

2013 Chevrolet Cruze

2013 ACCESSORIES & EQUIPMENT Bolted Exterior Body Panels and Closures - Cruze

2013 ACCESSORIES & EQUIPMENT

Bolted Exterior Body Panels and Closures - Cruze

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Fender Bolt	8 N.m	71 lb in
Front Fender Bracket Bolt	9 N.m	80 lb in
Front Side Door Check Link Bolt	25 N.m	19 lb ft
Front Side Door Check Link Nut	9 N.m	80 lb in
Front Side Door Hinge Bolt - Body Side	32 N.m	24 lb ft
Front Side Door Hinge Bolt - Door Side	25 N.m	19 lb ft
Headlamp and Front Bumper Fascia Mount Panel Bolt	22 N.m	17 lb ft
Hood Hinge Bolt	26 Y	20 lb ft
Hood Hinge Reinforcement Nut	26 Y	20 lb ft
Rear Compartment Lid Hinge Bolt	9 Y	80 lb in
Rear Side Door Check Link Bolt	25 N.m	19 lb ft
Rear Side Door Check Link Nut	9 N.m	80 lb in
Rear Side Door Hinge Bolt - Body Side	32 N.m	24 lb ft
Rear Side Door Hinge Bolt - Door Side	25 N.m	19 lb ft

CLEARANCE AND FLUSHNESS SPECIFICATIONS

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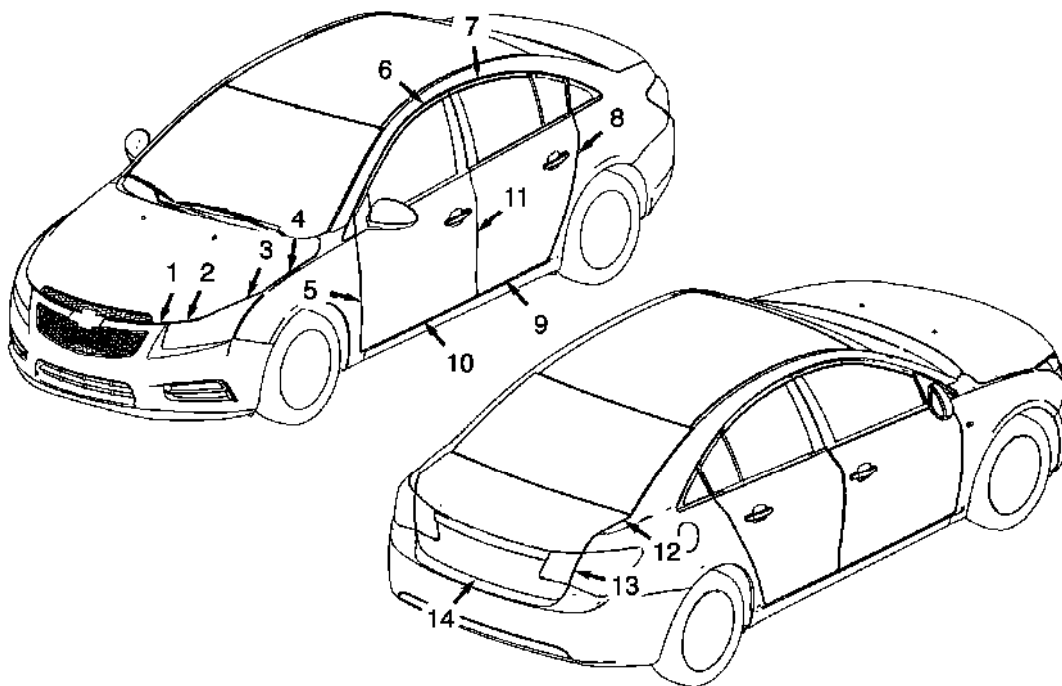


Fig. 1: Clearance And Flushness Specifications
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name	Clearance
1	Hood to Front Bumper Fascia	4.0 mm $\pm$ 1.0 mm
2	Hood to Headlamp	4.5 mm $\pm$ 1.5 mm
3	Hood to Headlamp	3.0 mm $\pm$ 1.0 mm
4	Hood to Fender	3.0 mm $\pm$ 0.75 mm
5	Front Side Door to Fender	3.5 mm $\pm$ 0.75 mm
6	Front Side Door to Body Side Outer Upper Panel	6.0 mm $\pm$ 1.0 mm
7	Rear Side Door to Body Side Outer Upper Panel	6.0 mm $\pm$ 1.0 mm
8	Rear Side Door to Quarter Outer Panel	3.5 mm $\pm$ 0.75 mm
9	Rear Side Door to Rocker Outer Panel	4.5 mm $\pm$ 1.0 mm
10	Front Side Door to Rocker Outer Panel	4.5 mm $\pm$ 1.0 mm
11	Front Side Door to Rear Side Door	3.5 mm $\pm$ 0.75 mm
12	Rear Compartment Lid to Quarter Outer Panel	3.0 mm $\pm$ 0.75 mm
13	Tail Lamp to Tail Lamp	4.0 mm $\pm$ 1.5 mm
	Rear Compartment Lid to Rear	

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Bumper Fascia

5.5 mm ± 1.5 mm

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC CODE INDEX

DIAGNOSTIC CODE INDEX

DTC	Description
<u>DTC B3006</u>	DTC B3006 Hood Ajar Circuit

DTC B3006

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 B3006

Hood Ajar Circuit

For symptom byte information, refer to **Symptom Byte List** .

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	B3006 02	B3006 01, B3006 04	B3006 01	-
Ground	-	B3006 01, B3006 04	-	-

Circuit/System Description

The body control module (BCM) applies B+ to the hood ajar signal circuit and monitors the voltage to determine the position of the hood. When the hood is closed, the switch is open and voltage remains high. When the hood is open, the switch is closed and the voltage is pulled low.

Conditions for Running the DTC

The BCM continuously monitors for this DTC

Conditions for Setting the DTC

B3006 01

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The BCM detects that the hood ajar switch signal circuit is shorted to battery.

B3006 02

The BCM detects that the hood ajar switch signal circuit is shorted to ground.

B3006 04

The BCM detects that the hood ajar switch signal circuit is open.

Action Taken When the DTC Sets

- The hood ajar switch input will be ignored as a content theft deterrent trigger.
- Remote vehicle start (if equipped) will be disabled.

Conditions for Clearing the DTC

- A current DTC will clear when the conditions for setting the DTC are no longer present.
- A history DTC will clear after 40 malfunction free ignition cycles.

Reference Information

Schematic Reference

Immobilizer Schematics

Connector End View Reference

COMPONENT CONNECTOR END VIEWS - INDEX

Description and Operation

Keyless Entry System Description and Operation (without BTM) , Keyless Entry System Description and Operation (with BTM)

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 the scan tool Hood Ajar Switch parameter is Open when the hood is open and Closed when the hood is closed.

- **If the parameter does not change**

Refer to Circuit/System Testing below.

- **If the parameter changes**

3. All OK.

Circuit/System Testing

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the B55 Hood Ajar Switch. It may take up to 2 min for all vehicle systems to power down.
2. Test for less than 10 ohms between the ground circuit terminal C and ground.
 - **If 10 ohms or greater**
 1. Ignition OFF
 2. Test for less than 2 ohms in the ground circuit end to end.
 - If 2 ohms or greater, repair the open/high resistance in the circuit.
 - If less than 2 ohms, repair the open/high resistance in the ground connection.
 - **If less than 10 ohms**
3. Ignition ON.
4. Test for greater than 10.5 V between the signal circuit terminal B and ground.
 - **If 11.5 V or less**
 1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.
 2. Test for infinite resistance between the signal circuit and ground.
 - If less than infinite resistance, repair the short to ground on the circuit.
 - If Infinite resistance.
 3. Test for less than 2 ohms in the signal circuit end to end.
 - If 2 ohms or greater, repair the open/high resistance in the circuit.
 - If less than 2 ohms, replace the K9 Body Control Module.
 - **If greater than 11.5 V**
5. Ignition OFF, disconnect the X4 and X7 harness connector at the K9 Body Control Module, ignition ON.
6. Test for less than 1 V between the signal circuit terminal B and ground.

- **If 1 V or greater**

Repair the short to voltage on the circuit.

- **If less than 1 V**

7. Test or replace the B55 Hood Ajar Switch.

Component Testing

1. Ignition OFF, disconnect the harness connector at the B55 Hood Ajar Switch.
2. Test for 2738-3350 ohms between the signal terminal A and the signal terminal B with the hood latch in the closed position.
 - **If not between 2738-3350 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 2738-3350 ohms**
3. Test for 658-806 ohms between the signal terminal A and the ground terminal C with the hood latch in the closed position.
 - **If not between 658-806 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 658-806 ohms**
4. Test for 2080-2545 ohms between the signal terminal B and the ground terminal C with the hood latch in the closed position.
 - **If not between 2080-2545 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 2080-2545 ohms**
5. Test for 2738-3350 ohms between the signal terminal A and the signal terminal B with the hood latch in the open position.
 - **If not between 2738-3350 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 2738-3350 ohms**
6. Test for 2080-2545 ohms between the signal terminal A and the ground terminal C with the hood latch in the open position.
 - **If not between 2080-2545 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 2080-2545 ohms**
7. Test for 658-806 ohms between the signal terminal B and the ground terminal C with the hood latch in the open position.
 - **If not between 658-806 ohms**

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Replace the B55 Hood Ajar Switch.

- If between 658-806 ohms

8. All OK.

Repair Instructions

Perform the **Diagnostic Repair Verification** after completing the repair.

- **Hood Primary and Secondary Latch Replacement**
- **Control Module References** for body control module replacement, programming, and setup.

SYMPTOMS - BOLTED EXTERIOR BODY PANELS AND CLOSURES

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

1. Perform the **Diagnostic System Check - Vehicle** before using the symptom tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control modules can communicate via the serial data links.
2. Review the system operation in order to familiarize yourself with the system functions. Refer to **Hood Ajar Indicator Description and Operation**.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the systems. Refer to **Checking Aftermarket Accessories**.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could 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 **Hood Ajar Indicator/Message Malfunction** in order to diagnose the symptom.

HOOD AJAR INDICATOR/MESSAGE 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.

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- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

DTC Descriptors

DTC B3006

Hood Ajar Circuit

For symptom byte information, refer to **Symptom Byte List** .

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	B3006 02	B3006 01, B3006 04	B3006 01	-
Ground	-	B3006 01, B3006 04	-	-

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The body control module (BCM) applies B+ to the hood ajar signal circuit and monitors the voltage to determine the position of the hood. When the hood is closed, the switch is open and voltage remains high. When the hood is open, the switch is closed and the voltage is pulled low.

Conditions for Running the DTC

The BCM continuously monitors for this DTC

Conditions for Setting the DTC

B3006 01

The BCM detects that the hood ajar switch signal circuit is shorted to battery.

B3006 02

The BCM detects that the hood ajar switch signal circuit is shorted to ground.

B3006 04

The BCM detects that the hood ajar switch signal circuit is open.

Action Taken When the DTC Sets

- The hood ajar switch input will be ignored as a content theft deterrent trigger.
- Remote vehicle start (if equipped) will be disabled.

Conditions for Clearing the DTC

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- A current DTC will clear when the conditions for setting the DTC are no longer present.
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Circuit/System Verification

1. Ignition ON.
2. Verify the scan tool Hood Ajar Switch parameter is Open when the hood is open and Closed when the hood is closed.
 - **If the parameter does not change**

Refer to Circuit/System Testing below.
 - **If the parameter changes**
3. All OK.

Circuit/System Testing

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the B55 Hood Ajar Switch. It may take up to 2 min for all vehicle systems to power down.

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2. Test for less than 10 ohms between the ground circuit terminal C and ground.
 - **If 10 ohms or greater**
 1. Ignition OFF
 2. Test for less than 2 ohms in the ground circuit end to end.
 - If 2 ohms or greater, repair the open/high resistance in the circuit.
 - If less than 2 ohms, repair the open/high resistance in the ground connection.
 - **If less than 10 ohms**
3. Ignition ON.
4. Test for greater than 10.5 V between the signal circuit terminal B and ground.
 - **If 11.5 V or less**
 1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.
 2. Test for infinite resistance between the signal circuit and ground.
 - If less than infinite resistance, repair the short to ground on the circuit.
 - If Infinite resistance.
 3. Test for less than 2 ohms in the signal circuit end to end.
 - If 2 ohms or greater, repair the open/high resistance in the circuit.
 - If less than 2 ohms, replace the K9 Body Control Module.
 - **If greater than 11.5 V**
5. Ignition OFF, disconnect the X4 and X7 harness connector at the K9 Body Control Module, ignition ON.
6. Test for less than 1 V between the signal circuit terminal B and ground.
 - **If 1 V or greater**

Repair the short to voltage on the circuit.
 - **If less than 1 V**
7. Test or replace the B55 Hood Ajar Switch.

Component Testing

1. Ignition OFF, disconnect the harness connector at the B55 Hood Ajar Switch.
2. Test for 2738-3350 ohms between the signal terminal A and the signal terminal B with the hood latch in the closed position.
 - **If not between 2738-3350 ohms**

Replace the B55 Hood Ajar Switch.
 - **If between 2738-3350 ohms**
3. Test for 658-806 ohms between the signal terminal A and the ground terminal C with the hood latch in the closed position.
 - **If not between 658-806 ohms**

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Replace the B55 Hood Ajar Switch.

- **If between 658-806 ohms**

4. Test for 2080-2545 ohms between the signal terminal B and the ground terminal C with the hood latch in the closed position.

- **If not between 2080-2545 ohms**

Replace the B55 Hood Ajar Switch.

- **If between 2080-2545 ohms**

5. Test for 2738-3350 ohms between the signal terminal A and the signal terminal B with the hood latch in the open position.

- **If not between 2738-3350 ohms**

Replace the B55 Hood Ajar Switch.

- **If between 2738-3350 ohms**

6. Test for 2080-2545 ohms between the signal terminal A and the ground terminal C with the hood latch in the open position.

- **If not between 2080-2545 ohms**

Replace the B55 Hood Ajar Switch.

- **If between 2080-2545 ohms**

7. Test for 658-806 ohms between the signal terminal B and the ground terminal C with the hood latch in the open position.

- **If not between 658-806 ohms**

Replace the B55 Hood Ajar Switch.

- **If between 658-806 ohms**

8. All OK.

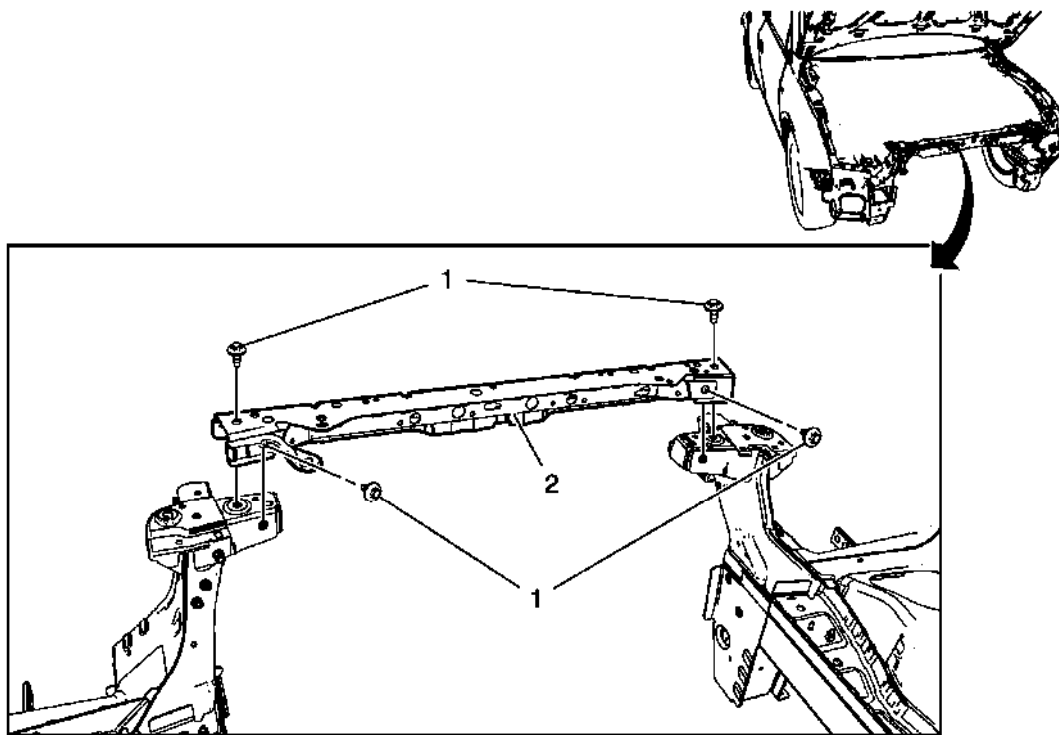
Repair Instructions

Perform the **Diagnostic Repair Verification** after completing the repair.

- **Hood Primary and Secondary Latch Replacement**
- **Control Module References** for body control module replacement, programming, and setup.

REPAIR INSTRUCTIONS

FRONT END UPPER TIE BAR REPLACEMENT

**Fig. 2: Front End Upper Tie Bar**

Courtesy of GENERAL MOTORS COMPANY

Front End Upper Tie Bar Replacement

Callout	Component Name
Preliminary Procedure 1. Remove the front bumper fascia. Refer to <u>Front Bumper Fascia Replacement</u> 2. Remove the radiator support bracket. Refer to <u>Radiator Support Bracket Replacement</u> 3. Remove the radiator grille reinforcement support. Refer to <u>Front Grille Support Replacement</u> 4. Remove the hood primary and secondary latch. Refer to <u>Hood Primary and Secondary Latch Replacement</u>	
1	Headlamp and Front Bumper Fascia Mount Panel Bolt (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> Tighten 22 N.m (17 lb ft)
2	Front End Upper Tie Bar

FRONT FENDER FRONT LOWER BRACKET REPLACEMENT

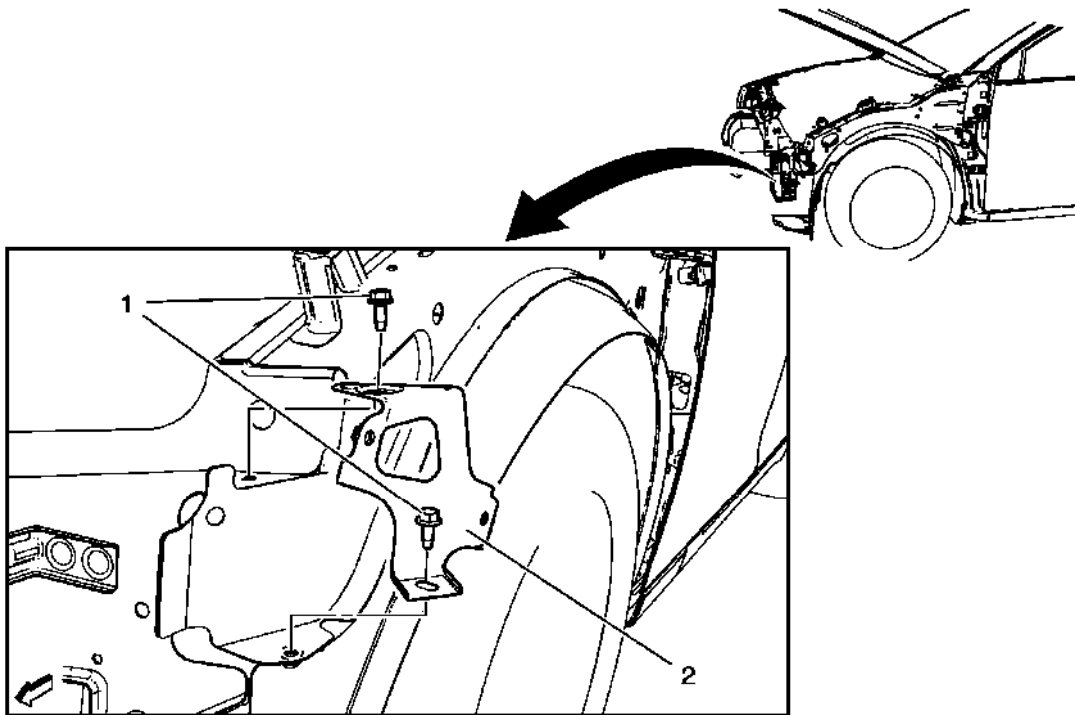


Fig. 3: Front Fender Front Lower Bracket
Courtesy of GENERAL MOTORS COMPANY

Front Fender Front Lower Bracket Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove the front bumper fascia. Refer to <u>Front Bumper Fascia Replacement</u> .	
2. Remove the headlamp. Refer to <u>Headlamp Replacement</u> .	
3. Remove the front fender. Refer to <u>Front Fender Replacement</u> .	
1	Front Fender Bracket Bolt CAUTION: Refer to <u>Fastener Caution</u> . Tighten 9 N.m(80 lb in)
2	Front Fender Front Lower Bracket

HOOD PRIMARY LATCH RELEASE CABLE REPLACEMENT

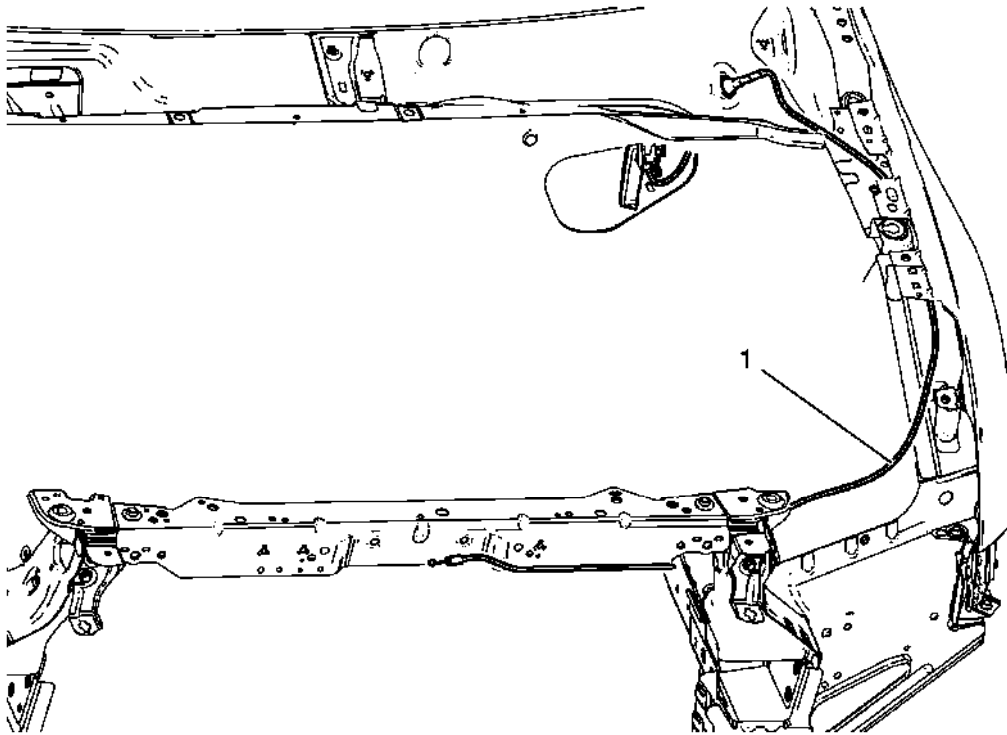
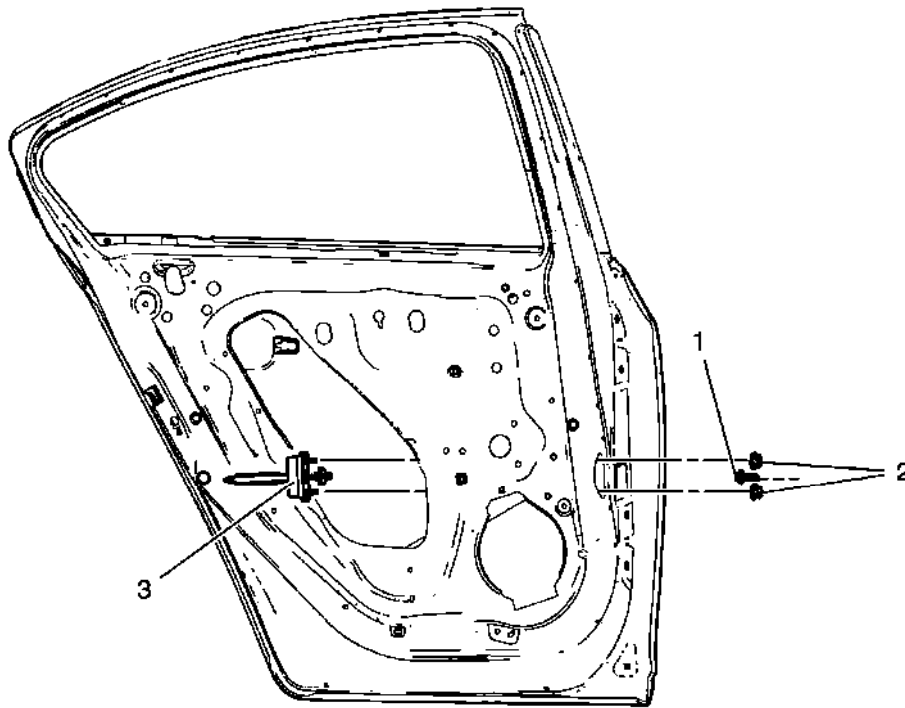


Fig. 4: Hood Primary Latch Release Cable
Courtesy of GENERAL MOTORS COMPANY

Hood Primary Latch Release Cable Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove hood primary latch release cable handle. Refer to <u>Hood Primary Latch Release Cable Handle Replacement</u>. 2. Remove the front bumper fascia. Refer to <u>Front Bumper Fascia Replacement</u>. 3. Remove the radiator grille support. Refer to <u>Front Grille Support Replacement</u>. 4. Remove the air inlet grille panel. Refer to <u>Air Inlet Grille Panel Replacement</u>.	
1	Hood Primary Latch Release Cable Procedure To release the hood primary latch release cable, unhook from hood primary and secondary latch.

REAR SIDE DOOR CHECK REPLACEMENT

**Fig. 5: Rear Side Door Check**

Courtesy of GENERAL MOTORS COMPANY

Rear Side Door Check Replacement

Callout	Component Name
Preliminary Procedure 1. Remove rear side door trim panel. Refer to <u>Rear Side Door Trim Replacement</u> 2. Remove the rear side door water deflector. Refer to <u>Rear Side Door Water Deflector Replacement</u>	
1	Rear Side Door Check Bolt CAUTION: Refer to <u>Fastener Caution</u> TIP: Place the door in the full open position. Tighten 25 N.m (18 lb ft)
2	Rear Side Door Check Nut Procedure Remove the water deflector. Tighten 9 N.m (79 lb in)
3	Rear Side Door Check

FRONT SIDE DOOR REPLACEMENT

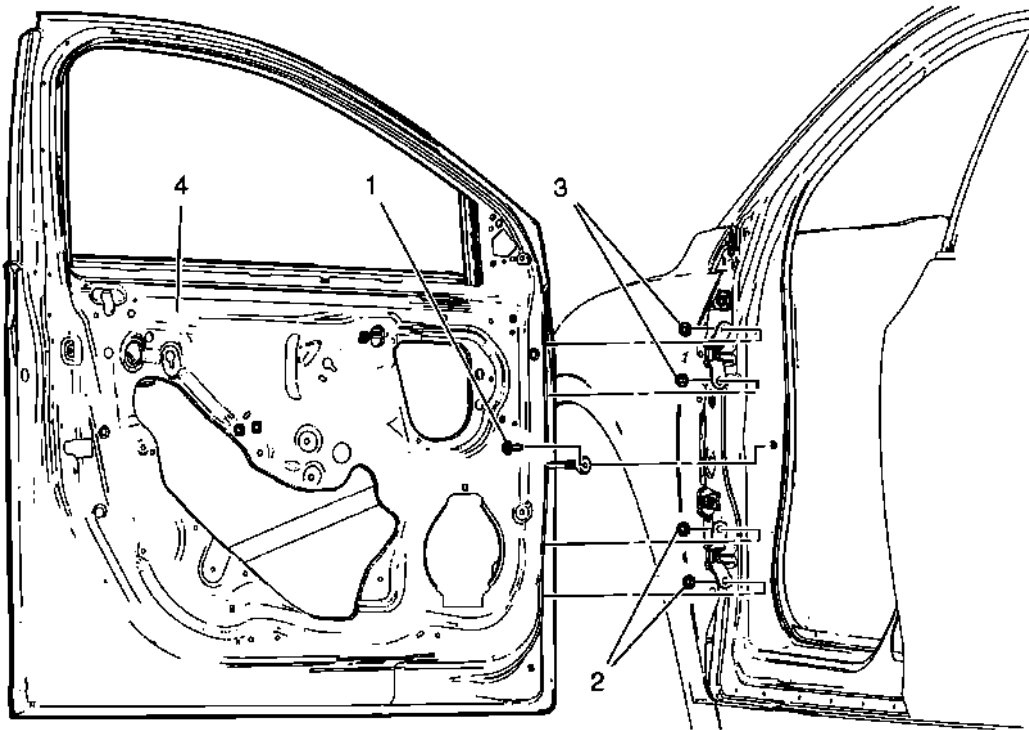


Fig. 6: Front Side Door Mounting Hardware
Courtesy of GENERAL MOTORS COMPANY

Front Side Door Replacement

Callout	Component Name
Preliminary Procedures Remove the front side door trim panel. Refer to <u>Front Side Door Trim Replacement</u> .	
1	Front Side Door Check Link Bolt CAUTION: Refer to <u>Fastener Caution</u> . Procedure 1. Remove the water deflector. Refer to <u>Front Side Door Water Deflector Replacement</u> . 2. Disconnect the battery. Refer to <u>Battery Negative Cable Disconnection and Connection</u> . 3. Disconnect the door electrical connector. 4. Support the door before removing the hinge bolts. 5. With the aid of an assistant, remove the door.

	Tighten 25 N.m (18 lb ft)
2	Front Side Door Lower Hinge Bolt (Qty: 2) Tighten 25 N.m (18 lb ft)
3	Front Side Door Upper Hinge Bolt (Qty: 2) Tighten 25 N.m (18 lb ft)
4	Front Side Door Procedure 1. Transfer all of the internal components. 2. Adjust the front side door as needed. Refer to <u>Clearance and Flushness Specifications</u>.

REAR SIDE DOOR REPLACEMENT

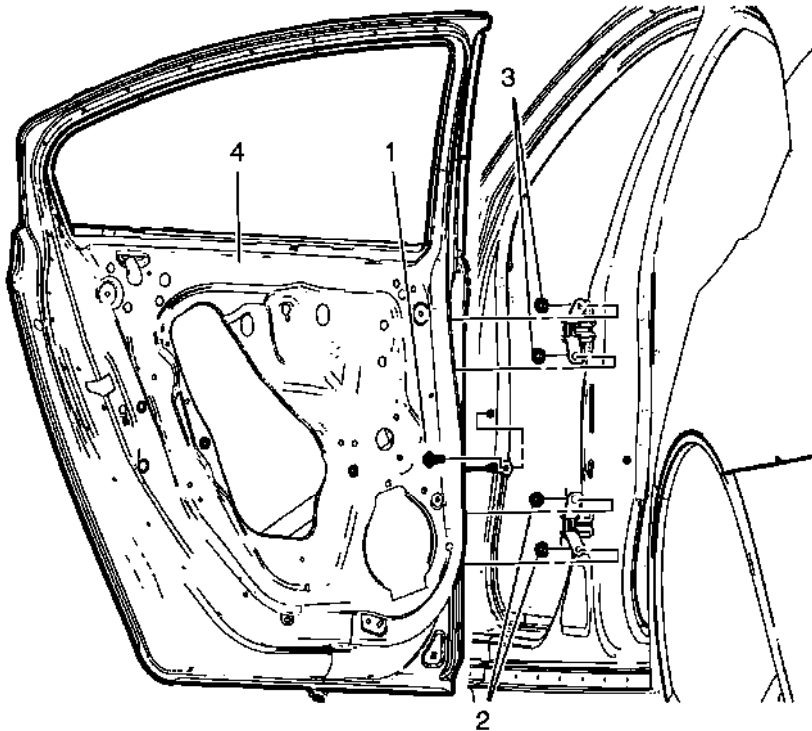


Fig. 7: Rear Side Door Mounting Hardware
 Courtesy of GENERAL MOTORS COMPANY

Rear Side Door Replacement

Callout	Component Name

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Preliminary Procedures

Remove the rear side door trim panel. Refer to **Rear Side Door Trim Replacement** .

1	Rear Side Door Check Link Bolt CAUTION: Refer to <u>Fastener Caution</u> . Procedure 1. Remove the water deflector. Refer to <u>Rear Side Door Water Deflector Replacement</u> . 2. Disconnect the battery. Refer to <u>Battery Negative Cable Disconnection and Connection</u> . 3. Disconnect the door electrical connector. 4. Support the door before removing the hinge bolts. 5. With the aid of an assistant, remove the door. Tighten 25 N.m (18 lb ft)
2	Rear Side Door Lower Hinge Bolt (Qty: 2) Tighten 25 N.m (18 lb ft)
3	Rear Side Door Upper Hinge Bolt (Qty: 2) Tighten 25 N.m (18 lb ft)
4	Rear Side Door Procedure 1. Transfer all of the internal components. 2. Adjust the rear side door as needed. Refer to <u>Clearance and Flushness Specifications</u>.

FRONT FENDER REPLACEMENT

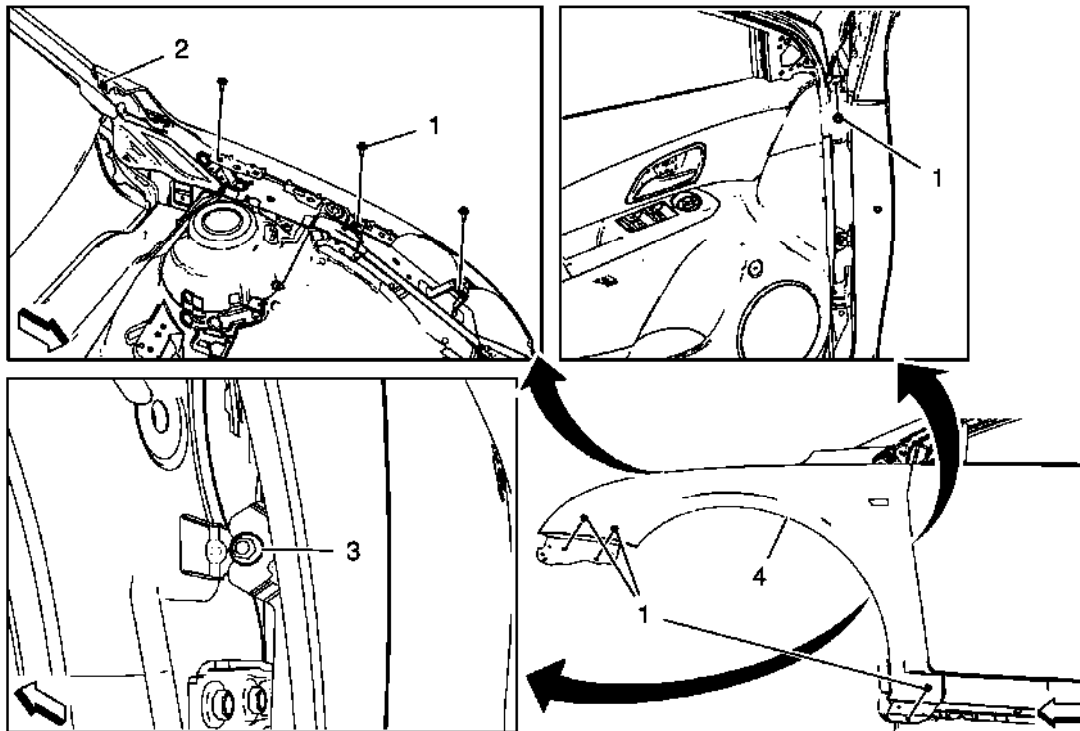


Fig. 8: Front Fender Mounting Hardware
Courtesy of GENERAL MOTORS COMPANY

Front Fender Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement 2. Remove front bumper fascia guide. Refer to Front Bumper Fascia Replacement 3. Remove the wheelhouse liner. Refer to Front Wheelhouse Liner Replacement 4. Remove the headlamp. Refer to Headlamp Replacement 5. Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement 6. Remove the front fender shipping cover. Refer to Front Fender Shipping Cover Replacement 7. Remove the front fender insulator. Refer to Front Fender Insulator Replacement	
1	Front Fender Bolt (Qty: 7) CAUTION: Refer to Fastener Caution Tighten 8 N.m (70 lb in)
	Front Fender Bolt

2	Tighten 8 N.m (70 lb in)
3	Front Fender Bolt TIP: Simply loosen the bolt rather than remove. Tighten 8 N.m(70 lb in)
4	Front Fender

FRONT FENDER SHIPPING COVER REPLACEMENT

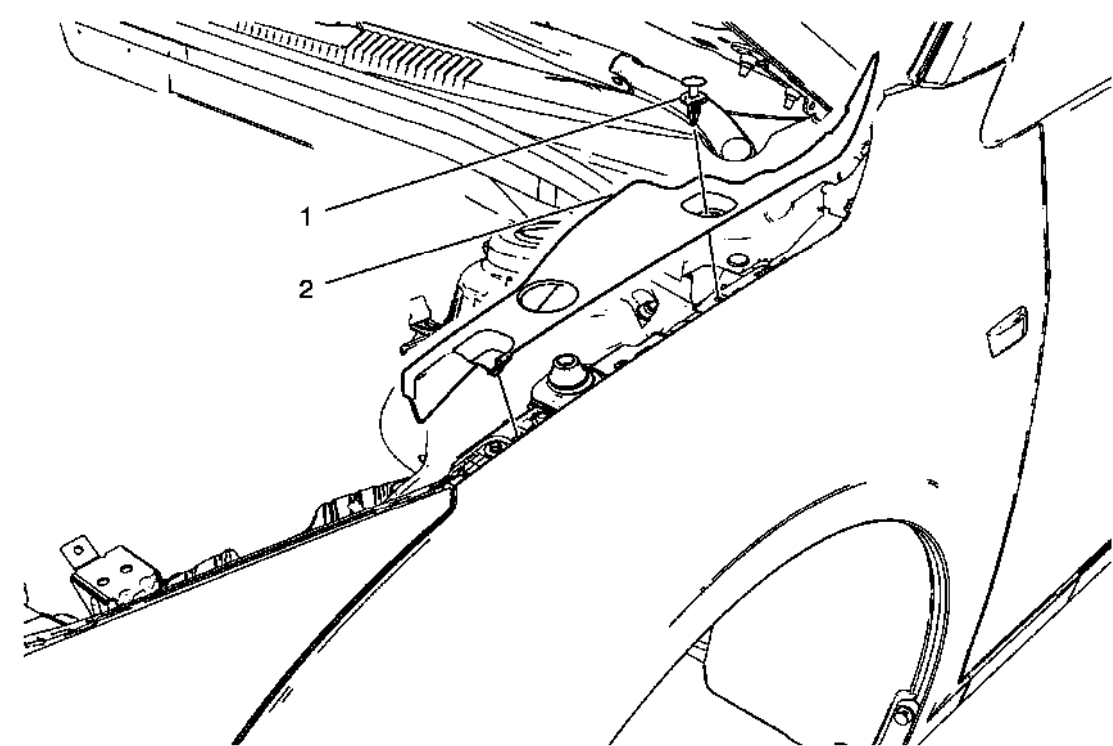


Fig. 9: Front Fender Shipping Cover
 Courtesy of GENERAL MOTORS COMPANY

Front Fender Shipping Cover Replacement

Callout	Component Name
1	Front Fender Shipping Cover Retainer
2	Front Fender Shipping Cover

HOOD PRIMARY LATCH RELEASE CABLE HANDLE REPLACEMENT

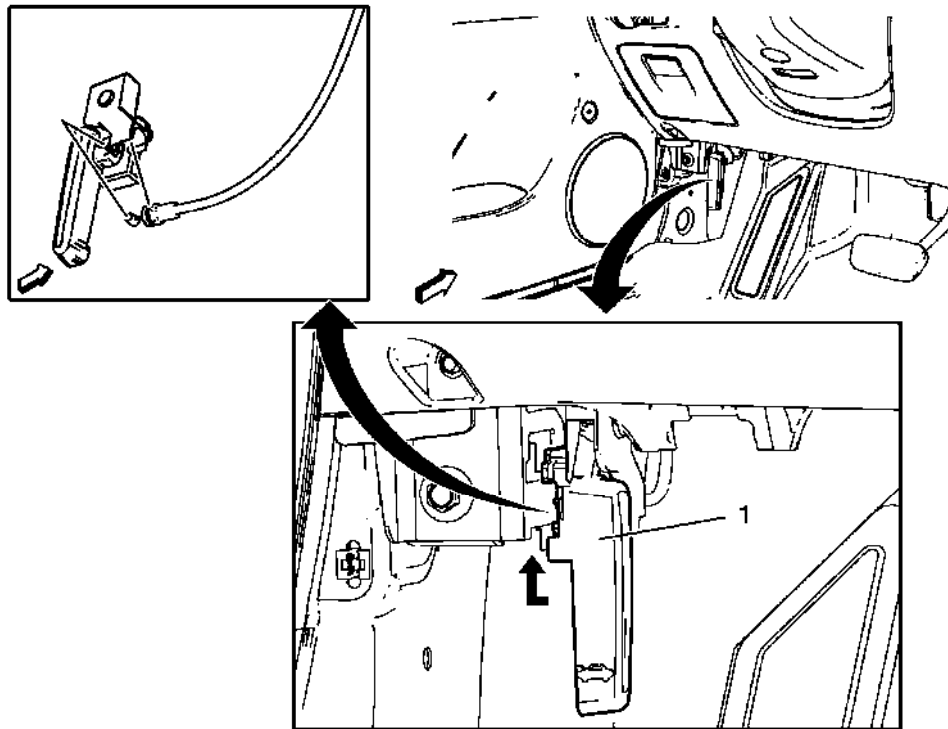


Fig. 10: Hood Primary Latch Release Cable Handle Hood Primary Latch Release Cable Handle
Courtesy of GENERAL MOTORS COMPANY

Hood Primary Latch Release Cable Handle Replacement

Callout	Component Name
Preliminary Procedure Remove the front side door sill trim plate. Refer to Front Side Door Sill Trim Plate Replacement .	
1	Hood Primary Latch Release Cable Handle
	Procedure 1. Pull down the hood primary latch release cable handle. 2. To release the handle, pull down the cable and unhook from the handle.

FRONT SIDE DOOR UPPER HINGE AND LOWER HINGE REPLACEMENT

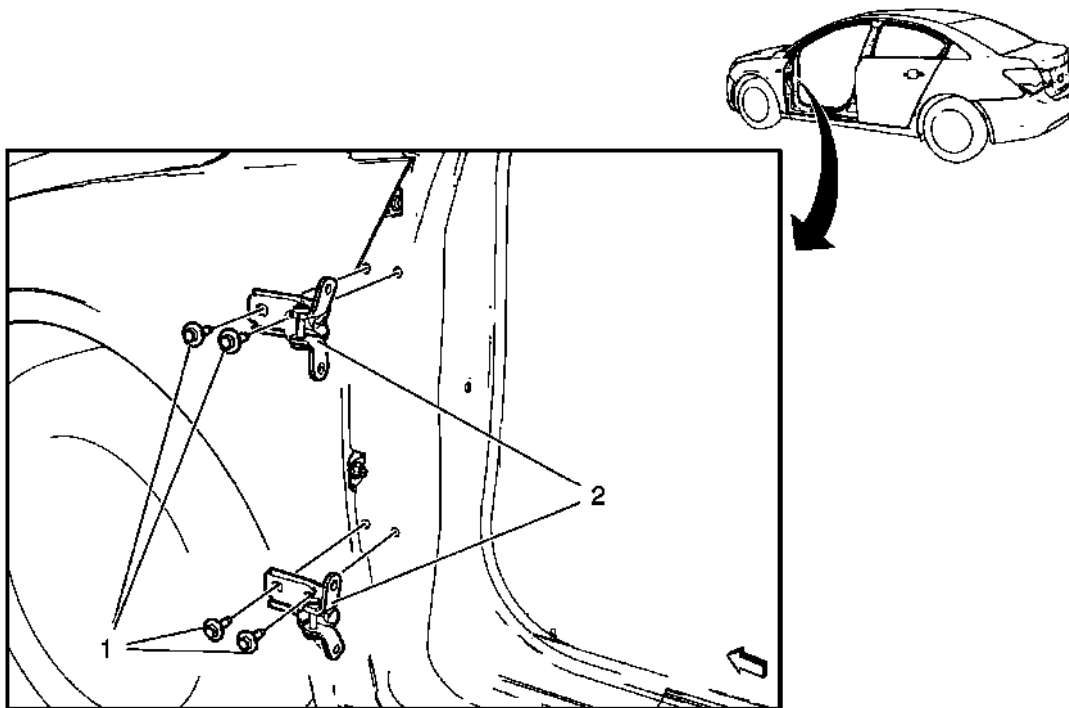
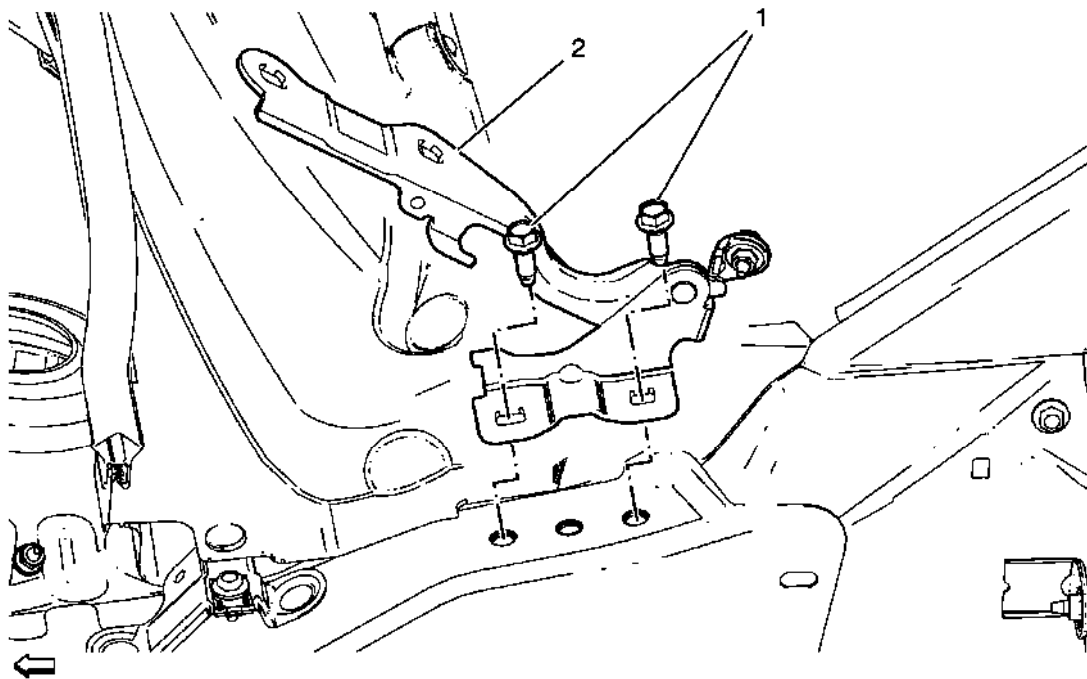


Fig. 11: Front Side Door Upper Hinge and Door Lower Hinge
Courtesy of GENERAL MOTORS COMPANY

Front Side Door Upper Hinge and Lower Hinge Replacement

Callout	Component Name
Preliminary Procedures 1. Remove the front wheelhouse liner. Refer to <u>Front Wheelhouse Liner Replacement</u> . 2. Remove the front fender insulator. Refer to <u>Front Fender Insulator Replacement</u>. 3. Remove the front side door. Refer to <u>Front Side Door Replacement</u>.	
1	Front Side Door Hinge Bolt (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 32 N.m (24 lb ft)
2	Front Side Door Hinge Procedure Adjust front side door as needed. Refer to <u>Clearance and Flushness Specifications</u> .

HOOD HINGE REPLACEMENT

**Fig. 12: Hood Hinge**

Courtesy of GENERAL MOTORS COMPANY

Hood Hinge Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove the hood. Refer to <u>Hood Replacement</u> .	
2. Remove the front fender. Refer to <u>Front Fender Replacement</u> .	
1	Hood Hinge Bolt (Qty: 2) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 26 N.m (19 lb ft)
2	Hood Hinge

REAR COMPARTMENT LID REAR HINGE REPLACEMENT

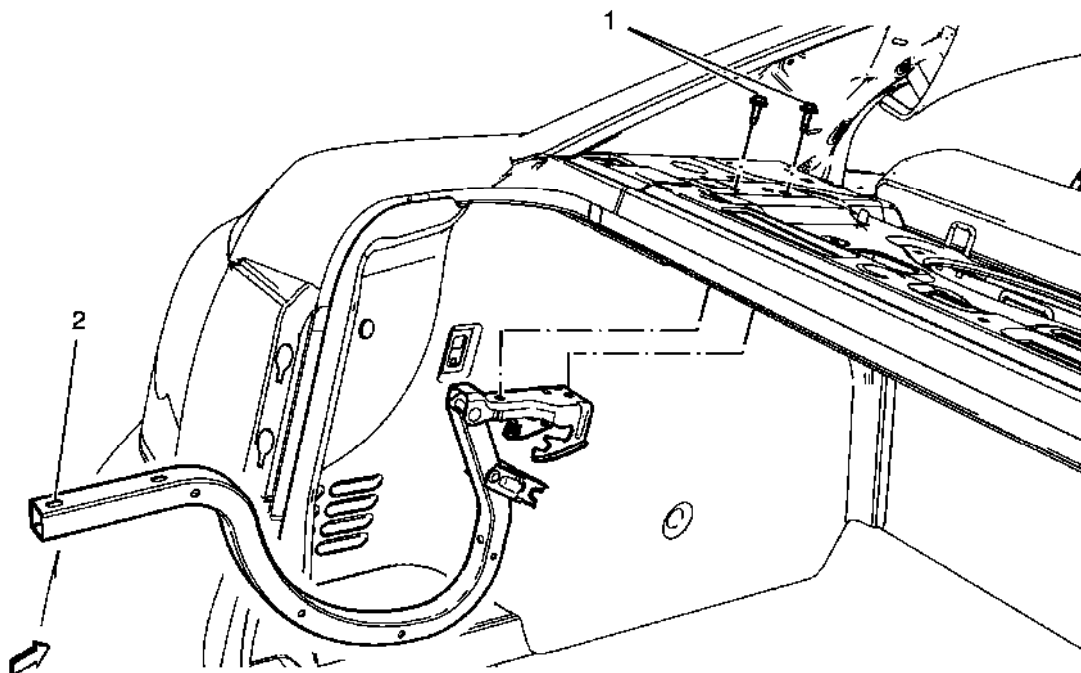


Fig. 13: Rear Compartment Lid Rear Hinge
 Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Lid Rear Hinge Replacement

Callout	Component Name
Preliminary Procedures 1. Remove the rear compartment lid. Refer to <u>Rear Compartment Lid Replacement</u>. 2. Remove the rear window panel trim. Refer to <u>Rear Window Panel Trim Replacement</u>. 3. Remove the rear compartment lid hinge torque rod. Refer to <u>Rear Compartment Lid Hinge Torque Rod Replacement</u>.	
1	Rear Compartment Lid Rear Hinge Bolt (Qty: 2) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 9 N.m (80 lb in)
2	Rear Compartment Lid Rear Hinge Procedure Adjust rear compartment lid as needed. Refer to <u>Clearance and Flushness Specifications</u> .

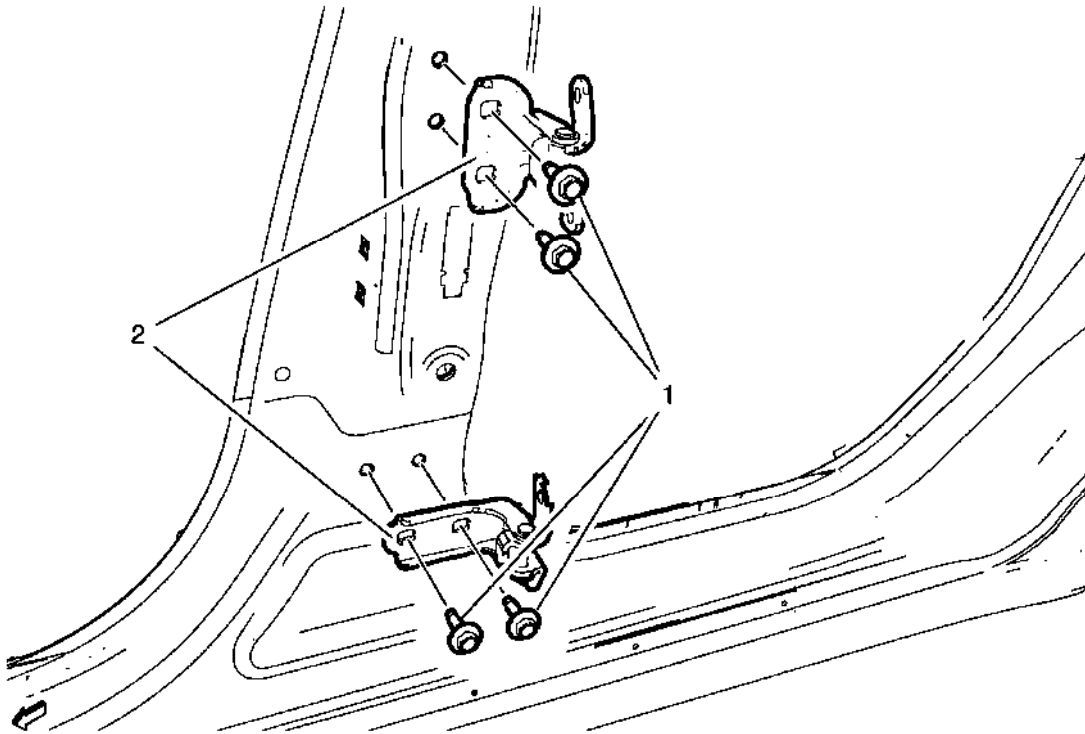
REAR SIDE DOOR UPPER HINGE AND LOWER HINGE REPLACEMENT

Fig. 14: Rear Side Door Upper Hinge and Door Lower Hinge
Courtesy of GENERAL MOTORS COMPANY

Rear Side Door Upper Hinge and Lower Hinge Replacement

Callout	Component Name
Preliminary Procedures Remove the rear side door. Refer to <u>Rear Side Door Replacement</u> .	
1	Rear Side Door Hinge Bolt (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 32 N.m (24 lb ft)
2	Rear Side Door Hinge Procedure Adjust rear side door as needed. Refer to <u>Clearance and Flushness Specifications</u> .

HOOD REPLACEMENT

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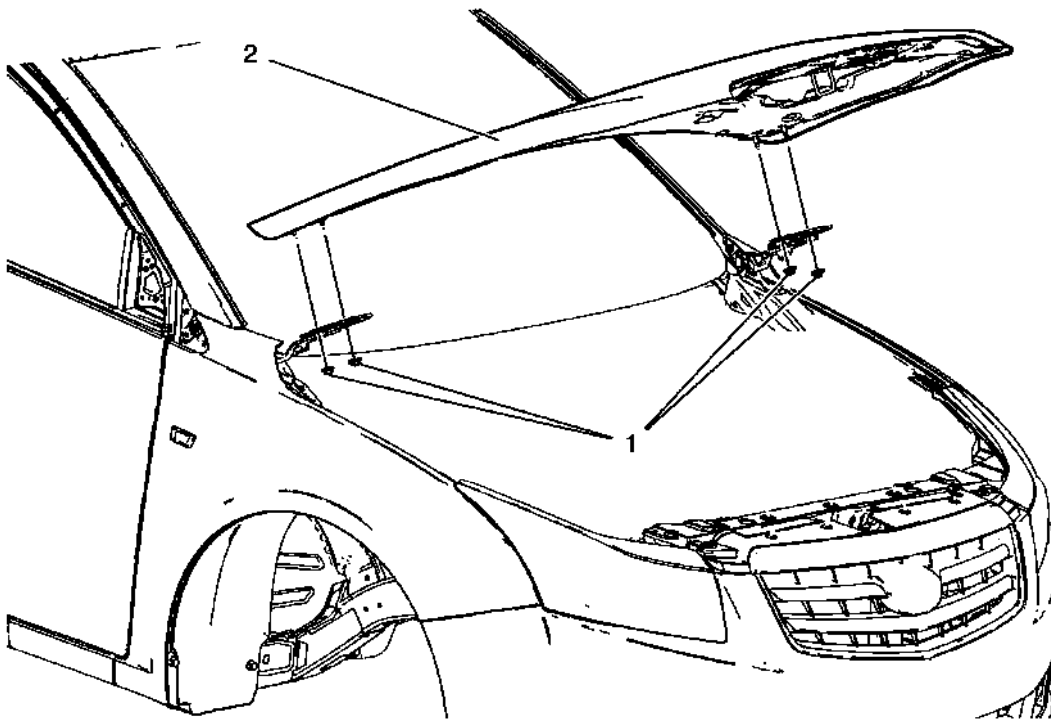


Fig. 15: Hood Hinge Reinforcement Nuts
Courtesy of GENERAL MOTORS COMPANY

Hood Replacement

Callout	Component Name
WARNING: When a hood hold open device is being removed or installed, provide alternate support to avoid the possibility of damage to the vehicle or personal injury.	
Preliminary Procedure Remove the windshield washer nozzle hose. Refer to <u>Windshield Washer Nozzle Hose Replacement</u> .	
1	Hood Hinge Reinforcement Nut (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 26 N.m (19 lb ft)
2	Hood Procedure 1. Transfer components as necessary.

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2. Adjust hood as needed. Refer to **Clearance and Flushness Specifications**.

FRONT FENDER INSULATOR REPLACEMENT

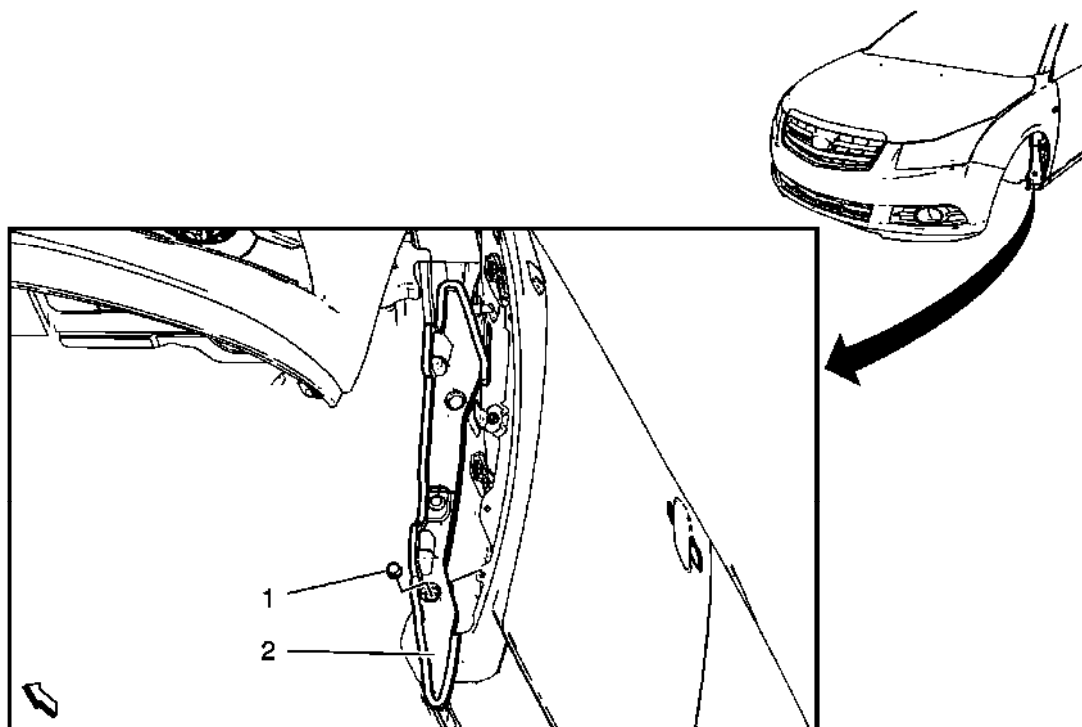


Fig. 16: Front Fender Insulator

Courtesy of GENERAL MOTORS COMPANY

Front Fender Insulator Replacement

Callout	Component Name
Preliminary Procedure	
Remove the front wheelhouse liner. Refer to <u>Front Wheelhouse Liner Replacement</u> .	
1	Front Fender Insulator Retainer
2	Front Fender Insulator

HOOD INSULATOR REPLACEMENT

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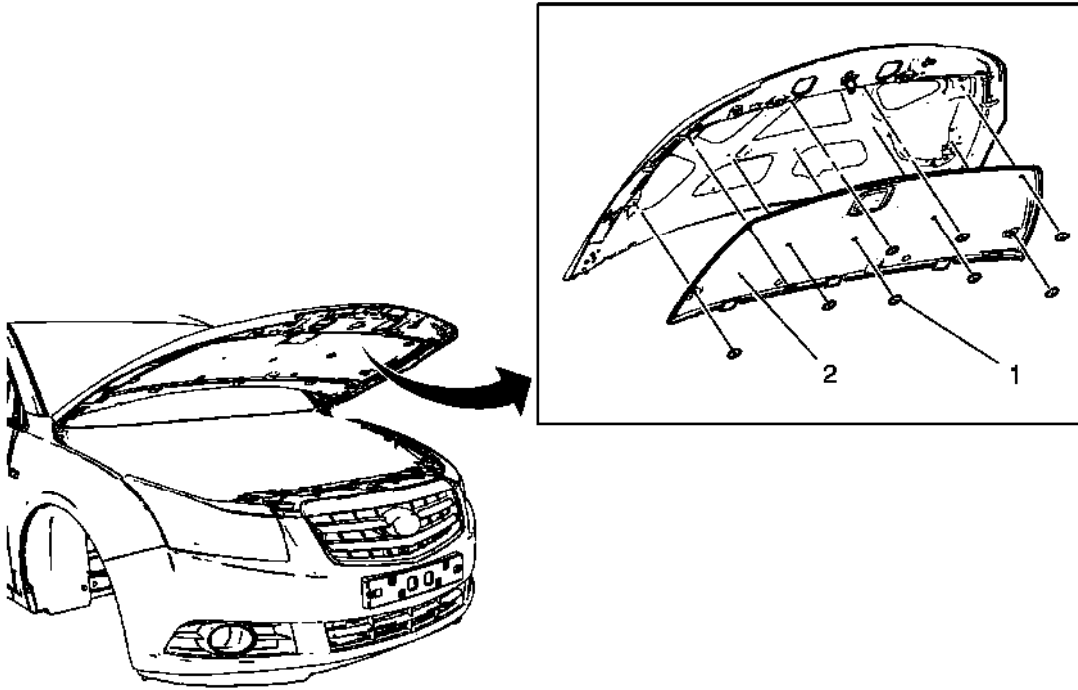


Fig. 17: Hood Insulator

Courtesy of GENERAL MOTORS COMPANY

Hood Insulator Replacement

Callout	Component Name
1	Hood Insulator Retainer (Qty: 9)
2	Hood Insulator

HOOD PRIMARY AND SECONDARY LATCH REPLACEMENT

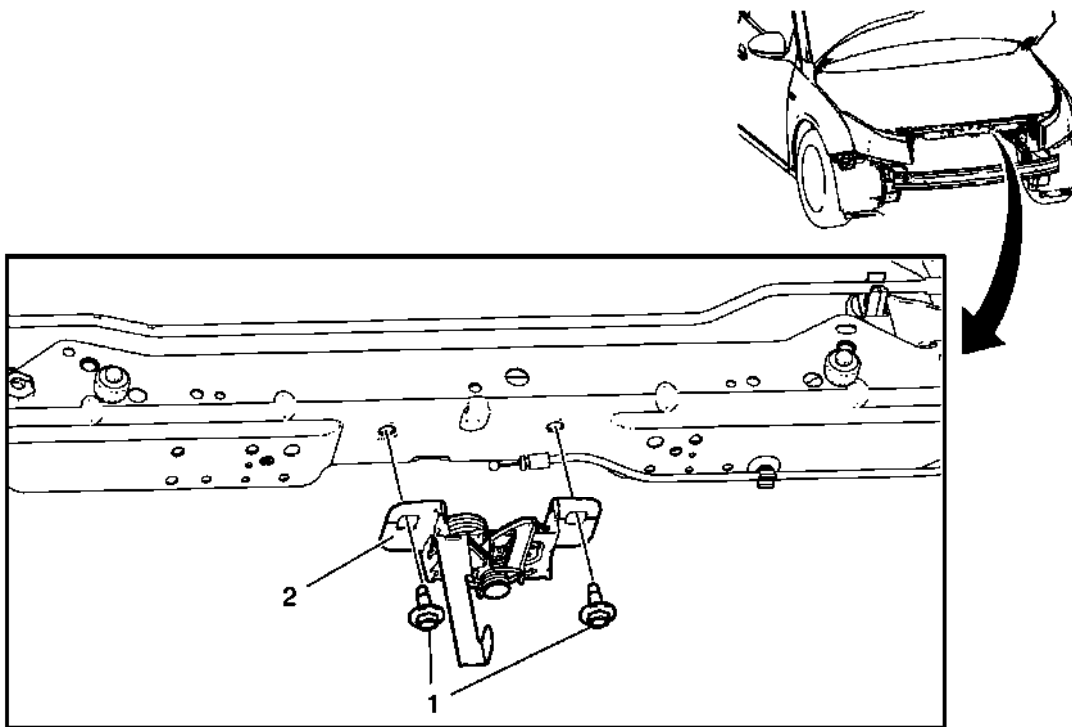


Fig. 18: Hood Primary Latch and Hood Secondary Latch
Courtesy of GENERAL MOTORS COMPANY

Hood Primary and Secondary Latch Replacement

Callout	Component Name
Preliminary Procedure 1. Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement. 2. Remove the radiator grille support reinforcement. Refer to Front Grille Support Replacement.	
1	Hood Primary and Secondary Latch Retainer Bolt (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 20 N.m (15 lb ft).
2	Hood Primary and Secondary Latch Procedure 1. To release the hood primary and secondary latch unhook the hood primary latch release cable. 2. Disconnect electrical connectors as needed.

REAR COMPARTMENT LID REPLACEMENT

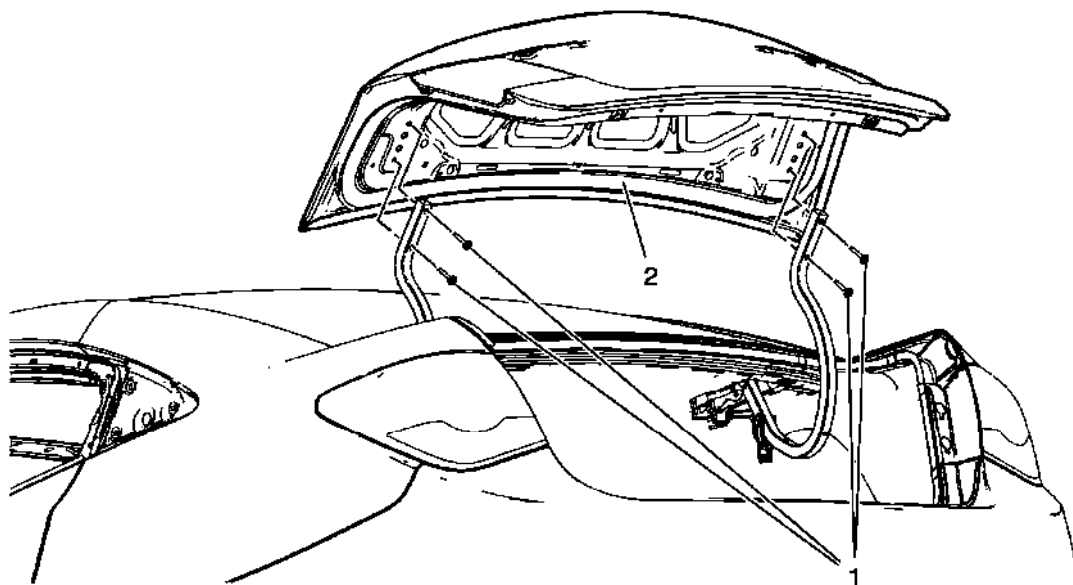


Fig. 19: Rear Compartment Lid Hinge Bolts
Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Lid Replacement

Callout	Component Name
Preliminary Procedure Remove the rear compartment lid inner panel trim. Refer to <u>Rear Compartment Lid Inner Panel Trim Replacement</u> .	
1	Rear Compartment Lid Hinge Bolt (Qty: 4) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 9 N.m (80 lb ft)
2	Rear Compartment Lid Procedure 1. Disconnect the electrical connector. 2. Adjust rear compartment as needed. Refer to <u>Clearance and Flushness Specifications</u> .

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3. Transfer components as necessary.

FRONT SIDE DOOR CHECK REPLACEMENT

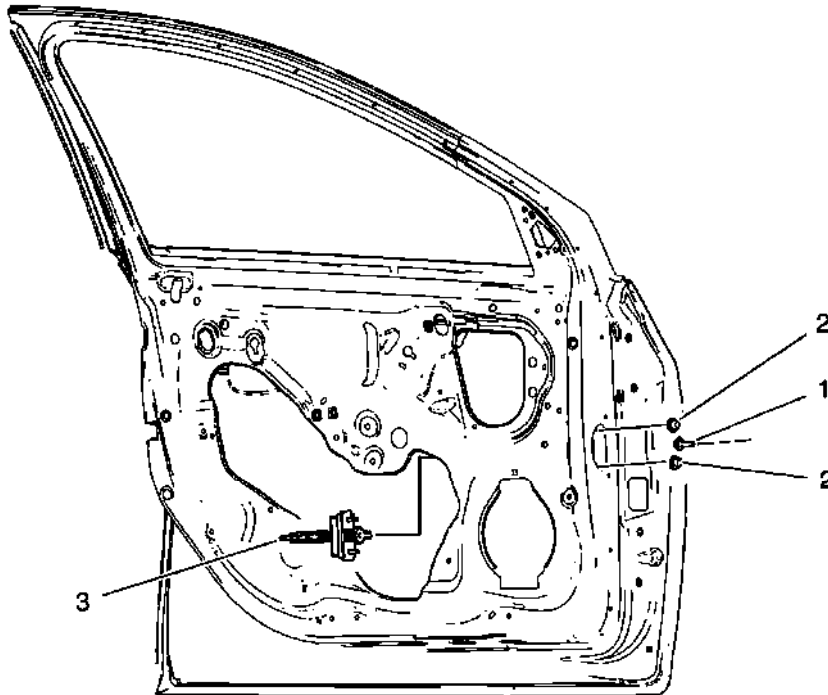


Fig. 20: Front Side Door Check

Courtesy of GENERAL MOTORS COMPANY

Front Side Door Check Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove front side door trim panel. Refer to <u>Front Side Door Trim Replacement</u>	
2. Remove the front side door water deflector. Refer to <u>Front Side Door Water Deflector Replacement</u>	
1	Front Side Door Check Link Bolt CAUTION: Refer to <u>Fastener Caution</u> TIP: Place the door in the full open position. Tighten 25 N.m (18 lb ft)
	Front Side Door Check Link Nut

2	Procedure Remove the water deflector. Tighten 9 N.m (79 lb in)
3	Front Side Door Check

FUEL TANK FILLER DOOR REPLACEMENT

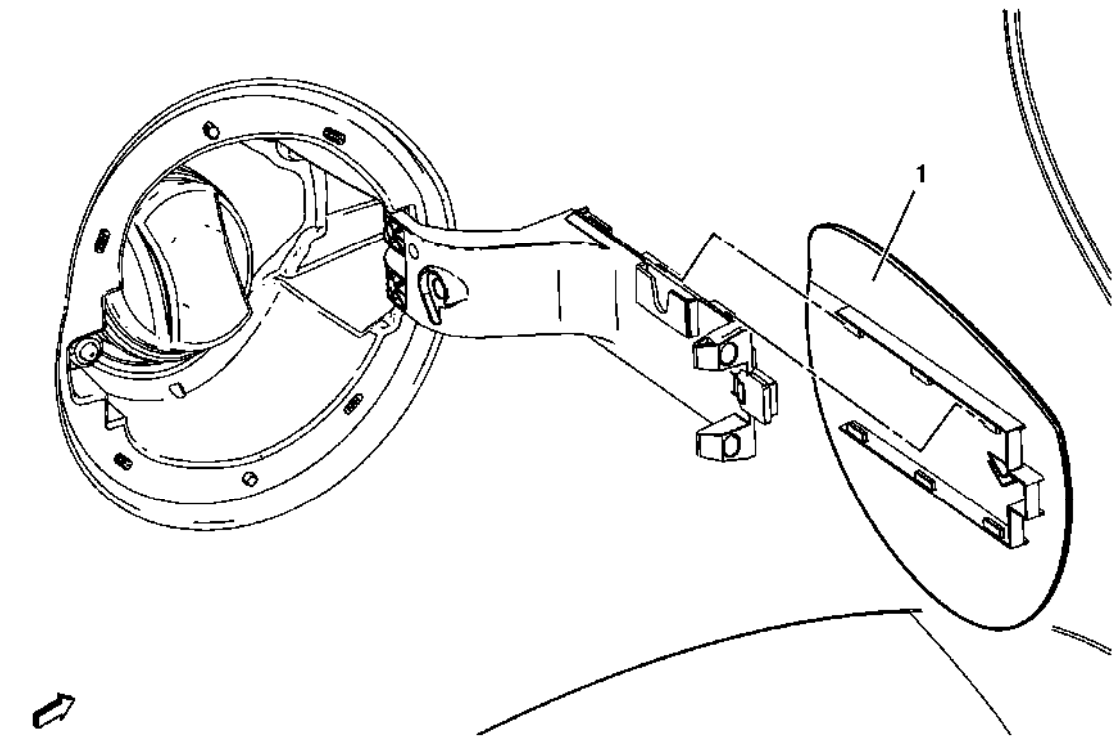
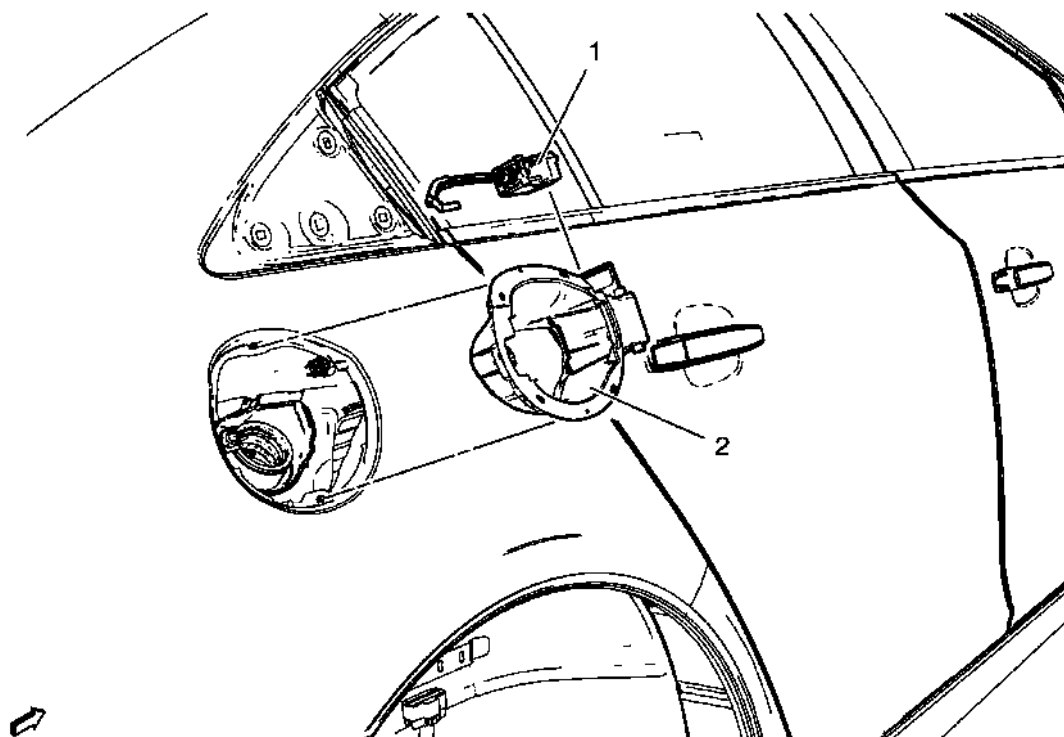


Fig. 21: Fuel Tank Filler Door Fuel Tank Filler Door
 Courtesy of GENERAL MOTORS COMPANY

Fuel Tank Filler Door Replacement

Callout	Component Name
1	Fuel Tank Filler Door Procedure 1. Open the fuel tank filler door. 2. Unclip the fuel tank filler door.

FUEL TANK FILLER PIPE HOUSING REPLACEMENT

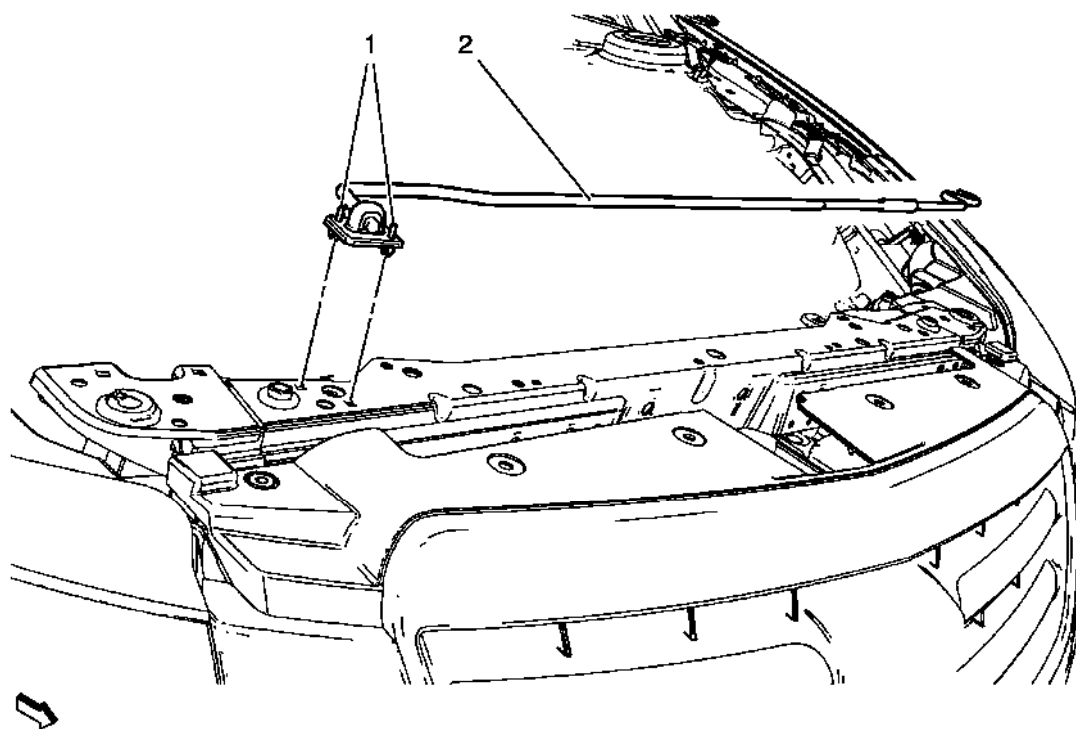
**Fig. 22: Fuel Tank Filler Pipe Housing**

Courtesy of GENERAL MOTORS COMPANY

Fuel Tank Filler Pipe Housing Replacement

Callout	Component Name
Preliminary Procedure Remove rear wheelhouse panel liner. Refer to Rear Wheelhouse Liner Replacement .	
1	Fuel Tank Filler Door Lock Actuator Procedure Disconnect electrical connector.
2	Fuel Tank Filler Pipe Housing Procedure Unclip 4 clips and remove. TIP: Push fuel tank filler door lock actuator locking rod in closed position.

HOOD HOLD-OPEN ROD REPLACEMENT

**Fig. 23: Hood Hold-Open Rod**

Courtesy of GENERAL MOTORS COMPANY

Hood Hold-Open Rod Replacement

Callout	Component Name
WARNING: Refer to <u>Hood Hold-Open Device Warning</u> .	
Preliminary Procedure Remove the radiator grille reinforcement support. Refer to <u>Front Grille Support Replacement</u> .	
1	Hood Hold Open Rod Pivot (Qty: 2)
2	Hood Hold Open Rod

REAR COMPARTMENT LID HINGE TORQUE ROD REPLACEMENT

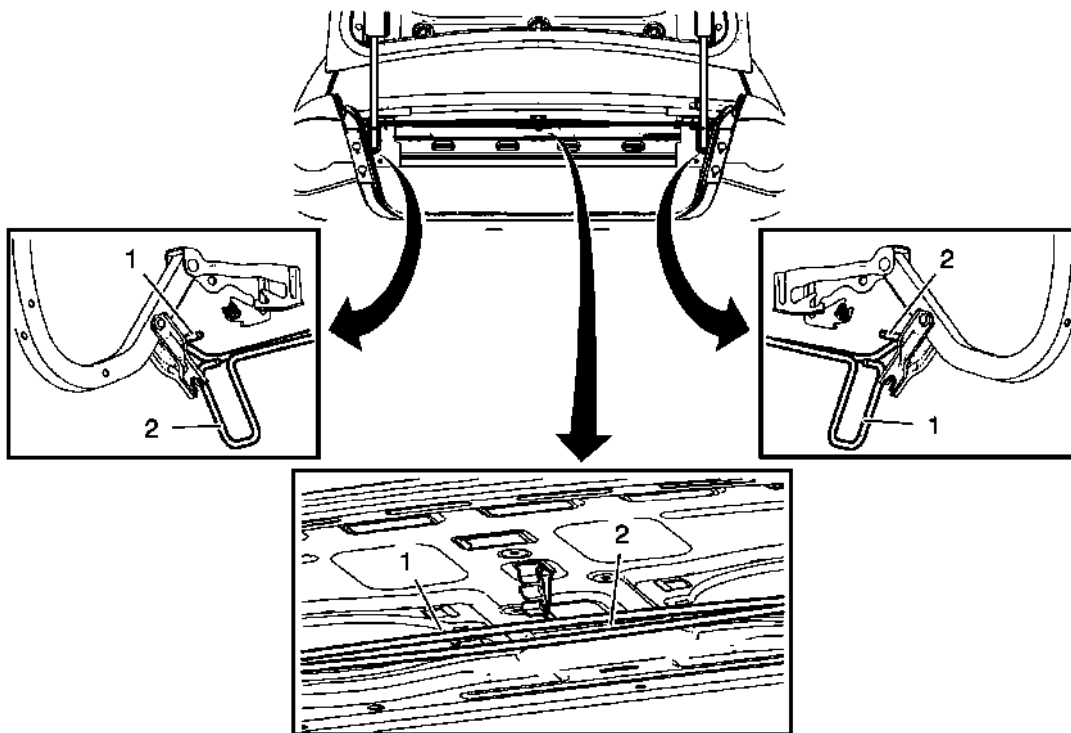


Fig. 24: Rear Compartment Lid Hinge Torque Rods & Components

Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Lid Hinge Torque Rod Replacement

Callout	Component Name
WARNING: When a rear compartment lid hold open device is being removed or installed, provide alternate support to avoid the possibility of damage to the vehicle or personal injury.	
1	Rear Compartment Lid Hinge Torque Rod - Right Side Procedure 1. Using a suitable pair of pliers, rotate the torque rod upward to release it from the swing bracket and slowly rotate the torque rod downward until the tension is released. 2. Unclip torque rod from hinge retainers. 3. Remove the torque rod from the center support. 4. Remove the torque rod from the vehicle.
2	Rear Compartment Lid Hinge Torque Rod - Left Side Procedure 1. Using a suitable pair of pliers, rotate the torque rod upward to release it from the swing bracket and slowly rotate the torque

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- rod downward until the tension is released.
2. Unclip torque rod from hinge retainers.
3. Remove the torque rod from the center support.
4. Remove the torque rod from the vehicle.

HOOD REAR WEATHERSTRIP REPLACEMENT

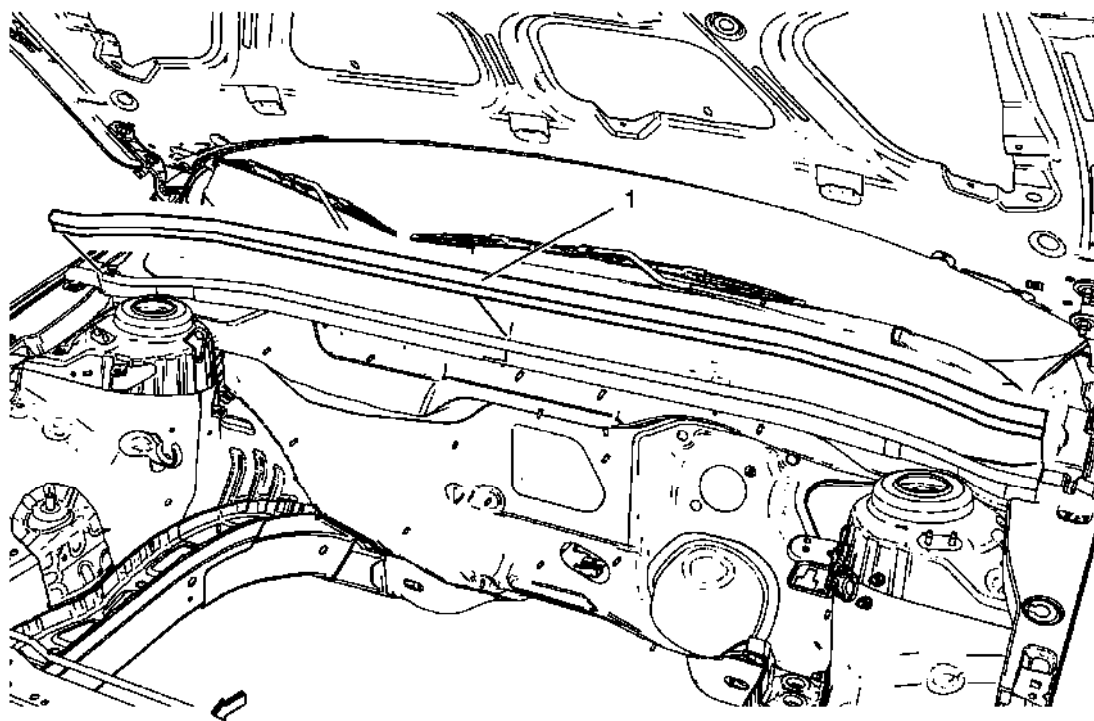


Fig. 25: Hood Rear Weatherstrip
Courtesy of GENERAL MOTORS COMPANY

Hood Rear Weatherstrip Replacement

Callout	Component Name
1	Hood Rear Weatherstrip

FRONT GRILLE SUPPORT REPLACEMENT

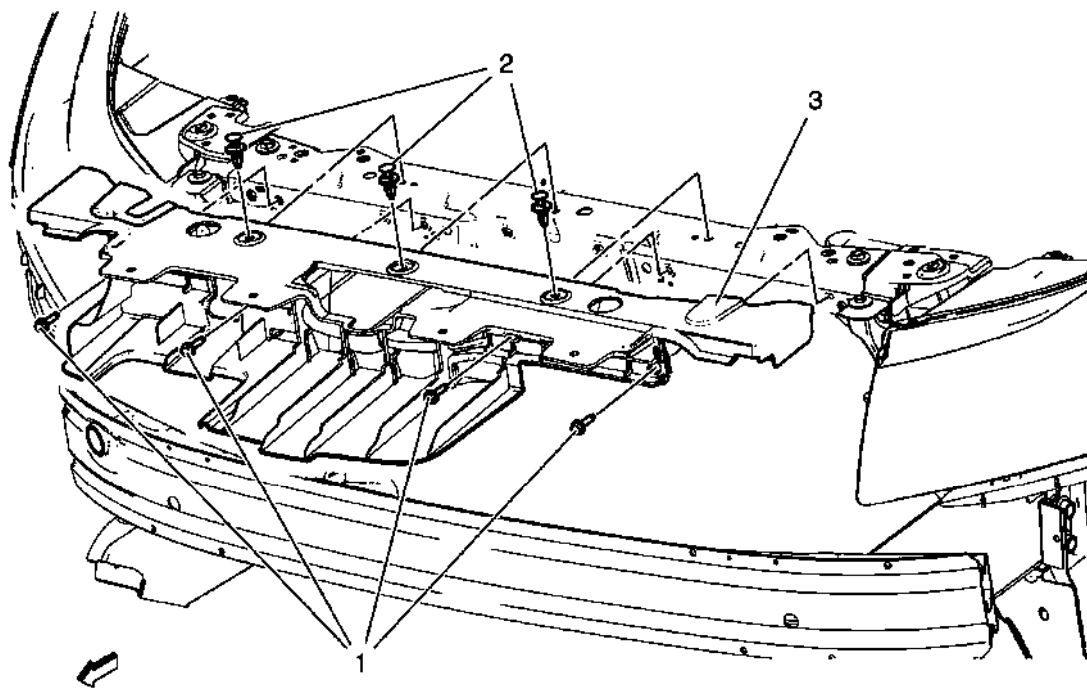


Fig. 26: Radiator Grille Reinforcement Support
Courtesy of GENERAL MOTORS COMPANY

Front Grille Support Replacement

Callout	Component Name
Preliminary Procedure Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement .	
1	Radiator Grille Reinforcement Support Bolt (Qty: 4) CAUTION: Refer to Fastener Caution . Tighten 10 N.m (89 lb in).
2	Radiator Grille Reinforcement Support Retainer (Qty: 3)
3	Radiator Grille Reinforcement Support

FRONT OR REAR SIDE DOOR LOWER WEATHERSTRIP REPLACEMENT

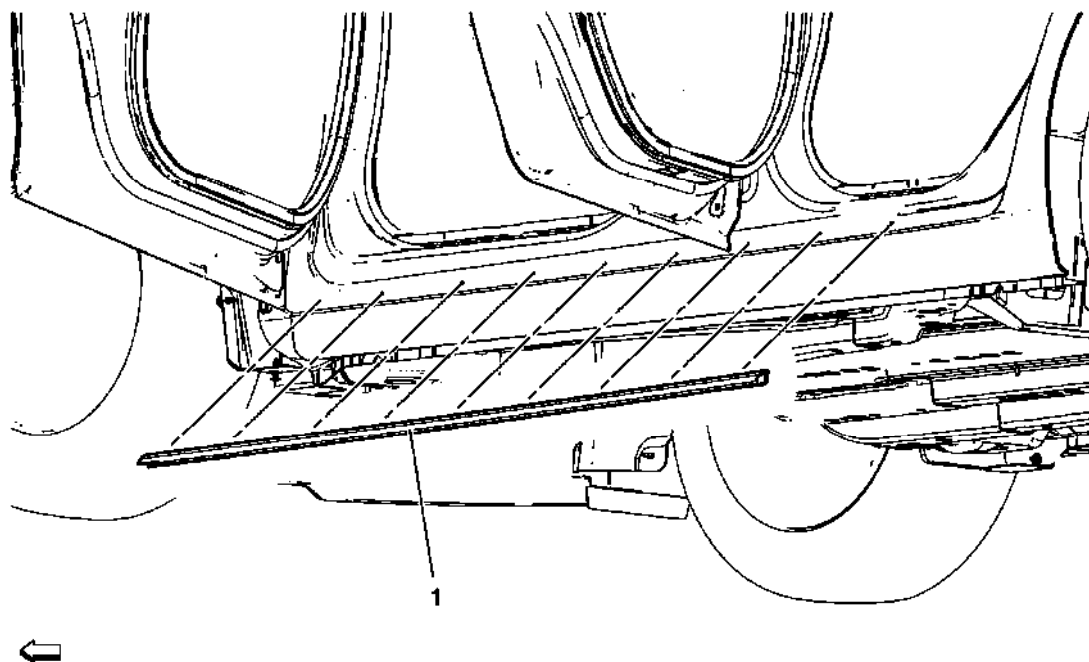


Fig. 27: Side Door Lower Weatherstrip
Courtesy of GENERAL MOTORS COMPANY

Front or Rear Side Door Lower Weatherstrip Replacement

Callout	Component Name
1	Front and Rear Side Door Lower Weatherstrip
Procedure	
1. Open the side doors at full opening position. 2. Unclip the front and rear side door lower weatherstrip from the rocker outer panel.	

FRONT SIDE DOOR WEATHERSTRIP REPLACEMENT - DOOR SIDE

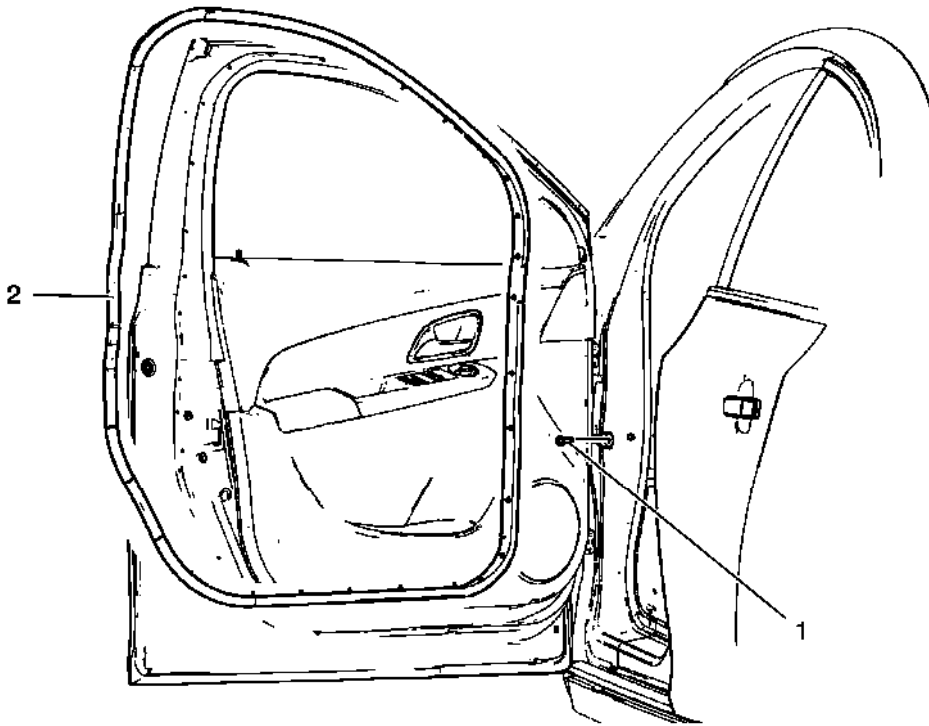


Fig. 28: Front Side Door Weatherstrip - Door Side
 Courtesy of GENERAL MOTORS COMPANY

Front Side Door Weatherstrip Replacement - Door Side

Callout	Component Name
1	Front Side Door Check Bolt CAUTION: Refer to <u>Fastener Caution</u> . Tighten 25 N.m (19 lb ft)
2	Front Side Door Weatherstrip - Door Side Procedure 1. Unclip weatherstrip from front side door. 2. When removing protective liners from adhesive tape, be careful not to touch tape with hands and do not allow tape to come in contact with dirt or any foreign matter prior to adhesion.

FRONT SIDE DOOR WEATHERSTRIP REPLACEMENT - BODY SIDE

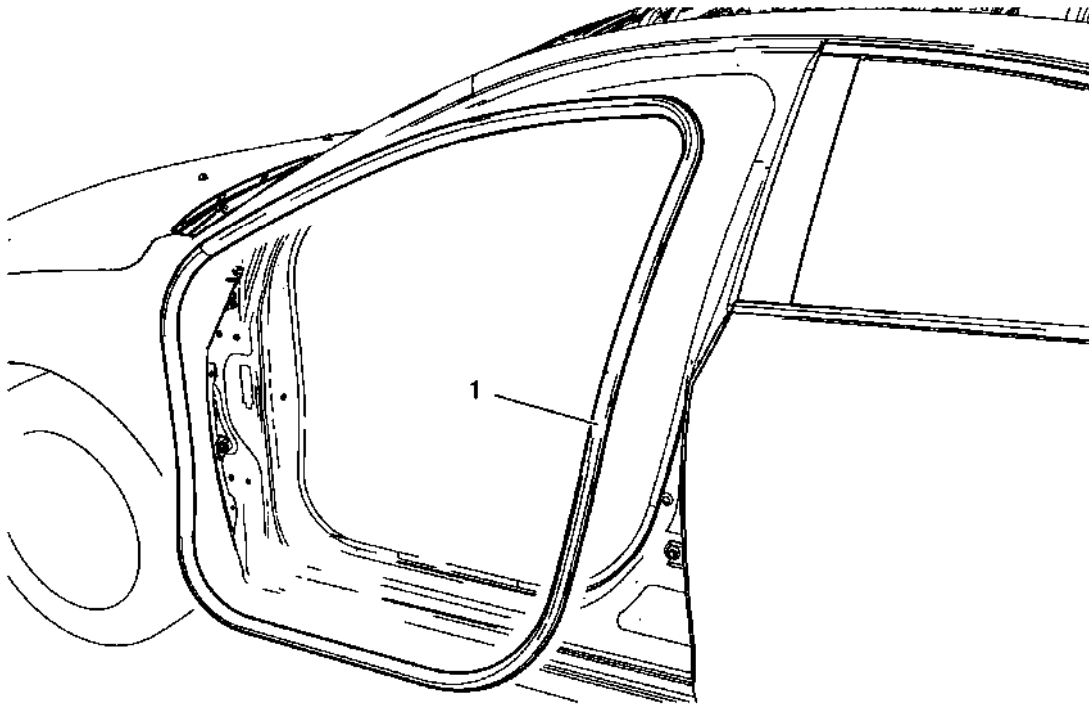


Fig. 29: Front Side Door Weatherstrip - Body Side
Courtesy of GENERAL MOTORS COMPANY

Front Side Door Weatherstrip Replacement - Body Side

Callout	Component Name
1	Front Side Door Weatherstrip- Body Side Procedure 1. Start at the rear upper corner of the door opening and pull the weatherstrip away from the door opening flange. 2. Position the weatherstrip in the upper corner of the center pillar. 3. Working downward along the front edge, install the weatherstrip on the door opening flange ensuring that the carrier is fully seated in the corners. 4. Using a rubber mallet, ensure that the weatherstrip is seated on the entire door opening flange.

REAR COMPARTMENT LID WEATHERSTRIP REPLACEMENT

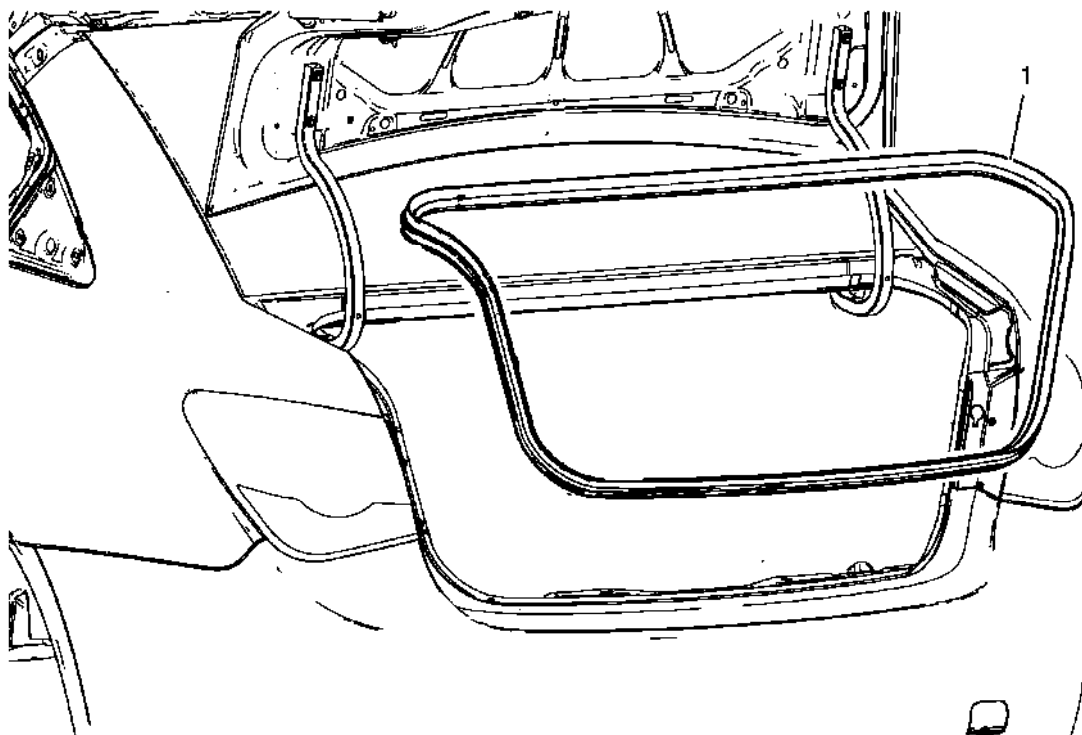


Fig. 30: Rear Compartment Lid Weatherstrip
Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Lid Weatherstrip Replacement

Callout	Component Name
1	Rear Compartment Lid Weatherstrip Procedure 1. Start at the upper corner of the rear compartment opening and pull the weatherstrip away from the rear compartment opening flange. 2. Position the weatherstrip in the upper corner of the rear compartment opening. 3. Working downward along the edge, install the weatherstrip on the rear compartment opening flange ensuring that the carrier is fully seated in the corners. 4. Using a rubber mallet, ensure that the weatherstrip is seated on the entire trunk opening flange.

REAR SIDE DOOR WEATHERSTRIP REPLACEMENT - DOOR SIDE

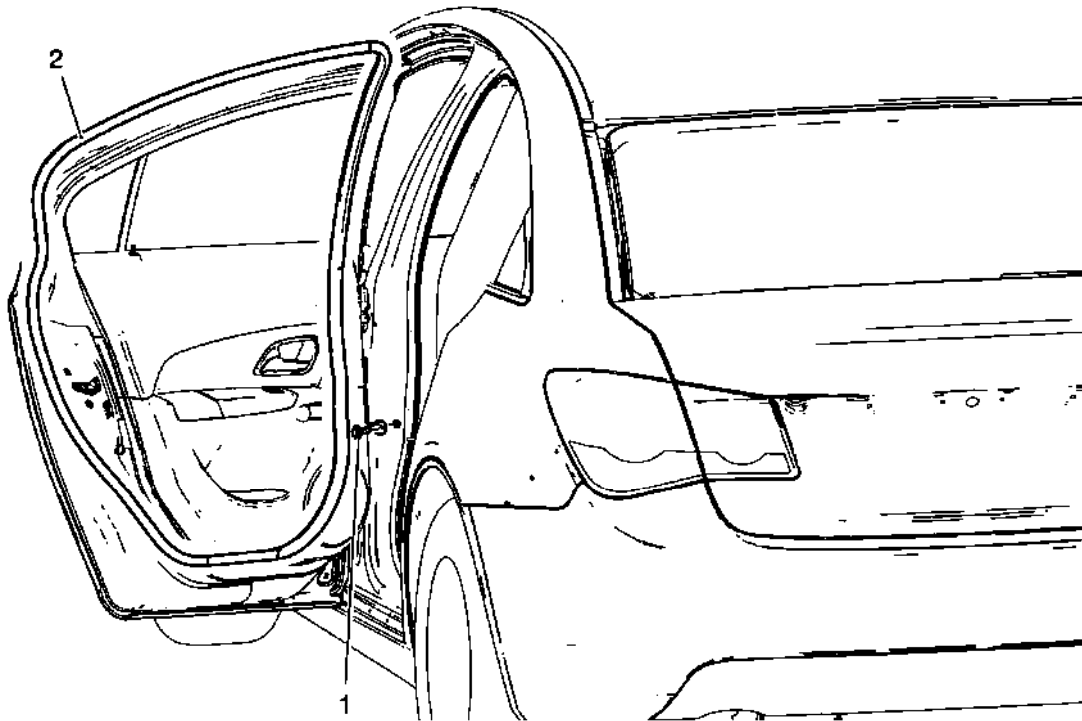


Fig. 31: Rear Side Door Weatherstrip - Door Side
Courtesy of GENERAL MOTORS COMPANY

Rear Side Door Weatherstrip Replacement - Door Side

Callout	Component Name
1	Rear Side Door Check Bolt CAUTION: Refer to <u>Fastener Caution</u> . Tighten 25 N.m (19 lb ft)
2	Rear Side Door Weatherstrip - Door Side Procedure 1. Unclip weatherstrip from rear side door. 2. When removing protective liners from adhesive tape, be careful not to touch tape with hands and do not allow tape to come in contact with dirt or any foreign matter prior to adhesion.

REAR SIDE DOOR WEATHERSTRIP REPLACEMENT - BODY SIDE

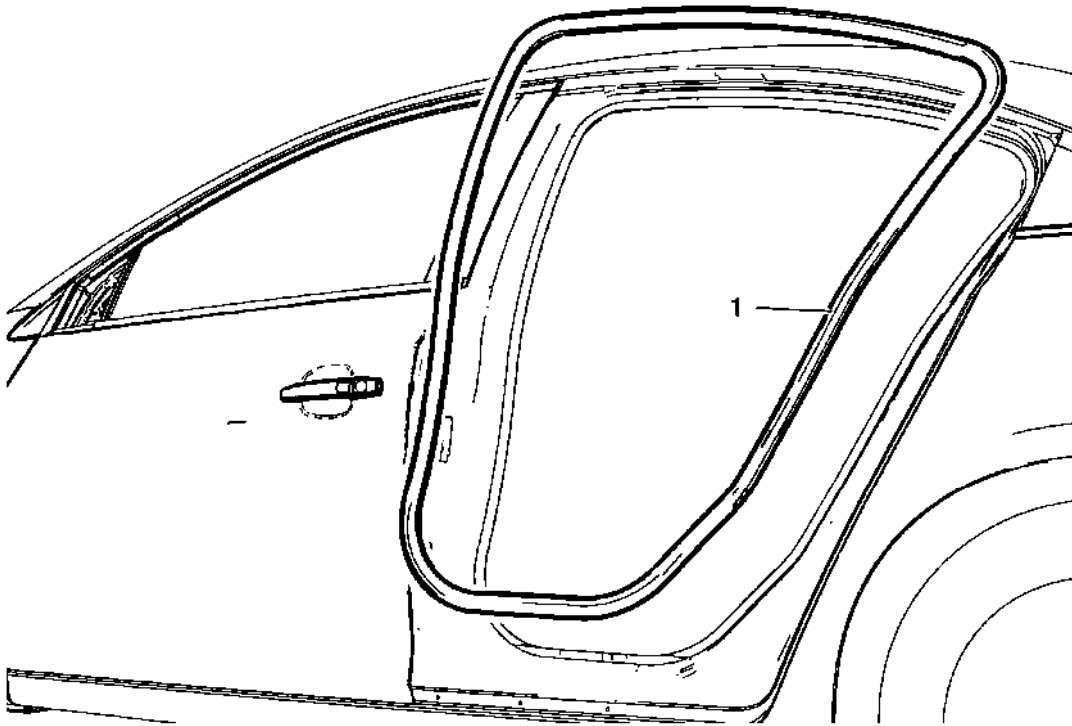


Fig. 32: Rear Side Door Weatherstrip - Body Side
 Courtesy of GENERAL MOTORS COMPANY

Rear Side Door Weatherstrip Replacement - Body Side

Callout	Component Name
1	Rear Side Door Weatherstrip- Body Side Procedure 1. Start at the front upper corner of the door opening and pull the weatherstrip away from the door opening flange. 2. Position the weatherstrip in the upper corner of the center pillar. 3. Working downward along the front edge, install the weatherstrip on the door opening flange ensuring that the carrier is fully seated in the corners. 4. Using a rubber mallet, ensure that the weatherstrip is seated on the entire door opening flange.

DESCRIPTION AND OPERATION

HOOD AJAR INDICATOR DESCRIPTION AND OPERATION

Hood Ajar Switch

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The body control module (BCM) applies B+ to the hood ajar signal circuit and monitors the voltage to determine the position of the hood. When the hood is closed, the switch is open and voltage remains high. When the hood is open, the switch is closed and the voltage is pulled low.

The BCM uses the hood ajar switch as a content theft deterrent alarm trigger.

Hood Ajar Indicator/Message

When the hood is ajar, a message is displayed on the DIC or the hood ajar indicator will be illuminated.