

2014 GENERAL INFORMATION

Vehicle Diagnostic Information - Diagnostic Information and Procedures - Acadia, Enclave And Traverse

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

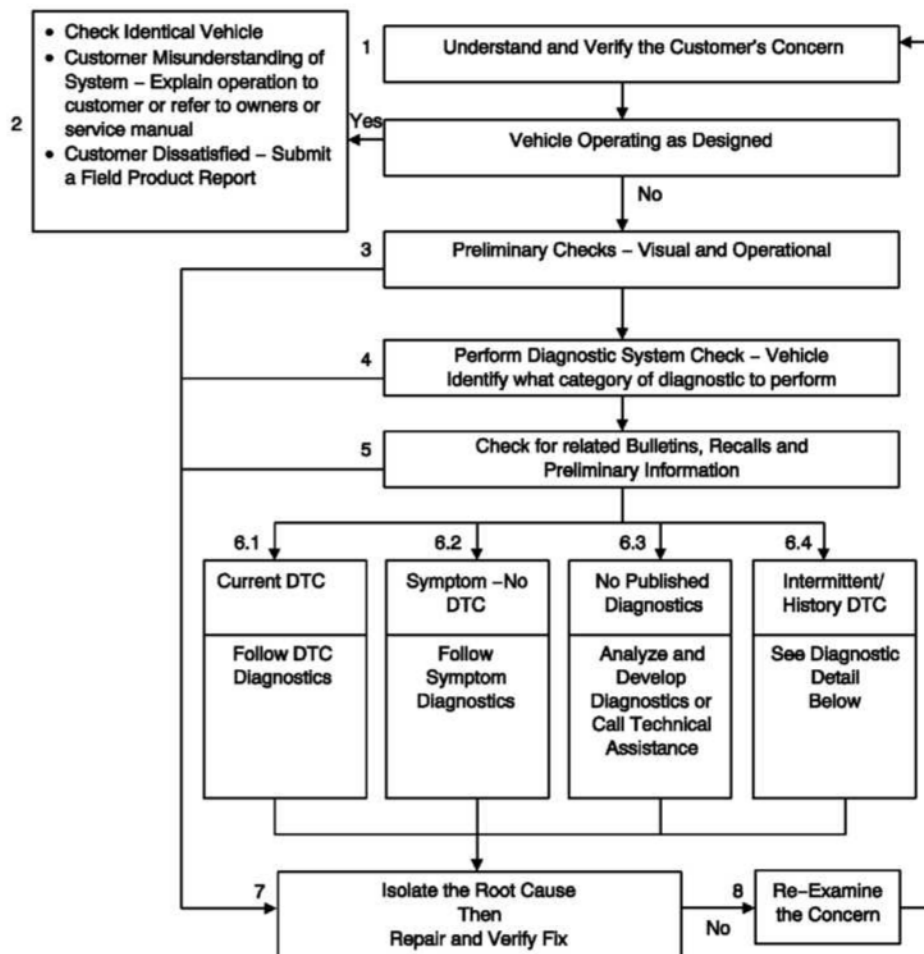


Fig. 1: Strategy Based Diagnosis Flow Chart

Courtesy of GENERAL MOTORS COMPANY

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. 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 on the **Customer Concern Verification Sheets**.
 - Follow the suggestions on **Testing for Intermittent Conditions and Poor Connections**.
 - Use the available scan tool, digital multi-meter or **J-42598-B** vehicle data recorder with data capturing capabilities.
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 overview of instructions for all 16 categories which may be included in a diagnostic procedure.

Diagnostic Instructions

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

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

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

DTC Descriptor

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

Diagnostic Fault Information

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

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

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

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

Typical Scan Tool Data

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

An example table from an ECT procedure:

ECT Sensor Temperature - PCM

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

Circuit/System Description

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

Conditions for Running the DTC

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

Conditions for Setting the DTC

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

Action Taken When the DTC Sets

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

Conditions for Clearing the DTC

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

Diagnostic Aids

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

Reference Information

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

For example:

- Schematic Reference
- Connector End View Reference
- Description and Operation

- Electrical Information Reference
- DTC Type Reference
- Scan Tool Reference
- Special Tools Required

Circuit/System Verification

The diagnostic format does not force a technician to any of the 3 diagnostic categories (Circuit/System Verification, Circuit/System Testing and Component Testing). However, performing the Circuit/System Verification category first, aids in determining if a vehicle condition is current. Some diagnostic categories may state that another category must be performed first when there are testing dependencies.

This category also serves to route the technician to other diagnostic procedures which should be performed first; for example, a DTC with a higher priority.

NOTE: Any diagnostic step that asks if a DTC is set is referring 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. This verification is used to assist the technician in determining whether a condition is current or intermittent. When a condition is determined to be intermittent, a technician can use the link in Electrical Information Reference: **Testing for Intermittent Conditions and Poor Connections** for additional testing information.

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

To assist the technician in identifying a common part a component code is used. These codes are not translated so they will always be the same even though the part name may have slight variance. The component codes will always be the same once assigned to a unique part name and will be found on the schematics and in the diagnostic procedure categories Circuit/System Verification, Circuit/System Testing and Component Testing categories.

Component Codes

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 (WSS)-Left Front
- B5RF Wheel Speed Sensor (WSS)-Right Front

- B5LR Wheel Speed Sensor (WSS)-Left Rear
- B5RR Wheel Speed Sensor (WSS)-Right Rear

B5 is the base code for the wheel speed sensor and the LF, RF, LR and RR indicate the on vehicle location.

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: Ignition OFF, disconnect the harness connector at the appropriate 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.

Where the diagnostic states "the appropriate" it is up to the technician to identify which component is being diagnosed by the symptom stated on the RO (drivers door lock is inoperative) or by the DTC descriptor (DTC C0585 04: Left Rear Actuator Circuit Open).

Circuit/System Testing

The diagnostic format does not force a technician to any of the 3 diagnostic categories (Circuit/System Verification, Circuit/System Testing and Component Testing). However, beginning with the Circuit/System Verification category aids in determining if a vehicle condition is current. Some diagnostic categories may state that another category must be performed first when there are testing dependencies.

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 achieved, the normal flow is to proceed to the next numbered test step (indicated by the down pass arrow). If the result of a numbered test step is NOT achieved, the right repair arrow bullet below the failed test will identify what actions need to take place.

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

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

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

Component Testing

The diagnostic format does not force a technician to any of the 3 diagnostic categories (Circuit/System Verification, Circuit/System Testing and Component Testing). However, beginning with the Circuit/System Verification category aids in determining if a vehicle condition is current. Some diagnostic categories may state that another category must be performed first when there are testing dependencies.

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

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

Repair Instructions

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

All links to Repair or Replacement procedures are located here.

Repair Verification

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

DIAGNOSTIC 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 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** 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 connections/connectors are fully seated. 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 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 powermode 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 powermode master and back-up powermode master would have to be inoperable, however, if the vehicle does not power up, a link to **Power Mode Mismatch** 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 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
 - 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 POWERMODE 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 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** 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
- 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

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.
- **Diagnostic System Check Instructions** provides 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 12V 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** .
- 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 connections/connectors for the area of concern are fully seated. 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.
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**.
4. VEHICLE POWER UP VERIFICATION-Ignition ON, verify the vehicle powers up.
 - If the vehicle does not power up, refer to **Power Mode Mismatch** .
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:

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.**

- 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** .
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**.
 7. CONTROL MODULE COMMUNICATION VERIFICATION-Verify the vehicle is built with any control module listed as not communicating, refer to **Data Link References** . All control modules should be communicating, as equipped.
 - If the scan tool does not communicate with one or more control modules refer to **Data Link**

References .

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**.
9. POWER MODE VERIFICATION-Driver door open, observe the scan tool Power Mode parameter while cycling the ignition switch through all the power modes. Verify the current Power Mode parameter matches the actual ignition switch positions.

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.**

- If the Power Mode parameter does not match the actual ignition switch positions, refer to **Power Mode Mismatch**.
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**.
 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**.
 1. Voltage DTCs
 2. Programming, Setup, Configuration or Software Performance DTCs
 3. Component related DTCs
 4. System related DTCs
 5. Any remaining DTCs
 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**.
 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 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% of the previous test that failed.
 - The engine speed is within 375 RPM of the previous test that failed.
 - The engine coolant temperature is in the same range of the previous test that failed.

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

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

Non-Emissions Related DTCs**Action Taken When the DTC Sets - Type C**

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

Conditions for Clearing the DTC - Type C

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

DIAGNOSTIC TROUBLE CODE (DTC) LIST - VEHICLE

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

Diagnostic Trouble Code (DTC) List - Vehicle

DTC	Diagnostic Procedure
B0000	Cellular, Entertainment and Navigation - <u>DTC B0000</u>
B0005	Wiring Systems and Power Management - <u>DTC B0005</u>
B0010	Object Detection and Pedestrian Protection - <u>DTC B0010</u>
B0012	Supplemental Inflatable Restraints - <u>DTC B0012 or B0013</u>
B0013	Supplemental Inflatable Restraints - <u>DTC B0012 or B0013</u>
B0014	Supplemental Inflatable Restraints - <u>DTC B001E, B0014, B0021, B0031 or B0038</u>
B0015	Supplemental Inflatable Restraints - <u>DTC B0015, B001A, B001B or B0022</u>
B0016	Supplemental Inflatable Restraints - <u>DTC B0016, B0018, B0023 or B0025</u>
B0019	Supplemental Inflatable Restraints - <u>DTC B0019 or B0020</u>
B001A	Supplemental Inflatable Restraints - <u>DTC B001A or B001B</u>
B001A	Supplemental Inflatable Restraints - <u>DTC B0015, B001A, B001B or B0022</u>
B001B	Supplemental Inflatable Restraints - <u>DTC B001A or B001B</u>
B001B	Supplemental Inflatable Restraints - <u>DTC B0015, B001A, B001B or B0022</u>
B001E	Supplemental Inflatable Restraints - <u>DTC B001E, B0014, B0021, B0031 or B0038</u>
B0020	Supplemental Inflatable Restraints - <u>DTC B0019 or B0020</u>
B0021	Supplemental Inflatable Restraints - <u>DTC B001E, B0014, B0021, B0031 or B0038</u>
B0022	Supplemental Inflatable Restraints - <u>DTC B0015, B001A, B001B or B0022</u>
B0023	Supplemental Inflatable Restraints - <u>DTC B0016, B0018, B0023 or B0025</u>
B0052	Supplemental Inflatable Restraints - <u>DTC B0052</u>
B0074	Supplemental Inflatable Restraints - <u>DTC B0074</u>
B0081	Supplemental Inflatable Restraints - <u>DTC B0081</u>
B0083	Supplemental Inflatable Restraints - <u>DTC B0083 or B0084</u>

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B0084	Supplemental Inflatable Restraints - <u>DTC B0083 or B0084</u>
B0085	Supplemental Inflatable Restraints - <u>DTC B0085 or B0088</u>
B0086	Supplemental Inflatable Restraints - <u>DTC B0086 or B0087</u>
B0087	Supplemental Inflatable Restraints - <u>DTC B0086 or B0087</u>
B0088	Supplemental Inflatable Restraints - <u>DTC B0085 or B0088</u>
B0158	HVAC - Automatic - <u>DTC B0158</u>
B0158	HVAC - Manual - <u>DTC B0158</u>
B0163	HVAC - Automatic - <u>DTC B0163</u>
B0173	HVAC - Automatic - <u>DTC B0173, B0178, B0509 or B0514</u>
B0178	HVAC - Automatic - <u>DTC B0173, B0178, B0509 or B0514</u>
B0183	HVAC - Automatic - <u>DTC B0183 or B0188</u>
B0188	HVAC - Automatic - <u>DTC B0183 or B0188</u>
B0228	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>
B0228	HVAC - Manual - <u>DTC B0228, B0413, B0433, B3779 or B3782</u>
B0283	Fixed and Moveable Windows - <u>DTC B0283</u>
B0413	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>
B0413	HVAC - Manual - <u>DTC B0228, B0413, B0433, B3779 or B3782</u>
B0423	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>
B0433	HVAC - Manual - <u>DTC B0228, B0413, B0433, B3779 or B3782</u>
B0433	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>
B0509	HVAC - Automatic - <u>DTC B0173, B0178, B0509 or B0514</u>
B0514	HVAC - Automatic - <u>DTC B0173, B0178, B0509 or B0514</u>
B094B	Object Detection and Pedestrian Protection - <u>DTC B094B or B094C</u>
B094C	Object Detection and Pedestrian Protection - <u>DTC B094B or B094C</u>
B094D	Object Detection and Pedestrian Protection - <u>DTC B094D or B094E</u>
B094E	Object Detection and Pedestrian Protection - <u>DTC B094D or B094E</u>
B0958	Object Detection and Pedestrian Protection - <u>DTC B0958, B0959, B0960 or B0961</u>
B0959	Object Detection and Pedestrian Protection - <u>DTC B0958, B0959, B0960 or B0961</u>
B0960	Object Detection and Pedestrian Protection - <u>DTC B0958, B0959, B0960 or B0961</u>
B0961	Object Detection and Pedestrian Protection - <u>DTC B0958, B0959, B0960 or B0961</u>
B0987	Object Detection and Pedestrian Protection - <u>DTC B0987</u>
B0996	Immobilizer - <u>DTC B0996</u>
B1000	Data Communications - <u>DTC B1000</u>
B1001	Data Communications - <u>DTC B1001</u>
B1001	Supplemental Inflatable Restraints - <u>DTC B1001 (Inflatable Restraint Sensing and Diagnostic Module) , DTC B1001 (Passenger Presence System)</u>
B1008	Remote Functions - <u>DTC B1008</u>
B1011	Object Detection and Pedestrian Protection - <u>DTC B1011</u>
B1015	Object Detection and Pedestrian Protection - <u>DTC B1015</u>
B1016	Data Communications - <u>DTC B1016</u>
B1019	Vehicle Access - <u>Liftgate Control Module - DTC B1019</u>

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B1019	Supplemental Inflatable Restraints - <u>DTC B1019</u>
B101D	Data Communications - <u>DTC B101D</u>
B101E	Data Communications - <u>DTC B101E</u>
B1023	Vehicle Access - <u>DTC B1023</u>
B1023	HVAC - Automatic - <u>DTC B1023</u>
B1023	HVAC - Manual - <u>DTC B1023</u>
B1025	Cellular, Entertainment and Navigation - <u>DTC B1025, B1035, B1045 or B1055</u>
B1035	Cellular, Entertainment and Navigation - <u>DTC B1025, B1035, B1045 or B1055</u>
B1045	Cellular, Entertainment and Navigation - <u>DTC B1025, B1035, B1045 or B1055</u>
B1055	Cellular, Entertainment and Navigation - <u>DTC B1025, B1035, B1045 or B1055</u>
B124F	Cellular, Entertainment and Navigation - <u>DTC B124F</u>
B1259	Cellular, Entertainment and Navigation - <u>DTC B1259</u>
B1287	Cellular, Entertainment and Navigation - <u>DTC B1287</u>
B1288	Cellular, Entertainment and Navigation - <u>DTC B1288</u>
B1289	Cellular, Entertainment and Navigation - <u>DTC B1289</u>
B1295	Secondary and Configurable Customer Controls - <u>DTC B1295</u>
B1325	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
B1330	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
B1335	Power Seats - <u>DTC B1335</u>
B1340	Power Seats - <u>DTC B1340</u>
B1370	Wiring Systems and Power Management - <u>DTC B1370-B1379, B1380-B1389 or B1440-B1443</u>
B1380	Wiring Systems and Power Management - <u>DTC B1370-B1379, B1380-B1389 or B1440-B1443</u>
B1395	Lighting - <u>DTC B1395</u>
B1395	Power Seats - <u>DTC B1395</u>
B1405	Object Detection and Pedestrian Protection - <u>DTC B1405</u>
B1420	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
B1424	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
B1428	Wiring Systems and Power Management - <u>DTC B1428</u>
B1433	Wiring Systems and Power Management - <u>DTC B1433</u>
B1440	Wiring Systems and Power Management - <u>DTC B1370-B1379, B1380-B1389 or B1440-B1443</u>
B1441	Wiring Systems and Power Management - <u>DTC B1370-B1379, B1380-B1389 or B1440-B1443</u>
B1449	Cellular, Entertainment and Navigation - <u>DTC B1449</u>
B1461	Lighting - <u>DTC B1461 or B1462</u>
B1462	Lighting - <u>DTC B1461 or B1462</u>

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B1475	Wiring Systems and Power Management - <u>DTC B1475</u>
B1516	12 V Starting and Charging - <u>DTC B1516</u>
B1517	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
B151A	12 V Starting and Charging - <u>DTC B151A</u>
B1527	12 V Starting and Charging - <u>DTC B1527</u>
B1529	Secondary and Configurable Customer Controls - <u>DTC B1529</u>
B153A	Vehicle Access - <u>Liftgate Latch Switches Malfunction - DTC B153A</u>
B153B	Vehicle Access - <u>Liftgate Full Open Switch Malfunction - DTC B153B</u>
B153E	Vehicle Access - <u>Liftgate Angle Sensor Malfunction - DTC B153E</u>
B153F	Vehicle Access - <u>Liftgate Object Sensor Malfunction - DTC B153F</u>
B1544	Mirrors - <u>DTC B1544, B1600 or B1605</u>
B1580	Mirrors - <u>DTC B1580 or B1590</u>
B1590	Mirrors - <u>DTC B1580 or B1590</u>
B1600	Mirrors - <u>DTC B1544, B1600 or B1605</u>
B1605	Mirrors - <u>DTC B1544, B1600 or B1605</u>
B1640	Mirrors - <u>DTC B1640</u>
B1722	Mirrors - <u>DTC B1722</u>
B1735	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1740	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1745	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1750	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1755	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1760	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1815	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1820	Power Seats - <u>DTC B1735, B1740, B1745, B1750, B1755, B1760, B1815 or B1820</u>
B1825	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>
B1850	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>
B1860	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>
B1925	Seat Heating and Cooling - <u>DTC B1925 or B2170 (Dealer Installed) , DTC B1925 or B2170 (With Memory A45 and KB6) , DTC B1925 or B2170 (With Memory A45, without KB6) , DTC B1925 or B2170 (Without Memory A45)</u>
B1935	Seat Heating and Cooling - <u>DTC B1935 or B2180 (Dealer Installed) , DTC B1935 or B2180 (With Memory A45) , DTC B1935 or B2180 (Without Memory A45)</u>
B2170	Seat Heating and Cooling - <u>DTC B1925 or B2170 (Dealer Installed) , DTC B1925 or B2170 (With Memory A45 and KB6) , DTC B1925 or B2170 (With Memory A45, without KB6) , DTC B1925 or B2170 (Without Memory A45)</u>
B2180	Seat Heating and Cooling - <u>DTC B1935 or B2180 (Dealer Installed) , DTC B1935 or B2180 (With Memory A45) , DTC B1935 or B2180 (Without Memory A45)</u>
B2345	Seat Heating and Cooling - <u>DTC B2345 (Dealer Installed) , DTC B2345 (With Memory A45) , DTC B2345 (Without Memory A45)</u>
B2355	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>

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B2365	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>
B2375	Power Seats - <u>DTC B1825, B1850, B1860, B2355, B2365 or B2375</u>
B2425	Seat Heating and Cooling - <u>DTC B2425 or B2430 (Dealer Installed) , DTC B2425 or B2430 (With Memory A45, without KB6) , DTC B2425 or B2430 (Without Memory A45) , DTC B2425 or B2430 (With Memory A45 and KB6)</u>
B2430	Seat Heating and Cooling - <u>DTC B2425 or B2430 (Dealer Installed) , DTC B2425 or B2430 (With Memory A45, without KB6) , DTC B2425 or B2430 (Without Memory A45) , DTC B2425 or B2430 (With Memory A45 and KB6)</u>
B2435	Seat Heating and Cooling - <u>DTC B2435 or B2440 (Dealer Installed) , DTC B2435 or B2440 (With Memory A45) , DTC B2435 or B2440 (Without Memory A45)</u>
B2440	Seat Heating and Cooling - <u>DTC B2435 or B2440 (Dealer Installed) , DTC B2435 or B2440 (With Memory A45) , DTC B2435 or B2440 (Without Memory A45)</u>
B2455	Cellular, Entertainment and Navigation - <u>DTC B2455</u>
B2462	Cellular, Entertainment and Navigation - <u>DTC B2462 (Communication Interface Module) , DTC B2462 (Navigation Radio)</u>
B2470	Cellular, Entertainment and Navigation - <u>DTC B2470</u>
B2474	Cellular, Entertainment and Navigation - <u>DTC B2474</u>
B2476	Cellular, Entertainment and Navigation - <u>DTC B2476 or B2482</u>
B2482	Cellular, Entertainment and Navigation - <u>DTC B2476 or B2482</u>
B2485	Cellular, Entertainment and Navigation - <u>DTC B2485</u>
B2494	Vehicle Access - Manual Liftgate - <u>DTC B2494 (Manual Liftgate)</u>
B2494	Vehicle Access - <u>Liftgate Handle Switch Malfunction - DTC B2494</u>
B2495	Vehicle Access - Manual Liftgate - <u>DTC B2495 (Manual Liftgate)</u>
B2495	Vehicle Access - <u>Liftgate Latch Release/Cinch Malfunction - DTC B2495</u>
B2508	Seat Heating and Cooling - <u>DTC B2508 or B2509 (With Memory A45) , DTC B2508 or B2509 (With Memory A45 and KB6) , DTC B2508 or B2509 (Dealer Installed) , DTC B2508 or B2509 (Without Memory A45)</u>
B2509	Seat Heating and Cooling - <u>DTC B2508 or B2509 (With Memory A45) , DTC B2508 or B2509 (With Memory A45 and KB6) , DTC B2508 or B2509 (Dealer Installed) , DTC B2508 or B2509 (Without Memory A45)</u>
B2530	Lighting - <u>DTC B2530</u>
B2540	Lighting - <u>DTC B2540</u>
B2545	Lighting - <u>DTC B2545</u>
B2575	Lighting - <u>DTC B2575</u>
B257A	Lighting - <u>DTC B257A</u>
B257C	Lighting - <u>DTC B257C</u>
B257D	Lighting - <u>DTC B257D</u>
B2580	Lighting - <u>DTC B2580</u>
B2585	Lighting - <u>DTC B2585</u>
B2600	Lighting - <u>DTC B2600</u>
B2605	Lighting - <u>DTC B2605</u>
B2610	Lighting - <u>DTC B2610</u>

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B2615	Lighting - <u>DTC B2615</u>
B2625	Lighting - <u>DTC B2625</u>
B2645	Lighting - <u>DTC B2645</u>
B2652	Lighting - <u>DTC B2652</u>
B2705	Shift Lock Control - <u>DTC B2705</u>
B2750	Horns - <u>DTC B2750</u>
B2850	Steering Wheel and Column - <u>DTC B2850, B2855, B2870 or B2875</u>
B2855	Steering Wheel and Column - <u>DTC B2850, B2855, B2870 or B2875</u>
B2860	Steering Wheel and Column - <u>DTC B2860 or B2880</u>
B2870	Steering Wheel and Column - <u>DTC B2850, B2855, B2870 or B2875</u>
B2875	Steering Wheel and Column - <u>DTC B2850, B2855, B2870 or B2875</u>
B2880	Steering Wheel and Column - <u>DTC B2860 or B2880</u>
B2890	Steering Wheel and Column - <u>DTC B2890</u>
B2976	Vehicle Access - <u>DTC B2976</u>
B302A	Immobilizer - <u>DTC B302A</u>
B3031	Immobilizer - <u>DTC B3031</u>
B3055	Immobilizer - <u>DTC B3055</u>
B3060	Immobilizer - <u>DTC B3060</u>
B3105	Remote Functions - <u>DTC B3105</u>
B3109	Remote Functions - <u>DTC B3109, B3110, B3111 or B3112</u>
B3110	Remote Functions - <u>DTC B3109, B3110, B3111 or B3112</u>
B3111	Remote Functions - <u>DTC B3109, B3110, B3111 or B3112</u>
B3112	Remote Functions - <u>DTC B3109, B3110, B3111 or B3112</u>
B3125	Vehicle Access - <u>DTC B3125, B3130 or B3135</u>
B3130	Vehicle Access - <u>DTC B3125, B3130 or B3135</u>
B3135	Vehicle Access - <u>DTC B3125, B3130 or B3135</u>
B3140	Vehicle Access - <u>DTC B3140, B3145, B3150 or B3155</u>
B3145	Vehicle Access - <u>DTC B3140, B3145, B3150 or B3155</u>
B3150	Vehicle Access - <u>DTC B3140, B3145, B3150 or B3155</u>
B3155	Vehicle Access - <u>DTC B3140, B3145, B3150 or B3155</u>
B3205	Fixed and Moveable Windows - <u>DTC B3205</u>
B320A	Fixed and Moveable Windows - <u>DTC B320A</u>
B3265	Vehicle Access - <u>DTC B3265</u>
B3445	Lighting - <u>DTC B3445</u>
B3567	Displays and Gauges - <u>DTC B3567</u>
B356A	Object Detection and Pedestrian Protection - <u>DTC B356A</u>
B3600	Lighting - <u>DTC B3600</u>
B3622	Secondary and Configurable Customer Controls - <u>DTC B3622</u>
B3715	Wipers and Washers - <u>DTC B3715</u>
B3779	HVAC - Manual - <u>DTC B0228, B0413, B0433, B3779 or B3782</u>
B3779	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>

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B3782	HVAC - Manual - <u>DTC B0228, B0413, B0433, B3779 or B3782</u>
B3782	HVAC - Automatic - <u>DTC B0228, B0413, B0423, B0433, B3779 or B3782</u>
B3794	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
B3819	Fixed and Moveable Windows - <u>DTC B3819, B3820, B3822 or B3823</u>
B3820	Fixed and Moveable Windows - <u>DTC B3819, B3820, B3822 or B3823</u>
B3821	Fixed and Moveable Windows - <u>DTC B3821 or B3824</u>
B3822	Fixed and Moveable Windows - <u>DTC B3819, B3820, B3822 or B3823</u>
B3823	Fixed and Moveable Windows - <u>DTC B3819, B3820, B3822 or B3823</u>
B3824	Fixed and Moveable Windows - <u>DTC B3821 or B3824</u>
B3873	Wipers and Washers - <u>DTC B3873</u>
B3875	Wipers and Washers - <u>DTC B3875</u>
B3920	Power Seats - <u>DTC B3920 or B3921</u>
B3921	Power Seats - <u>DTC B3920 or B3921</u>
B3922	Wipers and Washers - <u>DTC B3922</u>
B3933	HVAC - Automatic - <u>DTC B3933</u>
B3933	HVAC - Manual - <u>DTC B3933</u>
B3935	Immobilizer - <u>DTC B3935</u>
B396A	Vehicle Access - <u>Liftgate Motor Power Open/Close Malfunction - DTC B396A</u>
B396B	Vehicle Access - <u>Liftgate Motor Clutch Malfunction - DTC B396B</u>
B396C	Vehicle Access - <u>Liftgate Interior Release Open/Close Switch Malfunction - DTC B396C or B396D</u>
B396D	Vehicle Access - <u>Liftgate Interior Release Open/Close Switch Malfunction - DTC B396C or B396D</u>
B396F	Vehicle Access - <u>DTC B396F</u>
B3976	Immobilizer - <u>DTC B3976</u>
C0035	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0036	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0037	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0038	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0039	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0040	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0041	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0042	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0043	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0044	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0045	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0046	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0047	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0048	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0049	Anti-lock Brake System - <u>DTC C0035-C0050</u>

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C0050	Anti-lock Brake System - <u>DTC C0035-C0050</u>
C0110	Anti-lock Brake System - <u>DTC C0110</u>
C0131	Anti-lock Brake System - <u>DTC C0131</u>
C0161	Anti-lock Brake System - <u>DTC C0161</u>
C0186	Anti-lock Brake System - <u>DTC C0186, C0196 or C0287</u>
C0196	Anti-lock Brake System - <u>DTC C0186, C0196 or C0287</u>
C0201	Anti-lock Brake System - <u>DTC C0201</u>
C0242	Anti-lock Brake System - <u>DTC C0242 or P0856</u>
C0245	Anti-lock Brake System - <u>DTC C0245</u>
C0252	Anti-lock Brake System - <u>DTC C0252</u>
C0253	Anti-lock Brake System - <u>DTC C0253</u>
C0267	Hydraulic Brakes - <u>DTC C0267</u>
C0277	Lighting - <u>DTC C0277 or C0890</u>
C0287	Anti-lock Brake System - <u>DTC C0186, C0196 or C0287</u>
C0297	Lighting - <u>DTC C0297</u>
C0299	Hydraulic Brakes - <u>DTC C0299</u>
C0393	Rear Drive Axle - <u>DTC C0393</u>
C0394	Rear Drive Axle - <u>DTC C0394</u>
C0450	Power Steering - <u>DTC C0450</u>
C0550	Data Communications - <u>DTC C0550</u>
C0558	Rear Drive Axle - <u>DTC C0558</u>
C0561	Anti-lock Brake System - <u>DTC C0561</u>
C0561	Rear Drive Axle - <u>DTC C0561</u>
C0569	Anti-lock Brake System - <u>DTC C0569</u>
C0569	Tire Pressure Monitoring - <u>DTC C0569</u>
C0710	Anti-lock Brake System - <u>DTC C0710</u>
C0750	Tire Pressure Monitoring - <u>DTC C0750, C0755, C0760 or C0765</u>
C0755	Tire Pressure Monitoring - <u>DTC C0750, C0755, C0760 or C0765</u>
C0760	Tire Pressure Monitoring - <u>DTC C0750, C0755, C0760 or C0765</u>
C0765	Tire Pressure Monitoring - <u>DTC C0750, C0755, C0760 or C0765</u>
C0775	Tire Pressure Monitoring - <u>DTC C0775</u>
C0800	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
C0890	Lighting - <u>DTC C0277 or C0890</u>
C0895	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
C0899	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
C0900	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
C1100	Hydraulic Brakes - <u>DTC C1100</u>

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P0010	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P0011	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0011, P0014, P0021 or P0024</u>
P0013	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P0014	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0011, P0014, P0021 or P0024</u>
P0016	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0016, P0017, P0018 or P0019</u>
P0017	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0016, P0017, P0018 or P0019</u>
P0018	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0016, P0017, P0018 or P0019</u>
P0019	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0016, P0017, P0018 or P0019</u>
P0020	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P0021	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0011, P0014, P0021 or P0024</u>
P0023	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P0024	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0011, P0014, P0021 or P0024</u>
P0030	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0031	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0032	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0036	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0037	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0038	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0050	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0051	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0052	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0053	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0054	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0056	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0057	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0058	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-</u>

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	<u>P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0059	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0060	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0068	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0068 or P1101</u>
P0089	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0089, P00C6, P228C or P228D</u>
P0090	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P0091	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P0092	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P0096	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0096 or P0111</u>
P0097	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0097, P0098 or P0099</u>
P0098	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0097, P0098 or P0099</u>
P0099	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0097, P0098 or P0099</u>
P00C6	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0089, P00C6, P228C or P228D</u>
P00C8	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P00C9	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P00CA	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0090-P0092, P00C8, P00C9 or P00CA</u>
P00F4	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P00F4-P00F6</u>
P00F5	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P00F4-P00F6</u>
P00F6	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P00F4-P00F6</u>
P0101	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0101</u>
P0102	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0102 or P0103</u>
P0103	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0102 or P0103</u>
P0106	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0106</u>
P0107	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0107 or P0108</u>
P0108	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0107 or P0108</u>
P0111	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0096 or P0111</u>
P0112	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0112, P0113 or P0114</u>
P0113	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0112, P0113 or P0114</u>
P0114	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0112, P0113 or P0114</u>
P0116	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0116</u>
P0117	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0117 or P0118</u>
P0118	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0117 or P0118</u>
P0119	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0119</u>
P0121	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P0122	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P0123	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>

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P0128	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0128</u>
P0131	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0132	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0133	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P0134	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0135	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0137	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0138	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P013A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P013B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P013C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P013D	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P013E	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P013F	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P0140	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0141	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P014A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P014B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P0151	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0152	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0153	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P0154	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0030-P0032, P0036-P0038, P0050-</u>

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P0155	<u>P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0157	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0158	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P015A	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P015B	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P015C	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P015D	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P0160	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0131, P0132, P0134, P0137, P0138, P0140, P0151, P0152, P0154, P0157, P0158 or P0160</u>
P0161	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0030-P0032, P0036-P0038, P0050-P0054, P0056-P0060, P0135, P0141, P0155 or P0161</u>
P0171	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0171, P0172, P0174 or P0175</u>
P0172	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0171, P0172, P0174 or P0175</u>
P0174	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0171, P0172, P0174 or P0175</u>
P0175	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0171, P0172, P0174 or P0175</u>
P018B	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P018B-P018D (Chassis Control Module)</u>
P018C	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P018B-P018D (Chassis Control Module)</u>
P018D	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P018B-P018D (Chassis Control Module)</u>
P0191	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0191</u>
P0192	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0192 or P0193</u>
P0193	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0192 or P0193</u>
P0201	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0202	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0203	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0204	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0205	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205,</u>

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P0206	<u>P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0222	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P0223	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P0231	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0231, P0232 or P023F (Chassis Control Module)</u>
P0232	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0231, P0232 or P023F (Chassis Control Module)</u>
P023F	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0231, P0232 or P023F (Chassis Control Module)</u>
P025A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P025A (Chassis Control Module)</u>
P0261	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0262	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0264	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0265	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0267	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0268	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0270	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0271	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0273	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0274	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0201, P0202, P0203, P0204, P0205,</u>

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P0276	<u>P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0277	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276 or P0277</u>
P0300	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0301	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0302	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0303	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0304	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0305	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0306	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0300-P0306</u>
P0315	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0315</u>
P0324	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0324, P0326, P0331, P06B6 or P06B7</u>
P0325	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0326	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0324, P0326, P0331, P06B6 or P06B7</u>
P0327	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0328	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0330	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0331	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0324, P0326, P0331, P06B6 or P06B7</u>
P0332	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0333	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0325, P0327, P0328, P0330, P0332 or P0333</u>
P0335	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0335 or P0336</u>
P0336	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0335 or P0336</u>
P0340	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0341	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0345	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0346	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0351	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P0352	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
	<u>Engine Controls and Fuel - 3.6L (LLT) - DTC P0351-P0356, P2300, P2301, P2303,</u>

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P0353	<u>P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P0354	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P0355	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P0356	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P0365	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0366	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0390	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0391	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0340, P0341, P0345, P0346, P0365, P0366, P0390 or P0391</u>
P0420	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0420 or P0430</u>
P0430	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0420 or P0430</u>
P0442	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0442</u>
P0443	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0443, P0458 or P0459</u>
P0446	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0446</u>
P0449	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0449, P0498 or P0499</u>
P0451	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0451-P0454</u>
P0452	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0451-P0454</u>
P0453	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0451-P0454</u>
P0454	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0451-P0454</u>
P0455	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0455</u>
P0458	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0443, P0458 or P0459</u>
P0459	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0443, P0458 or P0459</u>
P0461	Displays and Gauges - <u>DTC P0461</u>
P0462	Displays and Gauges - <u>DTC P0462</u>
P0463	Displays and Gauges - <u>DTC P0463</u>
P0464	Displays and Gauges - <u>DTC P0464</u>
P0480	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0481	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0496	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0496</u>
P0498	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0449, P0498 or P0499</u>
P0499	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0449, P0498 or P0499</u>
P0506	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0506 or P0507</u>
P0507	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0506 or P0507</u>
P050D	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P050D</u>
P0513	Immobilizer - <u>DTC P0513</u>
P0520	Displays and Gauges - <u>DTC P0520</u>

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P0521	Displays and Gauges - <u>DTC P0521</u>
P0532	HVAC - Automatic - <u>DTC P0532 or P0533</u>
P0532	HVAC - Manual - <u>DTC P0532 or P0533</u>
P0533	HVAC - Automatic - <u>DTC P0532 or P0533</u>
P0533	HVAC - Manual - <u>DTC P0532 or P0533</u>
P0560	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
P0562	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
P0563	12 V Starting and Charging - <u>DTC B1325, B1330, B1420, B1424, B1517, C0800, C0895, C0899, C0900, P0560, P0562 or P0563</u>
P0564	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P0565	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P0567	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P0568	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P056C	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P0571	Cruise Control - <u>DTC P0571</u>
P0572	Cruise Control - <u>DTC P0572 or P0573</u>
P0573	Cruise Control - <u>DTC P0572 or P0573</u>
P0575	Cruise Control - <u>DTC P0575</u>
P057B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P057B-P057D</u>
P057C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P057B-P057D</u>
P057D	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P057B-P057D</u>
P0580	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P0581	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P05CC	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P05CC-P05CF</u>
P05CD	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P05CC-P05CF</u>
P05CE	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P05CC-P05CF</u>
P05CF	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P05CC-P05CF</u>
P0601	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P0601	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0601	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0601-P0604 or P062F</u>
P0602	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B,</u>

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	<u>P062F, P0630, P16F3 or P262B (ECM)</u>
P0602	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0602	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0601-P0604 or P062F</u>
P0603	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P0603	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0603	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0601-P0604 or P062F</u>
P0604	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P0604	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0604	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0601-P0604 or P062F</u>
P0605	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0606	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0606	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P060A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P0615	12 V Starting and Charging - <u>DTC P0615, P0616 or P0617</u>
P0616	12 V Starting and Charging - <u>DTC P0615, P0616 or P0617</u>
P0617	12 V Starting and Charging - <u>DTC P0615, P0616 or P0617</u>
P0621	12 V Starting and Charging - <u>DTC P0621</u>
P0622	12 V Starting and Charging - <u>DTC P0622</u>
P0625	12 V Starting and Charging - <u>DTC P0625 or P0626</u>
P0626	12 V Starting and Charging - <u>DTC P0625 or P0626</u>
P0628	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0628</u>
P062B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P062F	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0601-P0604 or P062F</u>
P062F	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P062F	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P0630	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P0633	Immobilizer - <u>DTC P0633</u>
P0634	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0634</u>
P0641	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0641 or P06A6 (Chassis Control Module)</u>

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P0641	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0641, P0651, P0697 or P06A3 (ECM)</u>
P0645	HVAC - Automatic - <u>DTC P0645, P0646 or P0647</u>
P0645	HVAC - Manual - <u>DTC P0645, P0646 or P0647</u>
P0646	HVAC - Automatic - <u>DTC P0645, P0646 or P0647</u>
P0646	HVAC - Manual - <u>DTC P0645, P0646 or P0647</u>
P0647	HVAC - Automatic - <u>DTC P0645, P0646 or P0647</u>
P0647	HVAC - Manual - <u>DTC P0645, P0646 or P0647</u>
P064A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1255 or P064A (Chassis Control Module)</u>
P0650	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0650, P263A or P263B</u>
P0651	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0641, P0651, P0697 or P06A3 (ECM)</u>
P0658	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0658 or P0659</u>
P0659	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0658 or P0659</u>
P0667	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0667, P0668 or P0669</u>
P0668	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0667, P0668 or P0669</u>
P0669	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0667, P0668 or P0669</u>
P0685	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P0686	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P0687	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P0689	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P0690	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P0691	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0692	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0693	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0694	Engine Heating and Cooling - <u>DTC P0480, P0481, P0691, P0692, P0693 or P0694</u>
P0697	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0641, P0651, P0697 or P06A3 (ECM)</u>
P069E	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P069E</u>
P06A3	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0641, P0651, P0697 or P06A3 (ECM)</u>
P06A6	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0641 or P06A6 (Chassis Control Module)</u>
P06AC	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P06AC-P06AE</u>
P06AD	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P06AC-P06AE</u>
P06AE	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P06AC-P06AE</u>
P06B6	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0324, P0326, P0331, P06B6 or P06B7</u>
P06B7	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0324, P0326, P0331, P06B6 or P06B7</u>
P0700	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0700</u>
P0703	Cruise Control - <u>DTC P0703</u>
P0711	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0711-P0713</u>
P0712	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0711-P0713</u>
P0713	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0711-P0713</u>

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P0716	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0716 or P0717</u>
P0717	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0716 or P0717</u>
P071A	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P071A</u>
P0722	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0722 or P0723</u>
P0723	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0722 or P0723</u>
P0741	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0741 or P0742</u>
P0742	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0741 or P0742</u>
P0751	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0751 or P0752</u>
P0752	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0751 or P0752</u>
P0756	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0756</u>
P0776	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0776 or P0777</u>
P0777	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0776 or P0777</u>
P0796	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0796 or P0797</u>
P0797	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0796 or P0797</u>
P0815	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0815, P0816 or P0826</u>
P0816	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0815, P0816 or P0826</u>
P0826	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0815, P0816 or P0826</u>
P0851	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0851</u>
P0856	Antilock Brake System - <u>DTC C0242 or P0856</u>
P0961	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0961-P0963</u>
P0962	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0961-P0963</u>
P0963	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0961-P0963</u>
P0965	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0965-P0967</u>
P0966	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0965-P0967</u>
P0967	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0965-P0967</u>
P0969	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0969-P0971</u>
P0970	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0969-P0971</u>
P0971	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0969-P0971</u>
P0973	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0973 or P0974</u>
P0974	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0973 or P0974</u>
P0976	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0976 or P0977</u>
P0977	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P0976 or P0977</u>
P1101	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0068 or P1101</u>
P1248	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P1249	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P124A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P124B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P124C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P124D	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1248-P124D</u>
P1255	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1255 or P064A (Chassis Control Module)</u>

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P1258	Engine Heating and Cooling - <u>DTC P1258</u>
P135A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P135A or P135B</u>
P135B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P135A or P135B</u>
P1400	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1400</u>
P150C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P150C</u>
P1516	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1516, P2101, P2119 or P2176</u>
P155A	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P155B	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P155C	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P1574	Lighting - <u>DTC P1574</u>
P1629	Immobilizer - <u>DTC P1629</u>
P162B	Immobilizer - <u>DTC P162B</u>
P162C	Cruise Control - <u>Cruise Control Malfunction - DTC B3794, P0564, P0565, P0567, P0568, P056C, P0580, P0581, P155A-P155C or P162C</u>
P1631	Immobilizer - <u>DTC P1631</u>
P163A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P163A</u>
P1668	12 V Starting and Charging - <u>DTC P1668</u>
P1682	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0685-P0687, P0689, P0690 or P1682</u>
P16A0	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P16A1	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P16A2	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P16F3	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P1761	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P1761</u>
P1762	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P1762</u>
P182E	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P182E or P1915</u>
P1876	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P1876</u>
P1915	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P182E or P1915</u>
P2088	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2089	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2090	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2091	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>

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P2092	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2093	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2094	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2095	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0010, P0013, P0020, P0023, P2088, P2089, P2090, P2091, P2092, P2093, P2094 or P2095</u>
P2096	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2096 or P2098</u>
P2097	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2097 or P2099</u>
P2098	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2096 or P2098</u>
P2099	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2097 or P2099</u>
P2101	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1516, P2101, P2119 or P2176</u>
P2119	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1516, P2101, P2119 or P2176</u>
P2122	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2122, P2123, P2127, P2128 or P2138</u>
P2123	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2122, P2123, P2127, P2128 or P2138</u>
P2127	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2122, P2123, P2127, P2128 or P2138</u>
P2128	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2122, P2123, P2127, P2128 or P2138</u>
P2135	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0121-P0123, P0222, P0223, P16A0-P16A2 or P2135</u>
P2138	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2122, P2123, P2127, P2128 or P2138</u>
P2147	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2148	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2150	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2151	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2153	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2154	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2156	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2157	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P216B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P216C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P216E	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>

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P216F	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E or P216F</u>
P2176	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P1516, P2101, P2119 or P2176</u>
P2199	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2199</u>
P219A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P219A or P219B</u>
P219B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P219A or P219B</u>
P2227	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2227-P2230</u>
P2228	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2227-P2230</u>
P2229	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2227-P2230</u>
P2230	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2227-P2230</u>
P2270	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P2271	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P2272	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P2273	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P015A-P015D or P2270-P2273</u>
P228C	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0089, P00C6, P228C or P228D</u>
P228D	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0089, P00C6, P228C or P228D</u>
P2300	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2301	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2303	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2304	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2306	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2307	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2309	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2310	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2312	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2313	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2315	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0351-P0356, P2300, P2301, P2303,</u>

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P2316	<u>P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315 or P2316</u>
P2534	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2534 or P2535 (Chassis Control Module)</u>
P2534	Wiring Systems and Power Management - <u>DTC P2534 or P2535</u>
P2535	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2534 or P2535 (Chassis Control Module)</u>
P2535	Wiring Systems and Power Management - <u>DTC P2534 or P2535</u>
P2537	Wiring Systems and Power Management - <u>DTC P2537</u>
P2544	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2544</u>
P258A	Hydraulic Brakes - <u>DTC P258A-P258D</u>
P258B	Hydraulic Brakes - <u>DTC P258A-P258D</u>
P258C	Hydraulic Brakes - <u>DTC P258A-P258D</u>
P258D	Hydraulic Brakes - <u>DTC P258A-P258D</u>
P262B	Engine Controls and Fuel - 3.6L (LLT) - Chassis Control Module - <u>DTC P0601-P0606, P060A, P062F or P262B (Chassis Control Module)</u>
P262B	Engine Controls and Fuel - 3.6L (LLT) - ECM - <u>DTC P0601-P0604, P0606, P062B, P062F, P0630, P16F3 or P262B (ECM)</u>
P2635	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P2635 (Chassis Control Module)</u>
P263A	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0650, P263A or P263B</u>
P263B	Engine Controls and Fuel - 3.6L (LLT) - <u>DTC P0650, P263A or P263B</u>
P2714	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2714 or P2715</u>
P2715	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2714 or P2715</u>
P2719	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2719-P2721</u>
P2720	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2719-P2721</u>
P2721	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2719-P2721</u>
P2723	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2723 or P2724</u>
P2724	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2723 or P2724</u>
P2728	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2728-P2730</u>
P2729	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2728-P2730</u>
P2730	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2728-P2730</u>
P2762	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2762, P2763 or P2764</u>
P2763	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2762, P2763 or P2764</u>
P2764	Automatic Transmission - 6T75 (M7V M7X) - <u>DTC P2762, P2763 or P2764</u>
U0020	Data Communications - <u>DTC U0020</u>
U0073	Data Communications - <u>DTC U0073 or U2100</u>
U0100- U02FF	Data Communications - <u>DTC U0100-U02FF</u>
U0400- U05FF	Data Communications - <u>DTC U0400-U05FF</u>
U1500	Data Communications - <u>DTC U1500, U1511, U1512 or U1513</u>
U1500- U15FF	Data Communications - <u>DTC U1500-U15FF</u>

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U1511	Data Communications - <u>DTC U1500, U1511, U1512 or U1513</u>
U1512	Data Communications - <u>DTC U1500, U1511, U1512 or U1513</u>
U1513	Data Communications - <u>DTC U1500, U1511, U1512 or U1513</u>
U1814	Data Communications - <u>DTC U1814</u>
U2099	Data Communications - <u>DTC U2099</u>
U2100	Data Communications - <u>DTC U0073 or U2100</u>
U2103	Data Communications - <u>DTC U2103</u>
U2105- U2199	Data Communications - <u>DTC U2105-U2199</u>

SYMPTOM BYTE LIST

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 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.

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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.
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.
		This sub type is used for failures where a temperature sensor with a negative

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14	High Voltage/Low Temperature	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.)
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

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		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).
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.
		This sub type is used by the Electronic Control

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32	General Memory Malfunction	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.
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.		

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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).
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.

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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.
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.
		This sub type is used for failures where the

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62	Stuck Open	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.
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 90°.
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.

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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) 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 Systems

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

Brakes

- Symptoms - Anti-lock Brake System
- Symptoms - Hydraulic Brakes
- Symptoms - Park Brake

Driveline/Axle

Symptoms - Rear Differential Carrier

Driver Information and Entertainment

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

Engine

- Symptoms - Cruise Control
- Symptoms - Engine Controls
- Symptoms - Engine Cooling
- Symptoms - Engine Electrical
- Symptoms - Engine Exhaust
- Symptoms - Engine Mechanical

General Information

Symptoms - Vibration Diagnosis and Correction

HVAC

- Symptoms - HVAC Systems - Automatic
- Symptoms - HVAC Systems - Manual

Power and Signal Distribution

- Symptoms - Data Communications
- Symptoms - Power Outlets
- Symptoms - Wiring Systems

Roof

Symptoms - Roof

Safety and Security

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

Seats

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

Steering**Symptoms - Power Steering System****Suspension**

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

Transmission

- Symptoms - Automatic Transmission
- Symptoms - Automatic Transmission Shift Lock Control
- Symptoms - Transfer Case

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 - 2.8L, 3.0L, 3.2L or 3.6L engine

INSPECTION/MAINTENANCE SYSTEM CHECK

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

Inspection/Maintenance System Check - 2.8L, 3.0L, 3.2L or 3.6L engine

DIAGNOSTIC REPAIR VERIFICATION

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

1. Ignition 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.
5. Clear the DTCs.
6. Turn the ignition OFF for 60 seconds.
7. 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 the **Diagnostic Trouble Code (DTC) List - Vehicle** and perform the appropriate diagnostic procedure.

Or

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