Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2015 CHEVROLET Silverado 2500 HD Crew Cab OEM Service and Repair Workshop Manual

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3397 Passenger Outside Rearview Mirror Motor Up [+] Down [-] Control

3397_YE/VT 3397 YE/VT

CAV_1 1

3398 Passenger Outside Rearview Mirror Motor Common Control

3397_YE/VT 3397 YE/VT

3397_YE/VT 3397 YE/VT

3397_YE/VT 3397 YE/VT

CAV_44 44

CAV_38 38

CAV_38 38

CAV_4 4

CAV_4 4

CAV_43 43

3397_OG/BK 3397 OG/BK

CAV_9 9

G311 G311

G311 (1 of 2)

G311 (2 of 2)

G311 and G325

F18DL F18DL 10A

X51L Fuse Block - Instrument Panel Left Bussing

F16DL, F17DL, F18DL, F28DL and F29DL

X51L Fuse Block - Instrument Panel Left Top View

X500 X500

Driver Door Harness Routing

Body Harness Routing - Left Front of Passenger Compartment

X500 Driver Door Harness to Body Harness

X505 X505

Driver Door Harness Routing

Circuit/System Testing

1. **NOTE**

   Note

   It may take up to 2 min for all vehicle systems to power down before an accurate ground or low reference circuit continuity test can be performed.

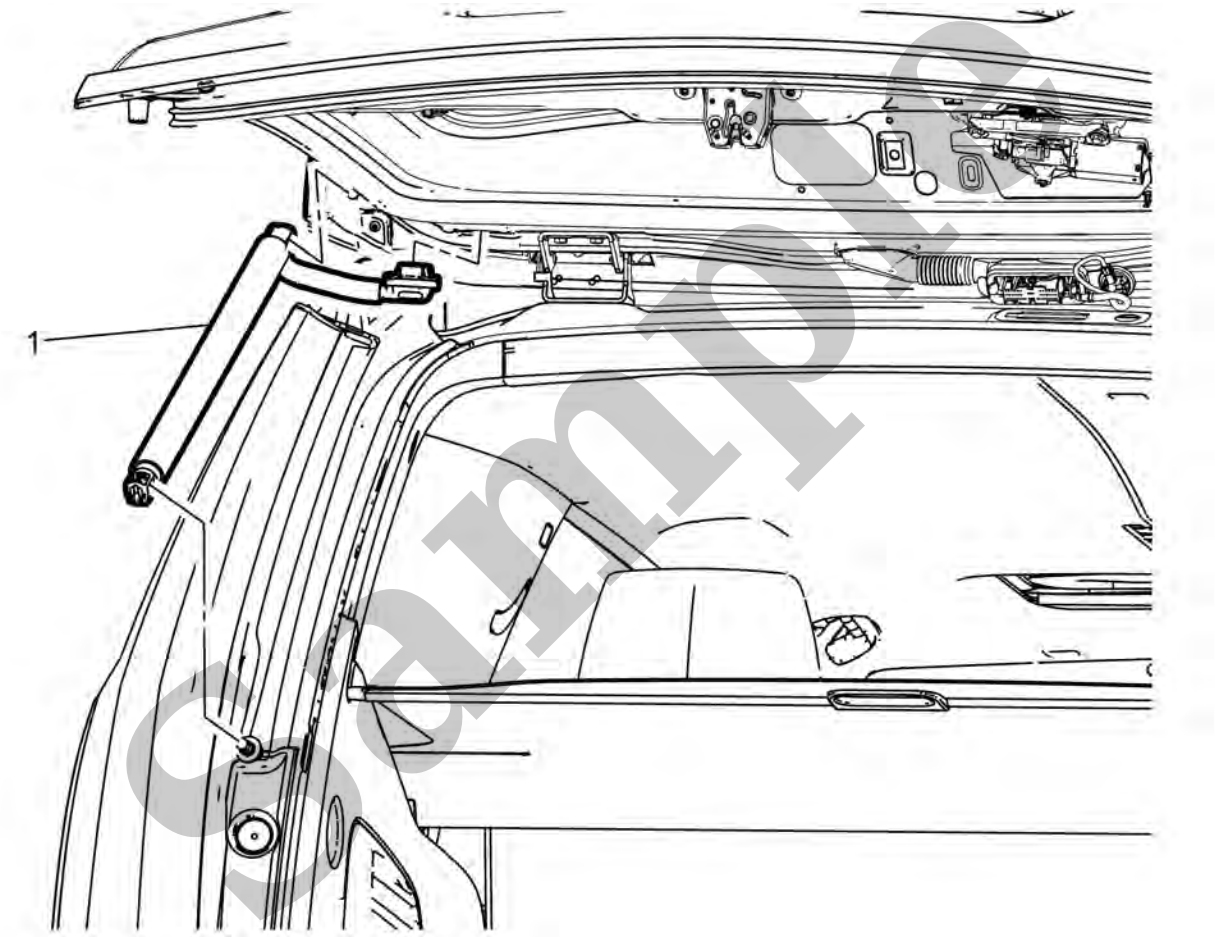
   Ignition/Vehicle & All vehicle systems » Off

2. Disconnect the electrical connector:S46 Liftgate Handle Switch
3. Test for less than 10 Ω between the test points:Low Reference circuit terminal 1&Ground
   - **If 10 Ω or greater**
     1. Disconnect the electrical connector:K39 Liftgate Control Module
     2. Test for less than 2 Ω between the test points:Low Reference circuit terminal 1@Component harness&Terminal 16 X1@Control module harness
        - If 2 Ω or greater » Repair the open/high resistance in the circuit.
        - If less than 2 Ω » Replace the component:K39 Liftgate Control Module
   - **If less than 10 Ω**
4. Ignition » On / Vehicle » In Service Mode
5. Verify the scan tool parameter:Liftgate Handle Switch=Inactive
   - **If not the specified state**
     1. Ignition/Vehicle » Off
     2. Disconnect the electrical connector:K39 Liftgate Control Module
     3. Test for infinite resistance between the test points:Signal circuit terminal 2@Component harness&Ground
        - If less than infinite resistance » Repair the short to ground on the circuit.
        - If infinite resistance » Replace the component:K39 Liftgate Control Module
   - **If the specified state**

YOUR CURRENT VEHICLE

Liftgate Power Assist Actuator Replacement

Liftgate Power Assist Actuator Replacement (Cadillac)



Liftgate Power Assist Actuator Replacement

Callout	Component Name
Preliminary Procedure Remove the liftgate upper trim finish panel. Refer to Liftgate Upper Trim Finish Panel Replacement	
1	Liftgate Power Assist Actuator

Callout	Component Name
	While operating, electrical control modules can produce heat and become hotter than their surroundings. To prevent burns allow sufficient time for the module to cool before removal. **Procedures** 1. Using a plastic trim tool, carefully pry downward on the cover to gain access to the mirror. 2. Remove the windshield multifunction sensor mount bracket cover insert. Refer to Windshield Multifunction Sensor Mount Bracket Cover Insert Replacement. 3. Pull downward to completely remove cover from windshield. **NOTE** **Note** The windshield multifunction sensor mount bracket cover and cover insert has to be removed as a single unit to prevent damage to mirror.

4. Operate the vehicle at speeds greater than 40 km/h (25 mph), the EBCM should request all telltale indicators to turn OFF.

Diagnostic Aids

The following conditions can cause this concern:

- An improperly mounted or loose Multi-axis Acceleration Sensor (located internally in the Airbag Sensing and Diagnostic Module).
- The car should not pull in either direction causing the Steering Wheel to be off center while driving in a straight line on a level surface.

Reference Information

Schematic Reference

Antilock Brake System Schematics

Connector End View Reference

Master Electrical Component List

Description and Operation

ABS Description and Operation

Electrical Information Reference

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

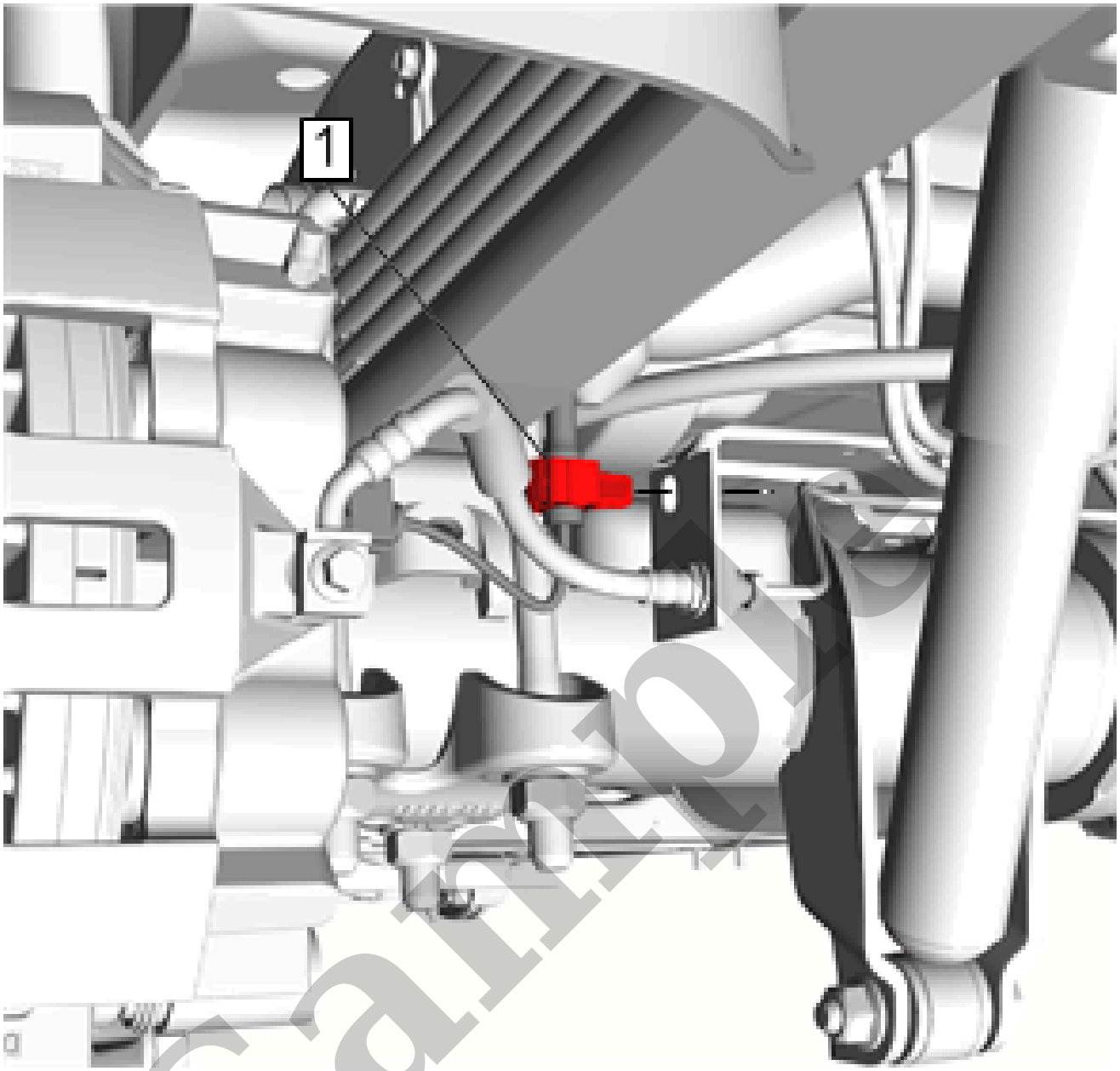
Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

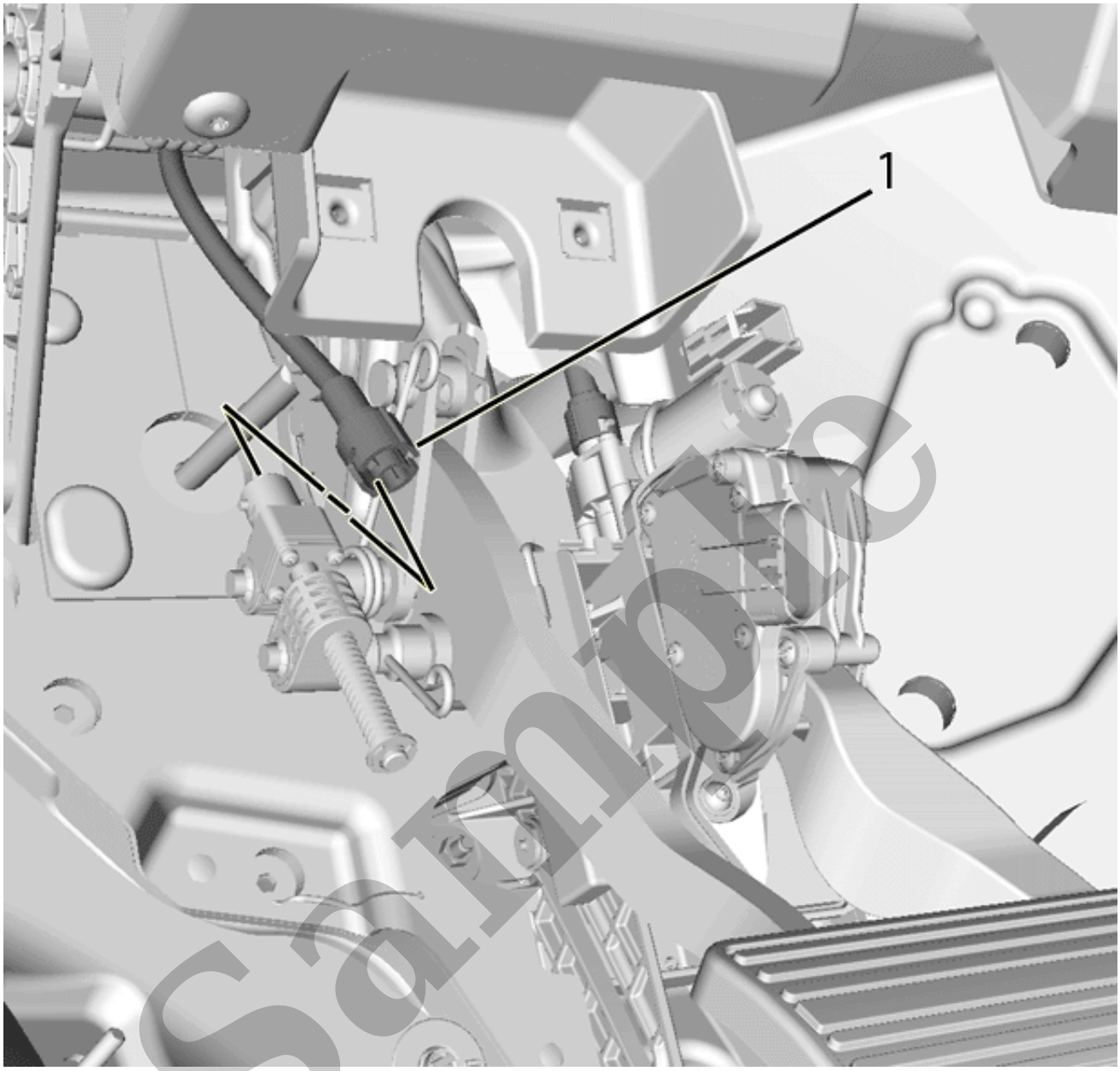
1. Ignition ON.
2. Verify that DTC C0187, C0196, C0287, or C0710 is not set.
    - **If any of the DTCs are set**

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

5. 

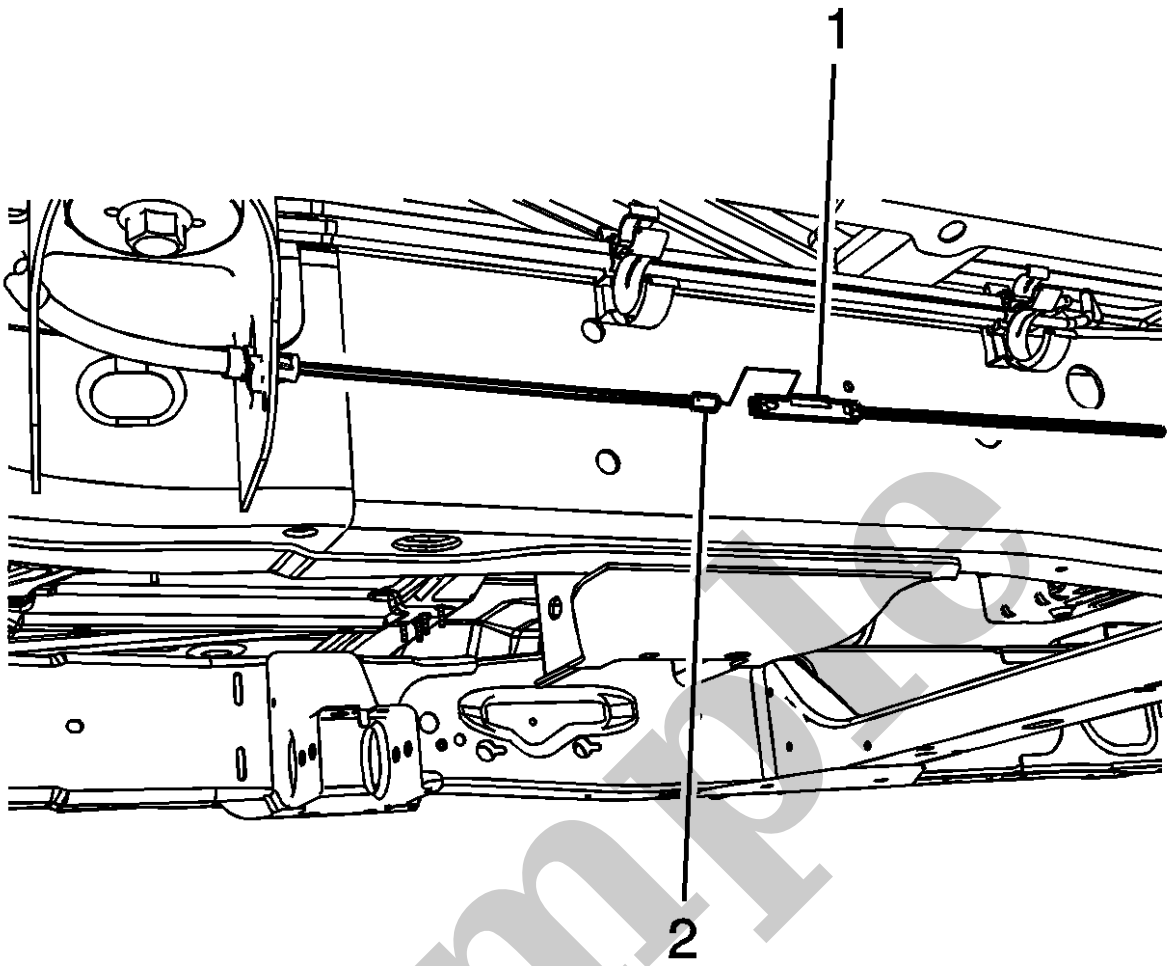
Wheel Speed Sensor Wiring Harness Clip(1) »Secure

Remove the brake pedal pivot bolt (1).

10. 

Disconnect the brake pedal adjuster actuator cable (1) from the brake pedal adjuster actuator.

1. Rotate the brake pedal adjuster actuator cable collar counter clockwise.
2. Compress the secondary locking tabs located below the cable collar alignment pins with a pointed tool.
3. Pull the brake pedal adjuster actuator cable upward and position aside.



4.

WARNING

Warning

Use the proper eye protection when drilling to prevent metal chips from causing physical injury.

Drill a 3 mm (0.12 in) diameter hole through the dimple in the intermediate cable connector, near the front parking brake cable.

5. Disconnect the intermediate cable connector (1) from the front parking brake cable (2).