Roof

Section05

Power Sunroof Calibrations
Sunroof Replacement
Sunroof Switch Replacement (C 100/Long Body)
Sunroof Switch Replacement (C 105/Short Body)
Sunroof Description and Operation
Fasteners Tightening Specifications

cardiagn.com

Power Sunroof Calibration

Condition

Some customers may comment that the sunroof may not close completely or after reaching closed position does not stop and continues to operate until the vent position is reached.

Re-Calibration Description

Sunroof Control Unit (SCU) has been designed to memorize closing and opening steps. However, the above condition may occur due to a loss of the memorized positioning data. The memorized positioning data can be lost when the operating current increases unusually over the specification operating current, 3.5-4.0 ampere because the foreign material is on sunroof guide rail or an object blocks the sunroof closing during operation.

SCU Re-Calibration Procedures

1. Press the switch rearward direction until the sunroof tilted open. Release the switch when the sunroof has fully opened.

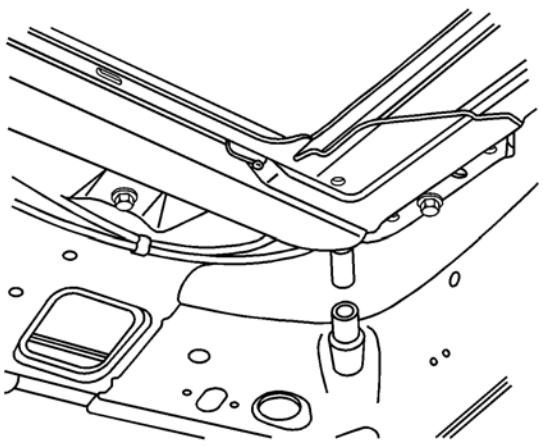
   Important: If the sunroof opens slightly and stops, release then press the switch and hold it and repeat these steps until the sunroof opens fully.

2. If the sunroof is stopped when close movement, press the switch forward direction until the sunroof close fully.
3. Press the switch rearward direction until the sunroof open for 15 seconds.
4. Confirm the re-calibration procedures by performing sunroof opening and closing operation.

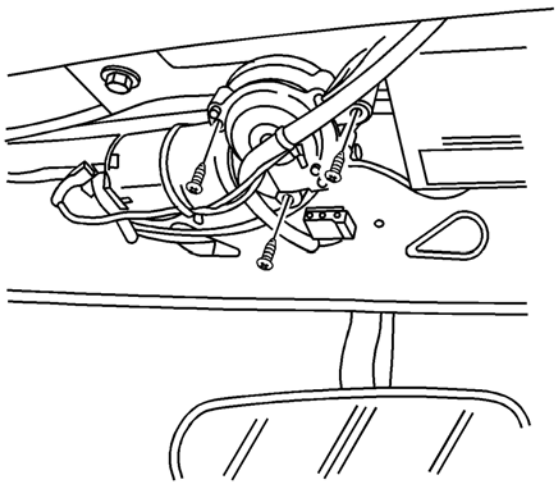
cardiagn.com

Sunroof Replacement

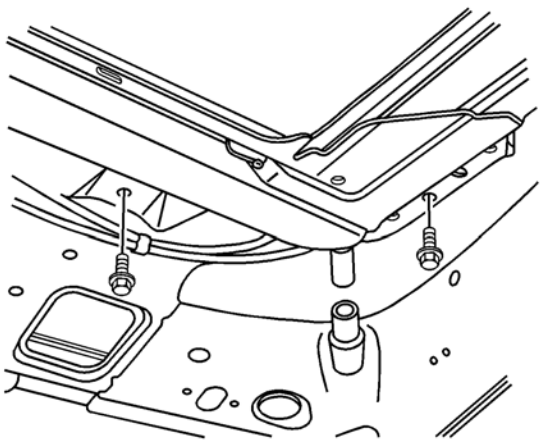
Removal Procedure



1. Disconnect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .
2. Remove the headliner. Refer to Headlining Trim Panel Replacement .
3. Remove the drain hoses.

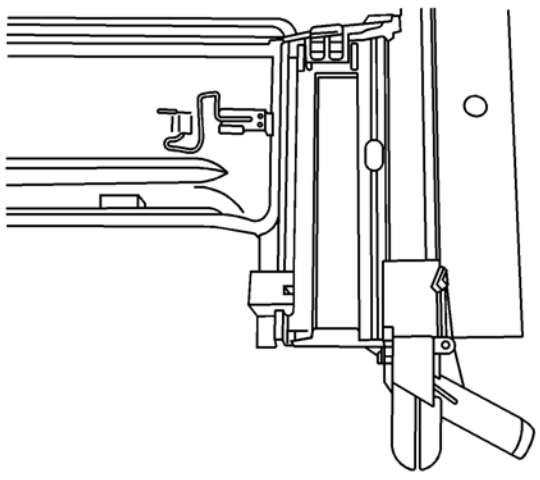


4. Disconnect the electrical connectors.
5. Remove the screws and the motor.

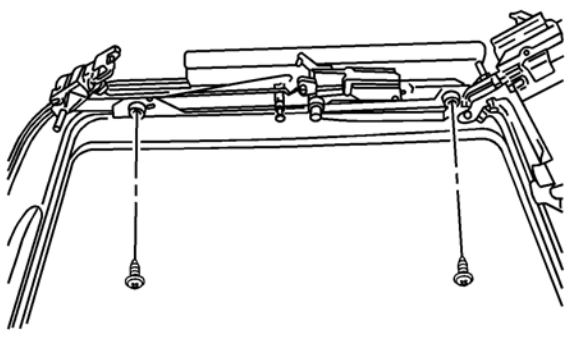


6. Remove the motor control module.
7. Remove the bolts and the housing from the vehicle.

cardiagn.com

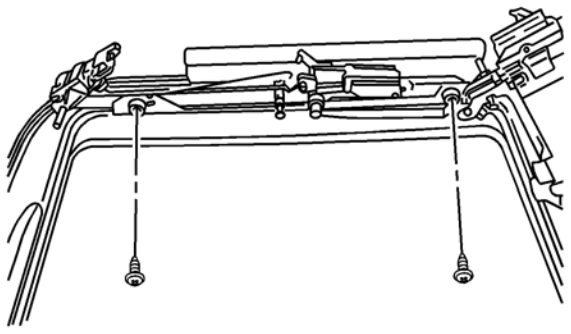


8. Remove the rubber end caps.
9. Remove the drain nozzles.
10. Remove the shade stops.
11. Remove the glass stops.



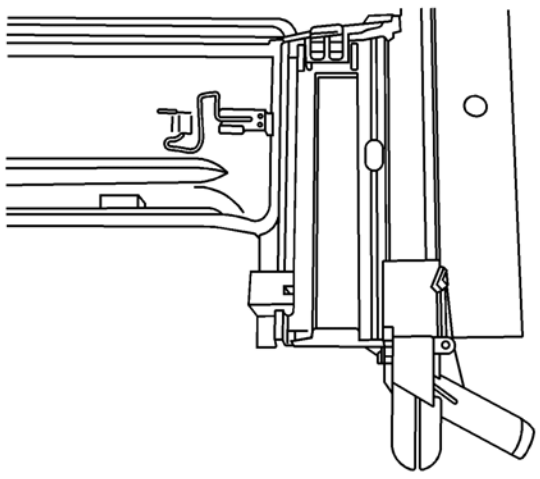
12. Remove the shade.
13. Remove the glass and the frame from the housing.
14. Remove the plastic trim.
15. Remove the screws and the glass from the frame.

Installation Procedure



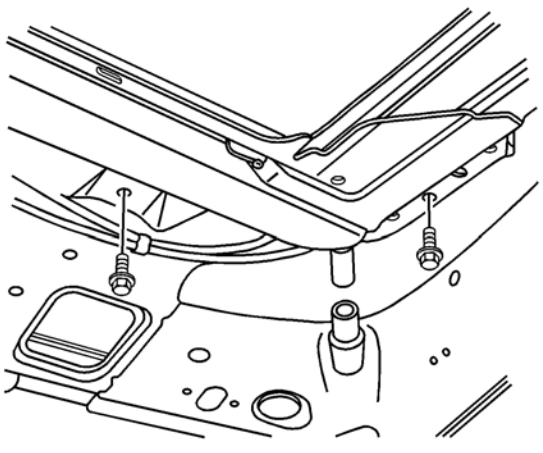
1. Install the glass to the frame with the screws.

cardiagn.com



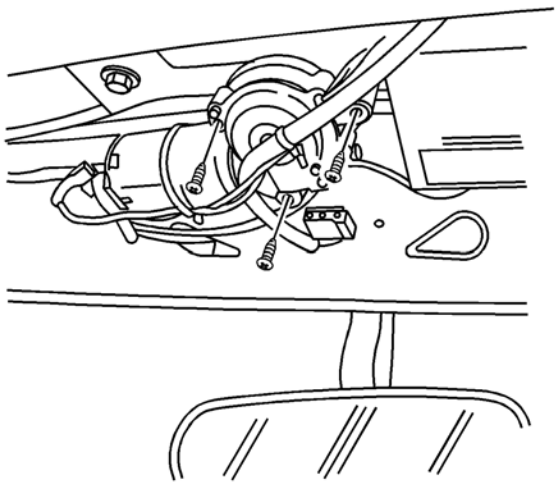
2. Install the plastic trim.
3. Install the glass and the frame to the housing.
4. Install the shade.
5. Install the glass stops.
6. Install the shade stops.
7. Install the drain nozzles.
8. Install the rubber end caps.

Notice: Refer to Fastener Notice in Cautions and Notices.



9. Install the housing to the roof of the vehicle with the bolts.

Tighten
Tighten the sunroof housing bolts to 10 N·m (89 lb in).

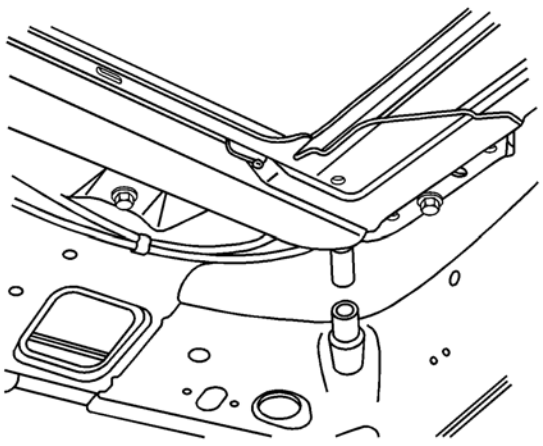


10. Install the motor control module.
11. Install the motor with the screws.

Tighten
Tighten the sunroof motor screws to 3 N·m (27 lb in).

12. Connect the electrical connectors.

cardiagn.com

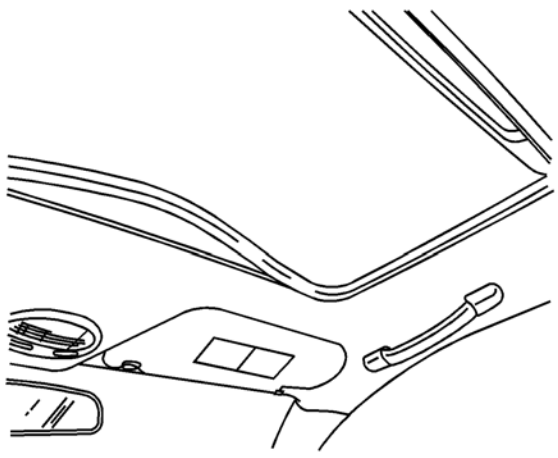


13. Install the drain hoses.
14. Install the headliner. Refer to Headlining Trim Panel Replacement .
15. Connect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .

cardiagn.com

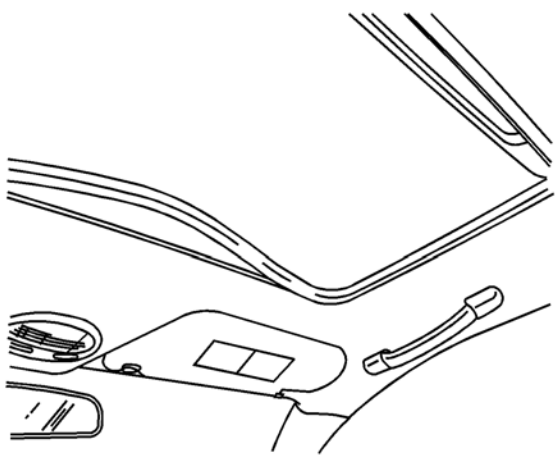
Sunroof Switch Replacement (C 100/Long Body)

Removal Procedure



1. Disconnect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .
2. Pry off the map lamp lens by inserting a taped flat-bladed tool into the recess along the edge of the lens.
3. Remove the screws and the map lamp housing from the headliner.
4. Disconnect the electrical connector.
5. Remove the power sunroof control switch.

Installation Procedure



1. Install the replacement bulb.
2. Connect the electrical connector.

Notice: Refer to Fastener Notice in the Preface section.

3. Install the map lamp housing to the headliner with the screws.

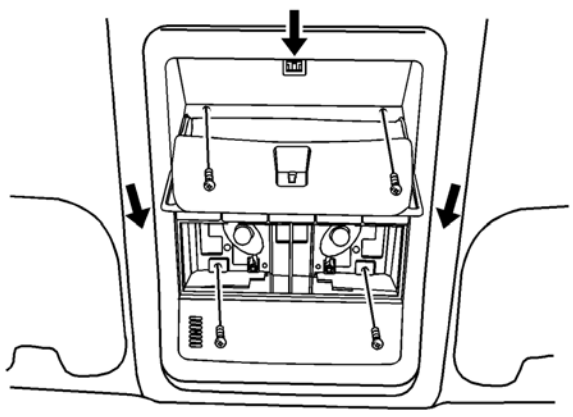
   Tighten
   Tighten the map lamp housing screw 2 N·m (18 lb in).

4. Press the map lamp lens onto the housing.
5. Connect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .

cardiagn.com

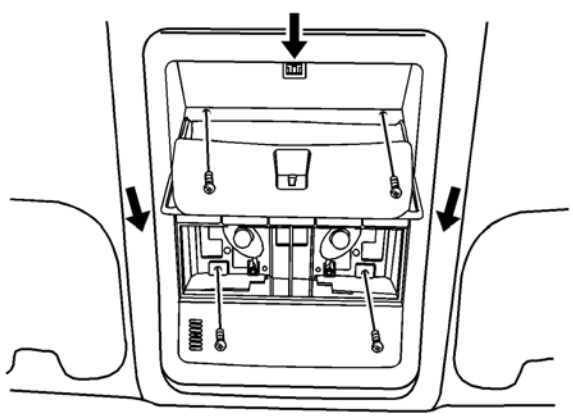
Sunroof Switch Replacement (C 105/Short Body)

Removal Procedure



1. Disconnect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .
2. Pry off the map lamp lens by inserting a taped flat-bladed tool into the recess along the edge of the lens.
3. Remove the screws and the map lamp housing from the headliner.
4. Disconnect the electrical connector.
5. Remove the power sunroof control switch.

Installation Procedure



1. Install the power sunroof control switch.

   Notice: Refer to Fastener Notice in the Preface section.

2. Connect the electrical connector.
3. Install the map lamp housing to the headliner with the screws.

   Tighten
   Tighten the map lamp housing screw 2 N·m (18 lb in).

4. Press the map lamp lens onto the housing.
5. Connect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection .

cardiagn.com

Sunroof Description and Operation

Power Sunroof/Sunroof Control Switch

The sunroof has the following characteristics:

- Intended to provide light and air through the roof the vehicle
- Built into the roof
- Made of glass
- Equipped with a sunshade that opens and closes manually
- Powered by an electric motor
- Controlled by a switch built into the map lamp assembly.

The sunroof control switch is located on the center of the map lamp assembly.

To operate the sunroof, the ignition must be ON.

Tilting the Sunroof, Open and Closed

To tilt open the rear end of the sunroof, press the switch rearward direction until the sunroof tilts open. To close the sunroof from a tilted-open position, press the switch forward direction until the sunroof tilts closed.

Sliding the Sunroof, Open and Closed

To slide open the sunroof, press the switch rearward direction until the sunroof slides. If the sun shade is closed, the sunroof will pull the sunshade open when the sunroof slides open. To close the sunroof from a slid-open position, press the switch forward direction until the sunroof slides closed.

cardiagn.com

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Console Screws	2 N·m	18 lb in
Map Lamp Housing Screws	2 N·m	18 lb in
Sunroof Housing Bolts	10 N·m	89 lb in
Sunroof Motor Screws	3 N·m	27 lb in

cardiagn.com