

## 2008 Chevrolet Silverado 1500

2008 ENGINE Cruise Control - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

### 2008 ENGINE

Cruise Control - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

## SCHEMATIC AND ROUTING DIAGRAMS

### CRUISE CONTROL SCHEMATICS

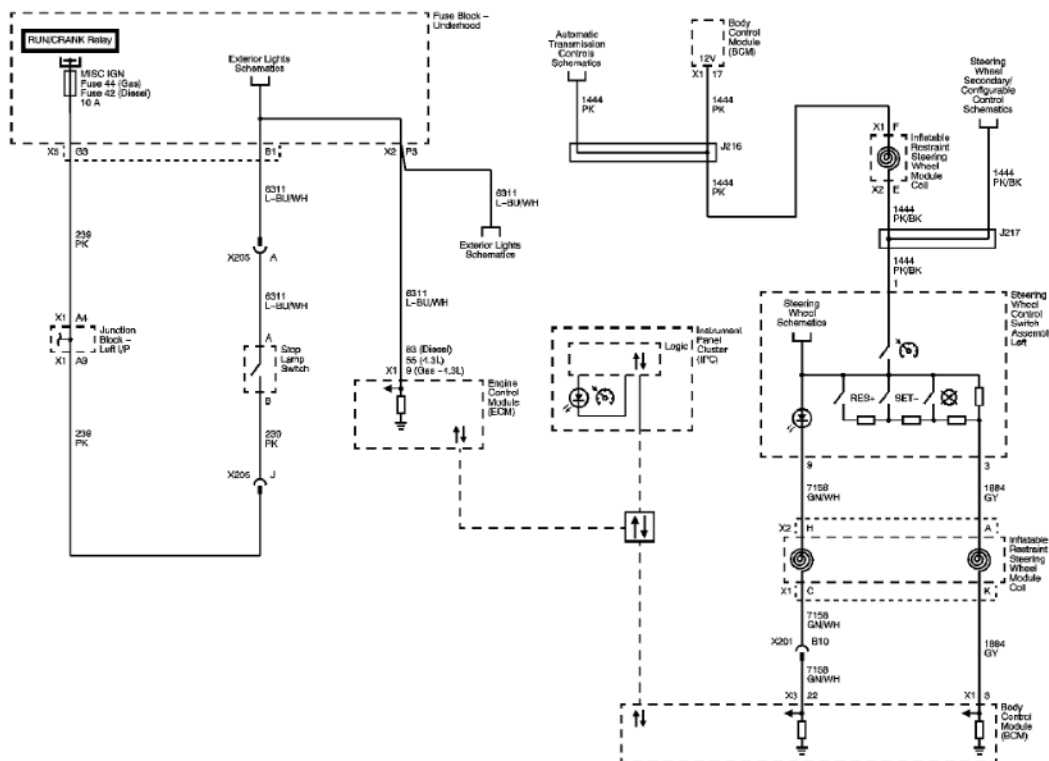


**Fig. 1: Cruise Control Schematic**  
Courtesy of GENERAL MOTORS CORP.

## DIAGNOSTIC INFORMATION AND PROCEDURES

### DIAGNOSTIC CODE INDEX

### DIAGNOSTIC CODE INDEX

| DTC              | Description                                                      |
|------------------|------------------------------------------------------------------|
| <b>DTC B3794</b> | B3794 08: Cruise Control Function Request Circuit Signal Invalid |
|                  | B3794 61: Cruise Control Function Request Circuit Actuator       |

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|                                  | Stuck                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------|
| <b><u>DTC B0835</u></b>          | B0835 00: Cruise Control System Active Indicator Circuit                                     |
| <b><u>DTC P0571</u></b>          | P0571 00: Cruise Control Brake Switch Circuit                                                |
| <b><u>DTC P0572 or P0573</u></b> | P0572 00: Brake Switch Circuit 1 Low Voltage<br>P0573 00: Brake Switch Circuit 1High Voltage |
| <b><u>DTC P0575</u></b>          | P0575 00: Cruise Control Switch Signal Circuit                                               |
| <b><u>DTC P0703</u></b>          | P0703: Brake Switch Circuit                                                                  |

### DIAGNOSTIC STARTING POINT - CRUISE CONTROL

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

- The identification of the control modules which command the system
- The ability of the control modules to communicate through the serial data circuit
- The identification of any stored DTCs and their status

The use of the Diagnostic System Check will identify the correct procedure for diagnosing the system and where the procedure is located.

### DTC B3794

#### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

#### DTC Descriptors

### DTC B3794 08

Cruise Control Function Request Circuit Signal Invalid

### DTC B3794 61

Cruise Control Function Request Circuit Actuator Stuck

#### Diagnostic Fault Information

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

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| Circuit                                      | Short to Ground | High Resistance | Open | Short to Voltage | Signal Performance   |
|----------------------------------------------|-----------------|-----------------|------|------------------|----------------------|
| Cruise Control Switch Supply Voltage         | 1               | B3794 08        | 1    | -                | B3794 08<br>B3794 61 |
| Cruise Control Switch Signal                 | 1               | B3794 08        | 1    | B3794 08         | B3794 08<br>B3794 61 |
| 1. Cruise Control Inoperative/Malfunctioning |                 |                 |      |                  |                      |

### Circuit/System Description

The body control module (BCM) supplies battery voltage to the cruise control switch. The cruise control switch signal is an input to the BCM. The BCM monitors the cruise control switch signal circuit in order to detect when the driver has requested to perform a cruise control function. The BCM detects a specific voltage signal on the cruise control switch signal circuit when a switch is applied.

### Conditions for Running the DTC

- The ignition is ON.
- The cruise switch is ON.

### Conditions for Setting the DTC

#### B3794 08

The BCM detects an invalid voltage signal on the cruise control switch signal circuit is present for 0.5 second.

#### B3794 61

The BCM detects an valid voltage signal on the cruise control switch signal circuit is present for greater 60 seconds.

### Action Taken When the DTC Sets

- The BCM stores the DTC information into memory when the diagnostic runs and fails.
- The malfunction indicator lamp (MIL) will not illuminate.
- The Cruise Control System is disabled.

### Conditions for Clearing the DTC

- The DTC becomes history when the conditions for setting the DTC are no longer present.

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- The history DTC clears after 100 malfunction-free warm-up cycles.

### Reference Information

### Schematic Reference

- Cruise Control Schematics
- Steering Wheel Secondary/Configurable Control Schematics

### Connector End View Reference

### Component Connector End Views

### Description and Operation

### Cruise Control Description and Operation

### Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

### Scan Tool Reference

### Control Module References for scan tool information

### Circuit/System Verification

Ignition ON, observe the scan tool Cruise Control Switch parameter in the BCM. While pressing each of the cruise control switches, the scan tool display should change to display the current switch being actuated.

### Circuit/System Testing

1. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Disconnect the harness connector at the cruise control switch.
3. Ignition ON, test for B+ between the supply circuit terminal 1 and ground.

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- If less than the specified range, test the supply circuit for a short to ground or an open/high resistance. If the circuit tests normal, replace the BCM.
- 4. Verify the scan tool Cruise Control Switch parameter is OFF.
  - If not the specified value, test the signal circuit terminal 3 for a short to voltage. If the circuit tests normal, replace the BCM.
- 5. Ignition OFF, connect the harness connector at the cruise control switch.
- 6. Ignition ON, cruise control switch ON, observe the scan tool Cruise Control Switch parameter. The parameter should display ON.
  - If not the specified value, test the signal circuit terminal 3 for a short to ground or an open/high resistance. If the circuit tests normal, test or replace the cruise control switch.
- 7. Observe the scan tool Cruise Control Switch parameter while pressing the RES + portion of the cruise control switch. The parameter should display Resume.
  - If not the specified value, test or replace the cruise control switch.
- 8. Observe the scan tool Cruise Control Switch parameter while pressing the SET - portion of the cruise control switch. The parameter should display Set.
  - If not the specified value, test or replace the cruise control switch.
- 9. Observe the scan tool Cruise Control Switch parameter while pressing the Cancel portion of the cruise control switch. The parameter should display Cancel.
  - If not the specified value, test or replace the cruise control switch.
- 10. If all circuits and the component test normal, replace the BCM.

### Component Testing

**IMPORTANT: The cruise control switch must be ON in order to properly measure the resistance of the -/SET, the +/RES, and the Cancel switches.**

1. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Remove the steering wheel cruise control switch. Refer to **Steering Wheel Control Switch Assembly Replacement** .
3. Connect a DMM between terminals 1 and 3 of the cruise control switch. Cruise control ON/OFF switch ON, measure the resistance while individually activating and holding each cruise control function switch and compare the resistance reading to the values in the table for the appropriate switch.

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- If any of the resistance measurements for the individual switches are not within the listed resistance values, replace the cruise control switch assembly.

| Function Switch | Minimum Resistance Value | Maximum Resistance Value |
|-----------------|--------------------------|--------------------------|
| OFF             | O.L.                     | O.L.                     |
| ON              | 6.6k Ohms                | 7.0k Ohms                |
| -/SET           | 2.1k Ohms                | 2.5k Ohms                |
| +/RES           | 3.6k Ohms                | 4.0k Ohms                |
| Cancel          | 1.3k Ohms                | 1.7k Ohms                |

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Steering Wheel Control Switch Assembly Replacement**
- **Control Module References** for BCM replacement, setup, and programming

### DTC B0835

#### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

#### DTC Descriptor

### DTC B0835 00

Cruise Control System Active Indicator Circuit

#### Diagnostic Fault Information

| Circuit                                  | Short to Ground | Open/High Resistance | Short to Voltage | Signal Performance |
|------------------------------------------|-----------------|----------------------|------------------|--------------------|
| Cruise Control Indicator Dimming Control | 1               | 2                    | B0835 00         | -                  |

1. Cruise Control Switch Indicator Dimming Inoperative

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### 2. Cruise Control Switch Indicator Inoperative

#### Circuit/System Description

The cruise control switch contains an LED that illuminates to indicate the cruise control system has been switched ON. Voltage is applied through the ON/OFF switch to the LED when the switch is pressed. The BCM provides the ground path for the LED through a dedicated dimming control circuit. Pressing the switch again opens the switch and the lamp turns OFF.

#### Conditions for Running the DTC

The ignition is ON.

#### Conditions for Setting the DTC

- The BCM detects excessive current in the cruise control indicator dimming signal circuit.
- The above condition is present for greater than 5 seconds.

#### Action Taken When the DTC Sets

- The BCM stores DTC B0835 in memory.
- The cruise control system becomes inoperative.

#### Conditions for Clearing the DTC

- The DTC becomes history when the conditions for setting the DTC are no longer present.
- The history DTC clears after 50 malfunction-free warm-up cycles.

#### Reference Information

#### Schematic Reference

#### Cruise Control Schematics

#### Connector End View Reference

#### Component Connector End Views

#### Description and Operation

#### Cruise Control Description and Operation

## Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

## Scan Tool Reference

**Control Module References** for scan tool information

### Circuit/System Verification

Ignition ON, observe the cruise control indicator while applying the cruise On/Off switch. The indicator should turn on and off accordingly with the applied switch.

### Circuit/System Testing

**CAUTION: Refer to SIR Caution .**

Disable the inflatable restraint steering wheel module when performing this diagnostic. Refer to **SIR Disabling and Enabling** .

1. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Disconnect the harness connector at the cruise control switch assembly.
3. Ignition ON, test for 0 volts between the cruise control harness connector terminal 9 and ground.
  - If voltage is present, test the circuit for a short to voltage.
4. If the circuit tests normal, replace the BCM.

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

**Control Module References** for BCM replacement, setup, and programming

DTC P0571

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### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

### DTC Descriptor

### DTC P0571 00

#### Cruise Control Brake Switch Circuit

### Diagnostic Fault Information

| Circuit             | Short to Ground | Open/High Resistance | Short to Voltage | Signal Performance |
|---------------------|-----------------|----------------------|------------------|--------------------|
| Brake Switch Signal | P0571           | P0571                | -                | P0571              |

### Circuit/System Description

The brake switch signal circuit is a high voltage input to the body control module (BCM), engine control module (ECM), transmission control module (TCM), Power Take Off (PTO) module (if equipped) and Trailer Brake controller (if equipped). The BCM monitors the stop lamp switch circuit to detect when the brake pedal has been applied. The ECM monitors the brake switch signal to determine when the brake pedal is applied. When the brake pedal is applied, the BCM sends a GMLAN serial data message to the ECM indicating that the brake pedal has been applied. The ECM senses a high voltage signal on the brake switch signal circuit when the stop lamp switch is closed.

### Conditions for Running the DTC

- The ignition is ON.
- The engine is running.
- Battery voltage is greater than 11.5 volts.

### Conditions for Setting the DTC

The ECM detects a low voltage signal on the brake switch signal circuit when the serial data message from the BCM indicates the brakes are applied.

### Action Taken When the DTC Sets

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- The cruise control system becomes inoperative.
- The ECM stores the DTC to memory.
- The ECM will record the operating conditions at the time the diagnostic failed. The ECM stores this information in Failure Records.

### Conditions for Clearing the DTC

- A last test failed, or the current DTC, clears when the diagnostic runs and does not fail.
- A history DTC clears after 40 consecutive warm-up cycles, if failures are not reported by this or any other emission related diagnostic.

### Diagnostic Aids

Ensure all the stop lamps operate properly. Refer to **Exterior Lighting Systems Description and Operation** to avoid misdiagnosis. If the vehicle stop lamps operate improperly, refer to **Symptoms - Lighting** .

### Reference Information

#### Schematic Reference

- **Cruise Control Schematics**
- **Exterior Lights Schematics**

#### Connector End View Reference

#### **Component Connector End Views**

#### Description and Operation

#### **Cruise Control Description and Operation**

#### Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

#### Scan Tool Reference

**Control Module References** for scan tool information**Circuit/System Testing**

1. Ignition OFF, disconnect the harness connector of the stop lamp switch.
2. Ignition ON, verify that a test lamp illuminates between the stop lamp switch voltage circuit terminal B and ground.
  - If the test lamp does not illuminate, test the stop lamp switch voltage circuit for a short to ground or an open/high resistance. If the circuit tests normal, test or replace the RUN/CRANK Relay.
3. Ignition OFF, disconnect the harness connectors of the BCM X5, ECM X1, TCM (if equipped), Power Take Off (PTO) module (if equipped) and Trailer Brake controller (if equipped).
4. Ignition OFF, verify that a test lamp does not illuminate between the stop lamp switch harness terminal A and B+.
  - If the test lamp illuminates, test the brake switch signal circuit for a short to ground.
5. Test for less than 1.0 ohm resistance between the stop lamp switch harness terminal A and one of the following:
  - ECM connector X1 terminal 83 for the 6.6L engine.
  - ECM connector X1 terminal 55 for the 4.3L engine.
  - ECM connector X1 terminal 9 for the 4.8L, 5.3L, 6.0L, 6.2L or 7.0L engines.
  - If resistance is not as specified, test the stop lamp switch circuit for an open/high resistance.
6. Ignition ON, verify that a test lamp does not illuminate between the stop lamp switch TCC brake signal circuit terminal A and ground.
  - If the test lamp illuminates, test the brake switch signal circuit for a short to voltage.
7. If all circuits test normal, test or replace the stop lamp switch. If the component and all circuit tests are normal, replace the ECM.

**Component Testing****Relay Test**

1. Ignition OFF, disconnect the RUN/CRANK relay.
2. Test for 60-180 ohms of resistance between terminals 85 and 86.
  - If the resistance is not within the specified range, replace the relay.
3. Test for infinite resistance between the following terminals:

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- 30 and 86
  - 30 and 87
  - 30 and 85
  - 85 and 87
  - If less than infinite resistance, replace the RUN/CRANK relay.
4. Install a 20-amp fused jumper wire between relay terminal 85 and 12 volts. Install a jumper wire between relay terminal 86 and ground. Test for less than 2.0 ohms of resistance between terminals 30 and 87.
- If greater than 2.0 ohms, replace the RUN/CRANK relay.

### Switch Test

1. Ignition OFF, disconnect the stop lamp switch.
2. With the brake pedal released, measure for infinite resistance between terminals A and B of the switch.
  - If resistance is measured, replace the switch.
3. With the brake pedal released, measure for less than 1.0 ohm resistance between terminals C and D of the switch.
  - If resistance is not as specified, replace the switch.
4. With the brake pedal applied, measure for less than 1.0 ohm resistance between terminals A and B of the switch.
  - If resistance is not as specified, replace the switch.
5. With the brake pedal applied, measure for infinite resistance between terminals C and D of the switch.
  - If resistance is measured, replace the switch.

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Stop Lamp Switch Replacement (Non-Adjustable Pedal)** or **Stop Lamp Switch Replacement (Adjustable Pedal)**
- **Control Module References** for ECM replacement, setup, and programming.

**DTC P0572 OR P0573**

**Diagnostic Instructions**

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- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

### DTC Descriptor

#### DTC P0572 00

Brake Switch Circuit 1 Low Voltage

#### DTC P0573 00

Brake Switch Circuit 1 High Voltage

### Diagnostic Fault Information

| Circuit            | Short to Ground | Open or High Resistance | Short to Voltage | Signal Performance |
|--------------------|-----------------|-------------------------|------------------|--------------------|
| Ignition 1 Voltage | P0572 00        | P0572 00                | -                | -                  |
| TCC Brake Signal   | P0572 00        | P0572 00                | P0573 00         | -                  |

### Circuit/System Description

The TCC Brake signal circuit is a high voltage input to the body control module (BCM), engine control module (ECM), transmission control module (TCM), Power Take Off (PTO) module (if equipped) and Trailer Brake controller (if equipped). The BCM monitors the stop lamp switch circuit to detect when the brake pedal has been applied. The ECM monitors the TCC Brake signal to determine when the brake pedal is applied. When the brake pedal is applied, the BCM sends a serial data message to the ECM indicating that the brake pedal has been applied. The ECM senses a high voltage signal on the brake switch signal circuit when the stop lamp switch is closed.

### Conditions for Running the DTC

- The engine is running.
- Battery voltage is greater than 11.5 volts.

### Conditions for Setting the DTC

P0572 00

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The ECM detects a low voltage signal on the TCC brake signal circuit for more than 2 seconds when the serial data message from the BCM indicates the brakes are applied. The ECM sets the DTC when the condition has been detected 8 out of 10 times.

**P0573 00**

The ECM detects a high voltage signal on the TCC brake signal circuit for more than 2 seconds when the serial data message from the BCM indicates the brakes are released. The ECM sets the DTC when the condition has been detected 8 out of 10 times.

### Action Taken When the DTC Sets

- The cruise control system becomes inoperative.
- The ECM stores the DTC to memory.
- The ECM will record the operating conditions at the time the diagnostic failed. The ECM stores this information in Failure Records.

### Conditions for Clearing the DTC

- The condition for setting the DTC no longer exists.
- A history DTC will clear once 40 malfunction-free ignition cycles have occurred.

### Diagnostic Aids

Ensure all the stop lamps operate properly. Refer to **Exterior Lighting Systems Description and Operation** to avoid misdiagnosis. If the vehicle stop lamps operate improperly, refer to **Symptoms - Lighting** .

### Reference Information

#### Schematic Reference

- **Cruise Control Schematics**
- **Exterior Lights Schematics**

#### Connector End View Reference

#### **Component Connector End Views**

#### Description and Operation

#### **Cruise Control Description and Operation**

## Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

## Scan Tool Reference

### **Control Module References** for scan tool information

#### **Circuit/System Testing**

1. Disconnect the harness connector of the stop lamp switch.
2. Ignition ON, test for B+ between the stop lamp switch connector terminal B and ground.
  - If the reading is less than specified, test the supply circuit for a short to ground or an open/high resistance.
3. Verify the BPP Circuit Signal data parameter displays released.
  - If the parameter displays applied, test the TCC Brake signal circuit for a short to voltage. If the circuit tests normal, replace the ECM.
4. Connect a 3 amp fused jumper between stop lamp switch harness terminals A and B. Verify the BPP Circuit Signal data parameter displays applied.
  - If the parameter displays released, test the TCC Brake Signal circuit for a short to ground or an open/high resistance. If the circuit tests normal, replace the ECM.
5. If all circuits test normal, test or replace the stop lamp switch.

#### **Component Testing**

### **Stop Lamp Switch Test**

1. Ignition OFF, disconnect the stop lamp switch.
2. With the brake pedal released, test for infinite resistance between terminals A and B of the switch.
  - If resistance is not as specified, replace the stop lamp switch.
3. With the brake pedal released, test for less than 1.0 ohm resistance between terminals C and D of the switch.
  - If resistance is not as specified, replace the stop lamp switch.
4. With the brake pedal applied, test for less than 1.0 ohm resistance between terminals A and

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B of the switch.

- If resistance is not as specified, replace the stop lamp switch.

5. With the brake pedal applied, test for infinite resistance between terminals C and D of the switch.

- If resistance is not as specified, replace the stop lamp switch.

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Stop Lamp Switch Replacement (Non-Adjustable Pedal)** or **Stop Lamp Switch Replacement (Adjustable Pedal)**
- **Control Module References** for ECM replacement, setup, and programming.

### DTC P0575

#### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

#### DTC Descriptor

### DTC P0575 00

#### Cruise Control Switch Signal Circuit

#### Circuit/System Description

When a cruise control function switch is activated, the body control module (BCM) detects a predetermined voltage signal. The BCM sends a serial data message to the engine control module (ECM) indicating the function that has been requested.

#### Conditions for Running the DTC

The ignition is ON.

#### Conditions for Setting the DTC

- The ECM receives an invalid cruise control switch status serial data message from the BCM.

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- This diagnostic runs continuously.

### Action Taken When the DTC Sets

- The Cruise Control System is disabled.
- The ECM stores the DTC information into memory when the diagnostic runs and fails.
- The malfunction indicator lamp (MIL) will not illuminate.
- The ECM records the operating conditions at the time the diagnostic fails. The ECM stores this information in the Failure Records.

### Conditions for Clearing the DTC

- The DTC becomes history when the conditions for setting the DTC are no longer present.
- The history DTC clears after 40 consecutive warm-up cycles.

### Reference Information

#### Schematic Reference

#### Cruise Control Schematics

#### Connector End View Reference

#### Component Connector End Views

#### Description and Operation

#### Cruise Control Description and Operation

#### Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

#### Scan Tool Reference

#### Control Module References for scan tool information

#### Circuit/System Verification

**IMPORTANT:**

- This DTC may be stored as a history DTC without affecting the operation of the BCM. If stored only as a history DTC and not retrieved as a current DTC, do not replace the BCM or ECM.
- Using the Failure Records data may help locate an intermittent condition. If you cannot duplicate the DTC, the information in the Failure Records can help determine how many miles since the DTC set. The Fail Counter and Pass Counter can help determine how many ignition cycles that the diagnostic test reported a pass and/or a fail.

1. Verify that B3794 is not set as current.
    - If B3794 is set as current, refer to **DTC B3794**.
  2. Road test the vehicle and attempt to engage cruise. Verify that cruise control engages properly and that DTC P0575 is not set.
    - If the cruise control system does not operate properly and DTC P0575 is not set, refer to **Cruise Control Malfunction**.
- If DTC P0575 sets as current, replace the BCM. Clear the DTC and road test the vehicle and attempt to engage cruise. If DTC P0575 resets as current, replace the ECM.

**Repair Procedures**

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

**Control Module References** for BCM or ECM replacement, setup, and programming

**DTC P0703****Diagnostic Instructions**

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

**DTC Descriptor****DTC P0703**

Brake Switch Circuit

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### Circuit/System Description

The body control module (BCM) monitors the stop lamp switch, mounted on the brake pedal. The BCM sends a GMLAN serial data message to the engine control module (ECM) indicating the status of the stop lamp switch.

### Conditions for Running the DTC

The engine is ON.

### Conditions for Setting the DTC

- The ECM receives an invalid brake pedal status GMLAN serial data message from the BCM.
- This diagnostic runs continuously.

### Action Taken When the DTC Sets

- The Cruise Control System is disabled.
- The ECM stores the DTC information into memory when this diagnostic runs and fails.
- The malfunction indicator lamp (MIL) will not illuminate.
- All of the scan tool cruise control function switch parameters are set to Off.

### Conditions for Clearing the DTC

- A last test failed, or the current DTC, clears when the diagnostic runs and does not fail.
- A history DTC clears after 40 consecutive warm-up cycles, if failures are not reported by this or any other emission related diagnostic.
- Use the scan tool in order to clear the DTC.

### Diagnostic Aids

Ensure all the stop lamps operate properly. Refer to **Exterior Lighting Systems Description and Operation** to avoid misdiagnosis. If the vehicle stop lamps operate improperly, refer to **Symptoms - Lighting** .

### Reference Information

### Schematic Reference

- **Cruise Control Schematics**
- **Exterior Lights Schematics**

## Connector End View Reference

### Component Connector End Views

## Description and Operation

### Cruise Control Description and Operation

## Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

## Scan Tool Reference

### Control Module References for scan tool information

## Circuit/System Testing

**IMPORTANT:** Repair any Brake System related DTCs before using this diagnostic.

**IMPORTANT:** This DTC may be stored as a history DTC without affecting the operation of the BCM. Do not replace the BCM if this DTC is stored only as a history DTC and is not retrieved as a current DTC.

1. Verify proper operation of the vehicle stop lamps. refer to Exterior Lighting Systems Description and Operation .
  - If the vehicle stop lamps do not operate as described, refer to Symptoms - Lighting .
2. Ignition ON, press and release the brake pedal several times. With a scan tool, verify DTC P0703 is not set as current in the ECM.
  - If DTC P0703 is current in the ECM, replace the BCM.
3. The system is OK. Clear the history DTC. Do not replace any components.

## Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

**Control Module References** for BCM replacement, setup, and programming

## **SYMPTOMS - CRUISE CONTROL**

**IMPORTANT: The following steps must be completed before using the symptom tables.**

1. Before using the symptom diagnostic table, perform the **Diagnostic System Check - Vehicle** , in order to verify the following conditions:
  - There are no DTCs set.
  - The module can communicate via the serial data link.
2. Review the system operation in order to understand the system functions. Refer to **Cruise Control Description and Operation**.

### **Visual/Physical Inspection**

- Inspect for aftermarket devices which can affect the operation of the cruise control system. Refer to **Checking Aftermarket Accessories** .
- Inspect the accessible system components or the visible system components for obvious damage or for obvious conditions which can cause the symptom.

### **Intermittent**

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to **Testing for Intermittent Conditions and Poor Connections** .

### **Symptom List**

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- **Cruise Control Malfunction**
- **Cruise Control Indicator Malfunction (Switch Indicator Malfunction)** or **Cruise Control Indicator Malfunction (IPC Indicator Malfunction)**

## **CRUISE CONTROL INDICATOR MALFUNCTION (SWITCH INDICATOR MALFUNCTION)**

### **Diagnostic Instructions**

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- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

### Diagnostic Fault Information

| Circuit                                                                                                 | Short to Ground | High Resistance | Open | Short to Voltage | Signal Performance |
|---------------------------------------------------------------------------------------------------------|-----------------|-----------------|------|------------------|--------------------|
| Cruise Control Switch Supply Voltage                                                                    | 1               | 1               | 1    | -                | -                  |
| Cruise Control Indicator Dimming Control                                                                | 3               | 2               | 2    | 2                | -                  |
| 1. Cruise Control Inoperative<br>2. Indicator Lamp Inoperative<br>3. Indicator Lamp Dimming Inoperative |                 |                 |      |                  |                    |

### Circuit/System Description

The cruise control switch contains an LED that illuminates to indicate the cruise control system has been switched ON. Voltage is applied through the ON/OFF switch to the LED when the switch is pressed. The BCM provides the ground path for the LED through a dedicated dimming control circuit. Pressing the switch again opens the switch and the lamp turns OFF.

### Diagnostic Aids

This diagnostic assumes the cruise control system is operating properly and no DTCs are set. If the cruise control system is malfunctioning, refer to **Cruise Control Malfunction**.

If any DTCs are set, refer to **Diagnostic Trouble Code (DTC) List - Vehicle**.

### Reference Information

### Schematic Reference

### Cruise Control Schematics

### Connector End View Reference

### Component Connector End Views

## Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

## Scan Tool Reference

**Control Module References** for scan tool information

### Circuit/System Verification

Engine ON, press and release the cruise control ON/OFF switch while observing the Cruise On/Off Switch parameter in the ECM data list with a scan tool. The parameter should change and the indicator lamp should turn ON or OFF accordingly each time the switch is actuated.

### Circuit/System Testing

**CAUTION: Refer to SIR Caution .**

Disable the inflatable restraint steering wheel module when performing this diagnostic. Refer to **SIR Disabling and Enabling** .

1. Ignition ON, with a scan tool observe the Cruise On/Off Switch parameter. Verify the parameter changes each time the switch is actuated
  - If the parameter reads ON at all times replace the cruise control switch.
2. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
3. Disconnect the harness connector at the cruise control switch assembly.
4. Ignition ON, test for 0 volts between the cruise control harness connector terminal 9 and ground.
  - If voltage is present, test the circuit for a short to voltage.
5. Ignition OFF, disconnect the X3 connector at the BCM.
6. Test for less than 1.0 ohm between the cruise control harness connector terminal 9 and the BCM connector X3 terminal 22.
  - If greater than the specified value, test the circuit for an open or high resistance.

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7. Test for infinite resistance between the cruise control harness connector terminal 9 and ground.
  - If resistance is measured, test the circuit for a short to ground.
8. If all circuits test normal, test the component. If the circuits and component tests are normal, replace the BCM.

### Component Testing

**CAUTION: Refer to SIR Caution .**

Disable the inflatable restraint steering wheel module when performing this diagnostic. Refer to **SIR Disabling and Enabling** .

**IMPORTANT: The cruise control switch must be ON in order to properly test the switch indicator.**

1. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Remove the steering wheel cruise control switch. Refer to **Steering Wheel Control Switch Assembly Replacement** .
3. Turn the cruise control switch ON. Connect a DMM positive lead to terminal 1 and the negative lead to terminal 9 of the cruise control switch and measure the resistance. Verify the meter reading indicates continuity.
  - If the reading indicates an open circuit, replace the cruise control switch assembly.
4. Connect the DMM positive lead to terminal 9 and the negative lead to terminal 1 of the cruise control switch and measure the resistance. Verify the meter reading indicates an open circuit.
  - If the reading is not as specified, replace the cruise control switch assembly.

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Steering Wheel Control Switch Assembly Replacement**
- **Control Module References** for BCM replacement, setup, and programming

**CRUISE CONTROL INDICATOR MALFUNCTION (IPC INDICATOR MALFUNCTION)**

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### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

### Circuit/System Description

The instrument panel cluster (IPC) illuminates the cruise control engaged indicator based on serial data messages received from the engine control module (ECM) or the powertrain control module (PCM). The indicator is commanded ON when the cruise control system is controlling vehicle speed, and turned OFF with the system disengaged.

### Diagnostic Aids

- This diagnostic assumes the cruise control system is functioning normally and there are no DTCs set. If the cruise control system is malfunctioning, refer to **Cruise Control Malfunction**.
- If any DTCs are set, refer to **Diagnostic Trouble Code (DTC) List - Vehicle** .

### Reference Information

#### Schematic Reference

- **Cruise Control Schematics**
- **Instrument Cluster Schematics**

#### Connector End View Reference

#### **Component Connector End Views**

#### Description and Operation

- **Cruise Control Description and Operation**
- **Indicator/Warning Message Description and Operation**

#### Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**

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- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

### Scan Tool Reference

**Control Module References** for scan tool information

### Circuit/System Verification

Ignition ON, perform the IPC display test using a scan tool. Verify the indicator illuminates and turns OFF.

- If the indicator does not operate as expected during this test, replace the IPC.
- If the indicator functions normally during this test, replace the ECM/PCM.

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

**Control Module References** for ECM, PCM or IPC replacement, setup and programming

### CRUISE CONTROL MALFUNCTION

#### Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

#### Circuit/System Description

The body control module (BCM) supplies battery voltage to the cruise control switch. The cruise control switch signal is an input to the BCM. The BCM monitors the cruise control switch signal circuit in order to detect when the driver has requested to perform a cruise control function. The BCM detects a specific voltage signal on the cruise control switch signal circuit when a switch is applied.

#### Conditions for Enabling Cruise Control

- The vehicle speed is greater than 40 km/h (25 mph).
- The vehicle is not in PARK, REVERSE, NEUTRAL, or 1st gear.

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- The system voltage is within 9-16 volts.
- The park brake or brakes are not applied.

### Diagnostic Aids

**IMPORTANT: Repair any brake system related symptoms and DTCs before performing this diagnostic.**

In order to avoid misdiagnosis, inspect for the following:

- Verify there are no DTCs set as current. If any DTCs are set as current, refer to **Diagnostic Trouble Code (DTC) List - Vehicle** and perform the appropriate diagnostics/repairs before proceeding with symptom based diagnostics.
- Inspect the cruise control switches for any sticking or binding conditions.
- Inspect for proper operation of the stop lamps. Refer to **Exterior Lighting Systems Description and Operation** .
- With the ignition ON, rotate the steering wheel to both steering stops while activating each cruise control switch separately. With a scan tool, observe all cruise control switch parameters in the BCM. Ensure that each cruise control switch activates and that each of the displayed switch position parameters match the currently activated switch, and do not read Error. This may aid in locating an intermittent fault within the inflatable restraint steering wheel module coil.

### Reference Information

#### Schematic Reference

- **Cruise Control Schematics**
- **Steering Wheel Secondary/Configurable Control Schematics**

#### Connector End View Reference

#### **Component Connector End Views**

#### Description and Operation

#### **Cruise Control Description and Operation**

#### Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

## Scan Tool Reference

**Control Module References** for scan tool information

### Circuit/System Verification

Ignition ON, cruise on/off switch ON. With a scan tool, observe the scan tool Cruise Control Switch parameter in the BCM. While pressing each of the cruise control switches, the scan tool display should change to display the current switch being actuated. Road test the vehicle to ensure the cruise control system functions as described in **Cruise Control Description and Operation**.

### Circuit/System Testing

1. Ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Disconnect the harness connector at the cruise control switch.
3. Ignition ON, test for B+ between the supply circuit terminal 1 and ground.
  - If less than the specified range, test the supply circuit for a short to ground or an open/high resistance. If the circuit tests normal, replace the BCM.
4. Verify the scan tool Cruise Control Switch parameter is OFF.
  - If not the specified value, test the signal circuit terminal 3 for a short to voltage. If the circuit tests normal, replace the BCM.
5. Ignition OFF, connect the harness connector at the cruise control switch.
6. Ignition ON, cruise control switch ON, observe the scan tool Cruise Control Switch parameter. The parameter should display ON.
  - If not the specified value, test the signal circuit terminal 3 for a short to ground or an open/high resistance. If the circuit tests normal, test or replace the cruise control switch.
7. Observe the scan tool Cruise Control Switch parameter while pressing the RES + portion of the cruise control switch. The parameter should display Resume.
  - If not the specified value, test or replace the cruise control switch.
8. Observe the scan tool Cruise Control Switch parameter while pressing the SET - portion of

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the cruise control switch. The parameter should display Set.

- If not the specified value, test or replace the cruise control switch.

9. Observe the scan tool Cruise Control Switch parameter while pressing the Cancel portion of the cruise control switch. The parameter should display Cancel.

- If not the specified value, test or replace the cruise control switch.

10. If all circuits and the component test normal, replace the BCM.

### Component Testing

**IMPORTANT: The cruise control switch must be ON in order to properly measure the resistance of the - /SET, the +/RES, and the Cancel switches.**

1. With the ignition OFF, remove the inflatable restraint steering wheel module. Refer to **Inflatable Restraint Steering Wheel Module Replacement** .
2. Remove the steering wheel cruise control switch. Refer to **Steering Wheel Control Switch Assembly Replacement** .
3. Connect a DMM between terminals 1 and 3 of the cruise control switch. Cruise control ON/OFF switch ON, measure the resistance while individually activating and holding each cruise control function switch and compare the resistance reading to the values in the table for the appropriate switch.
  - If any of the resistance measurements for the individual switches are not within the listed resistance values, replace the cruise control switch assembly.

| Function Switch | Minimum Resistance Value | Maximum Resistance Value |
|-----------------|--------------------------|--------------------------|
| OFF             | O.L.                     | O.L.                     |
| ON              | 6.6k Ohms                | 7.0k Ohms                |
| -/SET           | 2.1k Ohms                | 2.5k Ohms                |
| +/RES           | 3.6k Ohms                | 4.0k Ohms                |
| Cancel          | 1.3k Ohms                | 1.7k Ohms                |

### Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Steering Wheel Control Switch Assembly Replacement**
- **Control Module References** for BCM replacement, setup, and programming

## DESCRIPTION AND OPERATION

### CRUISE CONTROL DESCRIPTION AND OPERATION

Cruise control is a speed control system that maintains a desired vehicle speed under normal driving conditions at speeds above 40 km/h (25 mph). Steep grades may cause variations in the selected vehicle speeds.

The following are the main components of the Cruise Control System:

- The accelerator pedal
- The stop lamp switch
- The body control module (BCM)
- The cruise control switches
- The engine control module (ECM)
- The throttle actuator control (TAC) motor
- The vehicle speed sensor (VSS)

#### Cruise Control Engaged

The Cruise Control System will engage and adjust vehicle speeds, based on the activation of the following cruise control switches, which are located on the steering wheel:

- The on/off switch
- The + RES switch
- The - SET switch

The body control module (BCM) monitors the signal circuit of the cruise control switches. The BCM relays the cruise control switch status to the engine control module (ECM) via the GMLAN serial data circuit. The ECM uses the status of the cruise control switch to determine when to capture and maintain the vehicle speed. The ECM monitors the vehicle speed signal circuit in order to determine the desired vehicle speed. The ECM uses the throttle actuator control (TAC) motor in order to maintain the vehicle speed. For further information on the TAC System, refer to **Throttle Actuator Control (TAC) System Description** for the 4.3L engine or **Throttle Actuator Control (TAC) System Description** for the 4.8L, 5.3L, 6.0L, 6.2L or 7.0L engines.

Voltage is supplied to the cruise control switch via the steering wheel control switch reference voltage circuit supplied by the BCM. The cruise control function switches are arranged in a resistive ladder design, with each cruise control function switch having a different resistance

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value. The BCM detects a specific voltage value that is associated with the cruise control function switch being activated. When the normally open cruise control on/off switch is turned ON, the switch closes and the BCM supplies a ground to the cruise control switch ON indicator circuit as it becomes illuminated. The BCM sends a GMLAN serial data message to the ECM indicating that the on/off switch is active. Similarly, when the normally open + RES switch or the normally open - SET switch are pressed, the switch closes and the BCM detects the predetermined voltage signal on the cruise control set/coast and resume/accel switch signal circuit. The BCM sends a GMLAN serial data message to the ECM indicating that the + RES switch or the - SET switch is active. To engage the Cruise Control System, ensure that the vehicle speed is above 40.2 km/h (25 mph), turn the cruise On/Off switch ON and momentarily press the - SET switch. The ECM will engage the Cruise Control System and record the vehicle speed. The ECM sends a GMLAN serial data message to the driver information center (DIC) in order to illuminate the CRUISE SET TO ### message. The ECM sends a GMLAN serial data message to the instrument panel cluster (IPC) in order to illuminate the Cruise Engaged indicator in the IPC. The - SET switch and the + RES switch will remain inactive when the BCM has not received the predetermined voltage signal from the on/off switch. Pressing the accelerator pedal, while the Cruise Control System is engaged, will allow the driver to override the Cruise Control System in order to accelerate the vehicle beyond the current set vehicle speed. When the accelerator pedal is released, the vehicle will decelerate and resume the current set vehicle speed. The driver can also override the current set vehicle speed via the - SET switch and the + RES switch. When the Cruise Control System is engaged, pressing and holding the - SET switch will allow the vehicle to decelerate from the current set vehicle speed without deactivating the Cruise Control System. When the - SET switch is released, the ECM will record the vehicle speed and maintain the vehicle speed as the new set vehicle speed. When the Cruise Control System is engaged, momentarily pressing the - SET switch will allow the vehicle to decelerate at 1.6 km/h (1 mph) increments for each time that the - SET is momentarily pressed, with a minimum vehicle speed of 37 km/h (23 mph). Pressing and holding the + RES switch, when the Cruise Control System is engaged, will allow the vehicle to accelerate to a greater vehicle speed than the current set vehicle speed. When the + RES switch is released, the ECM will record the vehicle speed and maintain the vehicle speed as the new set vehicle speed. When the Cruise Control System is engaged, momentarily pressing the + RES switch will allow the vehicle to accelerate at 1.6 km/h (1 mph) increments for each time that the + RES switch is momentarily pressed, with the maximum acceleration total of 16 km/h (10 mph) over the current set vehicle speed. Momentarily activating the + RES switch will recall the previous vehicle speed, after the cruise control system is disengaged by pressing the brake pedal or by activating the CANCEL switch.

### Cruise Control Disengaged

The engine control module (ECM) disengages the cruise control operation based on the signals from the following switches:

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- The stop lamp switch
- The cruise control On/Off switch
- The cruise control cancel switch

The body control module (BCM) determines when the cruise control cancel switch is activated. When the normally open cancel switch is closed, the BCM detects the predetermined voltage signal on the cruise control function switch circuit. The BCM sends a GMLAN serial data message to the ECM in order to disengage the cruise control system.

The stop lamp switch is mounted on the brake pedal bracket. When the brake pedal is applied, the normally open stop lamp switch closes. The ECM monitors the stop lamp signal circuit through a discrete input and a GMLAN serial data message signal from the BCM indicating the brake status. When both signals indicate the brake pedal is applied, the ECM will disengage the cruise control system.

The Cruise Control System will disengage when the cruise control on/off switch is switched OFF. The vehicle speed stored in the memory of the engine control module will be erased when the cruise control On/Off switch is turned OFF, or the ignition switch is turned OFF.

The Cruise Control System will disengage when the ECM detects that a driver override function has been active for approximately 60 seconds. When the Cruise Control System has been disengaged, the ECM sends a GMLAN serial message to the instrument panel cluster (IPC) in order to turn OFF the Cruise Engaged indicator, and to the driver information center (DIC) in order to turn OFF the CRUISE SET TO ### message.

Each time the Cruise Control System is disengaged, the ECM will keep track of the reason for system disengagement. The last 8 disengagement reasons will be recorded within the ECM memory, and can be viewed with a scan tool.

### **Cruise Control Inhibited**

The engine control module (ECM) inhibits the cruise control operation when any of the following conditions exist:

- The ECM has not detected a brake pedal activation from the body control module (BCM).
- A Cruise Control System DTC has been set.
- The vehicle speed is less than 40.2 km/h (25 mph).
- The vehicle speed is too high.
- The vehicle is in PARK, REVERSE, NEUTRAL, or 1st gear.

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- The engine RPM is too low.
- The engine RPM is too high.
- The system voltage is not between 9-16 volts.
- The Antilock Brake System (ABS)/Traction Control System (TCS) is active for more than 2 seconds.