTC B1271**
B1277	Active Noise Cancellation - **DTC B1277, B127C, or B127D**
B1277	Cellular, Entertainment, and Navigation - **DTC B1277**
B127A	Cellular, Entertainment, and Navigation - **DTC B127A**
B127B	Object Detection and Pedestrian Protection - **DTC B127B**
B127C	Active Noise Cancellation - **DTC B1277, B127C, or B127D**
B127D	Active Noise Cancellation - **DTC B1277, B127C, or B127D**

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DTC	Diagnostic Procedure
B127E	Cellular, Entertainment, and Navigation - **DTC B127E (X88/Z88 without U42 and IO3)** **DTC B127E (X88/Z88 with U42)** **DTC B127E (X88/Z88 with IO3)** **DTC B127E (Z75)**
B1280	Cellular, Entertainment, and Navigation - **DTC B1280 (without DNU)** **DTC B1280 (with DNU)**
B12A4	Cellular, Entertainment, and Navigation - **DTC B12A4**
B12A6	Cellular, Entertainment, and Navigation - **DTC B12A6**
B12A7	Cellular, Entertainment, and Navigation - **DTC B12A7**
B12A8	Cellular, Entertainment, and Navigation - **DTC B12A8**
B1325	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1327	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1328	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1329	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1330	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1370	Wiring Systems and Power Management - Instrument Cluster - **DTC B1370 (Instrument Cluster)**
B1370	Wiring Systems and Power Management - **DTC B1370, B1380, or B1441**
B1380	Wiring Systems and Power Management - **DTC B1370, B1380, or B1441**
B1395	Lighting - **DTC B1395**
B1395	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1395	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B1405	Object Detection and Pedestrian Protection - **DTC B1405 (with UD5)** **DTC B1405 (with UD7)**
B1405	Power Seats - **DTC B1405, B1825, B2355, B2365, or B2375**
B1405	HVAC - Automatic - **DTC B0163, B0183, or B1405**
B1415	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**

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DTC	Diagnostic Procedure
B1424	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1425	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1439	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B1441	Wiring Systems and Power Management - **DTC B1370, B1380, or B1441**
B1445	Wiring Systems and Power Management - **DTC B1445**
B144A	Wiring Systems and Power Management - **DTC B144A**
B144B	Wiring Systems and Power Management - **DTC B144B**
B144C	Steering Wheel and Column - **DTC B144C**
B1451	Wiring Systems and Power Management - **DTC B1451**
B1474	Vehicle Access - **DTC B1474 or B3849**
B1480	Lighting - **DTC B1480**
B1516	12 V Starting and Charging - **DTC B1516**
B1517	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
B151A	12 V Starting and Charging - **DTC B151A**
B1527	12 V Starting and Charging - **DTC B1527**
B1534	Vehicle Access - **DTC B1534 or B1535**
B1535	Vehicle Access - **DTC B1534 or B1535**
B153A	Vehicle Access - **Liftgate Latch Switches Malfunction - DTC B153A**
B153E	Vehicle Access - **DTC B153E**
B153F	Vehicle Access - **Liftgate Object Sensor Malfunction - DTC B153F**
B154A	Mirrors - **DTC B154A or B154B**
B154B	Mirrors - **DTC B154A or B154B**
B172E	Object Detection and Pedestrian Protection - **DTC B172E or B172F**
B172F	Object Detection and Pedestrian Protection - **DTC B172E or B172F**
B1735	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1740	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1745	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**

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DTC	Diagnostic Procedure
B1750	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1755	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1760	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1815	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1820	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1825	Power Seats - **DTC B1405, B1825, B2355, B2365, or B2375**
B1830	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1835	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1840	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B1845	Power Seats - **DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815, B1820, B1830, B1835, B1840, or B1845**
B191A	Seat Heating and Cooling - **DTC B191A or B191B**
B191B	Seat Heating and Cooling - **DTC B191A or B191B**
B2355	Power Seats - **DTC B1405, B1825, B2355, B2365, or B2375**
B2365	Power Seats - **DTC B1405, B1825, B2355, B2365, or B2375**
B2375	Power Seats - **DTC B1405, B1825, B2355, B2365, or B2375**
B242C	Seat Heating and Cooling - **DTC B242C or B242D**
B242D	Seat Heating and Cooling - **DTC B242C or B242D**
B243A	Seat Heating and Cooling - **DTC B243A or B243B**
B243B	Seat Heating and Cooling - **DTC B243A or B243B**
B244A	Power Seats - **DTC B244A**
B2455	Cellular, Entertainment, and Navigation - **DTC B2455**
B2462	Cellular, Entertainment, and Navigation - **DTC B2462 (without UE1)** **DTC B2462 (UE1)**
B2470	Cellular, Entertainment, and Navigation - **DTC B2470**
B2476	Cellular, Entertainment, and Navigation - **DTC B2476 or B2482**
B2482	Cellular, Entertainment, and Navigation - **DTC B2476 or B2482**
B2494	Vehicle Access - **Liftgate Handle Switch Malfunction - DTC B2494 (Without TB5)** **Liftgate Handle Switch Malfunction - DTC B2494 (With TB5)**
B2495	Vehicle Access - **DTC B2495 or B24A0**
B24A0	Vehicle Access - **DTC B2495 or B24A0**
B2515	Steering Wheel and Column - **DTC B2515**

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DTC	Diagnostic Procedure
B252C	Vehicle Access - **DTC B252C**
B252E	Vehicle Access - **DTC B252E**
B2530	Lighting - **DTC B2530**
B2545	Lighting - **DTC B2545**
B255D	Lighting - **DTC B255D**
B255F	Lighting - **DTC B255F**
B2575	Lighting - **DTC B2575 or B2699**
B257A	Lighting - **DTC B257A**
B2580	Lighting - **DTC B2580**
B258A	Lighting - **DTC B258A**
B2600	Lighting - **DTC B2600 or B2605**
B2605	Lighting - **DTC B2600 or B2605**
B260D	Lighting - **DTC B260D or B260E**
B260E	Lighting - **DTC B260D or B260E**
B2610	Lighting - **DTC B2610**
B2615	Lighting - **DTC B2615**
B2625	Lighting - **DTC B2625**
B263A	Lighting - **DTC B263A**
B2645	Lighting - **DTC B2645**
B2699	Lighting - **DTC B2575 or B2699**
B270A	Shift Lock Control - **DTC B270A**
B2725	Transfer Case - MP 3010 (NP0) - **DTC B2725, P0698, or P0699**
B2725	Transfer Case - MP 3023/3024 (NQH) - **DTC B2725, P0698, or P0699**
B273A	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC B273A**
B2740	Lighting - **DTC B2740**
B2745	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC B2745**
B2750	Horns - **DTC B2750**
B2755	Power Seats - **DTC B2755 or B2765**
B2765	Power Seats - **DTC B2755 or B2765**
B285A	Steering Wheel and Column - **DTC B285A**

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DTC	Diagnostic Procedure
B2897	Steering Wheel and Column - **DTC B2897**
B2910	Steering Wheel and Column - **DTC B2910**
B291A	Theft Deterrent - **DTC B291A**
B291B	Theft Deterrent - **DTC B291B**
B2955	Immobilizer - **DTC B2955 (with BTM)** **DTC B2955 (without BTM)**
B297B	Vehicle Access - **DTC B297B or B297C**
B297C	Vehicle Access - **DTC B297B or B297C**
B3006	Bolted Exterior Body Panels and Closures - **DTC B3006**
B302A	Immobilizer - **DTC B302A**
B3031	Immobilizer - **DTC B3031 (without BTM)** **DTC B3031 (with BTM)**
B3055	Immobilizer - **DTC B3055**
B305A	Steering Wheel and Column - **DTC B305A**
B305C	Immobilizer - **DTC B305C**
B305D	Remote Functions - **DTC B305D**
B305E	Wiring Systems and Power Management - **DTC B305E**
B3101	Remote Functions - **DTC B3101**
B3105	Remote Functions - **DTC B3105**
B3106	Remote Functions - **DTC B3106**
B3109	Remote Functions - **DTC B3109-B3113**
B310D	Remote Functions - **DTC B310D-B310F**
B310E	Remote Functions - **DTC B310D-B310F**
B310F	Remote Functions - **DTC B310D-B310F**
B3110	Remote Functions - **DTC B3109-B3113**
B3111	Remote Functions - **DTC B3109-B3113**
B3112	Remote Functions - **DTC B3109-B3113**
B3113	Remote Functions - **DTC B3109-B3113**
B3119	Remote Functions - **DTC B3119**
B3120	Remote Functions - **DTC B3120**
B3121	Remote Functions - **DTC B3121**
B3122	Remote Functions - **DTC B3122**

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DTC	Diagnostic Procedure
B3123	Remote Functions - **DTC B3123**
B3124	Remote Functions - **DTC B3124**
B3125	Vehicle Access - **DTC B3125, B3130, or B3135 (With UTT)** **DTC B3125, B3130, or B3135 (Without UTT)**
B3130	Vehicle Access - **DTC B3125, B3130, or B3135 (With UTT)** **DTC B3125, B3130, or B3135 (Without UTT)**
B3135	Vehicle Access - **DTC B3125, B3130, or B3135 (With UTT)** **DTC B3125, B3130, or B3135 (Without UTT)**
B3140	Vehicle Access - **DTC B3140, B3145, B3150, or B3155**
B3145	Vehicle Access - **DTC B3140, B3145, B3150, or B3155**
B3150	Vehicle Access - **DTC B3140, B3145, B3150, or B3155**
B3155	Vehicle Access - **DTC B3140, B3145, B3150, or B3155**
B316B	Fixed and Moveable Windows - **DTC B316B, B317A, B318A, or B319A**
B317A	Fixed and Moveable Windows - **DTC B316B, B317A, B318A, or B319A**
B318A	Fixed and Moveable Windows - **DTC B316B, B317A, B318A, or B319A**
B319A	Fixed and Moveable Windows - **DTC B316B, B317A, B318A, or B319A**
B3205	Fixed and Moveable Windows - **DTC B3205 or B3210**
B3210	Fixed and Moveable Windows - **DTC B3205 or B3210**
B323A	Vehicle Access - **DTC B323A-B323C**
B323B	Vehicle Access - **DTC B323A-B323C**
B323C	Vehicle Access - **DTC B323A-B323C**
B3245	Vehicle Access - **DTC B324A or B3245**
B324A	Vehicle Access - **DTC B324A or B3245**
B324D	Instrument Panel and Console Trim - **DTC B324D**
B3265	Vehicle Access - **DTC B3265**
B3531	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B356A	Object Detection and Pedestrian Protection - **DTC B356A**
B3583	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B3596	Lighting - **DTC B3596**
B3600	Lighting - **DTC B3600**
B3604	Adjustable Pedals - **DTC B3604 or B3605 (Z75)** **DTC B3604 or B3605 (X88 or Z88)**
B3605	Adjustable Pedals - **DTC B3604 or B3605 (Z75)** **DTC B3604 or B3605 (X88 or Z88)**

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DTC	Diagnostic Procedure
B3606	Adjustable Pedals - **DTC B3606**
B3618	Vehicle Access - **DTC B3618**
B361A	Displays and Gauges - **DTC B361A**
B361B	Displays and Gauges - **DTC B361B**
B3622	Secondary and Configurable Customer Controls - **DTC B3622 (With Z75)** **DTC B3622 (Without Z75)**
B3623	Cruise Control - **DTC B3623**
B3631	Adjustable Pedals - **DTC B3631**
B3650	Lighting - **DTC B3650**
B370A	Wipers and Washers - **DTC B370A**
B3715	Wipers and Washers - **DTC B3715 or B3875**
B374A	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B3782	HVAC - Automatic - **DTC B0223, B0228, B0233, B0408, B0413, B0418, B0423, B0428, B0433, B1395, B3531, B374A, or B3782**
B3794	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
B3797	Vehicle Access - **DTC B3797**
B3806	Lighting - **DTC B3806**
B3811	Wipers and Washers - **DTC B3811**
B3849	Vehicle Access - **DTC B1474 or B3849**
B384C	Vehicle Access - **DTC B384C**
B3873	Wipers and Washers - **DTC B3873**
B3875	Wipers and Washers - **DTC B3715 or B3875**
B3881	Lighting - **DTC B3881 or B3882**
B3882	Lighting - **DTC B3881 or B3882**
B3883	Lighting - **DTC B3883**
B3884	Lighting - **DTC B3884**
B3885	Lighting - **DTC B3885 or B3886**
B3886	Lighting - **DTC B3885 or B3886**
B3887	Lighting - **DTC B3887 or B3888**
B3888	Lighting - **DTC B3887 or B3888**

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DTC	Diagnostic Procedure
B3889	Lighting - **DTC B3889**
B388E	Lighting - **DTC B388E**
B3890	Lighting - **DTC B3890**
B3891	Lighting - **DTC B3891**
B389A	Immobilizer - **DTC B389A**
B3902	Immobilizer - **DTC B3902**
B390A	Object Detection and Pedestrian Protection - **DTC B390A**
B390C	Object Detection and Pedestrian Protection - **DTC B390C**
B390D	Object Detection and Pedestrian Protection - **DTC B390D**
B390F	Object Detection and Pedestrian Protection - **DTC B390F**
B3920	Power Seats - **DTC B3920**
B3924	Immobilizer - **DTC B3924-B3928**
B3925	Immobilizer - **DTC B3924-B3928**
B3926	Immobilizer - **DTC B3924-B3928**
B3927	Immobilizer - **DTC B3924-B3928**
B3928	Immobilizer - **DTC B3924-B3928**
B392B	Power Seats - **DTC B392B**
B392C	Power Seats - **DTC B392C**
B3930	Vehicle Access - **DTC B3930**
B3933	HVAC - Automatic - **DTC B0173, B0178, B0509, B0514, B0519, B3583, or B3933**
B3935	Immobilizer - **DTC B3935**
B393B	HVAC - Automatic - **DTC B393B**
B3948	Lighting - **DTC B3948 or B3949**
B3949	Lighting - **DTC B3948 or B3949**
B3950	Lighting - **DTC B3950 or B3951**
B3951	Lighting - **DTC B3950 or B3951**
B395A	Object Detection and Pedestrian Protection - **DTC B395A**
B395B	Object Detection and Pedestrian Protection - **DTC B395B**
B395C	Object Detection and Pedestrian Protection - **DTC B395C**
B396A	Vehicle Access - **Liftgate Motor Power Open/Close Malfunction - DTC B396A**

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DTC	Diagnostic Procedure
B396C	Vehicle Access - **Liftgate Interior Release Open/Close Switch Malfunction - DTC B396C or B396D**
B396D	Vehicle Access - **Liftgate Interior Release Open/Close Switch Malfunction - DTC B396C or B396D**
B396E	Vehicle Access - **Liftgate Close Switch Malfunction - DTC B396E**
B3976	Immobilizer - **DTC B3976**
B3978	Immobilizer - **DTC B3978-B3982**
B3979	Immobilizer - **DTC B3978-B3982**
B3980	Immobilizer - **DTC B3978-B3982**
B3981	Immobilizer - **DTC B3978-B3982**
B3982	Immobilizer - **DTC B3978-B3982**
B3984	Immobilizer - **DTC B3984**
B399A	Object Detection and Pedestrian Protection - **DTC B399A**
B399B	Object Detection and Pedestrian Protection - **DTC B399B**
B399C	Object Detection and Pedestrian Protection - **DTC B399C**
B399D	Object Detection and Pedestrian Protection - **DTC B399D**
C0035	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0036	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0037	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0038	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0039	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0040	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0041	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0042	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0043	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0044	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0045	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0046	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0047	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0048	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0049	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**
C0050	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0035-C0050**

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DTC	Diagnostic Procedure
C0110	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0110**
C0131	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0131**
C0161	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0161**
C0176	Power Steering - **DTC C0176**
C0186	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0186, C0187, C0196, or C0287 (Without UGN) DTC C0186, C0187, C0196, or C0287 (With UGN)**
C0187	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0186, C0187, C0196, or C0287 (Without UGN) DTC C0186, C0187, C0196, or C0287 (With UGN)**
C018C	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C018C**
C0196	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0186, C0187, C0196, or C0287 (Without UGN) DTC C0186, C0187, C0196, or C0287 (With UGN)**
C0242	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0242**
C0245	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0245**
C025E	Hydraulic Brakes - **DTC C025E**
C0267	Hydraulic Brakes - **DTC C0267**
C0273	Hydraulic Brakes - **DTC C0273**
C0274	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0274, C0275, or C0280**
C0275	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0274, C0275, or C0280**
C0277	Lighting - **DTC C0277 or C0890**
C027D	Park Brake - **DTC C027D**
C0280	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0274, C0275, or C0280**
C0287	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0186, C0187, C0196, or C0287 (Without UGN) DTC C0186, C0187, C0196, or C0287 (With UGN)**
C028A	Park Brake - **DTC C028A, C028B, or C028F**
C028B	Park Brake - **DTC C028A, C028B, or C028F**
C028E	Park Brake - **DTC C028E**
C028F	Park Brake - **DTC C028A, C028B, or C028F**
C0293	Park Brake - **DTC C0293**
C0297	Lighting - **DTC C0297**
C0298	Park Brake - **DTC C0298**
C0299	Hydraulic Brakes - **DTC C0299**

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DTC	Diagnostic Procedure
C0306	Transfer Case - MP 3010 (NP0) - **DTC C0306 or C0381**
C0306	Transfer Case - MP 3023/3024 (NQH) - **DTC C0306 or C0381**
C0321	Transfer Case - MP 3010 (NP0) - **DTC C0321 or C0326**
C0321	Transfer Case - MP 3023/3024 (NQH) - **DTC C0321 or C0326**
C0326	Transfer Case - MP 3010 (NP0) - **DTC C0321 or C0326**
C0326	Transfer Case - MP 3023/3024 (NQH) - **DTC C0321 or C0326**
C0364	Transfer Case - MP 3010 (NP0) - **DTC C0364 or C0379**
C0364	Transfer Case - MP 3023/3024 (NQH) - **DTC C0364 or C0379**
C0374	Transfer Case - MP 3010 (NP0) - **DTC C0374**
C0374	Transfer Case - MP 3023/3024 (NQH) - **DTC C0374**
C0379	Transfer Case - MP 3010 (NP0) - **DTC C0364 or C0379**
C0379	Transfer Case - MP 3023/3024 (NQH) - **DTC C0364 or C0379**
C0381	Transfer Case - MP 3010 (NP0) - **DTC C0306 or C0381**
C0381	Transfer Case - MP 3023/3024 (NQH) - **DTC C0306 or C0381**
C0387	Transfer Case - MP 3010 (NP0) - **DTC C0387**
C0387	Transfer Case - MP 3023/3024 (NQH) - **DTC C0387**
C038D	Transfer Case - MP 3010 (NP0) - **DTC C038D**
C038D	Transfer Case - MP 3023/3024 (NQH) - **DTC C038D**
C0392	Transfer Case - MP 3010 (NP0) - **DTC C0392, P0642, or P0643**
C0392	Transfer Case - MP 3023/3024 (NQH) - **DTC C0392, P0642, or P0643**
C0396	Transfer Case - MP 3010 (NP0) - **DTC C0396, C039E, P0652, or P0653**
C0396	Transfer Case - MP 3023/3024 (NQH) - **DTC C0396, C039E, P0652, or P0653**
C0397	Transfer Case - MP 3010 (NP0) - **DTC C0397**
C0397	Transfer Case - MP 3023/3024 (NQH) - **DTC C0397**
C0398	Transfer Case - MP 3010 (NP0) - **DTC C0398**
C0398	Transfer Case - MP 3023/3024 (NQH) - **DTC C0398**
C039E	Transfer Case - MP 3010 (NP0) - **DTC C0396, C039E, P0652, or P0653**
C039E	Transfer Case - MP 3023/3024 (NQH) - **DTC C0396, C039E, P0652, or P0653**
C044B	Power Steering - **DTC C044B**
C0475	Power Steering - **DTC C0475**

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DTC	Diagnostic Procedure
C0544	Power Steering - **DTC C0544**
C0545	Power Steering - **DTC C0545**
C0549	Steering Wheel and Column - **DTC C0549**
C0550	Transfer Case - MP 3010 (NP0) - **DTC C0550**
C0550	Transfer Case - MP 3023/3024 (NQH) - **DTC C0550**
C0558	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0558**
C0558	Park Brake - **DTC C0558**
C0561	Park Brake - **DTC C0561**
C0561	Cruise Control - **DTC C0561**
C0565	Cruise Control - **DTC C0565**
C0569	Tire Pressure Monitoring - **DTC C0569**
C0569	Transfer Case - MP 3010 (NP0) - **DTC C0569**
C0569	Transfer Case - MP 3023/3024 (NQH) - **DTC C0569**
C056D	Park Brake - **DTC C056D**
C056D	Data Communications - **DTC C056D**
C056D	Power Steering - **DTC C056D (Power Steering Control Module)**
C056E	Park Brake - **DTC C056E**
C056E	Cruise Control - **DTC C056E (Distance Sensing Cruise Control Module)**
C056E	Data Communications - **DTC C056E**
C0574	Park Brake - **DTC C0574**
C0574	Electronic Suspension Control - **DTC C0574**
C0575	Electronic Suspension Control - **DTC C0575, C0580, C0585, or C0590**
C0580	Electronic Suspension Control - **DTC C0575, C0580, C0585, or C0590**
C0585	Electronic Suspension Control - **DTC C0575, C0580, C0585, or C0590**
C0590	Electronic Suspension Control - **DTC C0575, C0580, C0585, or C0590**
C0615	Electronic Suspension Control - **DTC C0615, C0620, C0625, or C0630**
C0620	Electronic Suspension Control - **DTC C0615, C0620, C0625, or C0630**
C0625	Automatic Level Control - **DTC C0625 or C0630 (With Z85)**
C0625	Electronic Suspension Control - **DTC C0615, C0620, C0625, or C0630**
C0630	Automatic Level Control - **DTC C0625 or C0630 (With Z85)**

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DTC	Diagnostic Procedure
C0630	Electronic Suspension Control - **DTC C0615, C0620, C0625, or C0630**
C0660	Automatic Level Control **DTC C0660 (With Z95)** **DTC C0660 (With Z85)**
C0696	Electronic Suspension Control - **DTC C0696**
C0710	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C0710**
C0711	Automatic Level Control - **DTC C0711 (With Z85)** **DTC C0711 (With Z95)**
C0712	Automatic Level Control - **DTC C0712 (With Z95)** **DTC C0712 (With Z85)**
C0750	Tire Pressure Monitoring - **DTC C0750, C0755, C0760, or C0765**
C0755	Tire Pressure Monitoring - **DTC C0750, C0755, C0760, or C0765**
C0760	Tire Pressure Monitoring - **DTC C0750, C0755, C0760, or C0765**
C0765	Tire Pressure Monitoring - **DTC C0750, C0755, C0760, or C0765**
C0775	Tire Pressure Monitoring - **DTC C0775**
C0800	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0805	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0870	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0880	Trailer Brake Controls - **DTC C0880 or C1115-C1118**
C0880	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0890	Lighting - **DTC C0277 or C0890**
C0895	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0896	Transfer Case - MP 3010 (NP0) - **DTC C0896**
C0896	Transfer Case - MP 3023/3024 (NQH) - **DTC C0896**
C0899	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C0900	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
C1002	Cruise Control - **DTC C1002**
C1112	Trailer Brake Controls - **DTC C111B or C1112-C1114**

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DTC	Diagnostic Procedure
C1113	Trailer Brake Controls - **DTC C111B or C1112-C1114**
C1114	Trailer Brake Controls - **DTC C111B or C1112-C1114**
C1115	Trailer Brake Controls - **DTC C0880 or C1115-C1118**
C1116	Trailer Brake Controls - **DTC C0880 or C1115-C1118**
C1117	Trailer Brake Controls - **DTC C0880 or C1115-C1118**
C1118	Trailer Brake Controls - **DTC C0880 or C1115-C1118**
C111A	Trailer Brake Controls - **DTC C111A**
C111B	Trailer Brake Controls - **DTC C111B or C1112-C1114**
C124F	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C124F, C1250, or C1251**
C1250	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C124F, C1250, or C1251**
C1251	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C124F, C1250, or C1251**
C1252	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C1252-C1254**
C1253	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C1252-C1254**
C1254	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC C1252-C1254**
P0010	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0010, P2088, or P2089**
P0011	Engine Controls and Fuel - 6.0L (L96) - **DTC P0011**
P0011	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0011**
P0016	Engine Controls and Fuel - 6.0L (L96) - **DTC P0016**
P0016	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0016**
P0030	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0031	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0032	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0036	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0037	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0038	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**

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DTC	Diagnostic Procedure
P0050	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0051	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0052	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0053	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0054	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0056	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0057	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0058	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0059	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0060	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0068	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0068 or P1101**
P0071	Displays and Gauges - **DTC P0071-P0074**
P0072	Displays and Gauges - **DTC P0071-P0074**
P0073	Displays and Gauges - **DTC P0071-P0074**
P0074	Displays and Gauges - **DTC P0071-P0074**
P0089	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0089, P228C, or P228D**
P0090	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P0091	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P0092	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P0096	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0096 or P0111**
P0097	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0097, P0098, or P0099**

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DTC	Diagnostic Procedure
P0098	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0097, P0098, or P0099**
P0099	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0097, P0098, or P0099**
P00C6	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P00C6**
P00C7	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P00C7**
P00C8	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P00C9	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P00CA	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0090-P0092, P00C8, P00C9, or P00CA**
P00F4	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P00F4-P00F6**
P00F5	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P00F4-P00F6**
P00F6	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P00F4-P00F6**
P0101	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0101**
P0102	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0102 or P0103**
P0103	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0102 or P0103**
P0106	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0106**
P0107	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0107 or P0108**
P0108	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0107 or P0108**
P0111	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0096 or P0111**
P0112	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0112, P0113, or P0114**
P0113	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0112, P0113, or P0114**
P0114	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0112, P0113, or P0114**
P0116	Engine Controls and Fuel - 6.0L (L96) - **DTC P0116**
P0116	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0116**
P0117	Engine Controls and Fuel - 6.0L (L96) - **DTC P0117 or P0118**
P0117	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0117, P0118, or P0119**
P0118	Engine Controls and Fuel - 6.0L (L96) - **DTC P0117 or P0118**
P0118	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0117, P0118, or P0119**
P0119	Engine Controls and Fuel - 6.0L (L96) - **DTC P0119**
P0119	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0117, P0118, or P0119**
P0121	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P0122	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**

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DTC	Diagnostic Procedure
P0123	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P0128	Engine Controls and Fuel - 6.0L (L96) - **DTC P0128**
P0128	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0128**
P0131	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0132	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0133	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P0135	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0137	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0138	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P013A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P013B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P013C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P013D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P013E	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P013F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P0141	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P014A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**

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DTC	Diagnostic Procedure
P014B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P0151	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0152	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0153	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P0155	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0157	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P0158	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, or P0158**
P015A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P015B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P015C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P015D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P0161	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155, or P0161**
P0171	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0171, P0172, P0174, or P0175**
P0172	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0171, P0172, P0174, or P0175**
P0174	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0171, P0172, P0174, or P0175**
P0175	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0171, P0172, P0174, or P0175**
P0178	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0178 or P0179**
P0179	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0178 or P0179**
P018B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P018B-P018D**
P018C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P018B-P018D**

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DTC	Diagnostic Procedure
P018D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P018B-P018D**
P0191	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0191**
P0192	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0192 or P0193**
P0193	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0192 or P0193**
P0201	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0201	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0202	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0202	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0203	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0203	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0204	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0204	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0205	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0205	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0206	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0206	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0207	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0207	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**

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DTC	Diagnostic Procedure
P0208	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0208	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0222	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P0223	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P0231	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0231, P0232, or P023F**
P0232	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0231, P0232, or P023F**
P023F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0231, P0232, or P023F**
P0261	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0261	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0262	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0262	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0264	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0264	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0265	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0265	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0267	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0267	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0268	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**

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DTC	Diagnostic Procedure
P0268	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0270	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0270	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0271	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0271	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0273	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0273	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0274	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0274	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0276	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0276	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0277	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0277	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0279	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0279	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0280	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**

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DTC	Diagnostic Procedure
P0280	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0282	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0282	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0283	Engine Controls and Fuel - 6.0L (L96) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0283	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0201-P0208, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, or P0283**
P0300	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0300	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0301	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0301	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0302	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0302	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0303	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0303	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0304	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0304	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0305	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0305	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0306	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0306	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0307	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0307	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0308	Engine Controls and Fuel - 6.0L (L96) - **DTC P0300-P0308**
P0308	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0300-P0308**
P0315	Engine Controls and Fuel - 6.0L (L96) - **DTC P0315**
P0315	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0315**
P0324	Engine Controls and Fuel - 6.0L (L96) - **DTC P0324, P0326, P0331, P06B6, or P06B7**

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DTC	Diagnostic Procedure
P0324	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0325	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0325	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0326	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0326	Engine Controls and Fuel - 6.0L (L96) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0327	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0327	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0328	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0328	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0330	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0330	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0331	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0331	Engine Controls and Fuel - 6.0L (L96) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0332	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0332	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0333	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0333	Engine Controls and Fuel - 6.0L (L96) - **DTC P0325, P0327, P0328, P0330, P0332, or P0333**
P0335	Engine Controls and Fuel - 6.0L (L96) - **DTC P0335 or P0336**
P0335	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0335 or P0336**
P0336	Engine Controls and Fuel - 6.0L (L96) - **DTC P0335 or P0336**
P0336	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0335 or P0336**
P0340	Engine Controls and Fuel - 6.0L (L96) - **DTC P0340 or P0341**
P0340	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0340 or P0341**
P0341	Engine Controls and Fuel - 6.0L (L96) - **DTC P0340 or P0341**
P0341	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0340 or P0341**
P0351	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0351	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0352	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**

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DTC	Diagnostic Procedure
P0352	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0353	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0353	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0354	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0354	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0355	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0355	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0356	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0356	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0357	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0357	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0358	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0358	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P0420	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0420 or P0430**
P0430	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0420 or P0430**
P0442	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0442**
P0443	Engine Controls and Fuel - 6.0L (L96) - **DTC P0443, P0458, or P0459**
P0443	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0443, P0458, or P0459**
P0446	Engine Controls and Fuel - 6.0L (L96) - **DTC P0446**

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DTC	Diagnostic Procedure
P0446	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0446**
P0449	Engine Controls and Fuel - 6.0L (L96) - **DTC P0449, P0498, or P0499**
P0449	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0449, P0498, or P0499**
P0451	Engine Controls and Fuel - 6.0L (L96) - **DTC P0451-P0454**
P0451	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0451-P0454**
P0452	Engine Controls and Fuel - 6.0L (L96) - **DTC P0451-P0454**
P0452	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0451-P0454**
P0453	Engine Controls and Fuel - 6.0L (L96) - **DTC P0451-P0454**
P0453	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0451-P0454**
P0454	Engine Controls and Fuel - 6.0L (L96) - **DTC P0451-P0454**
P0454	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0451-P0454**
P0455	Engine Controls and Fuel - 6.0L (L96) - **DTC P0455**
P0455	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0455**
P0458	Engine Controls and Fuel - 6.0L (L96) - **DTC P0443, P0458, or P0459**
P0458	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0443, P0458, or P0459**
P0459	Engine Controls and Fuel - 6.0L (L96) - **DTC P0443, P0458, or P0459**
P0459	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0443, P0458, or P0459**
P0461	Displays and Gauges - **DTC P0461-P0464**
P0462	Displays and Gauges - **DTC P0461-P0464**
P0463	Displays and Gauges - **DTC P0461-P0464**
P0464	Displays and Gauges - **DTC P0461-P0464**
P0480	Engine Heating and Cooling - **DTC P0480, P0691, or P0692**
P0496	Engine Controls and Fuel - 6.0L (L96) - **DTC P0496**
P0496	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0496**
P0498	Engine Controls and Fuel - 6.0L (L96) - **DTC P0449, P0498, or P0499**
P0498	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0449, P0498, or P0499**
P0499	Engine Controls and Fuel - 6.0L (L96) - **DTC P0449, P0498, or P0499**
P0499	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0449, P0498, or P0499**
P0506	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0506 or P0507**
P0507	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0506 or P0507**

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DTC	Diagnostic Procedure
P050D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P050D**
P0513	Immobilizer - **DTC P0513**
P0521	Displays and Gauges - **DTC P0521, P0522, or P0523**
P0522	Displays and Gauges - **DTC P0521, P0522, or P0523**
P0523	Displays and Gauges - **DTC P0521, P0522, or P0523**
P0532	HVAC - Automatic - **DTC P0532 or P0533**
P0533	HVAC - Automatic - **DTC P0532 or P0533**
P0560	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P0561	12 V Starting and Charging - **DTC P0561**
P0562	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P0563	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P0564	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P0565	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P0567	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P0568	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P056C	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P0571	Cruise Control - **DTC P0571**
P0572	Cruise Control - **DTC P0572 or P0573**
P0573	Cruise Control - **DTC P0572 or P0573**
P0575	Cruise Control - **DTC P0575**
P057B	Engine Controls and Fuel - 6.0L (L96) - **DTC P057B-P057D**
P057B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P057B-P057D**
P057C	Engine Controls and Fuel - 6.0L (L96) - **DTC P057B-P057D**

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DTC	Diagnostic Procedure
P057C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P057B-P057D**
P057D	Engine Controls and Fuel - 6.0L (L96) - **DTC P057B-P057D**
P057D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P057B-P057D**
P0580	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P0581	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P059F	Bumpers and Fascias - **DTC P059F or P151E**
P05AE	Bumpers and Fascias - **DTC P05AE or P151F**
P05CC	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P05CC**
P0601	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0601	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0601	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0601	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P0601	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0601, P0603, P0604, or P062F**
P0601	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0601	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0602	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0602	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0602	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0602	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P0602	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0602	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0603	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0603	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0603	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0603	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P0603	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0601, P0603, P0604, or P062F**

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DTC	Diagnostic Procedure
P0604	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0604	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0604	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0604	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P0604	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0601, P0603, P0604, or P062F**
P0604	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0604	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0605	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0606	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0606	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0606	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0606	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P0606	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0606	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0607	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P060A	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P060B	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P060C	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P0611	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P0615	12 V Starting and Charging - **DTC P0615, P0616, or P0617**
P0616	12 V Starting and Charging - **DTC P0615, P0616, or P0617**
P0617	12 V Starting and Charging - **DTC P0615, P0616, or P0617**
P0621	12 V Starting and Charging - **DTC P0621**
P0622	12 V Starting and Charging - **DTC P0622**
P0628	Engine Controls and Fuel - 6.0L (L96) - **DTC P0628 or P0629**
P0628	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0628**
P0629	Engine Controls and Fuel - 6.0L (L96) - **DTC P0628 or P0629**
P062B	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**

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DTC	Diagnostic Procedure
P062B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P062F	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P062F	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P062F	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P062F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P062F	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0601, P0603, P0604, or P062F**
P062F	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P062F	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0630	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0630	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P0633	Immobilizer - **DTC P0633**
P0634	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0634**
P0641	Engine Controls and Fuel - 6.0L (L96) - **DTC P0641, P0651, P0697, or P06A3 (ECM)**
P0641	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0641, P0651, P0697, or P06A3**
P0642	Transfer Case - MP 3010 (NP0) - **DTC C0392, P0642, or P0643**
P0642	Transfer Case - MP 3023/3024 (NQH) - **DTC C0392, P0642, or P0643**
P0643	Transfer Case - MP 3010 (NP0) - **DTC C0392, P0642, or P0643**
P0643	Transfer Case - MP 3023/3024 (NQH) - **DTC C0392, P0642, or P0643**
P0645	HVAC - Automatic - **DTC P0645, P0646, or P0647**
P0646	HVAC - Automatic - **DTC P0645, P0646, or P0647**
P0647	HVAC - Automatic - **DTC P0645, P0646, or P0647**
P064F	Transfer Case - MP 3010 (NP0) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P064F	Transfer Case - MP 3023/3024 (NQH) - **DTC P0601, P0602, P0604, P0606, P062F, or P064F**
P0650	Engine Controls and Fuel - 6.0L (L96) - **DTC P0650, P263A, or P263B**
P0650	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0650, P263A, or P263B**
P0651	Engine Controls and Fuel - 6.0L (L96) - **DTC P0641, P0651, P0697, or P06A3 (ECM)**
P0651	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0641, P0651, P0697, or P06A3**
P0652	Transfer Case - MP 3010 (NP0) - **DTC C0396, C039E, P0652, or P0653**

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DTC	Diagnostic Procedure
P0652	Transfer Case - MP 3023/3024 (NQH) - **DTC C0396, C039E, P0652, or P0653**
P0653	Transfer Case - MP 3010 (NP0) - **DTC C0396, C039E, P0652, or P0653**
P0653	Transfer Case - MP 3023/3024 (NQH) - **DTC C0396, C039E, P0652, or P0653**
P0658	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0658 or P0659**
P0658	Automatic Transmission - 8L90 (M5U) - **DTC P0658 or P0659**
P0659	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0658 or P0659**
P0659	Automatic Transmission - 8L90 (M5U) - **DTC P0658 or P0659**
P0667	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0667, P0668, or P0669**
P0668	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0667, P0668, or P0669**
P0669	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0667, P0668, or P0669**
P0685	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0685	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0686	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0686	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0687	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0687	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0689	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0689	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0690	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0690	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P0691	Engine Heating and Cooling - **DTC P0480, P0691, or P0692**
P0692	Engine Heating and Cooling - **DTC P0480, P0691, or P0692**
P0697	Engine Controls and Fuel - 6.0L (L96) - **DTC P0641, P0651, P0697, or P06A3 (ECM)**
P0697	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0641, P0651, P0697, or P06A3**
P0698	Transfer Case - MP 3010 (NP0) - **DTC B2725, P0698, or P0699**
P0698	Transfer Case - MP 3023/3024 (NQH) - **DTC B2725, P0698, or P0699**
P0699	Transfer Case - MP 3010 (NP0) - **DTC B2725, P0698, or P0699**
P0699	Transfer Case - MP 3023/3024 (NQH) - **DTC B2725, P0698, or P0699**
P06A3	Engine Controls and Fuel - 6.0L (L96) - **DTC P0641, P0651, P0697, or P06A3 (ECM)**
P06A3	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0641, P0651, P0697, or P06A3**

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DTC	Diagnostic Procedure
P06AC	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P06AC, P06AD, or P06AE**
P06AD	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P06AC, P06AD, or P06AE**
P06AE	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P06AC, P06AD, or P06AE**
P06B6	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P06B6	Engine Controls and Fuel - 6.0L (L96) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P06B7	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P06B7	Engine Controls and Fuel - 6.0L (L96) - **DTC P0324, P0326, P0331, P06B6, or P06B7**
P0700	Engine Controls and Fuel - 6.0L (L96) - **DTC P0700**
P0700	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0700**
P0703	Cruise Control - **DTC P0703**
P0711	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0711-P0713**
P0711	Automatic Transmission - 8L90 (M5U) - **DTC P0711-P0713**
P0712	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0711-P0713**
P0712	Automatic Transmission - 8L90 (M5U) - **DTC P0711-P0713**
P0713	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0711-P0713**
P0713	Automatic Transmission - 8L90 (M5U) - **DTC P0711-P0713**
P0716	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0716 or P0717**
P0716	Automatic Transmission - 8L90 (M5U) - **DTC P0716, P0717, P07BF, or P07C0**
P0717	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0716 or P0717**
P0717	Automatic Transmission - 8L90 (M5U) - **DTC P0716, P0717, P07BF, or P07C0**
P071A	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P071A**
P071A	Automatic Transmission - 8L90 (M5U) - **DTC P071A**
P0722	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0722 or P0723**
P0722	Automatic Transmission - 8L90 (M5U) - **DTC P0722, P0723, P077C, or P077D**
P0723	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0722 or P0723**
P0723	Automatic Transmission - 8L90 (M5U) - **DTC P0722, P0723, P077C, or P077D**
P0741	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0741 or P0742**
P0742	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0741 or P0742**
P0746	Automatic Transmission - 8L90 (M5U) - **DTC P0746 or P0747**
P0747	Automatic Transmission - 8L90 (M5U) - **DTC P0746 or P0747**

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DTC	Diagnostic Procedure
P0751	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0751 or P0752**
P0752	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0751 or P0752**
P0756	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0756**
P0776	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0776 or P0777**
P0776	Automatic Transmission - 8L90 (M5U) - **DTC P0776 or P0777**
P0777	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0776 or P0777**
P0777	Automatic Transmission - 8L90 (M5U) - **DTC P0776 or P0777**
P077C	Automatic Transmission - 8L90 (M5U) - **DTC P0722, P0723, P077C, or P077D**
P077D	Automatic Transmission - 8L90 (M5U) - **DTC P0722, P0723, P077C, or P077D**
P0796	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0796 or P0797**
P0796	Automatic Transmission - 8L90 (M5U) - **DTC P0796 or P0797**
P0797	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0796 or P0797**
P0797	Automatic Transmission - 8L90 (M5U) - **DTC P0796 or P0797**
P07BF	Automatic Transmission - 8L90 (M5U) - **DTC P0716, P0717, P07BF, or P07C0**
P07C0	Automatic Transmission - 8L90 (M5U) - **DTC P0716, P0717, P07BF, or P07C0**
P0815	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0815, P0816, P0826, or P1876**
P0815	Automatic Transmission - 8L90 (M5U) - **DTC P0815, P0816, or P0826**
P0816	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0815, P0816, P0826, or P1876**
P0816	Automatic Transmission - 8L90 (M5U) - **DTC P0815, P0816, or P0826**
P0826	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0815, P0816, P0826, or P1876**
P0826	Automatic Transmission - 8L90 (M5U) - **DTC P0815, P0816, or P0826**
P0842	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0842 or P0843**
P0843	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0842 or P0843**
P0850	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0850-P0852**
P0851	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0850-P0852**
P0851	Automatic Transmission - 8L90 (M5U) - **DTC P0851**
P0852	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0850-P0852**
P0856	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC P0856**
P0872	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0872 or P0873**
P0873	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0872 or P0873**

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DTC	Diagnostic Procedure
P0877	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0877 or P0878**
P0878	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0877 or P0878**
P0960	Automatic Transmission - 8L90 (M5U) - **DTC P0960, P0962, or P0963**
P0961	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0961-P0963**
P0962	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0961-P0963**
P0962	Automatic Transmission - 8L90 (M5U) - **DTC P0960, P0962, or P0963**
P0963	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0961-P0963**
P0963	Automatic Transmission - 8L90 (M5U) - **DTC P0960, P0962, or P0963**
P0964	Automatic Transmission - 8L90 (M5U) - **DTC P0964, P0966, or P0967**
P0965	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0965-P0967**
P0966	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0965-P0967**
P0966	Automatic Transmission - 8L90 (M5U) - **DTC P0964, P0966, or P0967**
P0967	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0965-P0967**
P0967	Automatic Transmission - 8L90 (M5U) - **DTC P0964, P0966, or P0967**
P0968	Automatic Transmission - 8L90 (M5U) - **DTC P0968, P0970, or P0971**
P0969	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0969-P0971**
P0970	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0969-P0971**
P0970	Automatic Transmission - 8L90 (M5U) - **DTC P0968, P0970, or P0971**
P0971	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0969-P0971**
P0971	Automatic Transmission - 8L90 (M5U) - **DTC P0968, P0970, or P0971**
P0973	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0973 or P0974**
P0974	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0973 or P0974**
P0976	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0976 or P0977**
P0977	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0976 or P0977**
P0989	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0989 or P0990**
P0990	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0989 or P0990**
P1101	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0068 or P1101**
P1248	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P1249	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P124A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**

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DTC	Diagnostic Procedure
P124B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P124C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P124D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P124E	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P124F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1248-P124F**
P1255	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1255**
P127C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P127C or P127D**
P127D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P127C or P127D**
P129B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P129B or P129C**
P129B	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P129C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P129B or P129C**
P129C	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P129D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P129D**
P129E	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P129E or P12A8**
P12A6	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P12A6**
P12A8	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P129E or P12A8**
P135A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P135A or P135B**
P135B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P135A or P135B**
P1400	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1400**
P150C	Engine Controls and Fuel - 6.0L (L96) - **DTC P150C**
P150C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P150C**
P1516	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1516, P2101, P2119, or P2176**
P151E	Bumpers and Fascias - **DTC P059F or P151E**
P151F	Bumpers and Fascias - **DTC P05AE or P151F**
P1553	Cruise Control - **DTC P1553**
P155A	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P155B	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**

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DTC	Diagnostic Procedure
P155C	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P15AE	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P15AF	12 V Starting and Charging - **DTC B1325, B1327-B1330, B1395, B1415, B1424, B1425, B1439, B1517, C0800, C0805, C0870, C0880, C0895, C0899, C0900, P0560, P0562, P0563, P0611, P129B, P129C, P15AE, or P15AF**
P15F6	Cruise Control - **DTC P15F6 (Distance Sensing Cruise Control Module)**
P15F6	Object Detection and Pedestrian Protection - **DTC P15F6 (Active Safety Control Module (UGN+Z75))**
P15F8	Antilock Brake System - Non-Hybrid Less than 3900 kg (8600 lb) GVW - **DTC P15F8**
P162B	Immobilizer - **DTC P162B**
P162C	Cruise Control - **Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C, or P162C**
P1631	Immobilizer - **DTC P1631**
P163A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P163A**
P1649	Immobilizer - **DTC P1649**
P1682	Engine Controls and Fuel - 6.0L (L96) - **DTC P0685-P0687, P0689, P0690, or P1682**
P1682	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0685-P0687, P0689, P0690, or P1682**
P16A0	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P16A1	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P16A2	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P16E9	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P16F0	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P16F3	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P16F3	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P16F3	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P16F4	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P16FB	Automatic Transmission - 8L90 (M5U) - **DTC P0601-P0604, P0606, P062F, P16F3, P16F4, or P16FB**
P175F	Automatic Transmission - 8L90 (M5U) - **DTC P175F**
P1761	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P1761**
P1761	Automatic Transmission - 8L90 (M5U) - **DTC P1761**

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DTC	Diagnostic Procedure
P1762	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P1762**
P176B	Automatic Transmission - 8L90 (M5U) - **DTC P176B-P176D**
P176C	Automatic Transmission - 8L90 (M5U) - **DTC P176B-P176D**
P176D	Automatic Transmission - 8L90 (M5U) - **DTC P176B-P176D**
P1824	Automatic Transmission - 8L90 (M5U) - **DTC P1824, P182D, P18B8, P18BD, or P18C2**
P182A	Automatic Transmission - 8L90 (M5U) - **DTC P182A, P1838, P18B5, P18BA, or P18BF**
P182B	Automatic Transmission - 8L90 (M5U) - **DTC P182B, P182C, P18B6, P18BB, or P18C0**
P182C	Automatic Transmission - 8L90 (M5U) - **DTC P182B, P182C, P18B6, P18BB, or P18C0**
P182D	Automatic Transmission - 8L90 (M5U) - **DTC P1824, P182D, P18B8, P18BD, or P18C2**
P182E	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P182E or P1915**
P182E	Automatic Transmission - 8L90 (M5U) - **DTC P182E or P1915**
P182F	Automatic Transmission - 8L90 (M5U) - **DTC P182F, P1839, P18B7, P18BC, or P18C1**
P1838	Automatic Transmission - 8L90 (M5U) - **DTC P182A, P1838, P18B5, P18BA, or P18BF**
P1839	Automatic Transmission - 8L90 (M5U) - **DTC P182F, P1839, P18B7, P18BC, or P18C1**
P1840	Automatic Transmission - 8L90 (M5U) - **DTC P1840, P1841, P18B9, P18BE, or P18C3**
P1841	Automatic Transmission - 8L90 (M5U) - **DTC P1840, P1841, P18B9, P18BE, or P18C3**
P185F	Transfer Case - MP 3023/3024 (NQH) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P1876	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P0815, P0816, P0826, or P1876**
P18B5	Automatic Transmission - 8L90 (M5U) - **DTC P182A, P1838, P18B5, P18BA, or P18BF**
P18B6	Automatic Transmission - 8L90 (M5U) - **DTC P182B, P182C, P18B6, P18BB, or P18C0**
P18B7	Automatic Transmission - 8L90 (M5U) - **DTC P182F, P1839, P18B7, P18BC, or P18C1**
P18B8	Automatic Transmission - 8L90 (M5U) - **DTC P1824, P182D, P18B8, P18BD, or P18C2**
P18B9	Automatic Transmission - 8L90 (M5U) - **DTC P1840, P1841, P18B9, P18BE, or P18C3**
P18BA	Automatic Transmission - 8L90 (M5U) - **DTC P182A, P1838, P18B5, P18BA, or P18BF**
P18BB	Automatic Transmission - 8L90 (M5U) - **DTC P182B, P182C, P18B6, P18BB, or P18C0**
P18BC	Automatic Transmission - 8L90 (M5U) - **DTC P182F, P1839, P18B7, P18BC, or P18C1**
P18BD	Automatic Transmission - 8L90 (M5U) - **DTC P1824, P182D, P18B8, P18BD, or P18C2**
P18BE	Automatic Transmission - 8L90 (M5U) - **DTC P1840, P1841, P18B9, P18BE, or P18C3**
P18BF	Automatic Transmission - 8L90 (M5U) - **DTC P182A, P1838, P18B5, P18BA, or P18BF**
P18C0	Automatic Transmission - 8L90 (M5U) - **DTC P182B, P182C, P18B6, P18BB, or P18C0**

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DTC	Diagnostic Procedure
P18C1	Automatic Transmission - 8L90 (M5U) - **DTC P182F, P1839, P18B7, P18BC, or P18C1**
P18C2	Automatic Transmission - 8L90 (M5U) - **DTC P1824, P182D, P18B8, P18BD, or P18C2**
P18C3	Automatic Transmission - 8L90 (M5U) - **DTC P1840, P1841, P18B9, P18BE, or P18C3**
P1915	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P182E or P1915**
P1915	Automatic Transmission - 8L90 (M5U) - **DTC P182E or P1915**
P2066	Displays and Gauges - **DTC P2066**
P2067	Displays and Gauges - **DTC P2067**
P2068	Displays and Gauges - **DTC P2068**
P2088	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0010, P2088, or P2089**
P2089	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0010, P2088, or P2089**
P2096	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2096-P2099**
P2097	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2096-P2099**
P2098	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2096-P2099**
P2099	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2096-P2099**
P2101	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1516, P2101, P2119, or P2176**
P2119	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1516, P2101, P2119, or P2176**
P2122	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2122, P2123, P2127, P2128, or P2138**
P2123	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2122, P2123, P2127, P2128, or P2138**
P2127	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2122, P2123, P2127, P2128, or P2138**
P2128	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2122, P2123, P2127, P2128, or P2138**
P2135	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0121-P0123, P0222, P0223, P16A0-P16A2, or P2135**
P2138	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2122, P2123, P2127, P2128, or P2138**
P2147	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2148	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2150	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2151	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**

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DTC	Diagnostic Procedure
P2153	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2154	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2156	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2157	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2160	Transfer Case - MP 3010 (NP0) - **DTC P2160 or P2161 (2-Wire)**
P2160	Transfer Case - MP 3023/3024 (NQH) - **DTC P2160 or P2161 (2-Wire)**
P2161	Transfer Case - MP 3010 (NP0) - **DTC P2160 or P2161 (2-Wire)**
P2161	Transfer Case - MP 3023/3024 (NQH) - **DTC P2160 or P2161 (2-Wire)**
P216B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P216C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P216E	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P216F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2176	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P1516, P2101, P2119, or P2176**
P217B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P217C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P217E	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P217F	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, or P217F**
P2199	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2199**
P219A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P219A or P219B**
P219B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P219A or P219B**

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DTC	Diagnostic Procedure
P2227	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2227-P2230**
P2228	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2227-P2230**
P2229	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2227-P2230**
P2230	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2227-P2230**
P2269	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2269**
P2270	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P2271	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P2272	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P2273	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D, or P2270-P2273**
P228C	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0089, P228C, or P228D**
P228D	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0089, P228C, or P228D**
P2300	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2300	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2301	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2301	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2303	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2303	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2304	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2304	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**

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DTC	Diagnostic Procedure
P2306	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2306	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2307	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2307	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2309	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2309	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2310	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2310	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2312	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2312	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2313	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2313	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2315	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2315	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2316	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2316	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**

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DTC	Diagnostic Procedure
P2318	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2318	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2319	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2319	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2321	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2321	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2322	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2322	Engine Controls and Fuel - 6.0L (L96) - **DTC P0351-P0358, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, or P2322**
P2534	Wiring Systems and Power Management - **DTC P2534 or P2535**
P2535	Wiring Systems and Power Management - **DTC P2534 or P2535**
P2537	Wiring Systems and Power Management - **DTC P2537**
P2544	Engine Controls and Fuel - 6.0L (L96) - **DTC P2544**
P2544	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2544**
P254F	Bolted Exterior Body Panels and Closures - **DTC P254F**
P2618	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2618 or P2619**
P2619	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2618 or P2619**
P262B	Data Communications - **DTC P0601-P0607, P060A-P060C, P062F, P16E9-P16F0, or P262B**
P262B	Engine Controls and Fuel - 6.0L (L96) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P262B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3, or P262B (ECM)**
P2632	Engine Controls and Fuel - 6.0L (L96) - **DTC P2632-P2634**
P2633	Engine Controls and Fuel - 6.0L (L96) - **DTC P2632-P2634**
P2634	Engine Controls and Fuel - 6.0L (L96) - **DTC P2632-P2634**

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DTC	Diagnostic Procedure
P2635	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P2635**
P2636	Engine Controls and Fuel - 6.0L (L96) - **DTC P2636**
P263A	Engine Controls and Fuel - 6.0L (L96) - **DTC P0650, P263A, or P263B**
P263A	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0650, P263A, or P263B**
P263B	Engine Controls and Fuel - 6.0L (L96) - **DTC P0650, P263A, or P263B**
P263B	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P0650, P263A, or P263B**
P2670	Automatic Transmission - 8L90 (M5U) - **DTC P2670 or P2671**
P2671	Automatic Transmission - 8L90 (M5U) - **DTC P2670 or P2671**
P2714	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2714 or P2715**
P2714	Automatic Transmission - 8L90 (M5U) - **DTC P2714 or P2715**
P2715	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2714 or P2715**
P2715	Automatic Transmission - 8L90 (M5U) - **DTC P2714 or P2715**
P2718	Automatic Transmission - 8L90 (M5U) - **DTC P2718, P2720, or P2721**
P2719	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2719-P2721**
P2720	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2719-P2721**
P2720	Automatic Transmission - 8L90 (M5U) - **DTC P2718, P2720, or P2721**
P2721	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2719-P2721**
P2721	Automatic Transmission - 8L90 (M5U) - **DTC P2718, P2720, or P2721**
P2723	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2723 or P2724**
P2723	Automatic Transmission - 8L90 (M5U) - **DTC P2723 or P2724**
P2724	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2723 or P2724**
P2724	Automatic Transmission - 8L90 (M5U) - **DTC P2723 or P2724**
P2727	Automatic Transmission - 8L90 (M5U) - **DTC P2727, P2729, or P2730**
P2728	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2728-P2730**
P2729	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2728-P2730**
P2729	Automatic Transmission - 8L90 (M5U) - **DTC P2727, P2729, or P2730**
P2730	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2728-P2730**
P2730	Automatic Transmission - 8L90 (M5U) - **DTC P2727, P2729, or P2730**
P2736	Automatic Transmission - 8L90 (M5U) - **DTC P2736, P2738, or P2739**
P2738	Automatic Transmission - 8L90 (M5U) - **DTC P2736, P2738, or P2739**

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DTC	Diagnostic Procedure
P2739	Automatic Transmission - 8L90 (M5U) - **DTC P2736, P2738, or P2739**
P2762	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2762, P2763, or P2764**
P2763	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2762, P2763, or P2764**
P2764	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2762, P2763, or P2764**
P2771	Automatic Transmission - 6L80 (MYC) or 6L90 (MYD) - **DTC P2771 (NQF, NQH)**
P279A	Transfer Case - MP 3010 (NP0) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P279A	Transfer Case - MP 3023/3024 (NQH) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P279B	Transfer Case - MP 3010 (NP0) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P279B	Transfer Case - MP 3023/3024 (NQH) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P279C	Transfer Case - MP 3010 (NP0) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P279C	Transfer Case - MP 3023/3024 (NQH) - **DTC P185F or P279A-P279C** **DTC P185F or P279A-P279C (L83)**
P27A7	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27A8	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27A9	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27AA	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27AB	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27AC	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P27AD	Automatic Transmission - 8L90 (M5U) - **DTC P27A7-P27AD**
P2808	Automatic Transmission - 8L90 (M5U) - **DTC P2808 or P2809**
P2809	Automatic Transmission - 8L90 (M5U) - **DTC P2808 or P2809**
P2812	Automatic Transmission - 8L90 (M5U) - **DTC P2812, P2814, or P2815**
P2814	Automatic Transmission - 8L90 (M5U) - **DTC P2812, P2814, or P2815**
P2815	Automatic Transmission - 8L90 (M5U) - **DTC P2812, P2814, or P2815**
P2817	Automatic Transmission - 8L90 (M5U) - **DTC P2817 or P2818**
P2818	Automatic Transmission - 8L90 (M5U) - **DTC P2817 or P2818**
P281D	Automatic Transmission - 8L90 (M5U) - **DTC P281D or P281E**
P281E	Automatic Transmission - 8L90 (M5U) - **DTC P281D or P281E**
P2824	Automatic Transmission - 8L90 (M5U) - **DTC P2824, P2826, or P2827**
P2826	Automatic Transmission - 8L90 (M5U) - **DTC P2824, P2826, or P2827**
P2827	Automatic Transmission - 8L90 (M5U) - **DTC P2824, P2826, or P2827**

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DTC	Diagnostic Procedure
P3400	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3400**
P3401	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3403	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3404	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3425	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3427	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3428	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3441	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3443	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3444	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3449	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3451	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
P3452	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - **DTC P3401, P3403, P3404, P3425, P3427, P3428, P3441, P3443, P3444, P3449, P3451, or P3452**
U0020	Data Communications - **DTC U0020**
U0028	Data Communications - **DTC U0028**
U0029	Data Communications - **DTC U0029**
U0073	Data Communications - **DTC U0073 or U2100**
U0074	Data Communications - **DTC U0074**
U0075	Data Communications - **DTC U0075**
U0077	Data Communications - **DTC U0077**

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DTC	Diagnostic Procedure
U0078	Data Communications - **DTC U0078**
U0100-U02FF	Data Communications - **DTC U0100-U02FF**
U0300-U0336	Data Communications - **DTC U0300-U0336**
U0400-U05FF	Data Communications - **DTC U0400-U05FF**
U1500-U15FF	Data Communications - **DTC U1500-U15FF**
U1814	Data Communications - **DTC U1814**
U1833	Data Communications - **DTC U1833**
U184A	Data Communications - **DTC U184A**
U18A2	Data Communications - **DTC U18A2**
U18A6	Data Communications - **DTC U18A6**
U18B9-U18BF	Data Communications - **DTC U18B9-U18BF**
U2098	Data Communications - **DTC U2098**
U2099	Data Communications - **DTC U2099**
U209E	Data Communications - **DTC U209E**
U209F	Data Communications - **DTC U209F**
U2100	Data Communications - **DTC U0073 or U2100**
U2500-U25FF	Data Communications - **DTC U2500-U25FF**
U2616	Data Communications - **DTC U2616**

SYMPTOM BYTE LIST

Symptom Byte	Symptom Byte Description	Symptom Byte Definition
(00-0F) General Electrical Failures This category includes standard wiring failure modes (for example, shorts and opens), direct current (DC) quantities related by Ohm's Law and quantities related to amplitude, frequency or rate of change, and wave shape.		
00	-	This sub type is used for failures that cannot be assigned to a specific sub type. No additional information is available.
01	Short to Battery	This sub type is used for failures where the Electronic Control Unit measures vehicle system (battery positive) potential for greater than a specified time period or when some other value is expected.
02	Short to Ground	This sub type is used for failures where the Electronic Control Unit

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
		measures ground (battery negative) potential for greater than a specified time period or when some other value is expected.
03	Low Voltage	This sub type is used for failures where the Electronic Control Unit measures a voltage below a specified range but not necessarily a short to ground.
04	Open	This sub type is used for failures where the Electronic Control Unit determines an open circuit via lack of bias voltage, low current flow, no change in state of an input in response to an output, etc.
05	High Voltage/Open	This sub type is used for failures where the condition detected by the Electronic Control Unit is the same for either indicated failure mode.
06	Low Voltage/Open	This sub type is used for failures where the condition detected by the Electronic Control Unit is the same for either indicated failure mode.
07	High Voltage	This sub type is used for failures where the Electronic Control Unit measures a voltage above a specified range but not necessarily a short to battery.
08	Performance - Signal Invalid	This sub type is used for failures where the value of the signal is not plausible given the operating conditions.
09	Too Fast Transitions	This sub type is used for failures where the signal transitions more quickly than is reasonably allowed.
0A	Too Slow Transitions	This sub type is used for failures where the signal transitions more slowly than is reasonably allowed.
0B	High Current	This sub type is used for failures where the Electronic Control Unit measures current flow above a specified range.
0C	Low Current	This sub type is used for failures where the Electronic Control Unit measures current flow below a specified range.
0D	High Resistance	This sub type is used for failures where the Electronic Control Unit infers a circuit resistance above a specified range.
0E	Low Resistance	This sub type is used for failures where the Electronic Control Unit infers a circuit resistance below a specified range.

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
0F	Signal Erratic	This sub type is used for failures where the signal is momentarily implausible (not long enough for Signal Invalid) or discontinuous.
(10-1F) Additional General Electrical Failures This category includes the overflow from category 0.		
10	-	Currently not used.
11	High Input	This sub type is used for failures where some circuit quantity is above a specified range.
12	Low Input	This sub type is used for failures where some circuit quantity is below a specified range.
13	Low Voltage/High Temperature	This sub type is used for failures where a temperature sensor with a negative temperature coefficient detects a voltage below a specified range.
14	High Voltage/Low Temperature	This sub type is used for failures where a temperature sensor with a negative temperature coefficient detects a voltage above a specified range.
15	Performance - Signal Rising Time Failure	This sub type is used for failures where the signal rise time is outside a specified range.
16	Performance - Signal Falling Time Failure	This sub type is used for failures where the signal fall time is outside a specified range.
17	Performance - Signal Shape/Waveform Failure	This sub type is used for failures where the shape of the signal (plot of the amplitude with respect to time) is not correct (for example, improper circuit impedance.)
18	Low Signal Amplitude	This sub type is used for failures where the Electronic Control Unit measures a signal voltage below a specified range but not necessarily a short to ground (for example, gain too low).
19	High Signal Amplitude	This sub type is used for failures where the Electronic Control Unit measures a signal voltage above a specified range but not necessarily a short to battery (for example, gain too high).
1A	Performance - Bias Level Out of Range	This sub type is used for failures where the Electronic Control Unit applies a bias voltage to a circuit upon which is superimposed a signal voltage (for example, Oxygen Sensor Circuit.)

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
1B	Signal Cross Coupled	This sub type is used for failures where the Electronic Control Unit detects a circuit shorted to another circuit when both circuits are controlled by the Electronic Control Unit.
1C	-	Currently not used.
1D	-	Currently not used.
1E	-	Currently not used.
1F	Erratic	This sub type is used for failures where the Electronic Control Unit momentarily detects one of the conditions defined above but not long enough to set a specific sub type.
(20-2F) FM / PWM Failures This category includes faults related to Frequency Modulated (FM) and Pulse Width Modulated (PWM) inputs and outputs of the Electronic Control Unit and faults where position is determined by counts.		
20	-	Currently not used.
21	Incorrect Period	This sub type is used for failures where the Electronic Control Unit measures an incorrect duration for one cycle of the output.
22	Too Short Low-Time	This sub type is used for failures where the Electronic Control Unit detects the low pulse is too narrow with respect to time.
23	Too Long Low-Time	This sub type is used for failures where the Electronic Control Unit detects the low pulse is too wide with respect to time.
24	Too Short High-Time	This sub type is used for failures where the Electronic Control Unit detects the high pulse is too narrow with respect to time.
25	Too Long High-Time	This sub type is used for failures where the Electronic Control Unit detects the high pulse is too wide with respect to time.
26	Low Frequency	This sub type is used for failures where the Electronic Control Unit detects too few cycles in a given time period.
27	High Frequency	This sub type is used for failures where the Electronic Control Unit detects too many cycles in a given time period.
28	Incorrect Frequency	This sub type is used for failures where the Electronic Control Unit measures an incorrect number of cycles in a given time period.
29	Too Few Pulses	This sub type is used for failures where the Electronic Control Unit measures too few pulses (for example, position is calibrated in counts from one extreme to the other).

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
2A	Too Many Pulses	This sub type is used for failures where the Electronic Control Unit measures too many pulses (for example, position is calibrated in counts from one extreme to the other).
2B	Missing Reference	This sub type is used for failures where the Electronic Control Unit does not detect a reference for a signal circuit or a group of signal circuits.
2C	-	Currently not used.
2D	-	Currently not used.
2E	-	Currently not used.
2F	-	Currently not used.
(30-3F) Electronic Control Unit Internal Failures This category includes faults related to memory, software, and internal electrical circuitry; requiring component replacement.		
30	-	Currently not used.
31	Internal Checksum Error	This sub type is used by the Electronic Control Unit to indicate an incorrect checksum calculation where memory type is not specified.
32	General Memory Malfunction	This sub type is used by the Electronic Control Unit to indicate a memory failure where memory type is not specified.
33	Special Memory Malfunction	This sub type is used by the Electronic Control Unit to indicate a memory failure where the specific memory type is not defined in this category.
34	RAM Malfunction	This sub type is used by the Electronic Control Unit to indicate a Random Access Memory (RAM) failure.
35	ROM Malfunction	This sub type is used by the Electronic Control Unit to indicate a Read Only Memory (ROM) failure.
36	EEPROM Performance/Malfunction	This sub type is used by the Electronic Control Unit to indicate an Electrically Erasable Programmable Read Only Memory (EEPROM) failure.
37	Software Malfunction	This sub type is used by the Electronic Control Unit to indicate a failure in the execution of operational software
38	Supervision Software Malfunction	This sub type is used by the Electronic Control Unit to indicate a loop time error in the execution of the operational software.

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
39	Internal Malfunction	This sub type is used by the Electronic Control Unit to indicate the detection of an internal circuit failure.
3A	Incorrect Component Installed	This sub type is used by the Electronic Control Unit to indicate a mismatch between the hardware connected to the Electronic Control Unit and the hardware expected by the Electronic Control Unit.
3B	Self-Test Malfunction	This sub type is used by the Electronic Control Unit to indicate a sensor self-test failure launched by an Electronic Control Unit command.
3C	Internal Communication Malfunction	This sub type is used by the Electronic Control Unit to indicate loss of an internal communication line, for example, between microprocessors in a dual microprocessor configuration.
3D	-	Currently not used.
3E	-	Currently not used.
3F	-	Currently not used.
(40-4F) Electronic Control Unit Programming Failures This category includes faults related to operational software, calibrations, and options; remedied by programming the Electronic Control Unit.		
40	-	Currently not used.
41	Not Programmed	This sub type is used to indicate that only boot software is present in the Electronic Control Unit.
42	Calibration Not Programmed	This sub type is used to indicate that operational software is present but calibration data is not.
43	EEPROM Incorrect Programming	This sub type is used to indicate an EEPROM error that may be remedied by reprogramming the module.
44	Security Access Not Activated	This sub type is used to indicate that programming was attempted without unlocking the Electronic Control Unit.
45	Variant Not Programmed	This sub type is used to indicate the need to enter (program) the sub system option content.
46	Configuration Not Programmed	This sub type is used to indicate the need to enter (program) the vehicle option content.
47	VIN Not Programmed	This sub type is used to indicate the need to enter (program) the vehicle identification number (VIN).

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
48	Security Code Not Programmed	This sub type is used to indicate the need to enter (program) the theft / security code.
49	RAM Incorrect Programming	This sub type is used by the Electronic Control Unit to indicate a Random Access Memory (RAM) error remedied by reprogramming.
4A	Programming Checksum Error	This sub type is used by the Electronic Control Unit to indicate an incorrect checksum calculation where memory type is not specified.
4B	Calibration Not Learned	This sub type is used by the Electronic Control Unit to indicate that a password, operational range, etc. for a sensor or actuator must be learned by the Electronic Control Unit.
4C	DTC Memory Full	This sub type is used by the Electronic Control Unit to indicate that more DTCs have been detected than can be accommodated by the memory allocated for DTC storage.
4D	Stack Overflow	This subtype is used by the Electronic Control Unit to indicate that more memory has been used in a stack than is allocated to a program.
4E	-	Currently not used.
4F	-	Currently not used.
(50-5F) 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.		
50	-	Currently not used.
51	-	Currently not used.
52	-	Currently not used.
53	Low Temperature	This sub type is used for failures where the Electronic Control Unit calculates a low temperature condition based upon the duration of certain operating parameters.
54	High Temperature	This sub type is used for failures where the Electronic Control Unit calculates a high temperature condition based upon the duration of certain operating parameters.
55	Too Few Transitions	This sub type is used for failures where the Electronic Control Unit monitors a parameter over time within specified limits and detects fewer than the expected number of transitions.

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
56	Too Many Transitions	This sub type is used for failures where the Electronic Control Unit monitors a parameter over time within specified limits and detects more than the expected number of transitions.
57	-	Currently not used.
58	Performance	This sub type is used for failures where the Electronic Control Unit does not see the expected change to a parameter or group of parameters in response to a particular event.
59	Protection Time-Out	This sub type is used for failures where the Electronic Control Unit detects a function is active for greater than a specified time period.
5A	Not Plausible	This sub type is used for failures where the Electronic Control Unit compares two or more input parameters for plausibility.
5B	-	Currently not used.
5C	-	Currently not used.
5D	-	Currently not used.
5E	-	Currently not used.
5F	-	Currently not used.
(60-6F) Mechanical Failures This category includes faults detected by inappropriate motion in response to an Electronic Control Unit controlled output.		
60	-	Currently not used.
61	Stuck	This sub type is used for failures where the Electronic Control Unit does not detect any motion in response to energizing a motor, solenoid, relay, etc.
62	Stuck Open	This sub type is used for failures where the Electronic Control Unit does not detect any motion upon commanding the operation of a motor, solenoid, relay, etc., to close some piece of equipment.
63	Stuck Closed	This sub type is used for failures where the Electronic Control Unit does not detect any motion upon commanding the operation of a motor, solenoid, relay, etc., to open some piece of equipment.
64	Slip Detected	This sub type is used for failures where the Electronic Control Unit detects excessive duration to command a motor, solenoid, relay, etc., to move a piece of equipment to a desired position.

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
65	Emergency Position Not Achievable	This sub type is used for failures where the Electronic Control Unit is unable to command a motor, solenoid, relay, etc., to move a piece of equipment to the emergency position.
66	Incorrect Mounting	This sub type is used for failures where the server detects incorrectly mounted components, for example, acceleration sensor showing a position error of 90Â°.
67	Incorrect Assembly	This sub type is used for failures where the control module has detected that the component has been incorrectly installed (for example, hydraulic pipes crossed over, circuits cross wired) or polarity errors.
68	-	Currently not used.
69	-	Currently not used.
6A	-	Currently not used.
6B	-	Currently not used.
6C	-	Currently not used.
6D	-	Currently not used.
6E	-	Currently not used.
6F	-	Currently not used.
(70-7F) 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 Electronic Control Unit and another Electronic Control Unit diagnoses the circuit.		
70	-	Currently not used.
71	Invalid Data	This sub type is used by the Electronic Control Unit to indicate a signal was received with the corresponding validity bit equal to Invalid or post processing of the signal determines it is invalid.
72	Message Counter Incorrect	This sub type is used by the Electronic Control Unit to indicate a signal was received without the corresponding rolling count value being properly updated.
73	Parity Error	This sub type is used by the Electronic Control Unit to indicate a message was processed with an incorrect parity calculation.
74	Bus Signal Checksum Error	This sub type is used by the Electronic Control Unit to indicate a message was processed with an incorrect protection (checksum)

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Symptom Byte	Symptom Byte Description	Symptom Byte Definition
		calculation.
75	Serial Data Link High Input	This sub type is used for failures where some circuit quantity, reported via serial data, is above a specified range.
76	Serial Data Link Low Input	This sub type is used for failures where some circuit quantity, reported via serial data, is below a specified range.
77	-	Currently not used.
78	-	Currently not used.
79	-	Currently not used.
7A	-	Currently not used.
7B	-	Currently not used.
7C	-	Currently not used.
7D	-	Currently not used.
7E	-	Currently not used.
7F	Bus Signal Erratic	This sub type is used for failures where the signal, reported via serial data, is momentarily implausible or discontinuous.
(80-FF) Reserved Unique System Specific - See specific diagnostic procedures for symptom byte information if these symptom bytes are used.		

SYMPTOMS - VEHICLE

Body Hardware and Trim

Symptoms-Instrument Panel and Console Trim

Body Repair

- **Symptoms - Bolted Exterior Body Panels and Closures**
- **Symptoms - Active Grille Air Shutter**
- **Symptoms - Power Assist Steps**

Body Systems

- **Symptoms - Adjustable Pedals**
- **Symptoms - Fixed and Moveable Windows**

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- 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 - Front Drive Axle
- Symptoms - Propeller Shaft
- Symptoms - Locking/Limited Slip Rear Axle
- Symptoms - Rear Drive Axle
- Symptoms - Wheel Drive Shafts

Driver Information and Entertainment

- Symptoms - Cellular Communication
- Symptoms - Entertainment
- Symptoms - Displays and Gauges
- Symptoms - Secondary and Configurable Customer Controls

Engine

- Symptoms - Engine Electrical
- Symptoms - Cruise Control
- Symptoms - Engine Controls - 4.8L, 5.3L, 6.0L, 6.2L, or 7.0L
- Symptoms - Engine Controls - 5.3L (L83) or 6.2L (L86 LT1 LT4)
- Symptoms - Engine Cooling

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- Symptoms - Engine Mechanical
- Symptoms - Engine Exhaust

General Information

Symptoms - Vibration Diagnosis and Correction

HVAC

Symptoms - HVAC Systems - Automatic

Power and Signal Distribution

- Symptoms - Data Communications
- Symptoms - Mobile Device Wireless Charger
- Symptoms - Power Outlets
- Symptoms - Wiring Systems

Roof

Symptoms - Roof

Safety and Security

- Symptoms - Immobilizer
- Symptoms - Object Detection
- Symptoms - Remote Functions
- Symptoms - Seat Belts
- Symptoms - SIR
- Symptoms - Theft Deterrent

Seats

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

Steering

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- **Symptoms - Power Steering System**
- **Symptoms - Steering Wheel and Column**
- **Symptoms - Automatic Level Control**

Suspension

- **Symptoms - Suspension General Diagnosis**
- **Symptoms - Tire Pressure Monitoring**

Transmission/Transaxle

- **Symptoms - Automatic Transmission** - 6L45/6L50/6L80/6L90
- **Symptoms - Automatic Transmission** - 8L90 transmission
- **Symptoms - Automatic Transmission Shift Lock Control**
- **Symptoms - Transfer Case** - MP 3010-NP0
- **Symptoms - Transfer Case** - MP 3023/3024-NQH

ENGINE DOES NOT CRANK

Refer to the appropriate diagnostic procedure below for the symptom observed.

- **Starter Solenoid Does Not Click**
- **Starter Solenoid Clicks, Engine Does Not Crank**
- **Engine Cranks Slowly**

ENGINE CRANKS BUT DOES NOT RUN

Refer to the appropriate diagnostic procedure below for the vehicle being serviced.

- **Engine Cranks But Does Not Run** - 4.8L, 5.3L, 6.0L, 6.2L, or 7.0L engine
- **Engine Cranks But Does Not Run** - 5.3L (L83) or 6.2L (L86 LT1 LT4) engine

INSPECTION/MAINTENANCE SYSTEM CHECK

Refer to the appropriate diagnostic procedure below for the vehicle being serviced.

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- **Inspection/Maintenance System Check** - 4.8L, 5.3L, 6.0L, 6.2L, or 7.0L engine
- **Inspection/Maintenance System Check** - 5.3L (L83) or 6.2L (L86 LT1 LT4) engine

DIAGNOSTIC REPAIR VERIFICATION

NOTE: **After a repair has been made, some DTCs require the ignition to be turned Off and then back On before the scan tool function will clear the DTC.**

1. Ignition/Vehicle Off
2. Install any components or connectors that have been removed or replaced during diagnosis.
3. Perform any adjustment, programming or setup procedures that are required when a component or module is removed or replaced.
4. Ignition On/Vehicle In Service Mode
5. Clear the DTCs.
6. Ignition/Vehicle Off - For greater than 60 s
7. Perform the Circuit/System Verification and verify the result ends with an All OK. - If available

   or

   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 set.If the DTC sets or another DTC is present, refer to **Diagnostic Trouble Code (DTC) List - Vehicle**

   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 or another symptom is present, refer to **Symptoms - Vehicle**

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