

2018 ACCESSORIES & EQUIPMENT

Bumpers And Fascias - Equinox, Terrain

SPECIFICATIONS

FASTENER SPECIFICATIONS

Reusable Threaded Fastener Tightening Specifications

NOTE: <i>All fasteners listed in this table can be reused after removal.</i>	
Application	Specification
	Metric (English)
Front Bumper Fascia Bolt	2.5 N.m (22 lb in)
Front Bumper Fascia Center Support Bolt	9 N.m (80 lb in)
Front Bumper Fascia Guide Bolt	2.5 N.m (22 lb in)
Front Bumper Fascia Headlamp Opening Bracket Bolt	2.5 N.m (22 lb in)
Front Bumper Fascia Lower Reinforcement Bolt	2.5 N.m (22 lb in)
Front Bumper Fascia Lower Stiffener Bolt	22 N.m (16 lb ft)
Front Bumper Fascia Support Brace Bolt	9 N.m (80 lb in)
Front Bumper Impact Bar Bolt	30 N.m (22 lb ft)
Front Bumper Secondary Shutter Bolt	2.5 N.m (22 lb in)
Front Bumper Shutter Bolt	2.5 N.m (22 lb in)
Front Grille Bolt	2.5 N.m (22 lb in)
Headlamp Bolt	2.5 N.m (22 lb in)
Horn Bolt	9 N.m (80 lb in)
Liftgate Bumper Pad Bolt	2.5 N.m (22 lb in)
Radiator Air Upper Baffle Bolt	2.5 N.m (22 lb in)
Rear Bumper Fascia Bolt	2.5 N.m (22 lb in)
Rear Bumper Fascia Lower Bolt	2.5 N.m (22 lb in)
Rear Bumper Impact Bar Bolt	58 N.m (43 lb ft)
Rear Bumper Impact Bar Nut	58 N.m (43 lb ft)

SCHEMATIC WIRING DIAGRAMS

ACTIVE GRILLE AIR SHUTTER WIRING SCHEMATICS

Active Grille Air Shutter (VTI)

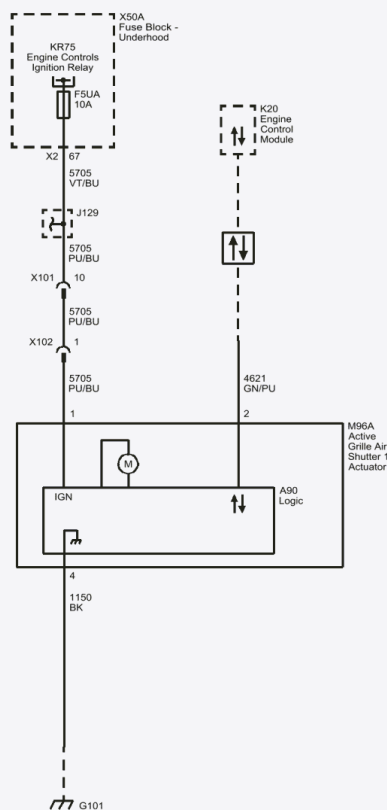


Fig. 1: Active Grille Air Shutter (VTI)

Courtesy of GENERAL MOTORS COMPANY

DIAGNOSTIC INFORMATION AND PROCEDURES

DTC P059F OR P151E: ACTIVE GRILLE AIR SHUTTER

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 P059F

Active Grille Air Shutter 1 Performance

DTC P151E

Active Grille Air Shutter Actuator 1 Signal Message Counter Incorrect

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Ignition	P059F, P151E	P059F, P151E	- -	- -
Local Interconnect Network Serial Data Bus	U1510	U1510	U1510	U1510
Ground	-	P059F, P151E	-	- -

Circuit/System Description

The active grille air shutter actuator closes louvers at the front bumper to enhance vehicle aerodynamics in driving situations where cooling and A/C loads are relatively low and high levels of front end airflow

are not required. If high levels of airflow are required the active grille air shutter actuator opens the louvers. The Local Interconnect Network (LIN) Serial Data Bus signal from the engine control module, ignition and ground circuits enable the active grille air shutter actuator to operate. If the conditions for opening the louvers are reached the engine control module commands the active grille air shutter actuator to open the louvers.

Conditions for Running the DTC

- Ignition On/Vehicle in Service Mode.
- The battery voltage is greater than 10 V.
- The DTC runs continuously when the above conditions are met.

Conditions for Setting the DTC

- The DTC P059F will be set during a key cycle when the commanded louver position can not be achieved after 5 attempts are made to move the louver. The DTC will be stored as current for this key cycle but the malfunction indicator lamp (MIL) will not be illuminated. The malfunction indicator lamp will illuminate in the second key cycle after a failed movement attempt is made in each of two back to back key cycles.
- The DTC P151E will set if there is a serial data communication failure.

Action Taken When the DTC Sets

DTC P059F and P151E are type B DTCs.

Conditions for Clearing the DTC

DTC P059F and P151E are type B DTCs.

Reference Information

Schematic Reference

Active Grille Air Shutter Wiring Schematics

Connector End View Reference

COMPONENT CONNECTOR END VIEWS - INDEX

Description and Operation

Active Grille Air Shutter 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/Vehicle in Service Mode.
2. Verify DTC U1510 is not set.

- **If DTC U1510 is set**

Refer to [Diagnostic Trouble Code \(DTC\) List - Vehicle](#) for further diagnosis.

- **Go to next step: If DTC U1510 is not set**

3. Verify the active grille air shutter position parameter changes from 0% (fully closed) to 100% (fully open) when using the scan tool ECM Active Grille Air Shutter Position control function.

- **If the louvers at the front bumper do not open and close**

Refer to Circuit/System Testing below.

- **Go to next step: If the louvers at the front bumper open and close**

4. Verify none of the following conditions are present:

- Snow or ice packed in the front fascia which prevents the louvers from moving.
- Debris or foreign objects which prevent the louvers from moving.
- **If any of the conditions are present**

Clear any snow, ice or foreign objects from the front grille.

- **Go to next step: If none of the conditions are present**

5. All OK

Circuit/System Testing

1. Ignition/Vehicle Off and all vehicle systems Off, disconnect the harness connector(s) at the active grille air shutter actuator(s). It may take up to 2 minutes for all vehicle systems to power down.

2. Test for less than 10 Ω between the ground circuit and ground.

- **If 10 Ω or greater**

1. Ignition/Vehicle Off.

2. Test for less than 2 Ω in the ground circuit end to end.

- If 2 Ω or greater, repair the open/high resistance in the circuit.
- If less than 2 Ω , repair the open/high resistance in the ground connection.

- **Go to next step: If less than 10 Ω**

3. Ignition On/Vehicle in Service Mode.

4. Verify a test lamp illuminates between the ignition circuit and ground.

- **If the test lamp does not illuminate and the circuit fuse is good**

1. Ignition/Vehicle Off.

2. Test for less than 2 Ω in the ignition circuit end to end.

- If 2 Ω or greater, repair the open/high resistance in the circuit.
- If less than 2 Ω , verify the fuse is not open and there is voltage at the fuse. Refer to **Power Mode Mismatch**.

- **If the test lamp does not illuminate and the circuit fuse is open**

1. Ignition/Vehicle Off.

2. Test for infinite resistance between the ignition circuit and ground.

- If less than infinite resistance, repair the short to ground on the circuit.

- **Go to next step: If the test lamp illuminates**

5. Ignition/Vehicle Off, disconnect the harness connector at the K20 Engine Control Module.

1. Test for infinite resistance between the LIN Serial Data Bus circuit and ground.

- If less than infinite resistance, repair the short to ground on the circuit.
- If infinite resistance

2. Test for less than 2 Ω in the LIN Serial Data Bus circuit end to end.

- If 2 Ω or greater, repair the open/high resistance in the circuit.
- If less than 2 Ω

3. Test for less than 1 V between the LIN Serial Data Bus circuit and ground.

- If 1 V or greater, repair the short to voltage on the circuit.
- If less than 1 V

6. Test or replace the M96A Active Grille Air Shutter 1 Actuator.

7. Verify DTCs P059F, P151E or U1510 are not set while operating the vehicle under the conditions for setting the DTC.

- **If the DTC is set**

Replace the K20 Engine Control Module.

- **Go to next step: If the DTC is not set**

8. All OK.

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the repair.

[Control Module References](#) for control module replacement, programming and setup.

SYMPTOMS - ACTIVE GRILLE AIR SHUTTER

NOTE: 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 link.
2. Review the system operation in order to familiarize yourself with the system functions. Refer to [Active Grille Air Shutter Description and Operation](#).

Visual/Physical Inspection

- Inspect for aftermarket devices which may affect the operation of the system. Refer to [Checking Aftermarket Accessories](#).
- Inspect the easily accessible or visible system components for obvious damage or conditions which may 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

[Active Grille Air Shutter 1 Malfunction](#)

ACTIVE GRILLE AIR SHUTTER 1 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.

DTC Descriptors

DTC P059F

Active Grille Air Shutter 1 Performance

DTC P151E

Active Grille Air Shutter Actuator 1 Signal Message Counter Incorrect

Diagnostic Fault Information

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Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Ignition	P059F, P151E	P059F, P151E	-	-
Local Interconnect Network Serial Data Bus	U1510	U1510	U1510	U1510
Ground	-	P059F, P151E	-	-

Circuit/System Description

The active grille air shutter actuator closes louvers at the front bumper to enhance vehicle aerodynamics in driving situations where cooling and A/C loads are relatively low and high levels of front end airflow are not required. If high levels of airflow are required the active grille air shutter actuator opens the louvers. The Local Interconnect Network (LIN) Serial Data Bus signal from the engine control module, ignition and ground circuits enable the active grille air shutter actuator to operate. If the conditions for opening the louvers are reached the engine control module commands the active grille air shutter actuator to open the louvers.

Conditions for Running the DTC

- Ignition On/Vehicle in Service Mode.
- The battery voltage is greater than 10 V.
- The DTC runs continuously when the above conditions are met.

Conditions for Setting the DTC

- The DTC P059F will be set during a key cycle when the commanded louver position can not be achieved after 5 attempts are made to move the louver. The DTC will be stored as current for this key cycle but the malfunction indicator lamp (MIL) will not be illuminated. The malfunction indicator lamp will illuminate in the second key cycle after a failed movement attempt is made in each of two back to back key cycles.
- The DTC P151E will set if there is a serial data communication failure.

Action Taken When the DTC Sets

DTC P059F and P151E are type B DTCs.

Conditions for Clearing the DTC

DTC P059F and P151E are type B DTCs.

Reference Information

Schematic Reference

Active Grille Air Shutter Wiring Schematics

Connector End View Reference

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Electrical Information Reference

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

Control Module References for scan tool information

Circuit/System Verification

1. Ignition On/Vehicle in Service Mode.
2. Verify DTC U1510 is not set.
 - **If DTC U1510 is set**

Refer to Diagnostic Trouble Code (DTC) List - Vehicle for further diagnosis.
 - **Go to next step: If DTC U1510 is not set**
3. Verify the active grille air shutter position parameter changes from 0% (fully closed) to 100% (fully open) when using the scan tool ECM Active Grille Air Shutter Position control function.
 - **If the louvers at the front bumper do not open and close**

Refer to Circuit/System Testing below.
 - **Go to next step: If the louvers at the front bumper open and close**
4. Verify none of the following conditions are present:
 - Snow or ice packed in the front fascia which prevents the louvers from moving.
 - Debris or foreign objects which prevent the louvers from moving.
 - **If any of the conditions are present**

Clear any snow, ice or foreign objects from the front grille.
 - **Go to next step: If none of the conditions are present**
5. All OK

Circuit/System Testing

1. Ignition/Vehicle Off and all vehicle systems Off, disconnect the harness connector(s) at the active grille air shutter actuator(s). It may take up to 2 minutes for all vehicle systems to power down.
2. Test for less than 10 Ω between the ground circuit and ground.
 - **If 10 Ω or greater**
 1. Ignition/Vehicle Off.
 2. Test for less than 2 Ω in the ground circuit end to end.
 - If 2 Ω or greater, repair the open/high resistance in the circuit.
 - If less than 2 Ω , repair the open/high resistance in the ground connection.
 - **Go to next step: If less than 10 Ω**
3. Ignition On/Vehicle in Service Mode.
4. Verify a test lamp illuminates between the ignition circuit and ground.
 - **If the test lamp does not illuminate and the circuit fuse is good**
 1. Ignition/Vehicle Off.
 2. Test for less than 2 Ω in the ignition circuit end to end.
 - If 2 Ω or greater, repair the open/high resistance in the circuit.
 - If less than 2 Ω , verify the fuse is not open and there is voltage at the fuse. Refer to Power Mode Mismatch.
 - **If the test lamp does not illuminate and the circuit fuse is open**
 1. Ignition/Vehicle Off.
 2. Test for infinite resistance between the ignition circuit and ground.
 - If less than infinite resistance, repair the short to ground on the circuit.
 - **Go to next step: If the test lamp illuminates**
5. Ignition/Vehicle Off, disconnect the harness connector at the K20 Engine Control Module.

1. Test for infinite resistance between the LIN Serial Data Bus circuit and ground.
 - If less than infinite resistance, repair the short to ground on the circuit.
 - If infinite resistance
2. Test for less than 2 Ω in the LIN Serial Data Bus circuit end to end.
 - If 2 Ω or greater, repair the open/high resistance in the circuit.
 - If less than 2 Ω
3. Test for less than 1 V between the LIN Serial Data Bus circuit and ground.
 - If 1 V or greater, repair the short to voltage on the circuit.
 - If less than 1 V
6. Test or replace the M96A Active Grille Air Shutter 1 Actuator.
7. Verify DTCs P059F, P151E or U1510 are not set while operating the vehicle under the conditions for setting the DTC.
 - **If the DTC is set**

Replace the K20 Engine Control Module.

• **Go to next step: If the DTC is not set**
8. All OK.

Repair Instructions

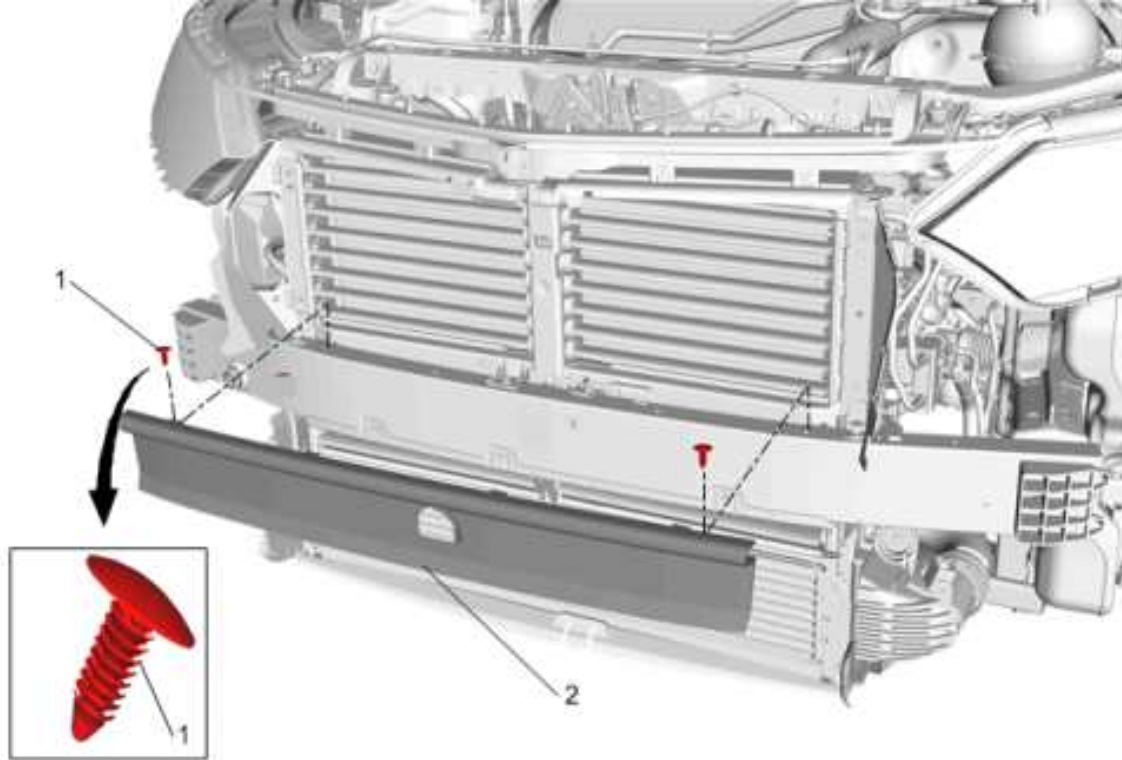
Perform the [Diagnostic Repair Verification](#) after completing the repair.

[Control Module References](#) for control module replacement, programming and setup.

REPAIR INSTRUCTIONS

FRONT BUMPER GUARD PANEL REPLACEMENT (EQUINOX)

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Fig. 2: Front Bumper Guard Panel (Equinox)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Bumper Fascia Support Brace Replacement</u>	
1	Front Bumper Guard Panel Retainer [2x]
2	Front Bumper Guard Panel

FRONT BUMPER GUARD PANEL REPLACEMENT (TERRAIN)

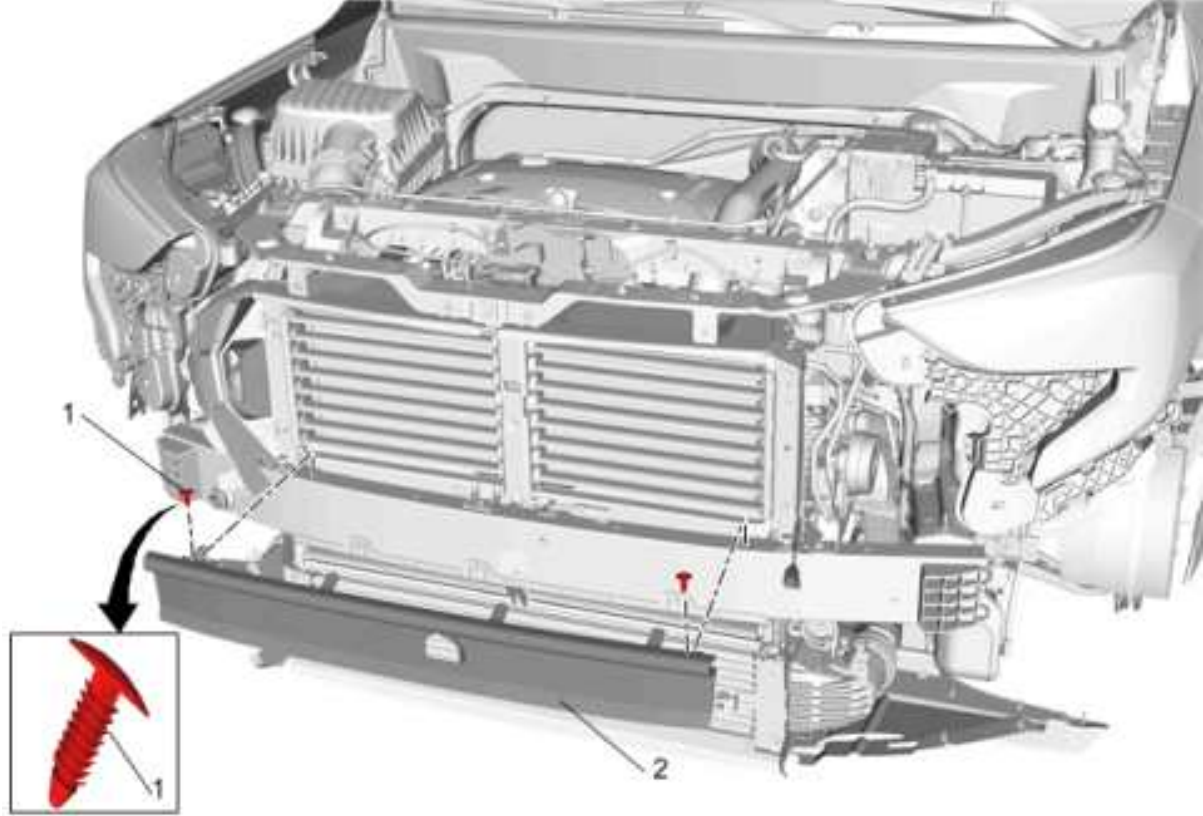


Fig. 3: Front Bumper Guard Panel (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Bumper Fascia Support Brace Replacement</u>	
1	Front Bumper Guard Panel Retainer [2x]
2	Front Bumper Guard Panel
Procedure	
Disconnect and reposition harness as necessary.	

FRONT BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (FASCIA EQUINOX)

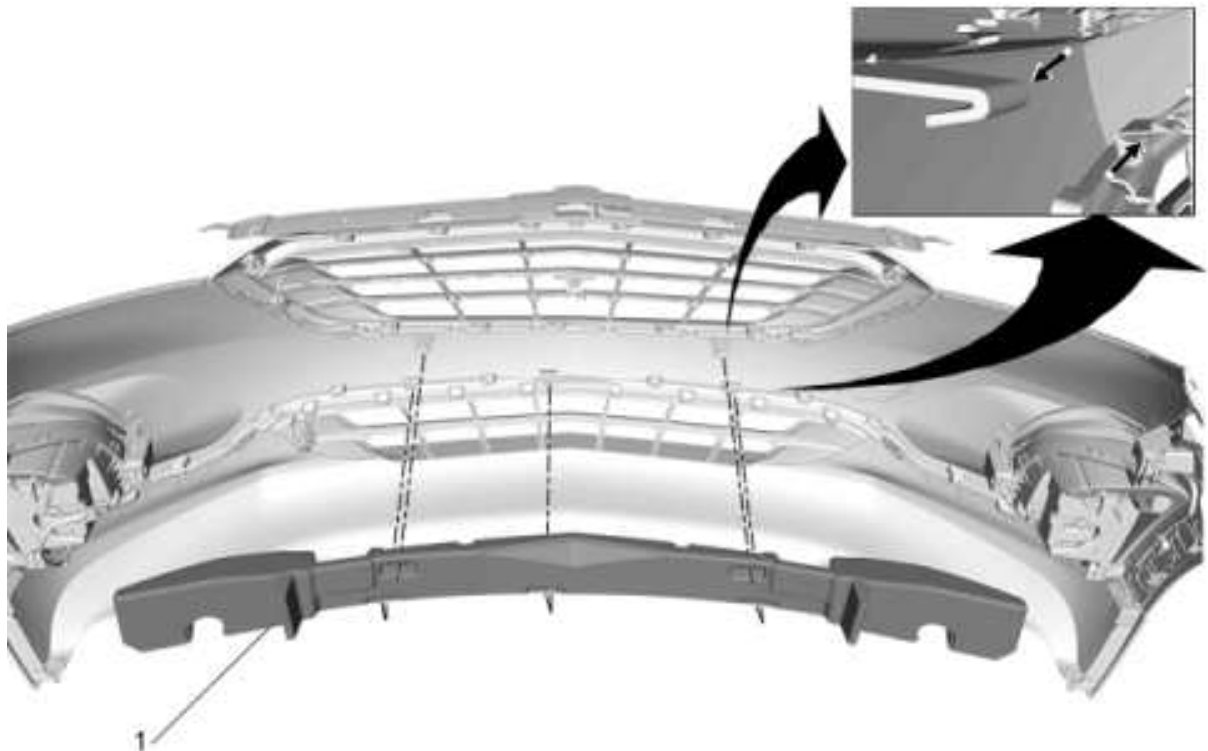


Fig. 4: Front Bumper Fascia Energy Absorber (Equinox)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. <u>Front Bumper Fascia Replacement (Equinox)</u> 2. Reposition the wiring harness.	
1	Front Bumper Fascia Energy Absorber Procedure Release the 5 retainer tabs and remove the front bumper fascia energy absorber from the fascia.

FRONT BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (IMPACT BAR EQUINOX)

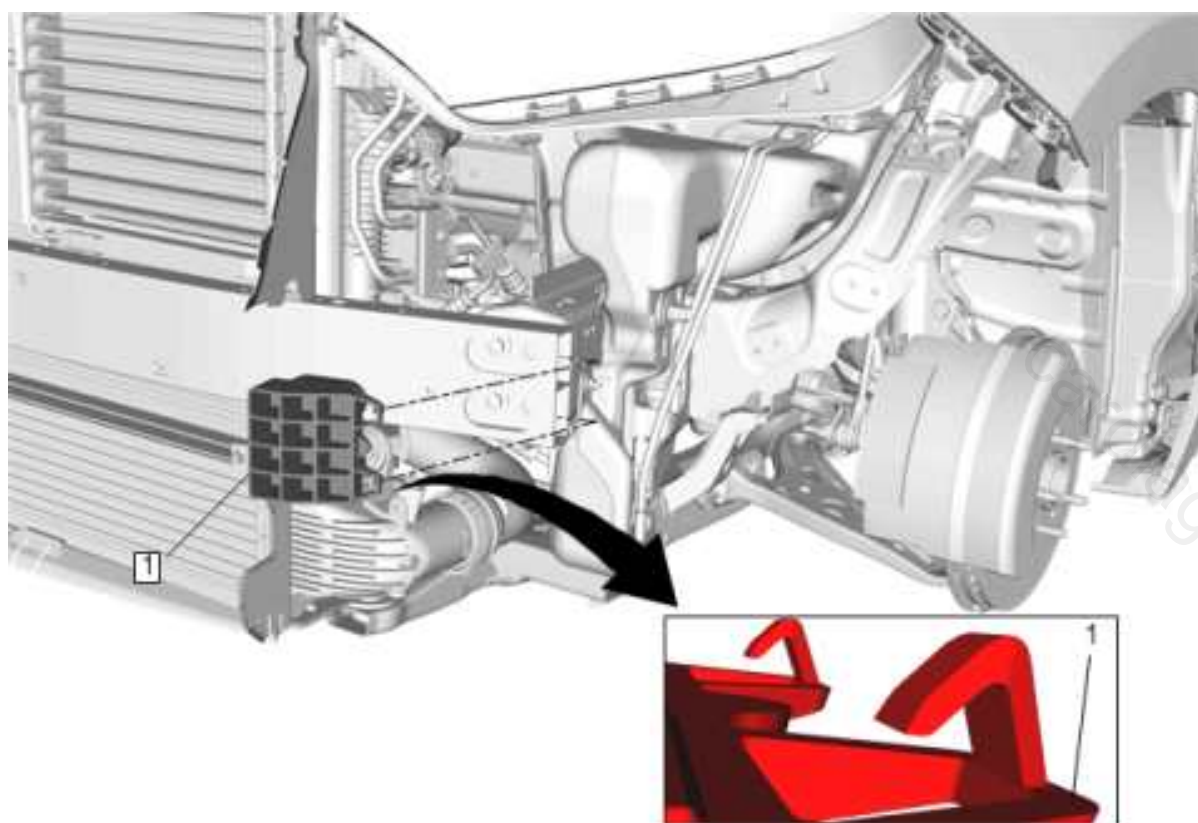


Fig. 5: Front Bumper Fascia Energy Absorber (Equinox)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. <u>Front Bumper Fascia Replacement (Equinox)</u> 2. Reposition the wiring harness.	
1	Front Bumper Fascia Energy Absorber- Outer Procedure Release the 2 retainer tabs and remove the front bumper fascia energy absorber - outer from the impact bar.

FRONT BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (FASCIA TERRAIN)

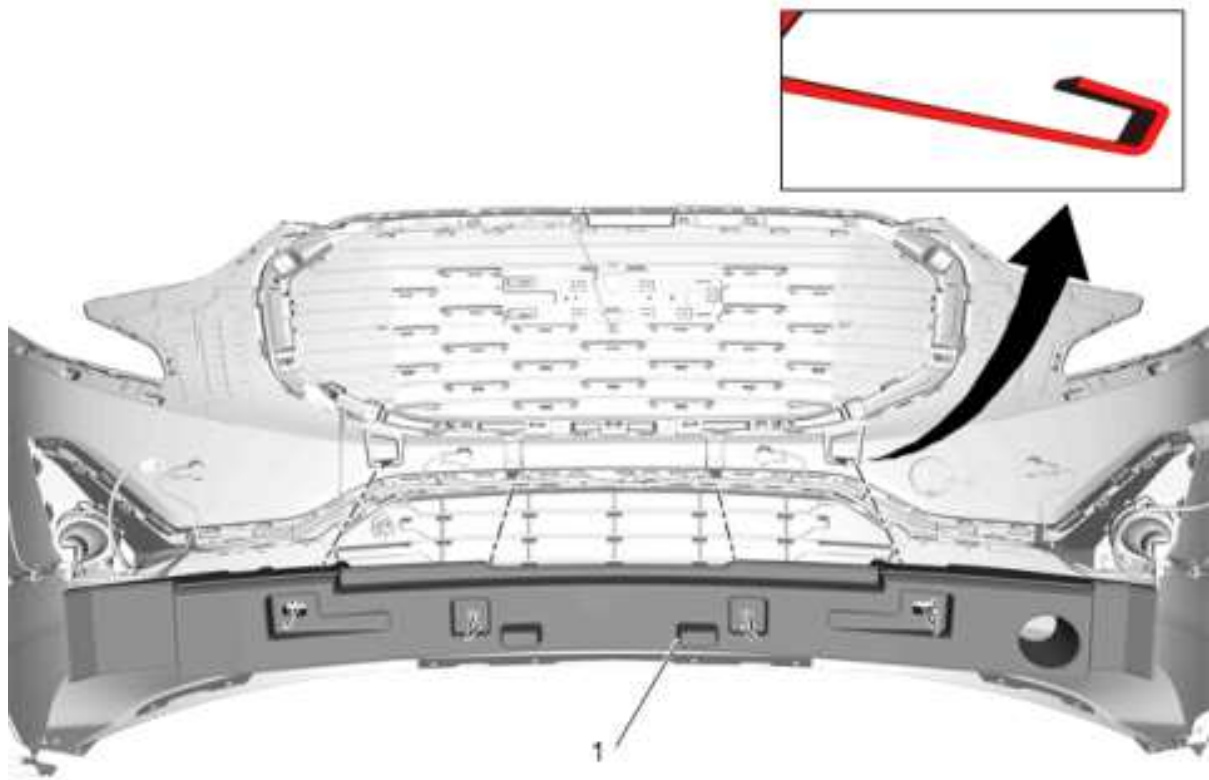


Fig. 6: Front Bumper Fascia Energy Absorber (Terrain)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures <u>Front Bumper Fascia Replacement (Terrain)</u> - Reposition the wiring harness.	
1	Front Bumper Fascia Energy Absorber Procedure Release the 4 retainer tabs and remove the front bumper fascia energy absorber from the fascia.

FRONT BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (IMPACT BAR TERRAIN)

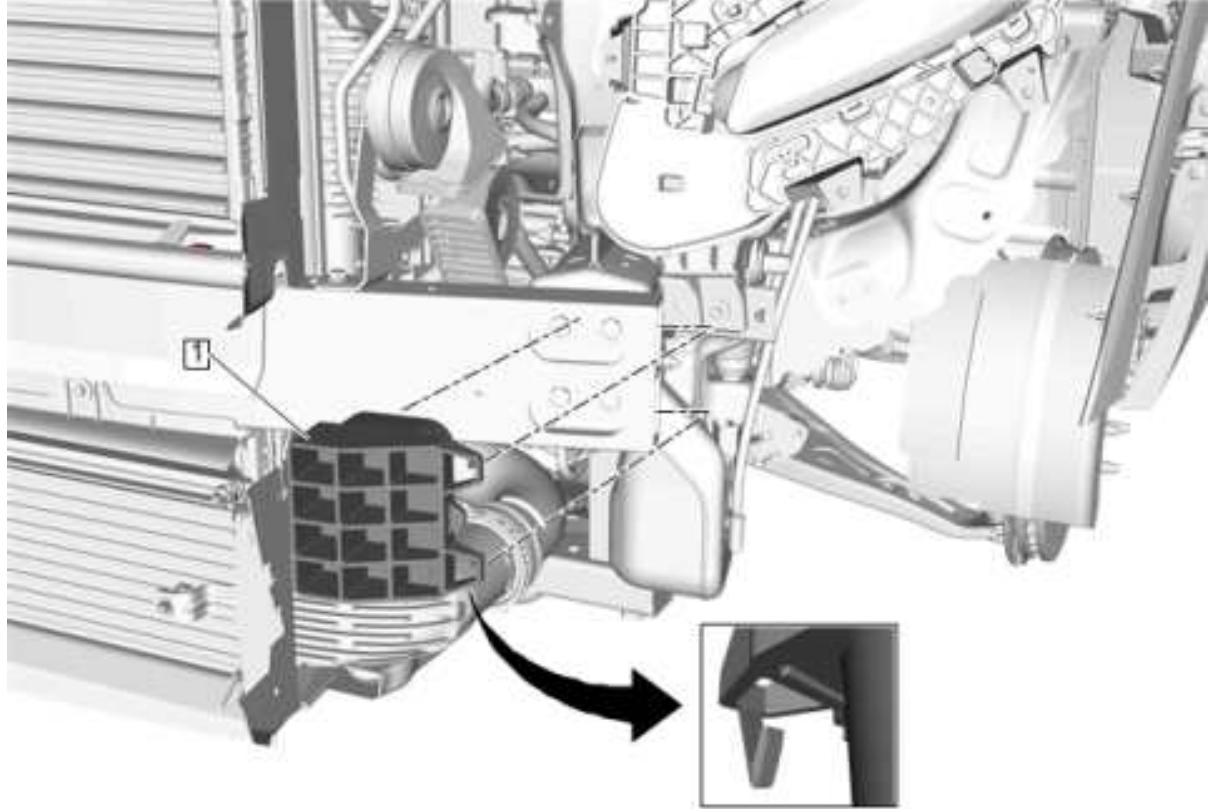


Fig. 7: Front Bumper Fascia Energy Absorber (Terrain)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures <u>Front Bumper Fascia Replacement (Terrain)</u> - Reposition the wiring harness.	
1	Front Bumper Fascia Energy Absorber Procedure Release the 2 retainer tabs and remove the front bumper fascia energy absorber from the impact bar.

FRONT BUMPER IMPACT BAR REPLACEMENT (EQUINOX)

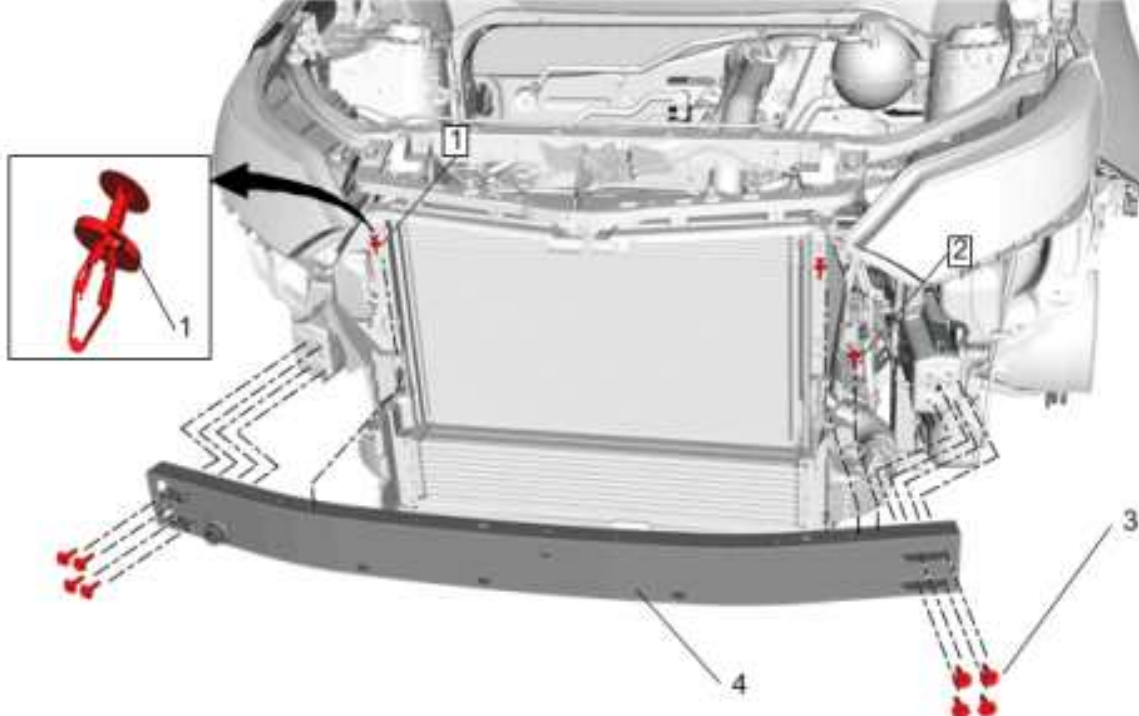


Fig. 8: Front Bumper Impact Bar (Equinox)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures Front Bumper Shutter Replacement - Remove Front Bumper Fascia Energy Absorber Replacement (Impact Bar Equinox) - Front Bumper Fascia Energy Absorber Replacement (Fascia Equinox)Front Bumper Fascia Energy Absorber Replacement (Impact Bar Equinox).	
1	Radiator Air Upper Baffle Retainer [2x]
2	Horn Bolt CAUTION: Refer to <u>Fastener Caution</u> . Tighten 9 N.m (80 lb in)
3	Front Bumper Impact Bar Bolt [8x] Tighten 30 N.m (22 lb ft)
4	Front Bumper Impact Bar Procedure - Reposition the wiring harness. - Transfer components as necessary.

FRONT BUMPER IMPACT BAR REPLACEMENT (TERRAIN)

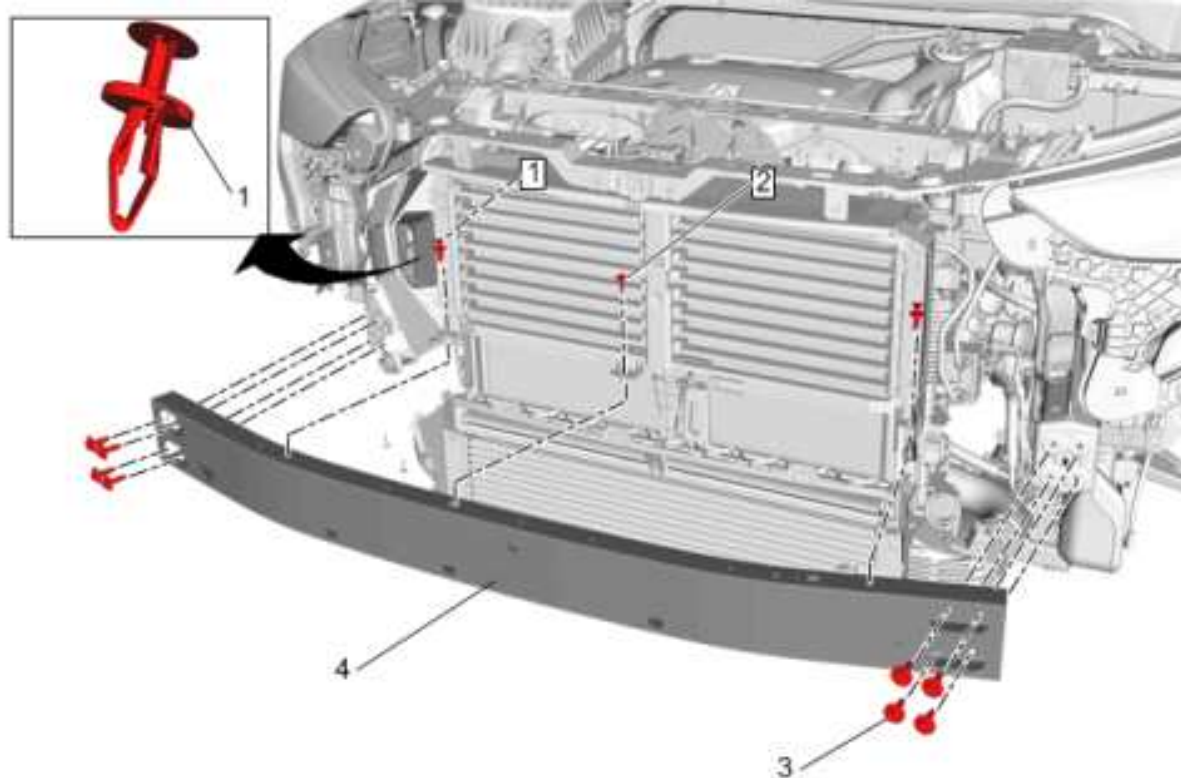


Fig. 9: Front Bumper Impact Bar (Terrain)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Procedure Front Bumper Guard Panel Replacement (Terrain) Front Bumper Fascia Energy Absorber Replacement (Fascia Terrain)Front Bumper Fascia Energy Absorber Replacement (Impact Bar Terrain) Dual Horn Replacement	
1	Radiator Air Upper Baffle Retainer [2x]
2	Front Bumper Shutter Bolt CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
3	Front Bumper Impact Bar Bolt [8x] Tighten 30 N.m (22 lb ft)
4	Front Bumper Impact Bar Procedure - Disconnect and reposition harness as necessary. - Release the front bumper secondary shutter inboard bracket from the upper shutter. - Transfer components as necessary.

FRONT BUMPER FASCIA REPLACEMENT (EQUINOX)

Removal Procedure



Fig. 10: Front Tire Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

1. Remove Front Tire Front Air Deflector (1) - [Front Tire Front Air Deflector Replacement \(Equinox\)](#)



Fig. 11: Underbody Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

2. Remove Underbody Front Air Deflector (1) - [Underbody Front Air Deflector Replacement \(Equinox\)](#)

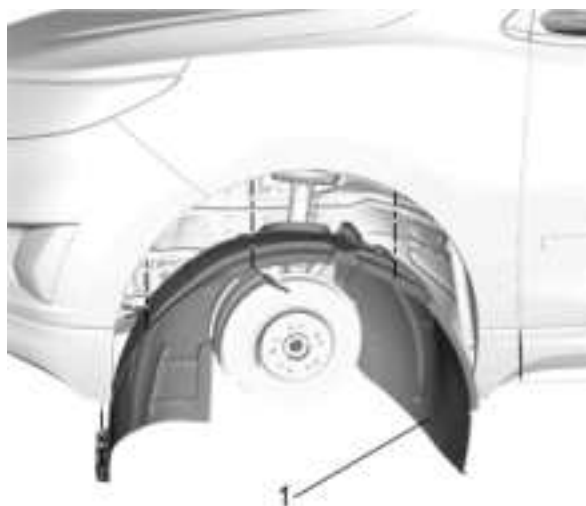


Fig. 12: Front Wheelhouse Liner
Courtesy of GENERAL MOTORS COMPANY

3. Remove Front Wheelhouse Liner- Left Side (1) - **Front Wheelhouse Liner Replacement - Left Side (Equinox)**
4. Remove Front Wheelhouse Liner- Right Side - **Front Wheelhouse Liner Replacement - Right Side (Equinox)**

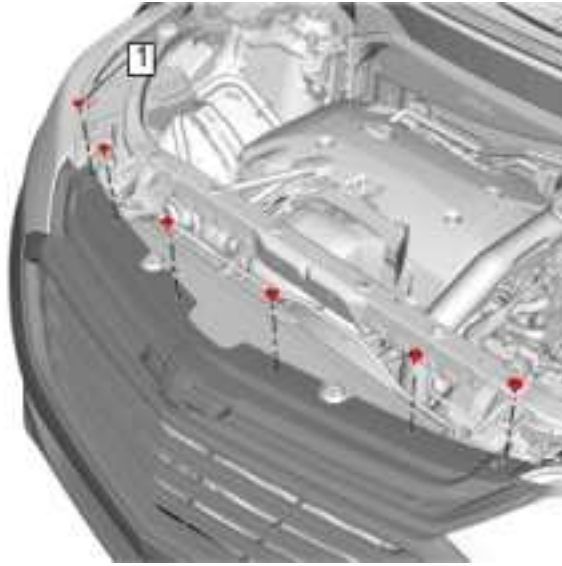


Fig. 13: Front Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

5. Remove Front Bumper Fascia Bolt (1) - [6x]

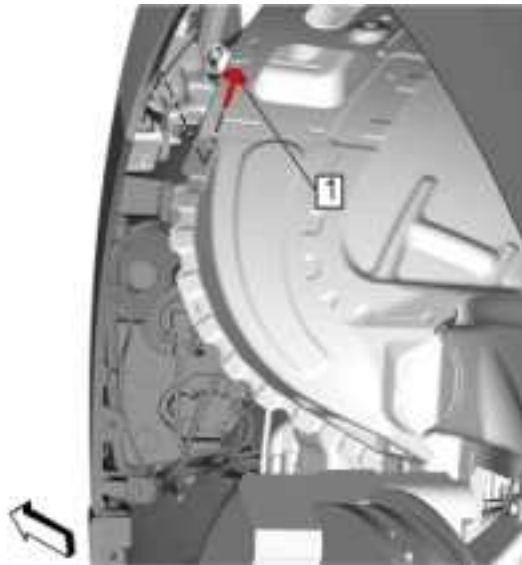


Fig. 14: Front Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Remove Front Bumper Fascia Bolt (1).

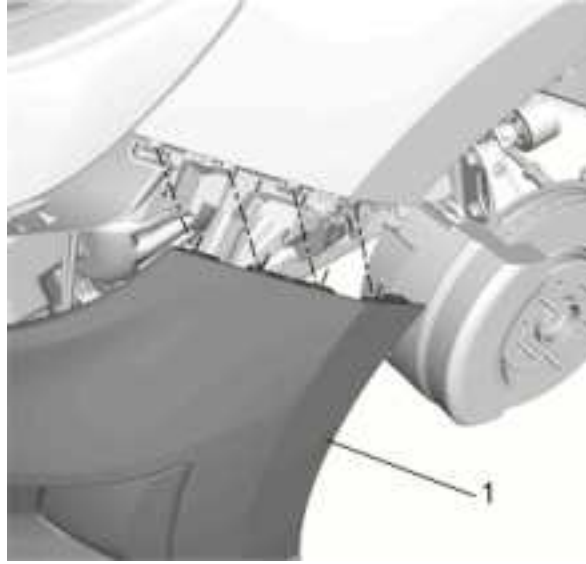


Fig. 15: Fascia

Courtesy of GENERAL MOTORS COMPANY

7. Carefully push a small nylon wedge between the fascia (1) and the fascia guide. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the fascia.

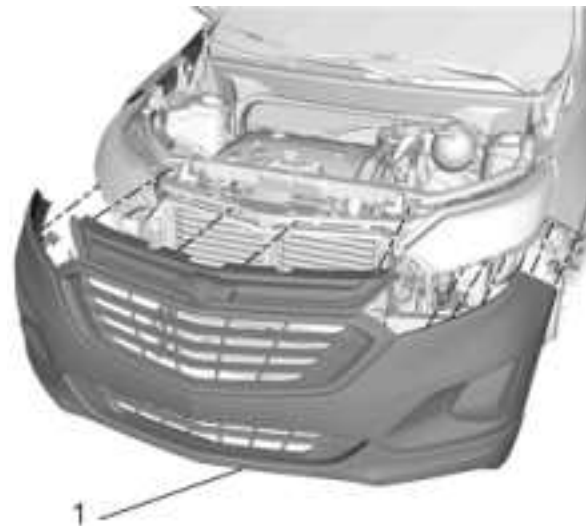


Fig. 16: Fascia

Courtesy of GENERAL MOTORS COMPANY

8. With the aid of an assistant, remove the fascia. (1)
9. Disconnect all electrical connectors.

Installation Procedure

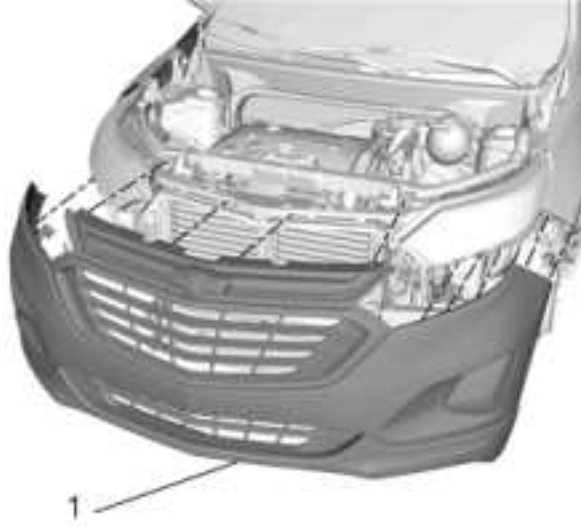


Fig. 17: Fascia

Courtesy of GENERAL MOTORS COMPANY

1. Transfer components as necessary.
2. With the aid of an assistant, install the fascia. (1)
3. Connect the electrical connectors.

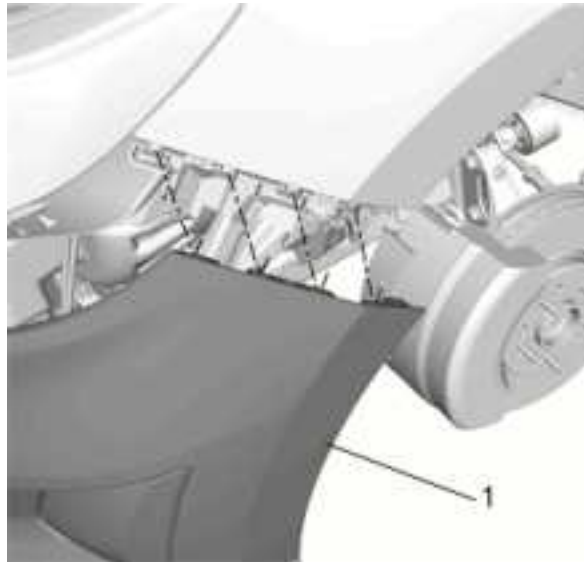
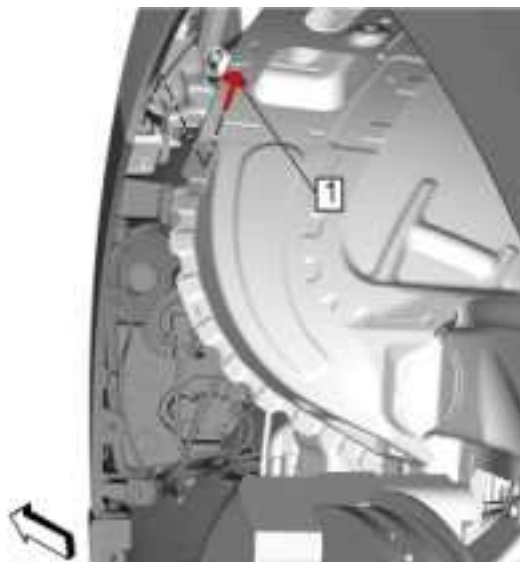


Fig. 18: Fascia

Courtesy of GENERAL MOTORS COMPANY

4. Secure the front bumper fascia (1) to the front bumper fascia guide.



CAUTION: Refer to [Fastener Caution](#) .

5. Install Front Bumper Fascia Bolt (1) and tighten 2.5 N.m (22 lb in)

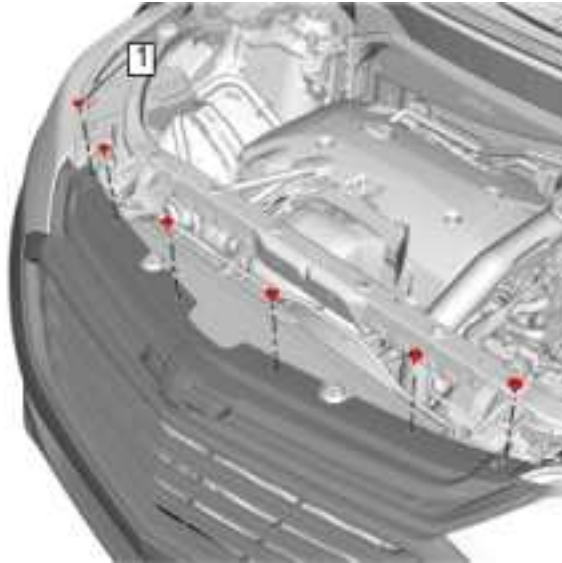


Fig. 20: Front Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Install Front Bumper Fascia Bolt (1) and tighten [6x] 2.5 N.m (22 lb in)

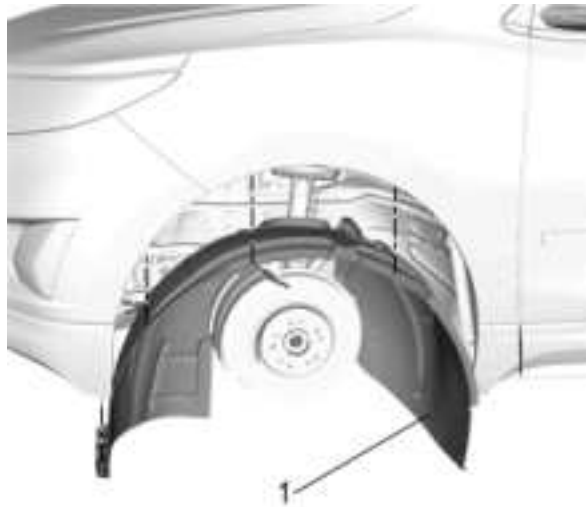


Fig. 21: Front Wheelhouse Liner
Courtesy of GENERAL MOTORS COMPANY

7. Install Front Wheelhouse Liner- Left Side (1) - [Front Wheelhouse Liner Replacement - Left Side \(Equinox\)](#)
8. Install Front Wheelhouse Liner- Right Side - [Front Wheelhouse Liner Replacement - Right Side \(Equinox\)](#)



Fig. 22: Underbody Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

9. Install Underbody Front Air Deflector (1) - **Underbody Front Air Deflector Replacement (Equinox)**



Fig. 23: Front Tire Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

10. Install Front Tire Front Air Deflector (1) - **Front Tire Front Air Deflector Replacement (Equinox)**

FRONT BUMPER FASCIA REPLACEMENT (TERRAIN)

Removal Procedure

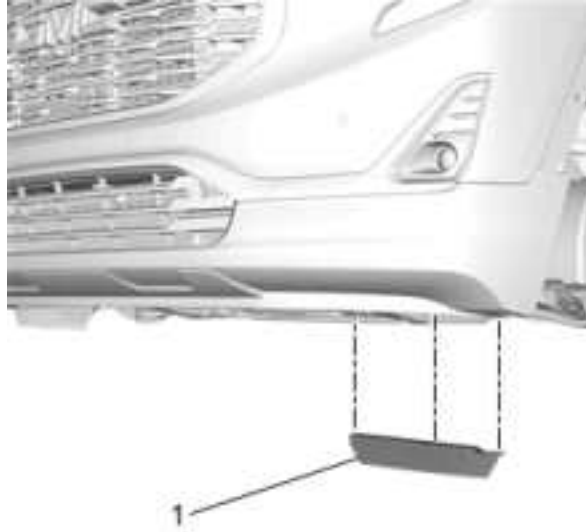


Fig. 24: Front Tire Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

1. Remove Front Tire Front Air Deflector (1) - **Front Tire Front Air Deflector Replacement (Terrain)**

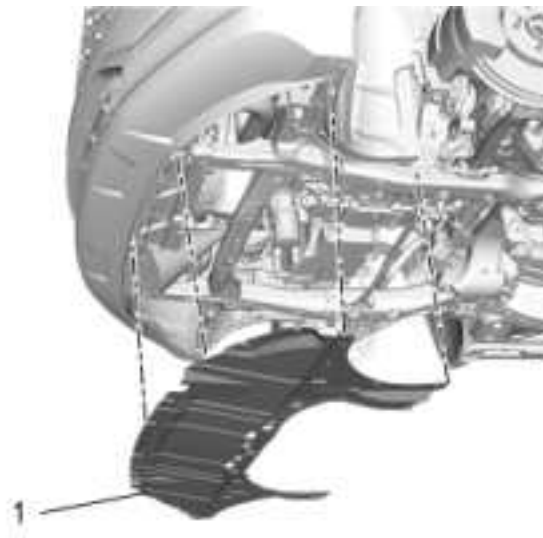
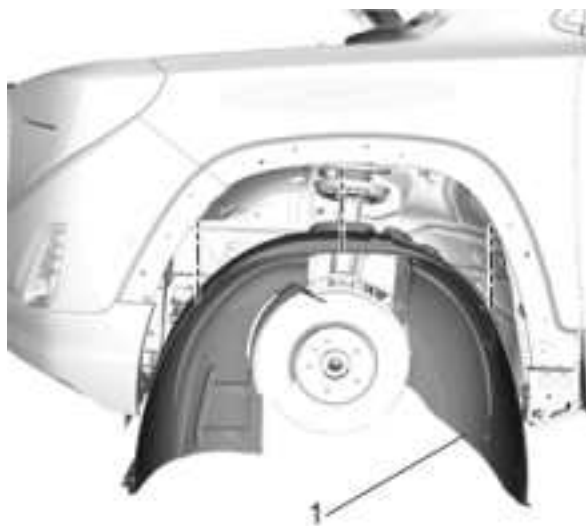


Fig. 25: Underbody Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

2. Remove Underbody Front Air Deflector (1) - **Underbody Front Air Deflector Replacement (Terrain)**



3. Remove Front Wheelhouse Liner- Left Side (1) - **Front Wheelhouse Liner Replacement - Left Side (Terrain)**

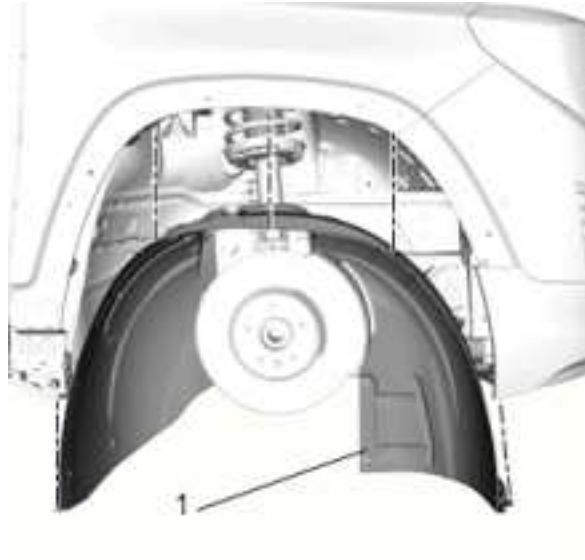


Fig. 27: Front Wheelhouse Liner
Courtesy of GENERAL MOTORS COMPANY

4. Remove Front Wheelhouse Liner- Right Side (1) - **Front Wheelhouse Liner Replacement - Right Side (Terrain)**

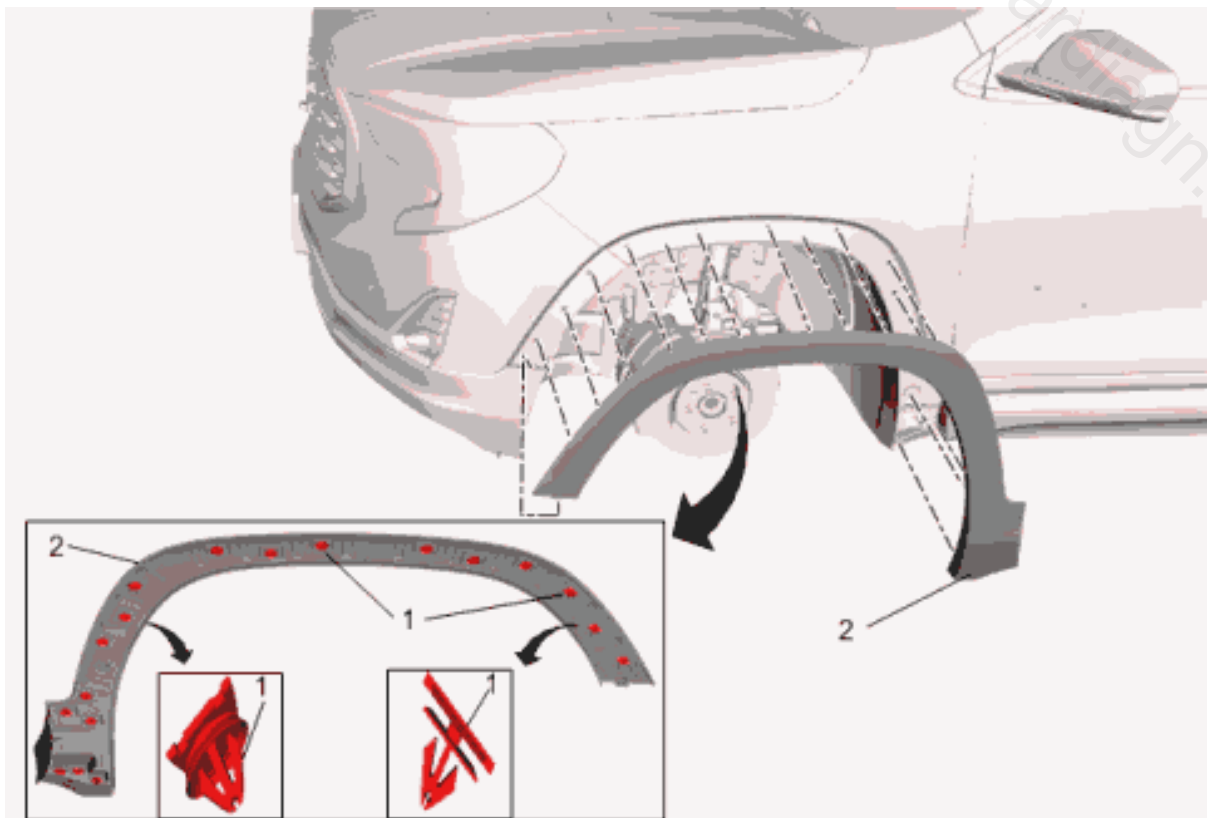


Fig. 28: Front Wheel Opening Molding
Courtesy of GENERAL MOTORS COMPANY

5. Remove Front Wheel Opening Molding (2) - **Front Wheel Opening Molding Replacement**

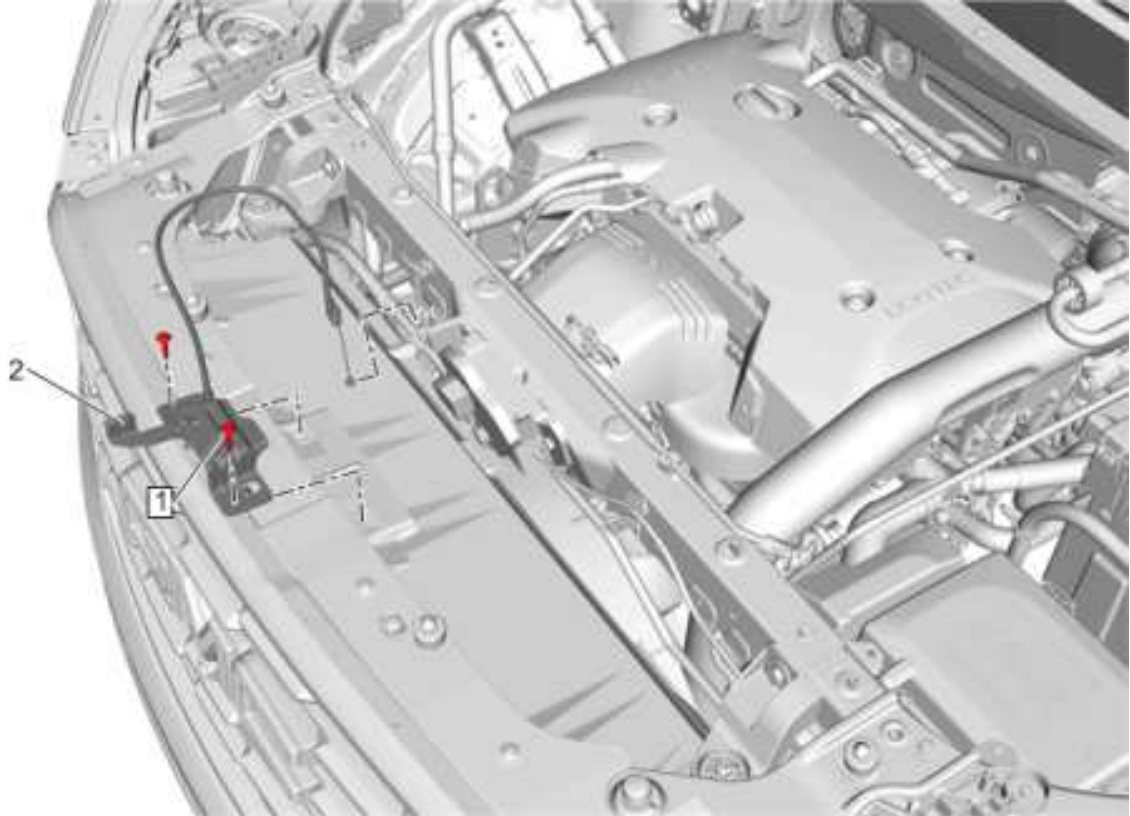


Fig. 29: Hood Secondary Latch Release Cable
Courtesy of GENERAL MOTORS COMPANY

6. Remove Hood Secondary Latch Release Cable (2) - [Hood Secondary Latch Release Cable Replacement](#)

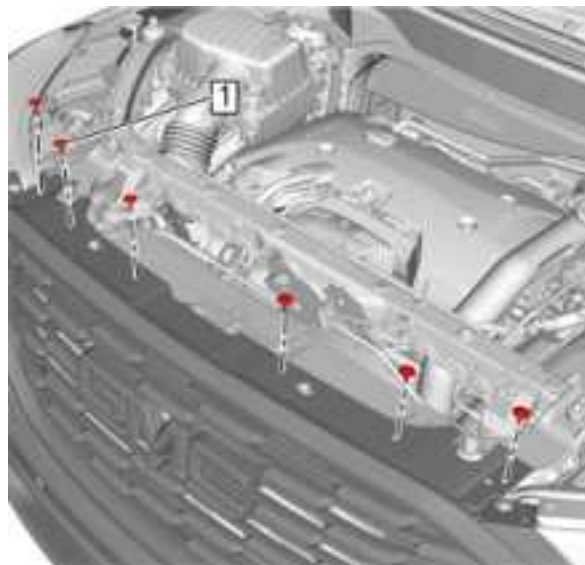


Fig. 30: Front Grille Bolt
Courtesy of GENERAL MOTORS COMPANY

7. Remove Front Grille Bolt (1) - [6x]



Fig. 31: Front Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

8. Remove Front Bumper Fascia Bolt (1)

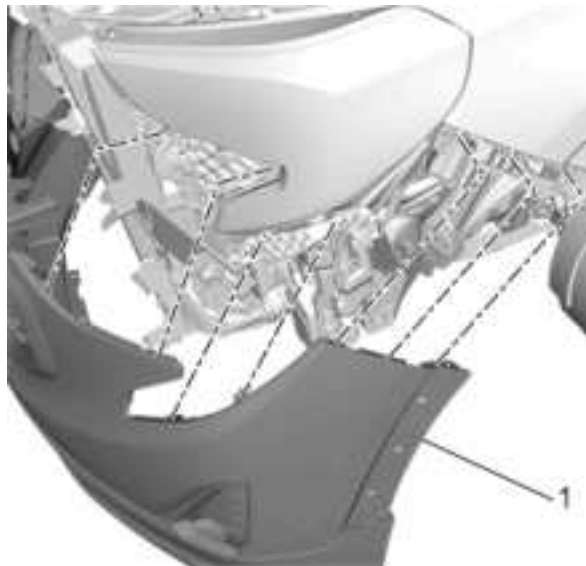


Fig. 32: Front Bumper Fascia
Courtesy of GENERAL MOTORS COMPANY

9. Carefully push a small nylon wedge between the fascia (1) and the fascia guide. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the fascia.

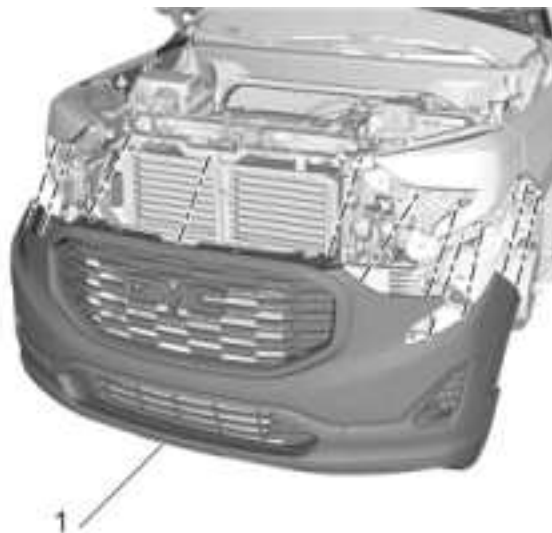


Fig. 33: Fascia

Courtesy of GENERAL MOTORS COMPANY

10. With the aid of an assistant, remove the fascia. (1)
11. Disconnect all electrical connectors.

Installation Procedure



Fig. 34: Fascia

Courtesy of GENERAL MOTORS COMPANY

1. Transfer components as necessary.
2. With the aid of an assistant, install the fascia. (1)
3. Connect the electrical connectors.

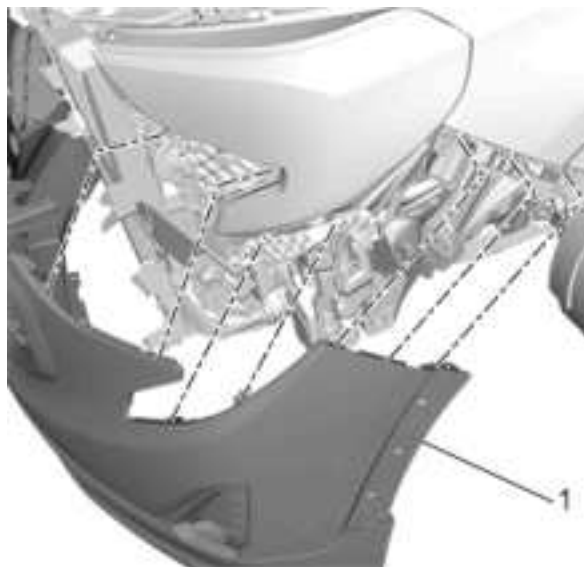


Fig. 35: Front Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

4. Secure the front bumper fascia (1) to the front bumper fascia guide.

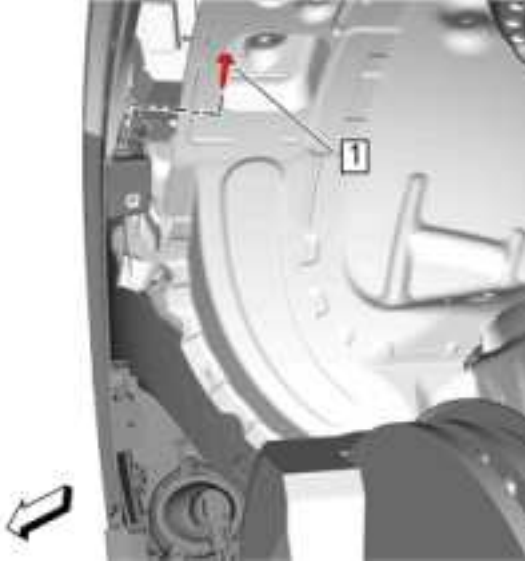


Fig. 36: Front Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to [Fastener Caution](#) .

5. Install Front Bumper Fascia Bolt (1) and tighten 2.5 N.m (22 lb in)

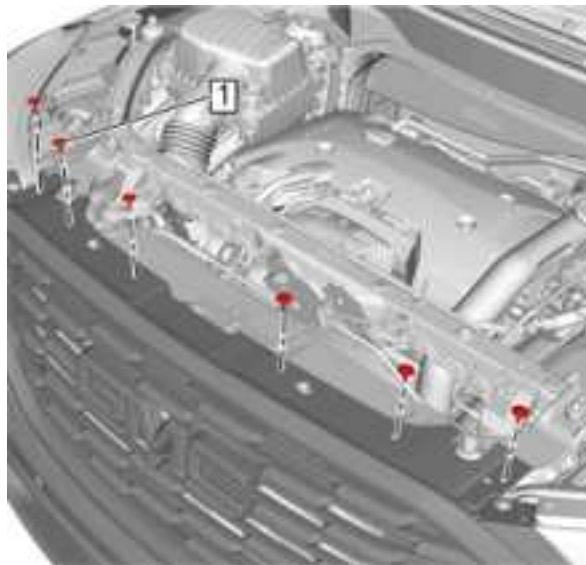


Fig. 37: Front Grille Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Install Front Grille Bolt (1) and tighten [6x] 2.5 N.m (22 lb in)

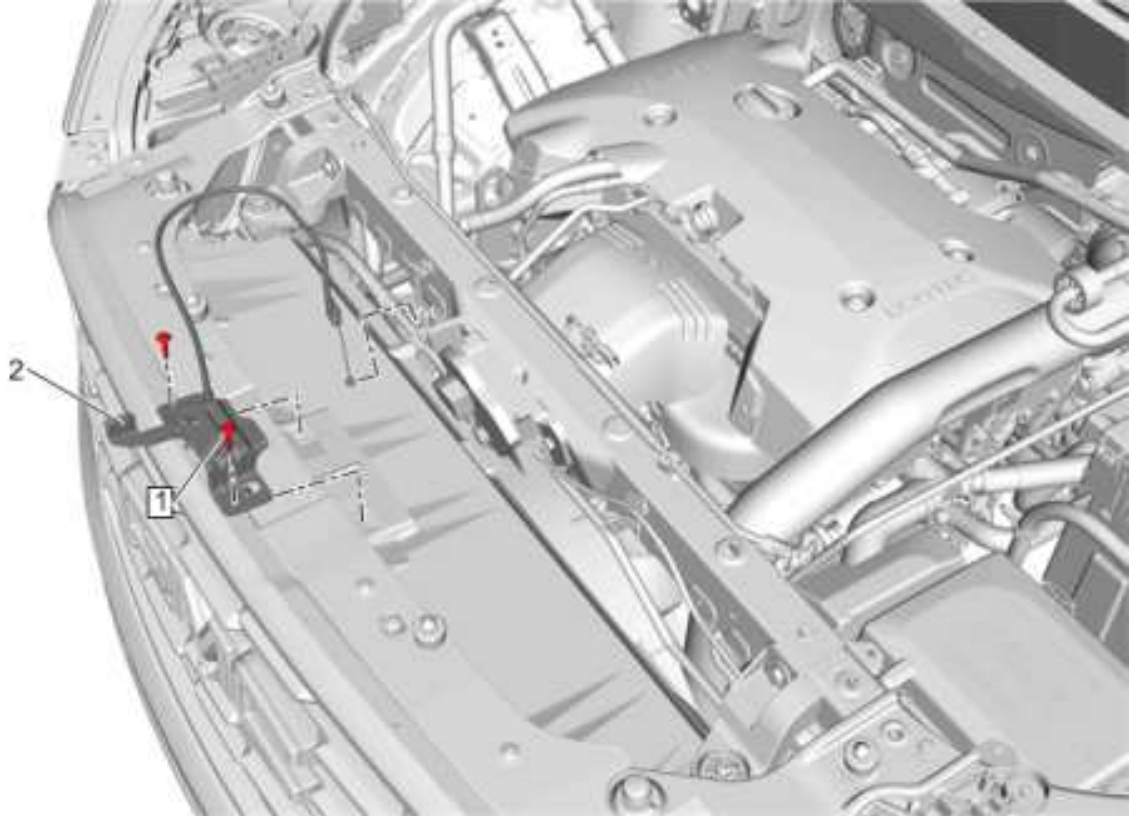


Fig. 38: Hood Secondary Latch Release Cable
 Courtesy of GENERAL MOTORS COMPANY

7. Install Hood Secondary Latch Release Cable (2) - [Hood Secondary Latch Release Cable Replacement](#)

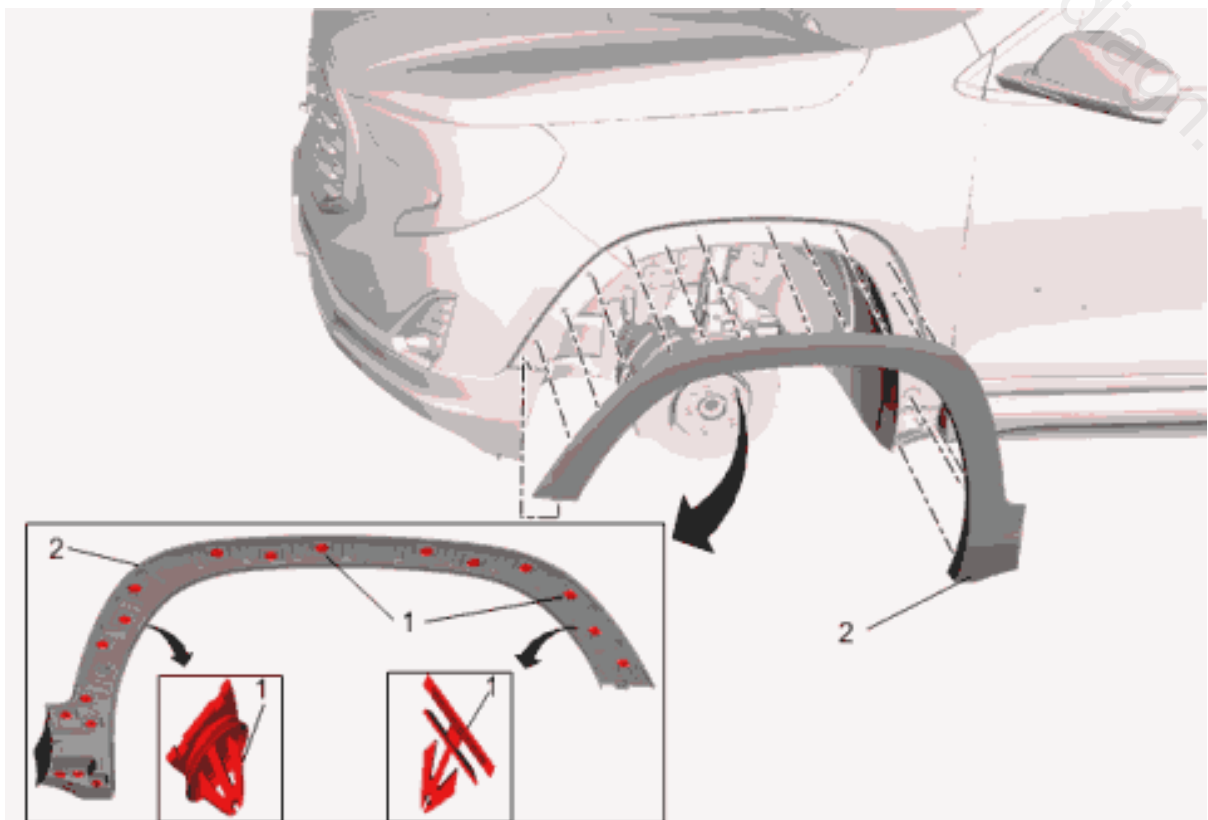


Fig. 39: Front Wheel Opening Molding
 Courtesy of GENERAL MOTORS COMPANY

8. Install Front Wheel Opening Molding (2) - [Front Wheel Opening Molding Replacement](#)



Fig. 40: Front Wheelhouse Liner

Courtesy of GENERAL MOTORS COMPANY

9. Install Front Wheelhouse Liner (1) - Left Side (1) - **Front Wheelhouse Liner Replacement - Left Side (Terrain)**

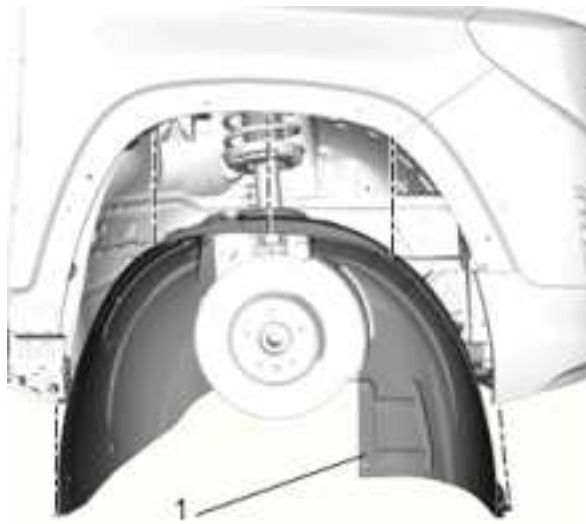


Fig. 41: Front Wheelhouse Liner

Courtesy of GENERAL MOTORS COMPANY

10. Install Front Wheelhouse Liner - Right Side (1) - **Front Wheelhouse Liner Replacement - Right Side (Terrain)**

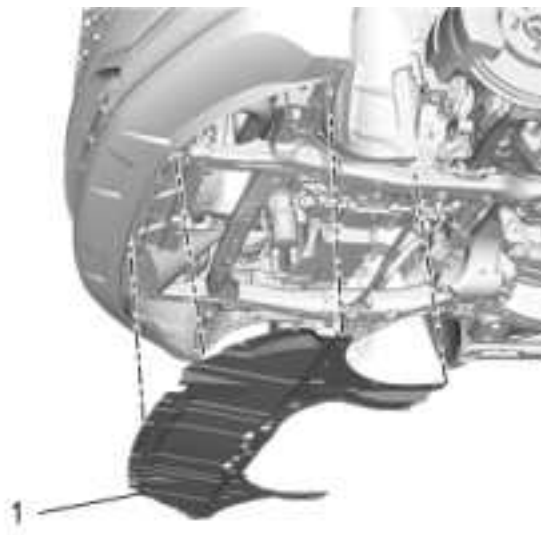


Fig. 42: Underbody Front Air Deflector
Courtesy of GENERAL MOTORS COMPANY

11. Install Underbody Front Air Deflector (1) -[Underbody Front Air Deflector Replacement \(Terrain\)](#)

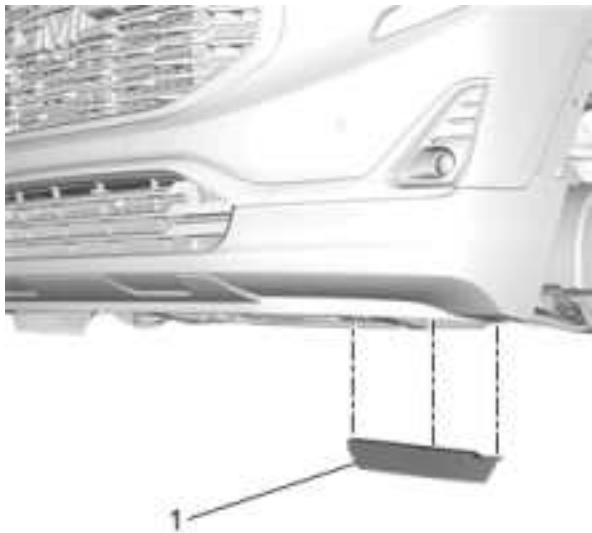


Fig. 43: Front Tire Front Air Deflector
Courtesy of GENERAL MOTORS COMPANY

12. Install Front Tire Front Air Deflector (1) -[Front Tire Front Air Deflector Replacement \(Terrain\)](#)

FRONT BUMPER FASCIA GUIDE REPLACEMENT (EQUINOX)

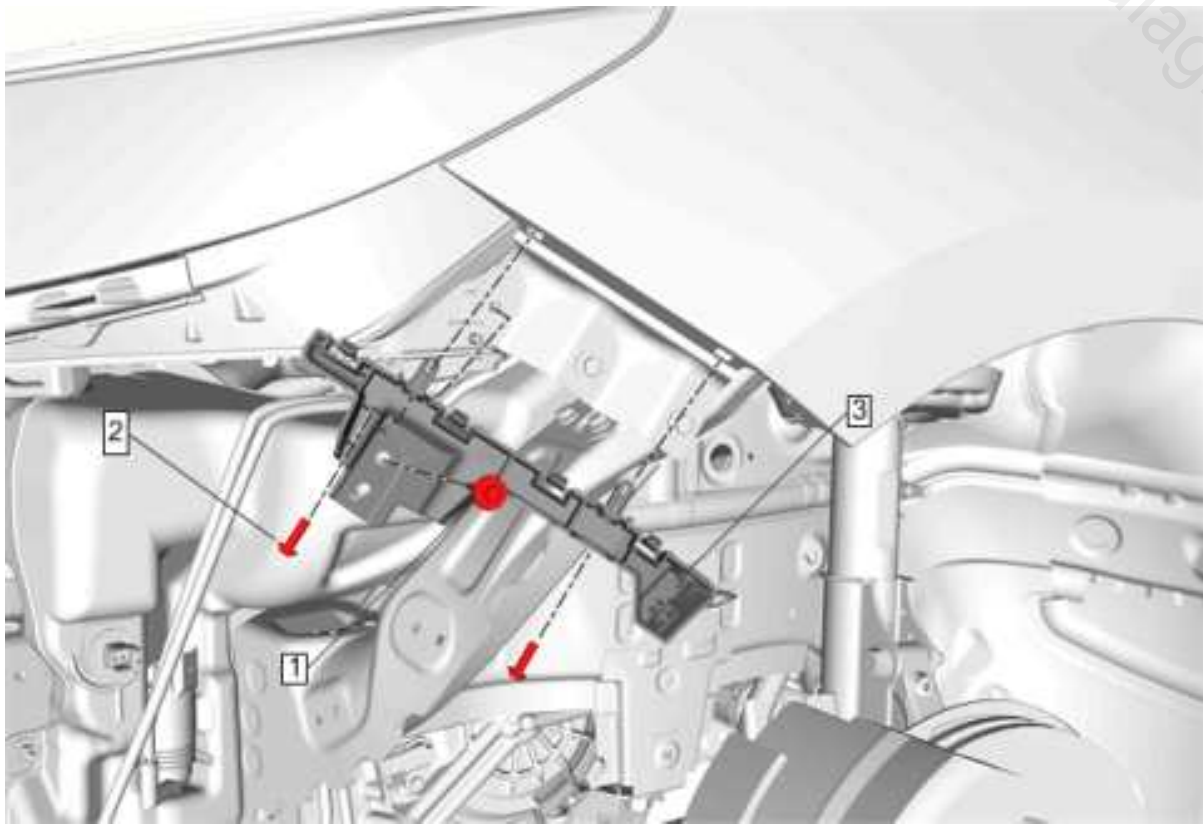


Fig. 44: Front Bumper Fascia Guide (Equinox)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
Front Bumper Fascia Replacement (Equinox)	

Callout	Component Name
1	Headlamp Bolt CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Fascia Guide Bolt [2x] Tighten 2.5 N.m (22 lb in)
3	Front Bumper Fascia Guide

FRONT BUMPER FASCIA GUIDE REPLACEMENT (TERRAIN)

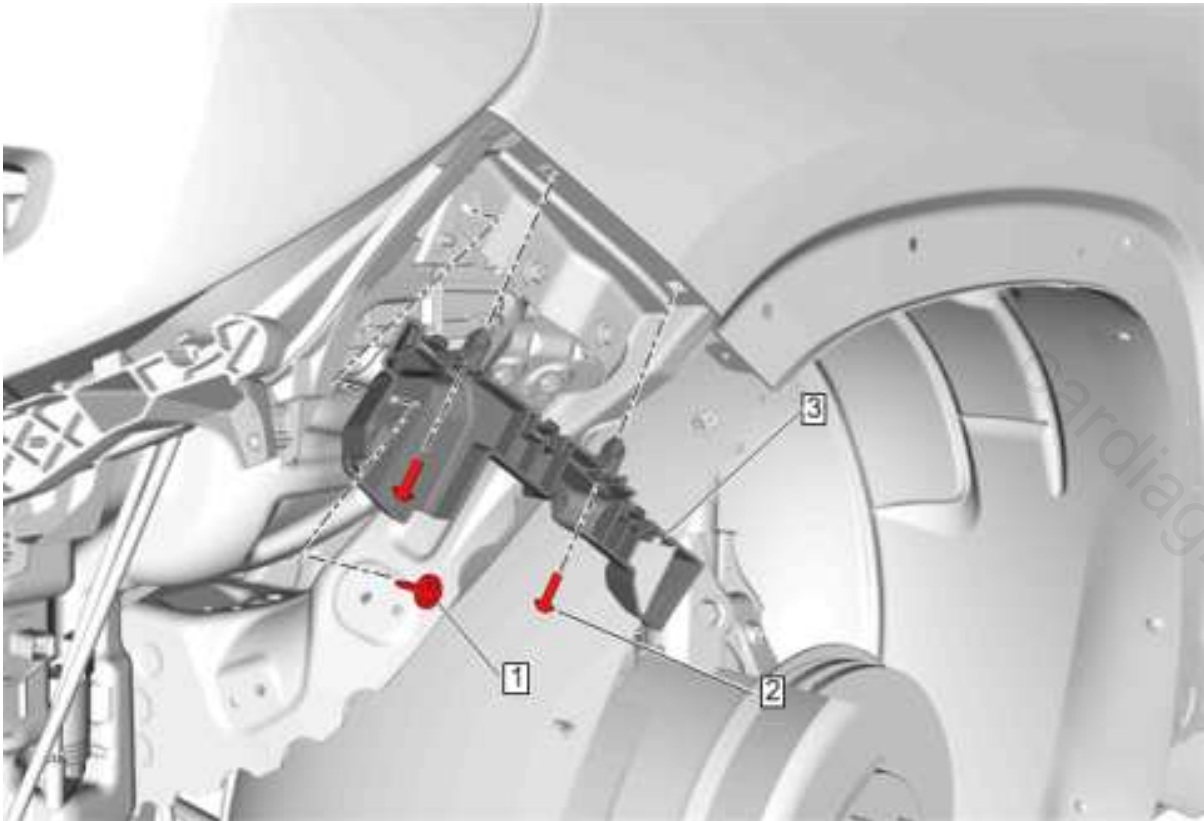


Fig. 45: Front Bumper Fascia Guide (Terrain)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Bumper Fascia Replacement (Terrain)	
1	Headlamp Bolt CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Fascia Guide Bolt [2x] Tighten 2.5 N.m (22 lb in)
3	Front Bumper Fascia Guide

FRONT BUMPER FASCIA CENTER SUPPORT REPLACEMENT

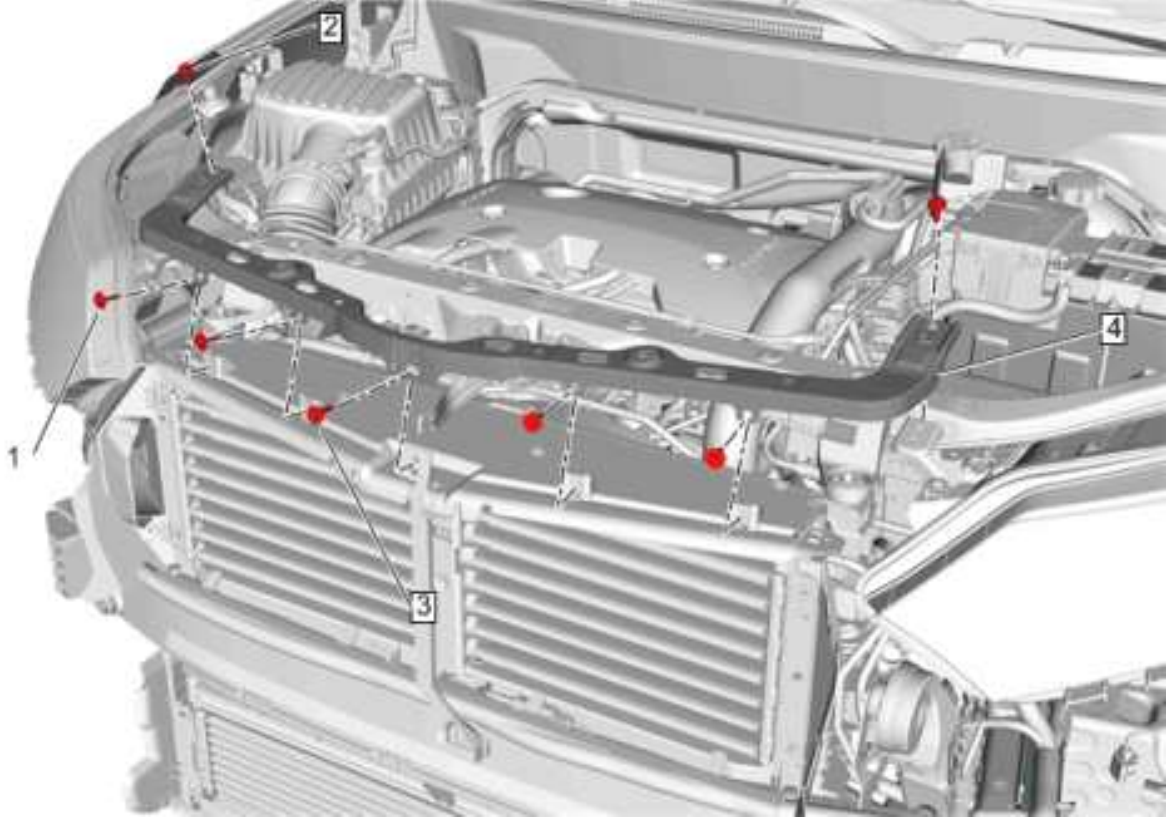


Fig. 46: Front Bumper Fascia Center Support
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Bumper Fascia Replacement (Equinox)Front Bumper Fascia Replacement (Terrain)</u>	
1	Radiator Air Upper Baffle Bolt [4x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Fascia Center Support Bolt [2x] Tighten 9 N.m (80 lb in)
3	Front Bumper Fascia Support Brace Bolt Tighten 9 N.m (80 lb in)
4	Front Bumper Fascia Center Support

FRONT BUMPER SECONDARY SHUTTER REPLACEMENT

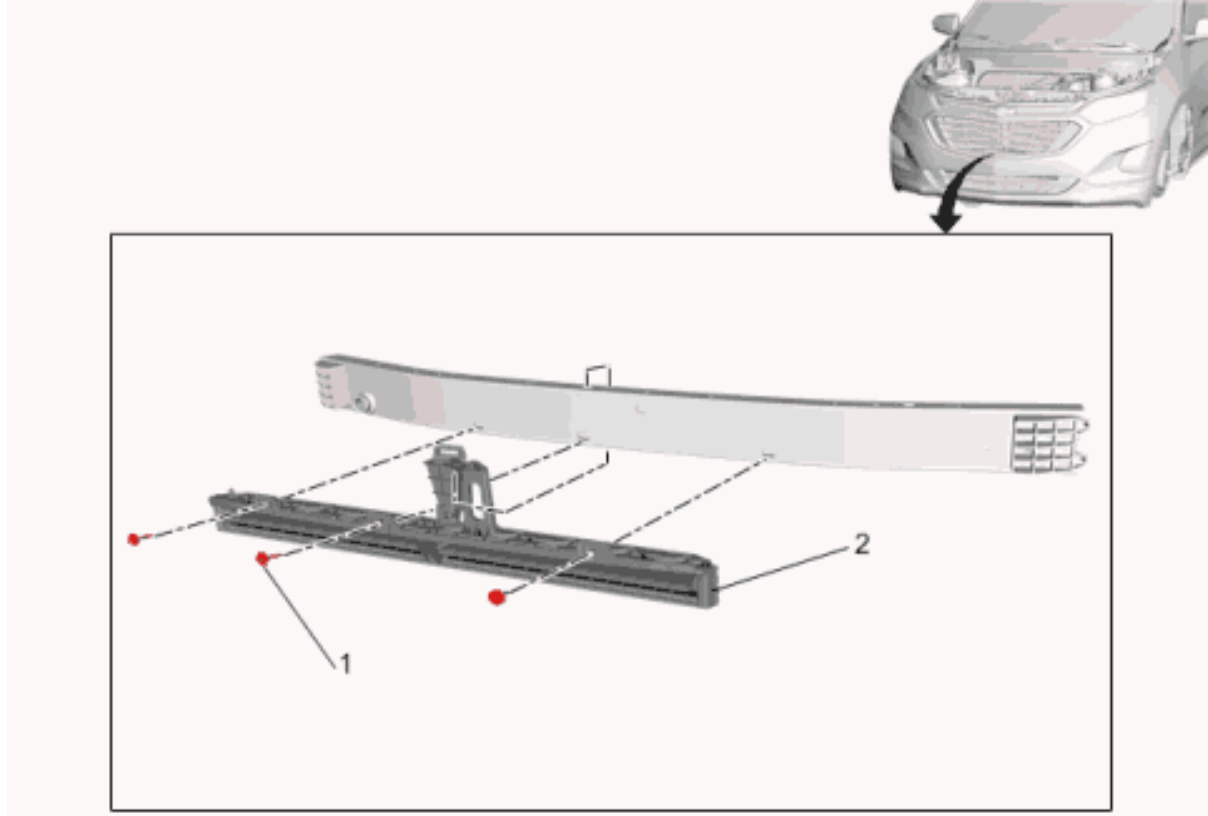


Fig. 47: Front Bumper Secondary Shutter
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Bumper Impact Bar Replacement (Equinox)Front Bumper Impact Bar Replacement (Terrain).	
1	Front Bumper Secondary Shutter Bolt [3x] CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Secondary Shutter Procedure Release the upper tab and pull the front bumper lower shutter down slightly and out from under the impact bar.

FRONT BUMPER LOWER FASCIA REPLACEMENT (EQUINOX)

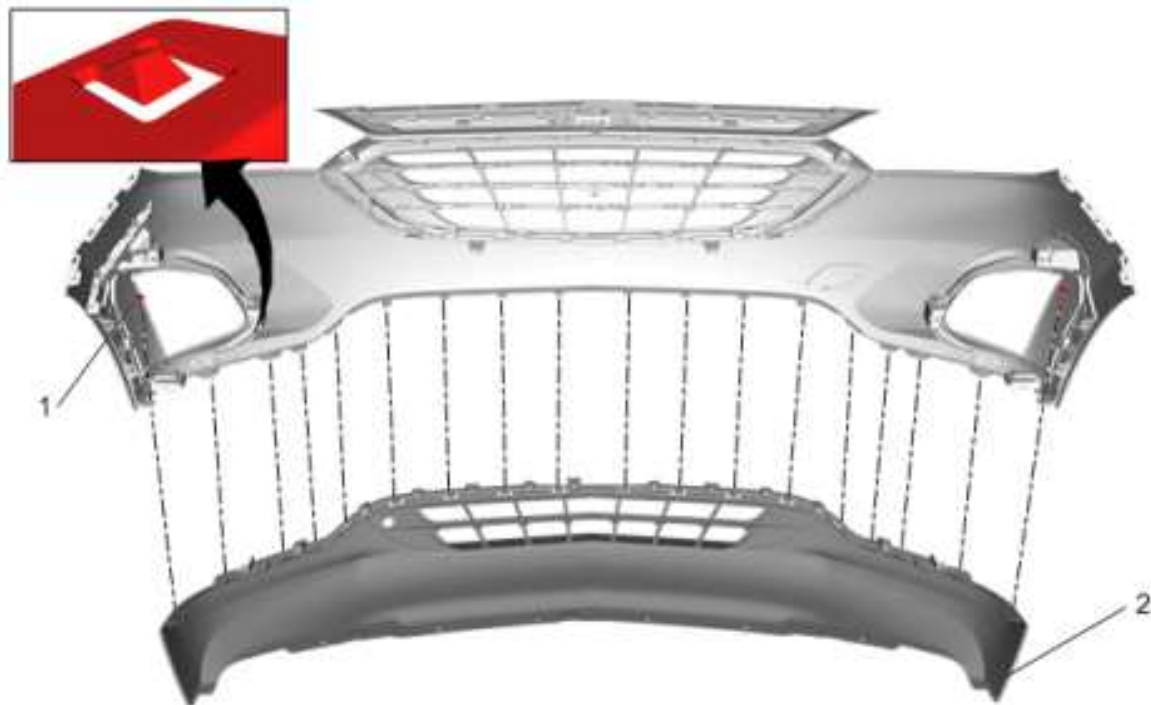


Fig. 48: Front Bumper Lower Fascia (Equinox)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Bumper Fascia Energy Absorber Replacement (Fascia Equinox)</u> <u>Front Bumper Fascia Energy Absorber Replacement (Impact Bar Equinox)</u>	
1	Front Bumper Fascia Bolt [2x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Lower Fascia Procedure 1. Place the front bumper fascia down on a clean protected surface. 2. Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the fascia. 3. Transfer components as necessary.

FRONT BUMPER LOWER FASCIA REPLACEMENT (TERRAIN)

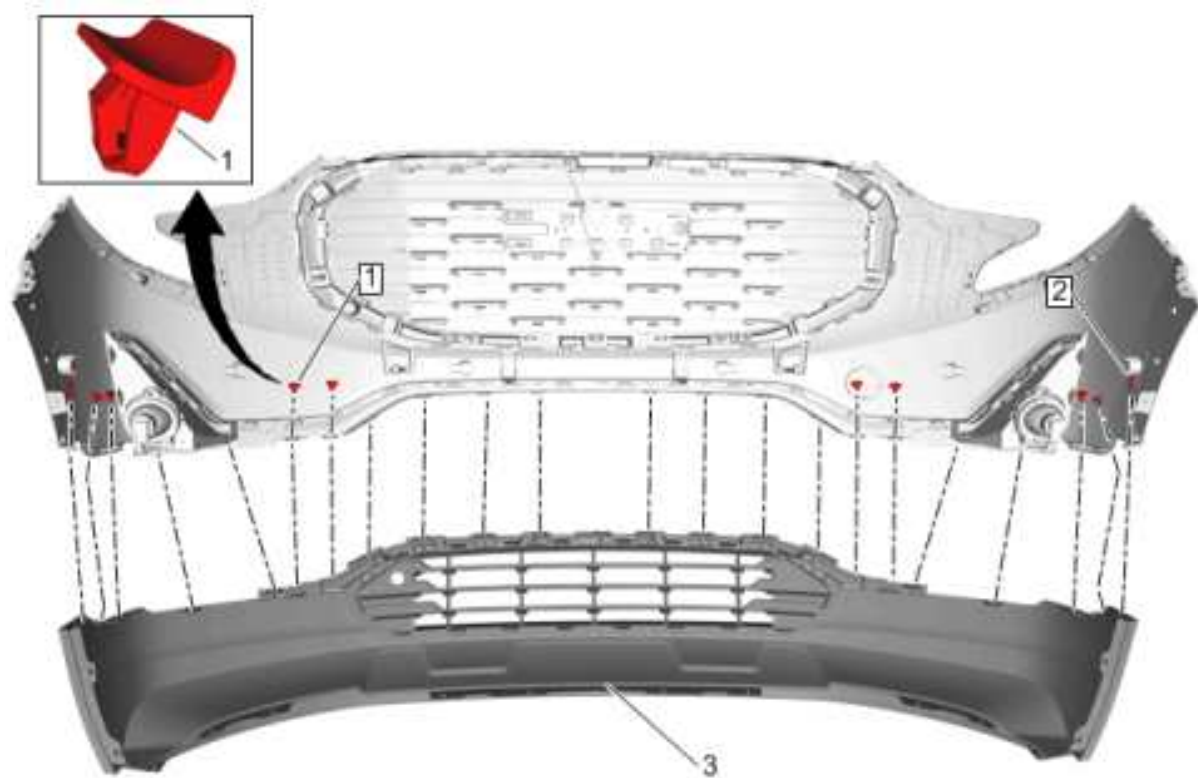


Fig. 49: Front Bumper Lower Fascia (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Remove the front bumper fascia lower molding-center. Refer to Front Bumper Fascia Lower Molding Replacement (Center) 2. Front Bumper Fascia Energy Absorber Replacement (Fascia Terrain)Front Bumper Fascia Energy Absorber Replacement (Impact Bar Terrain).	
1	Front Bumper Fascia Clip [8x] Front Bumper Fascia Bolt [2x]
2	CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
3	Front Bumper Lower Fascia Procedure 1. Place the front bumper fascia down on a clean protected surface. 2. Disconnect and reposition harness as necessary. 3. Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the fascia. 4. Transfer components as necessary.

FRONT BUMPER UPPER FASCIA REPLACEMENT (EQUINOX)

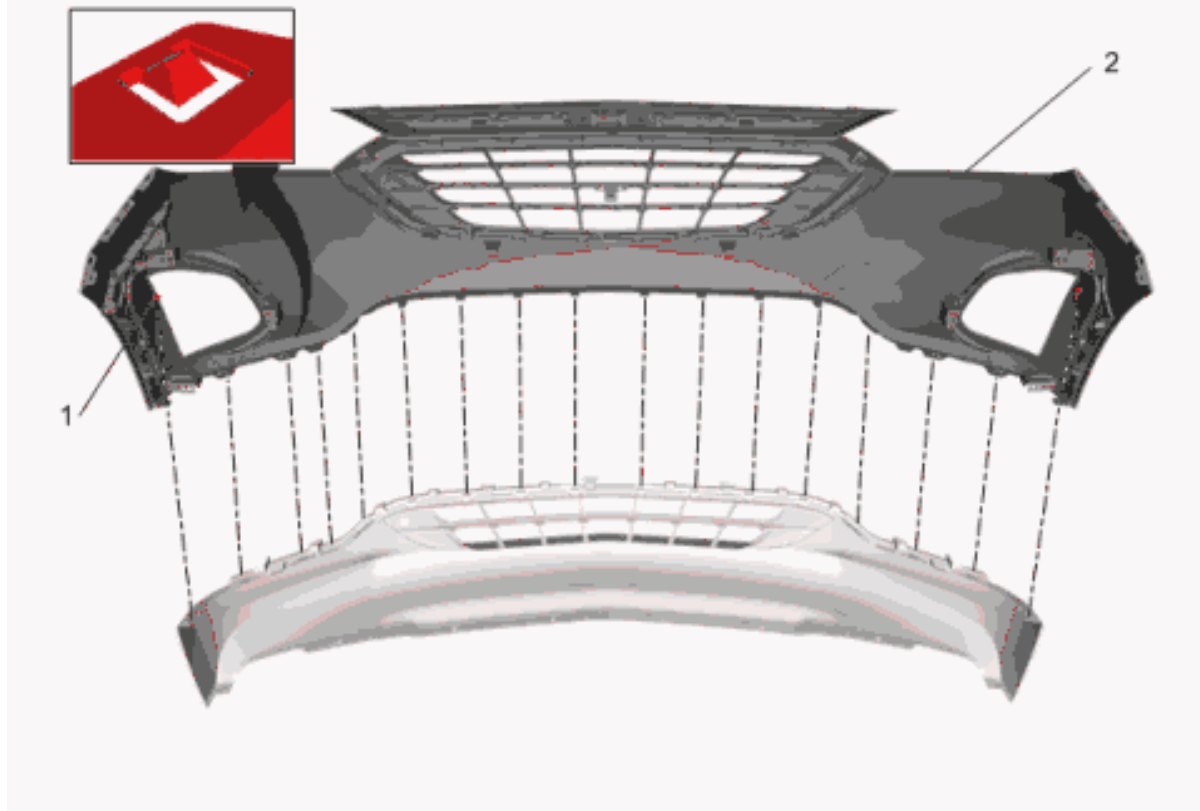


Fig. 50: Front Bumper Upper Fascia (Equinox)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Bumper Fascia Energy Absorber Replacement (Fascia Equinox) Front Bumper Fascia Energy Absorber Replacement (Impact Bar Equinox)	
1	Front Bumper Fascia Bolt [2x] CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Upper Fascia Procedure 1. Place the front bumper fascia down on a clean protected surface. 2. Reposition the wiring harness. 3. Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the upper fascia from the lower fascia. 4. Transfer components as necessary.

FRONT BUMPER UPPER FASCIA REPLACEMENT (TERRAIN)

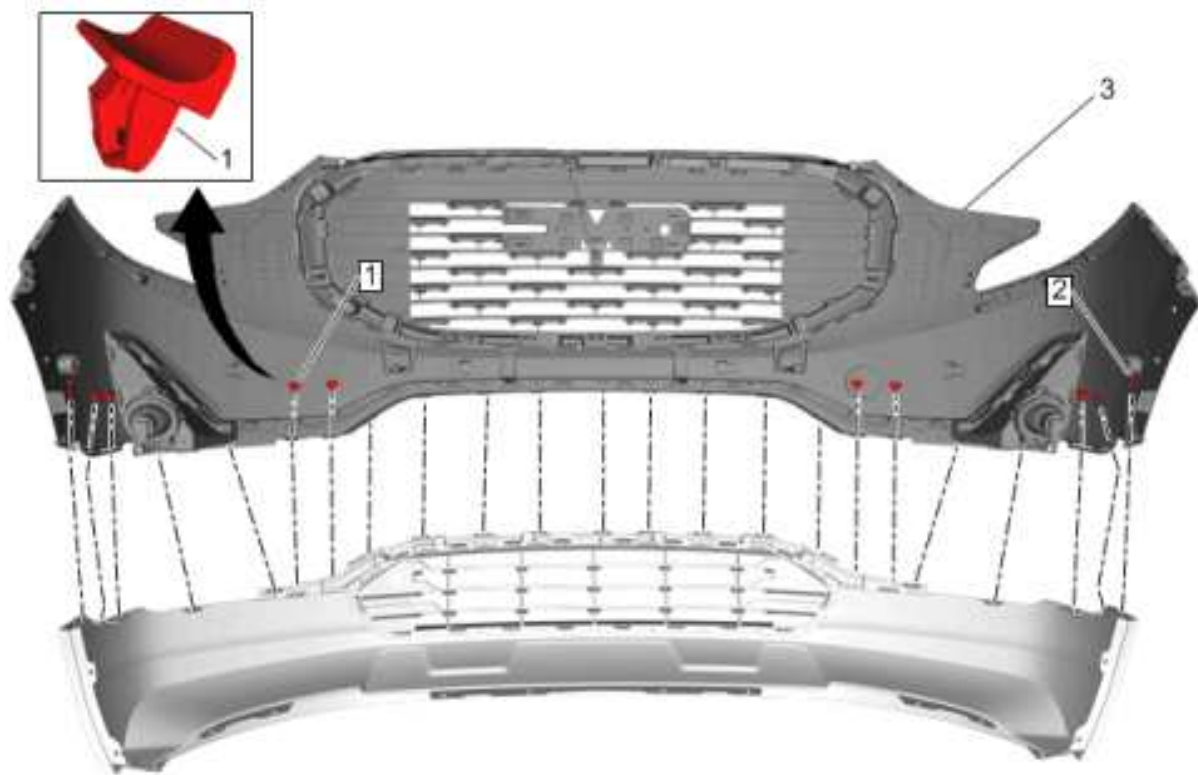


Fig. 51: Front Bumper Upper Fascia (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Remove the front bumper fascia lower molding-center. Refer to Front Bumper Fascia Lower Molding Replacement (Center) 2. Front Bumper Fascia Energy Absorber Replacement (Fascia Terrain)Front Bumper Fascia Energy Absorber Replacement (Impact Bar Terrain)	
1	Front Bumper Fascia Clip [8x] Front Bumper Fascia Bolt [2x]
2	CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
3	Front Bumper Upper Fascia Procedure 1. Place the front bumper fascia down on a clean protected surface. 2. Disconnect and reposition harness as necessary. 3. Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the upper fascia from the lower fascia. 4. Transfer components as necessary.

FRONT BUMPER FASCIA LOWER MOLDING REPLACEMENT (CENTER)

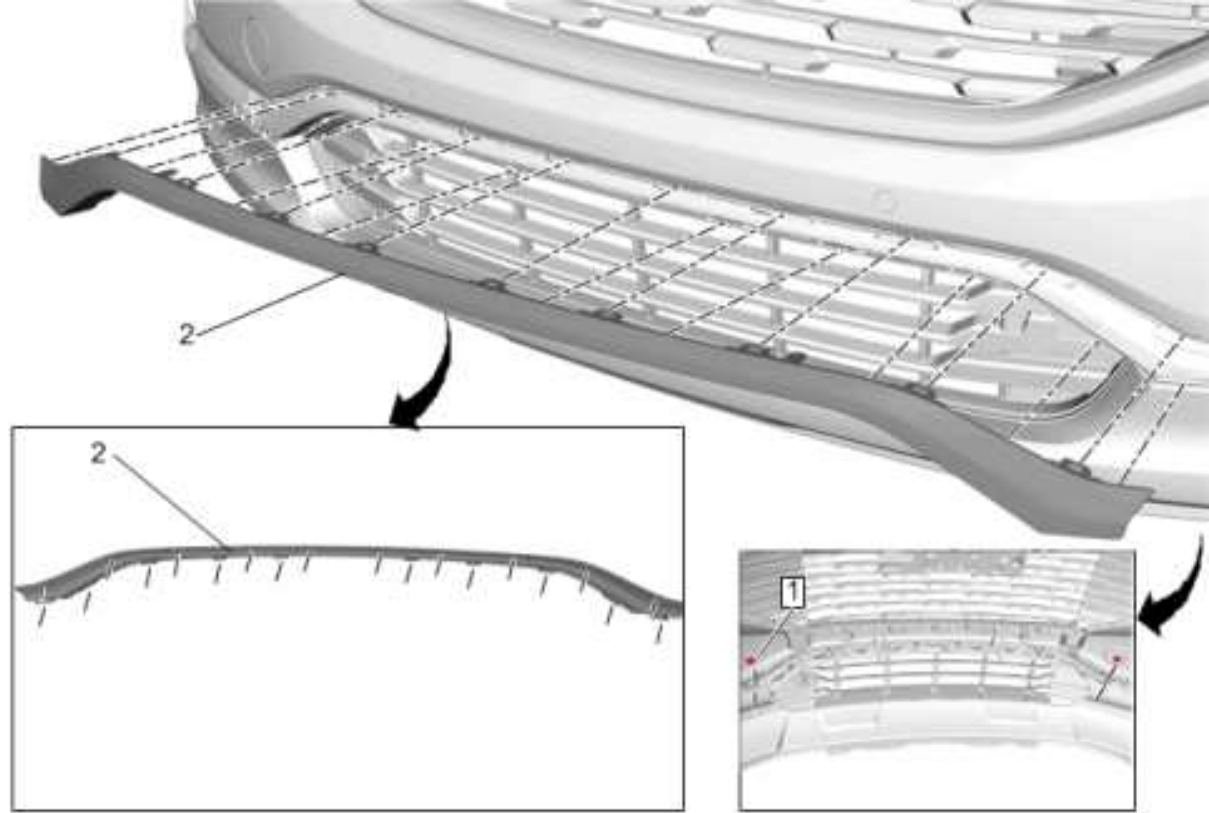


Fig. 52: Front Bumper Fascia Lower Molding (Center)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures <u>Front Bumper Fascia Replacement (Equinox)</u><u>Front Bumper Fascia Replacement (Terrain)</u> - Place the bumper fascia face down on a clean protected surface.	
1	Front Bumper Fascia Lower Molding Clip [2x]
2	Front Bumper Fascia Lower Molding Procedure Release the locking tabs from the front bumper fascia and remove molding from the fascia.

FRONT BUMPER FASCIA LOWER MOLDING REPLACEMENT - OUTER

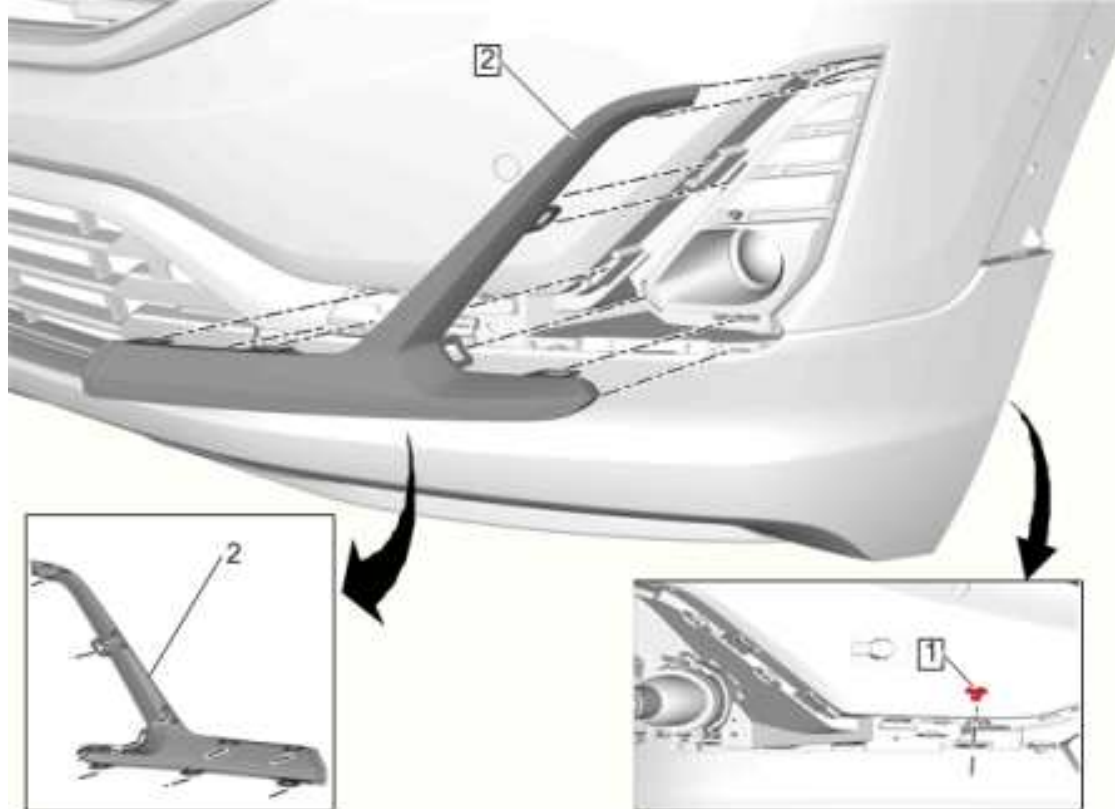


Fig. 53: Front Bumper Fascia Lower Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Bumper Fascia Lower Molding Replacement (Center)</u>	
1	Front Bumper Fascia Lower Molding Clip
2	Front Bumper Fascia Lower Molding - Outer
Procedure Release the locking tabs from the front bumper fascia and remove molding from the fascia.	

FRONT BUMPER FASCIA HEADLAMP OPENING BRACKET REPLACEMENT

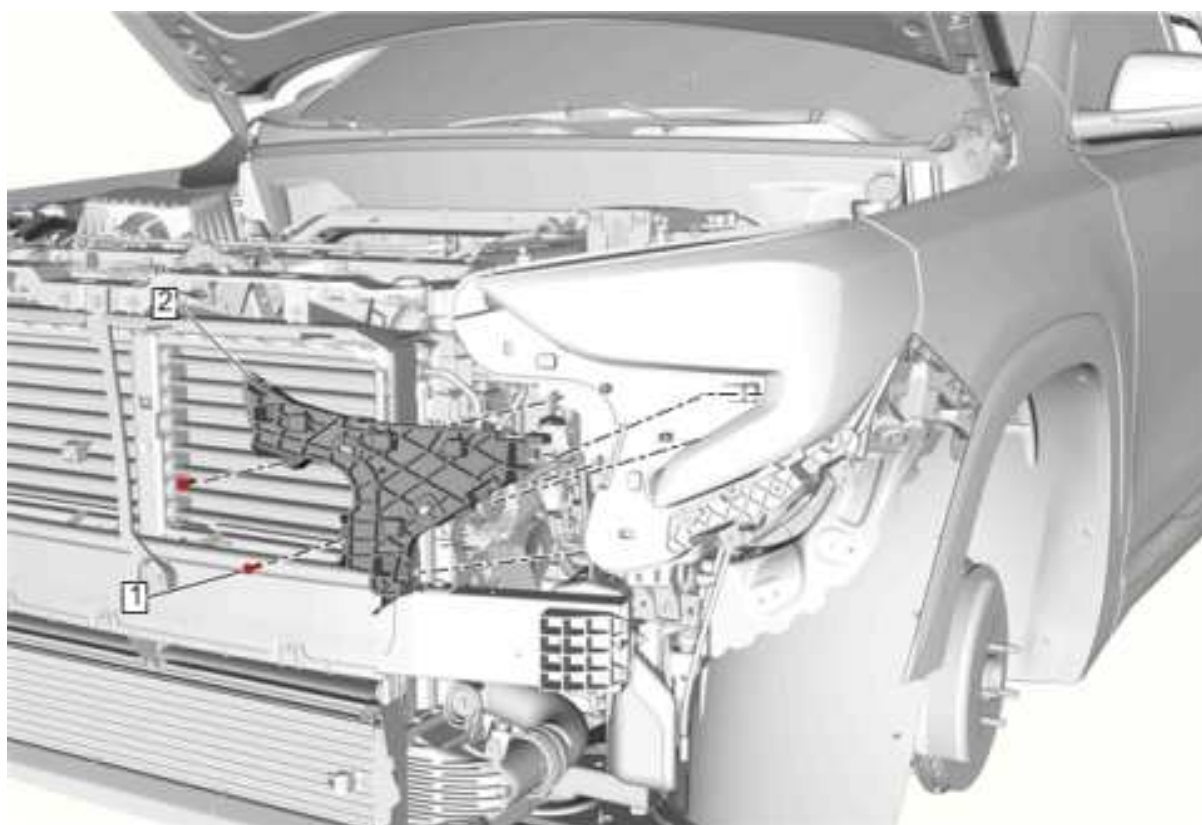


Fig. 54: Front Bumper Fascia Headlamp Opening Bracket
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Bumper Fascia Replacement (Equinox)Front Bumper Fascia Replacement (Terrain).</u>	
1	Front Bumper Fascia Headlamp Opening Bracket Bolt [2x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Fascia Headlamp Opening Bracket Procedure Release the 2 tabs on the bracket and slide the top tab out from the headlamp.

FRONT BUMPER SHUTTER REPLACEMENT

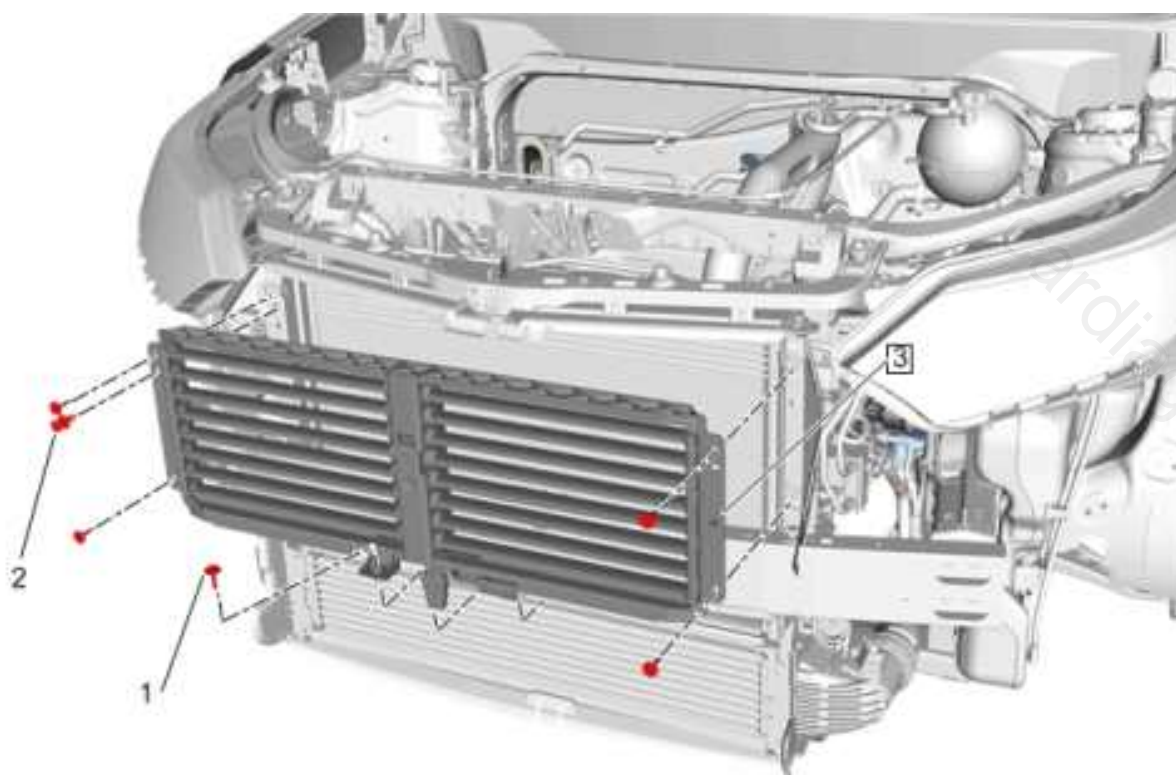


Fig. 55: Front Bumper Shutter
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Bumper Fascia Support Brace Replacement</u>	
1	Front Bumper Shutter Bolt [5x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Shutter Retainer

Callout	Component Name
3	Front Bumper Shutter Procedure 1. Disconnect the electrical connector. 2. Transfer components as necessary.

FRONT BUMPER FASCIA SUPPORT BRACE REPLACEMENT

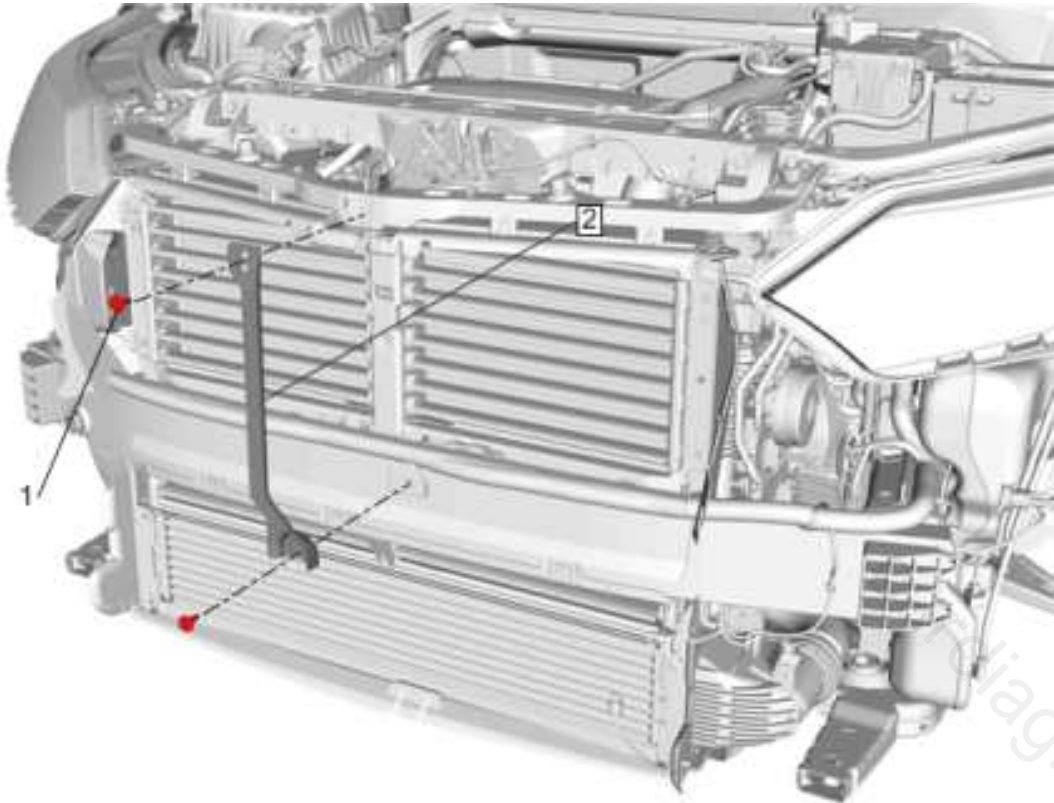


Fig. 56: Front Bumper Fascia Support Brace
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Bumper Fascia Replacement (Equinox)Front Bumper Fascia Replacement (Terrain)	
1	Front Bumper Fascia Support Brace Bolt [2x] CAUTION: Refer to Fastener Caution . Tighten 9 N.m (80 lb in)
2	Front Bumper Fascia Support Brace Procedure Slide the front bumper fascia support brace from the radiator air upper deflector.

FRONT BUMPER FASCIA LOWER REINFORCEMENT REPLACEMENT (EQUINOX)

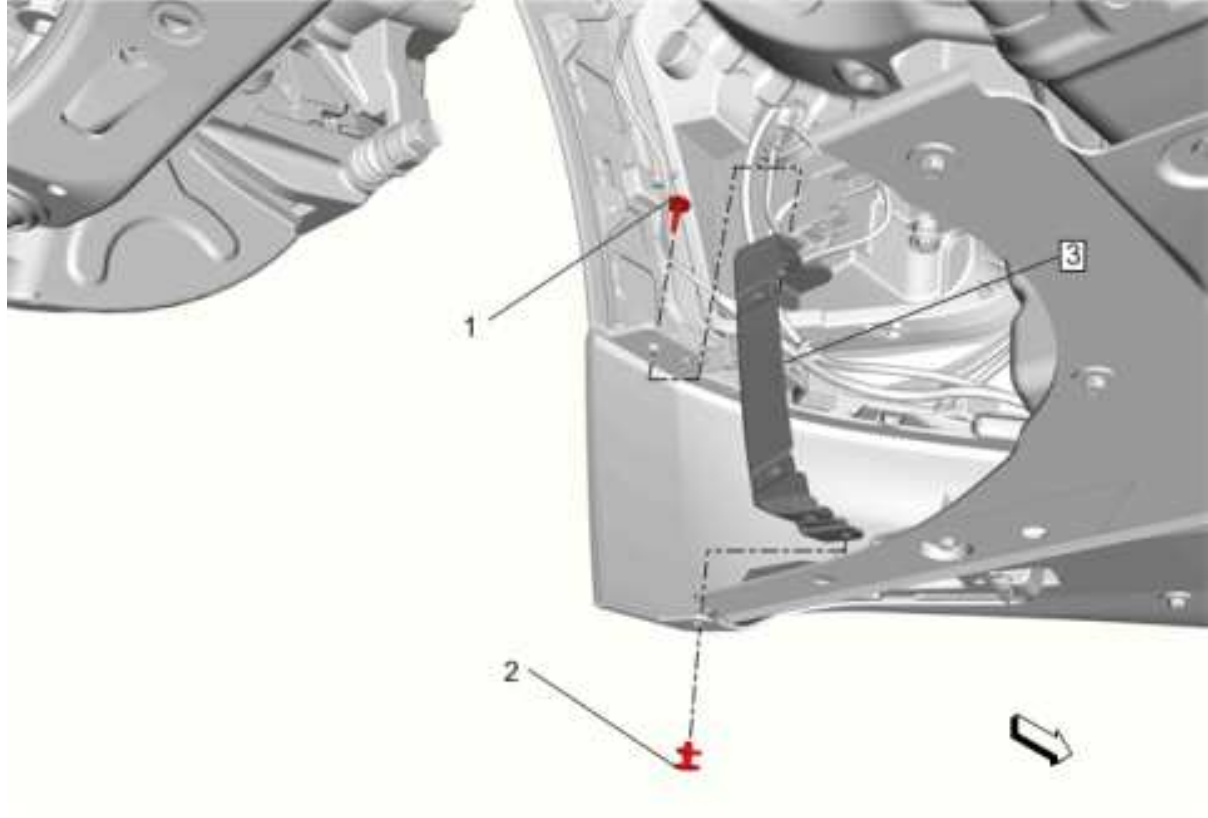


Fig. 57: Front Bumper Fascia Lower Reinforcement (Equinox)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
WARNING: Refer to Eye Protection Warning .	
Preliminary Procedure Front Wheelhouse Liner Replacement - Left Side (Equinox) Front Wheelhouse Liner Replacement - Right Side (Equinox)	
1	Front Bumper Fascia Lower Reinforcement Bolt CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front Bumper Fascia Reinforcement Rivet
3	Front Bumper Fascia Lower Reinforcement

FRONT BUMPER FASCIA LOWER REINFORCEMENT REPLACEMENT (TERRAIN)

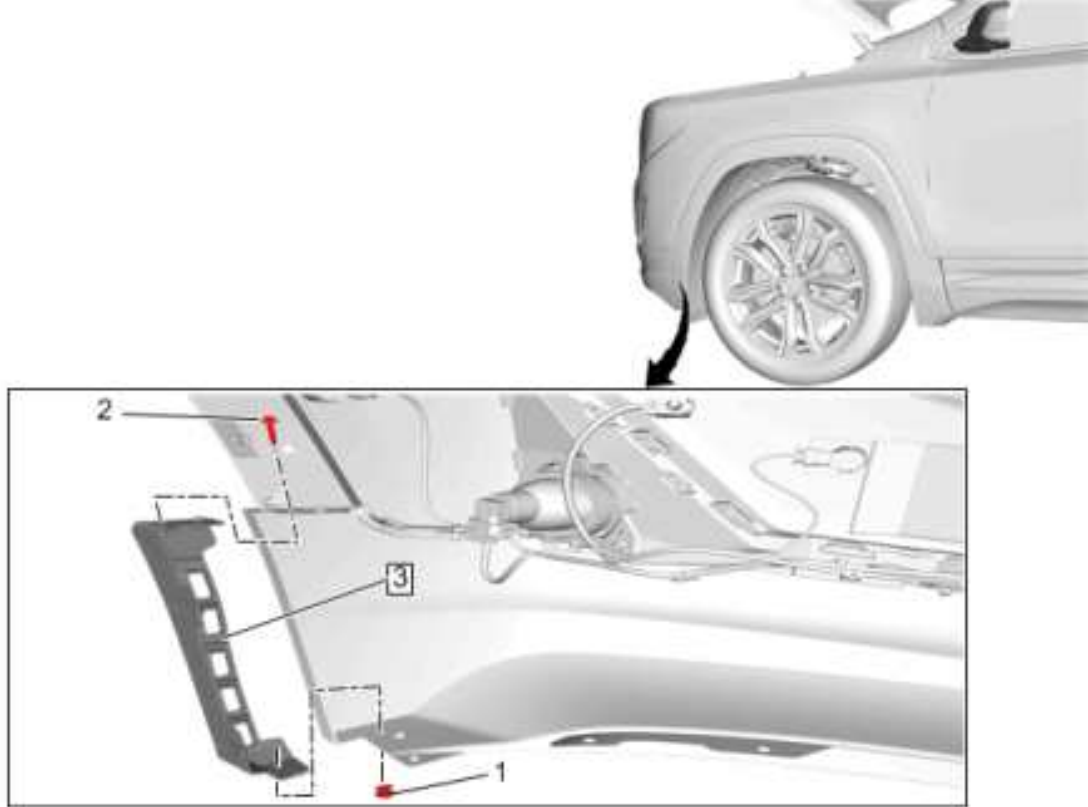


Fig. 58: Front Bumper Fascia Lower Reinforcement (Terrain).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
WARNING: Refer to Eye Protection Warning .	
Preliminary Procedure Front Wheelhouse Liner Replacement - Left Side (Terrain) Front Wheelhouse Liner Replacement - Right Side (Terrain)	
1	Front Bumper Fascia Lower Reinforcement Rivet
2	Front Bumper Fascia Lower Reinforcement Bolt CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
3	Front Bumper Fascia Lower Reinforcement

FRONT BUMPER FASCIA LOWER STIFFENER REPLACEMENT



Fig. 59: Front Bumper Fascia Lower Stiffener
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Bumper Fascia Replacement (Equinox)</u> <u>Front Bumper Fascia Replacement (Terrain)</u>	
1	Front Bumper Fascia Lower Stiffener Bolt [2x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 22 N.m (16 lb ft)
2	Front Bumper Fascia Lower Stiffener

REAR BUMPER VALANCE PANEL REPLACEMENT (DENALI)

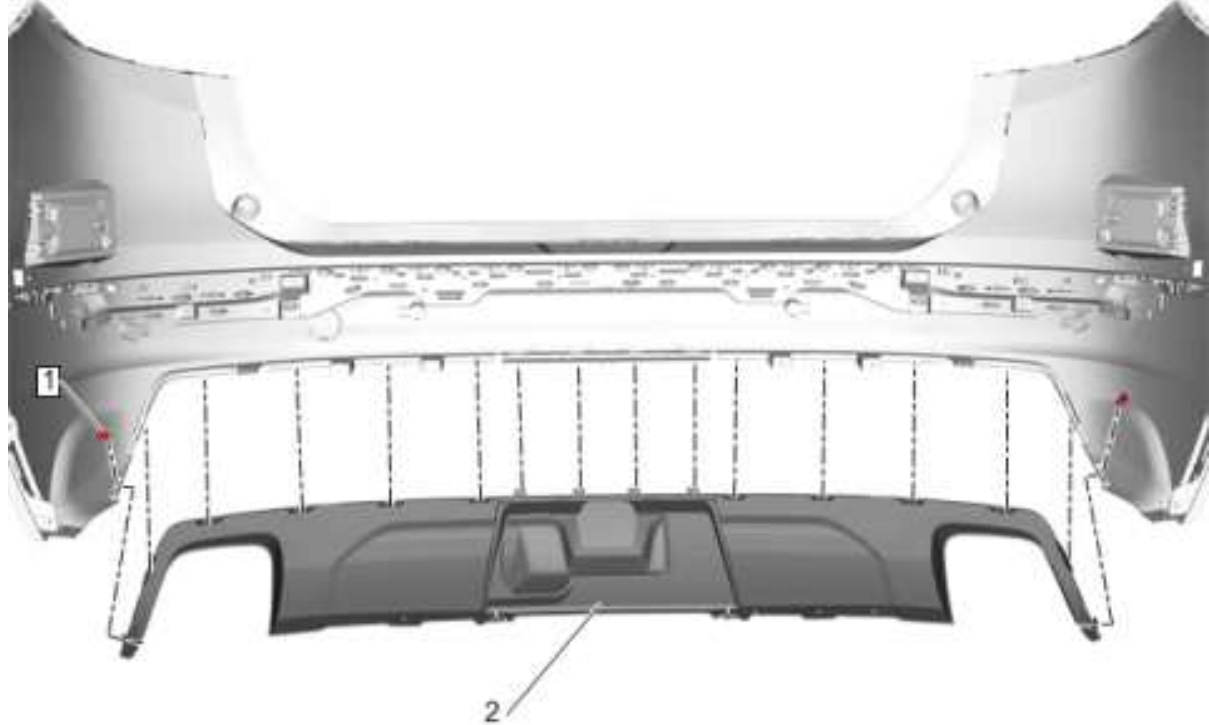


Fig. 60: Rear Bumper Valance Panel

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Closure Hands Free Module Replacement</u>	
1	Rear Bumper Valance Panel Clip [2x]
2	Rear Bumper Valance Panel Procedure - Carefully push a small nylon wedge between the lower fascia and the rear bumper valance panel. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the rear bumper valance panel. - Disconnect the hands free electrical connectors. - Transfer components as necessary.

REAR BUMPER VALANCE PANEL REPLACEMENT (SLE, SLT)

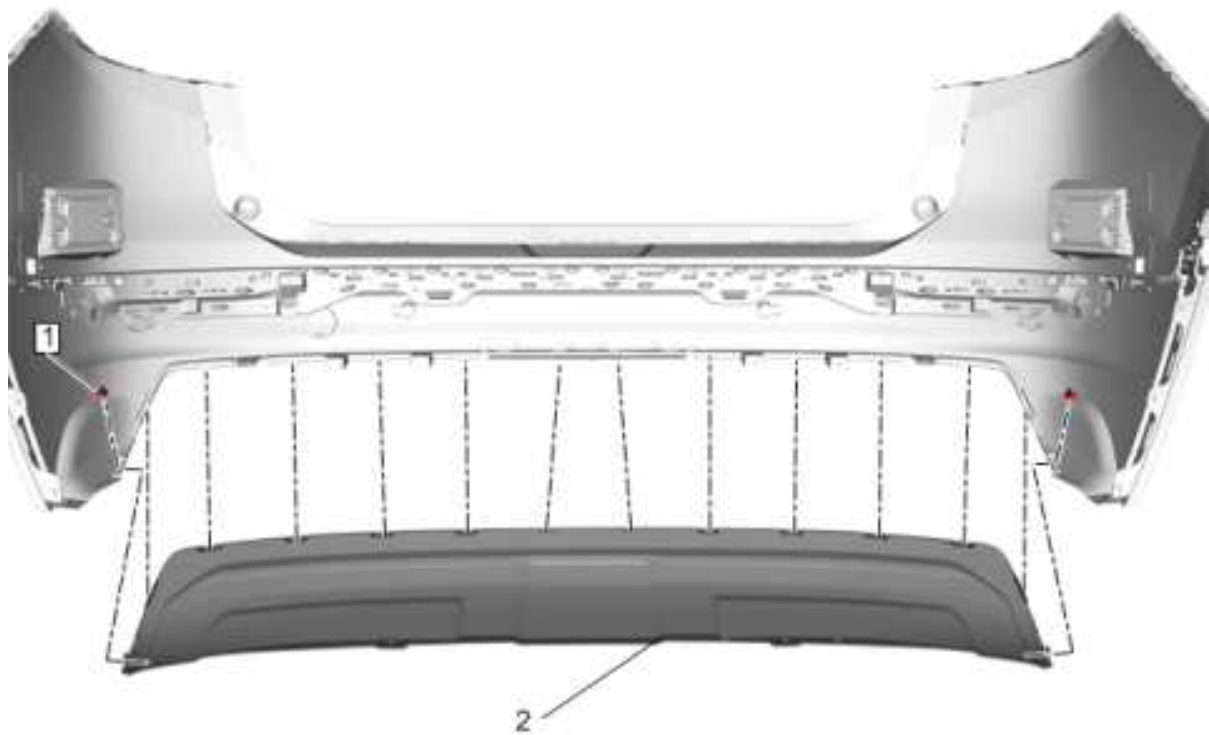


Fig. 61: Rear Bumper Valance Panel

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Closure Hands Free Module Replacement</u>	
1	Rear Bumper Valance Panel Clip [2x]
2	Rear Bumper Valance Panel Procedure - Carefully push a small nylon wedge between the lower fascia and the rear bumper valance panel. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the rear bumper valance panel. - Transfer components as necessary.

REAR BUMPER FASCIA MOLDING REPLACEMENT

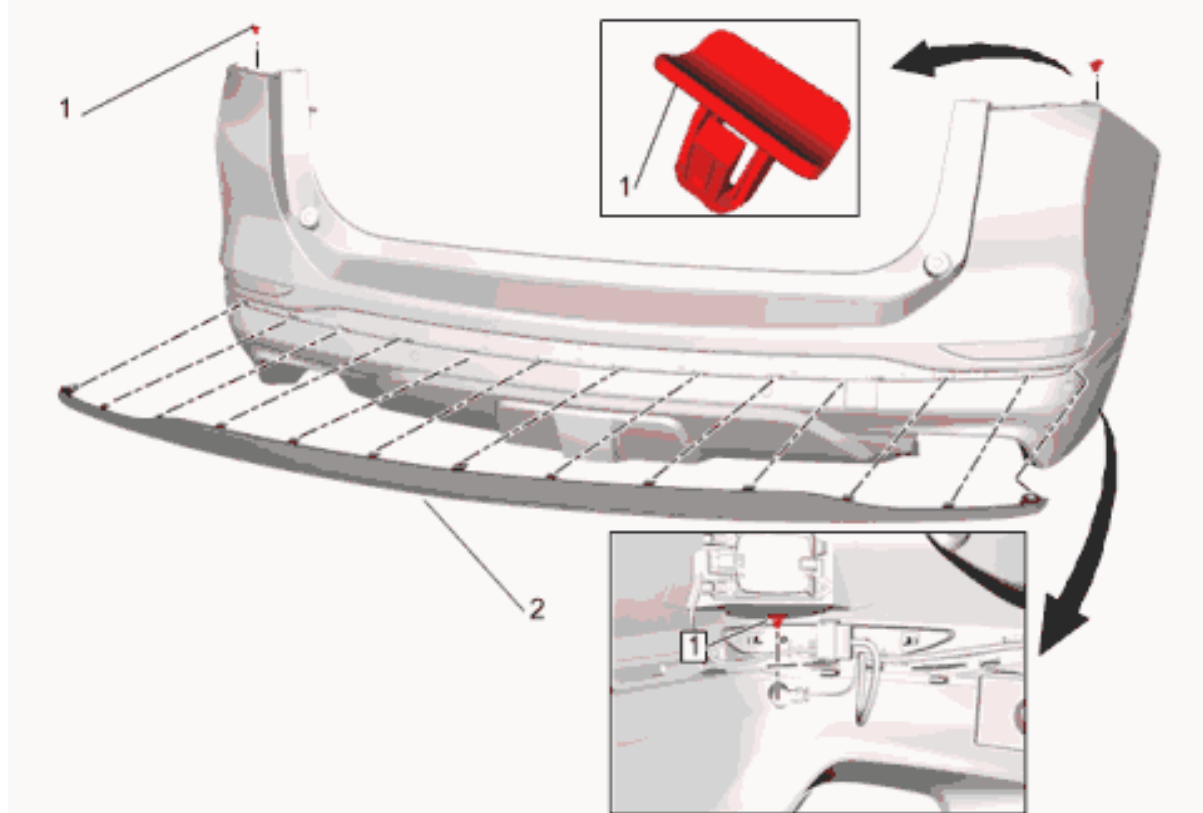


Fig. 62: Rear Bumper Fascia Molding

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Rear Bumper Fascia Energy Absorber Replacement (Equinox) Rear Bumper Fascia Energy Absorber Replacement (Terrain)	
1	Rear Bumper Fascia Molding Clip [2x]
2	Rear Bumper Fascia Molding Procedure 1. Place the bumper fascia face down on a clean protective surface. 2. Release the retainer tabs and push the rear bumper fascia molding out from the rear bumper fascia.

REAR BUMPER FASCIA LOWER MOLDING REPLACEMENT (CENTER)

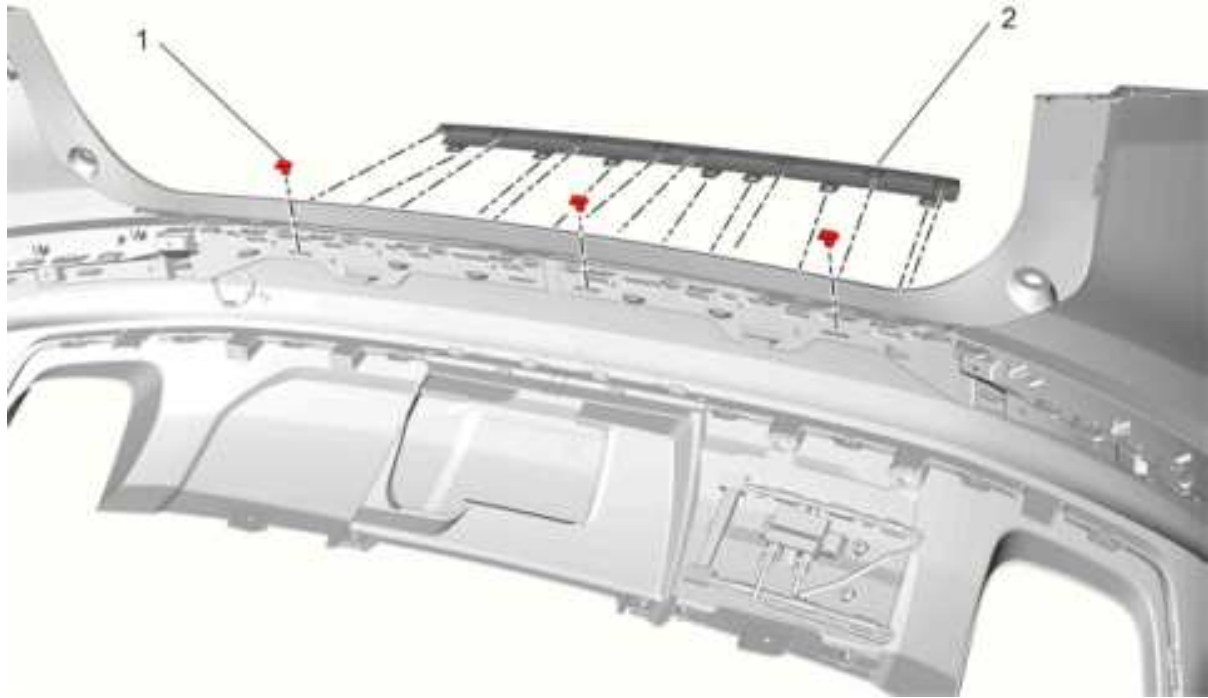


Fig. 63: Rear Bumper Fascia Lower Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Bumper Fascia Energy Absorber Replacement (Equinox)</u> <u>Rear Bumper Fascia Energy Absorber Replacement (Terrain)</u>	
1	Rear Bumper Fascia Molding Clip [3x]
2	Rear Bumper Fascia Lower Molding Procedure 1. Place the bumper fascia face down on a clean protective surface. 2. Release the retainer tabs and push the rear bumper fascia molding out from the rear bumper fascia. 3. Reposition the wiring harness.

REAR BUMPER FASCIA LOWER MOLDING REPLACEMENT (OUTER)

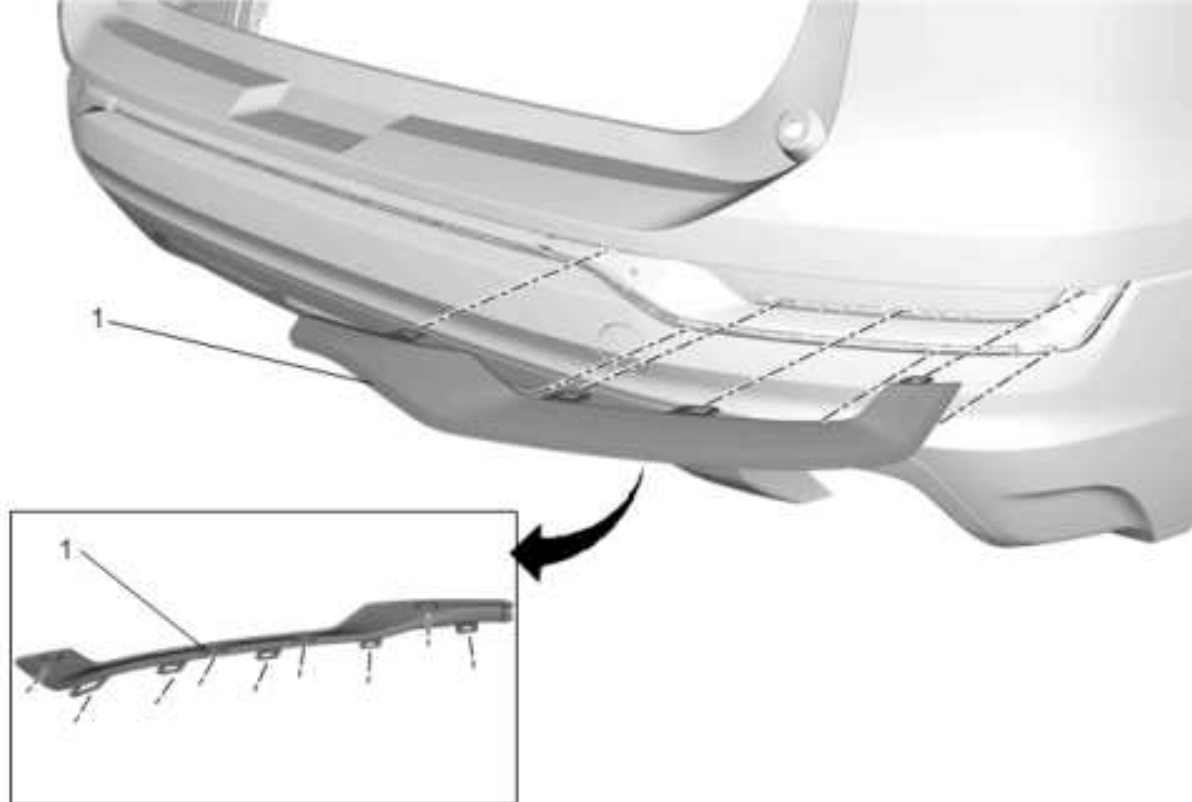


Fig. 64: Rear Bumper Fascia Lower Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Rear Bumper Fascia Energy Absorber Replacement (Equinox) Rear Bumper Fascia Energy Absorber Replacement (Terrain)	
1	Rear Bumper Fascia Lower Molding Procedure 1. Place the bumper fascia face down on a clean protective surface. 2. Release the retainer tabs and push the rear bumper fascia molding out from the rear bumper fascia. 3. Reposition the wiring harness.

REAR BUMPER FASCIA TRAILER HITCH ACCESS HOLE COVER REPLACEMENT (EQUINOX)

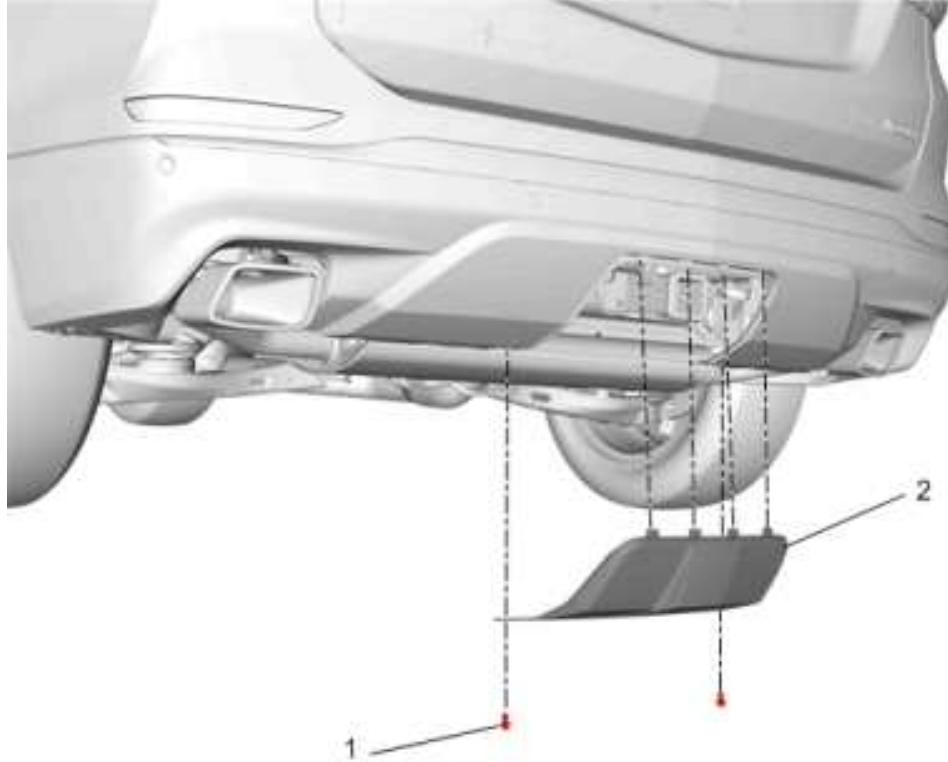


Fig. 65: Rear Bumper Fascia Trailer Hitch Access Hole Cover (Equinox).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Rear Bumper Fascia Trailer Hitch Access Hole Cover Retainer [2x] Procedure Turn the rear bumper fascia trailer hitch access hole cover retainer a 1/4 turn counter clockwise and remove.
2	Rear Bumper Fascia Trailer Hitch Access Hole Cover Procedure Carefully release the tabs and pull the rear bumper fascia trailer hitch access hole cover down from the rear bumper fascia.

REAR BUMPER FASCIA TRAILER HITCH ACCESS HOLE COVER REPLACEMENT (TERRAIN)

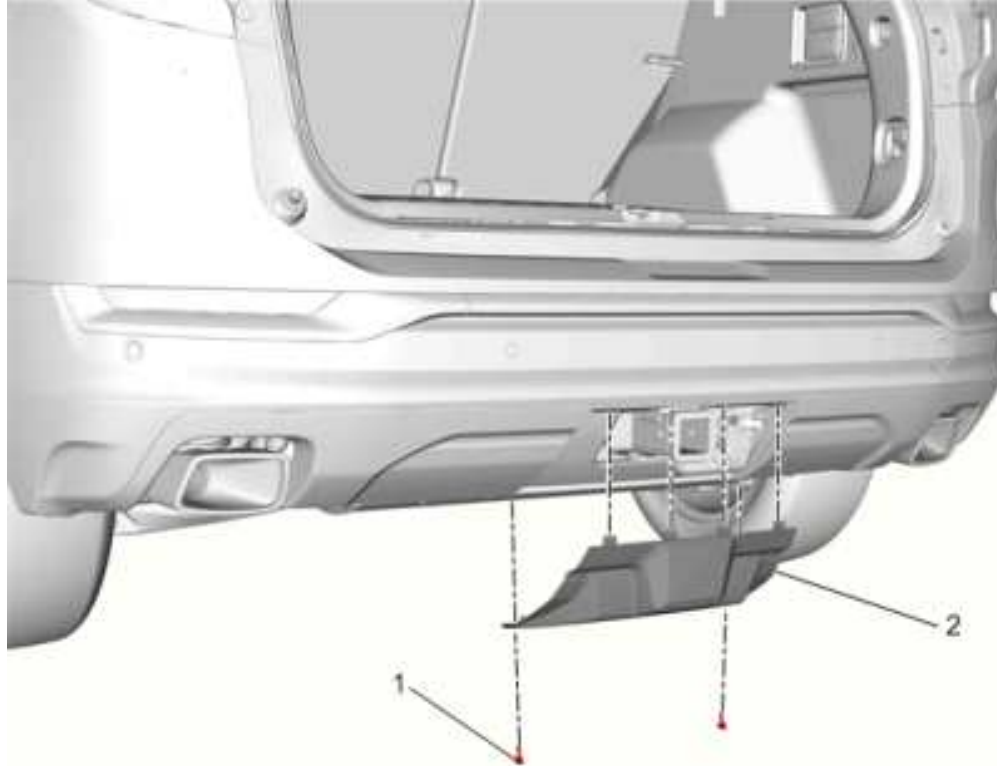


Fig. 66: Rear Bumper Fascia Trailer Hitch Access Hole Cover (Terrain).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Rear Bumper Fascia Trailer Hitch Access Hole Cover Retainer [2x] Procedure Turn the rear bumper fascia trailer hitch access hole cover retainer a 1/4 turn counter clockwise and remove.
2	Rear Bumper Fascia Trailer Hitch Access Hole Cover Procedure Carefully release the tabs and pull the rear bumper fascia trailer hitch access hole cover down from the rear bumper fascia.

REAR BUMPER FASCIA REPLACEMENT (EQUINOX)

Removal Procedure

1. Remove Rear Wheelhouse Liner- Left - [Rear Wheelhouse Liner Replacement- Left Side \(Equinox\)](#).
2. Remove Rear Wheelhouse Liner- Right - [Rear Wheelhouse Liner Replacement - Right Side \(Equinox\)](#).

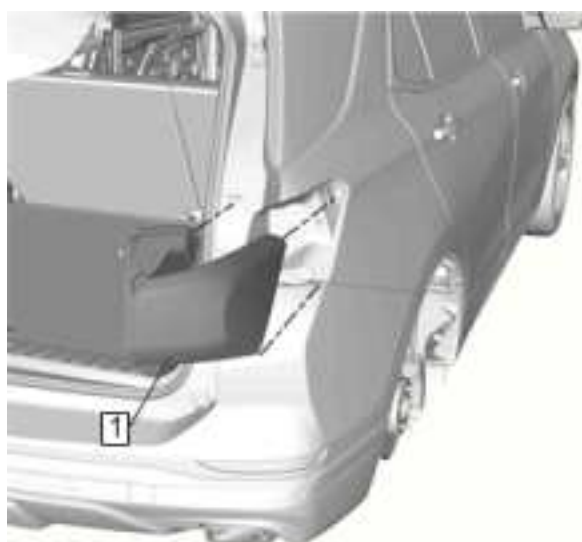


Fig. 67: Rear Body Structure Stop Lamp
Courtesy of GENERAL MOTORS COMPANY

3. Remove Rear Body Structure Stop Lamp (1) - **Rear Body Structure Stop Lamp Replacement (Chevrolet Without UGE)** **Rear Body Structure Stop Lamp Replacement (Chevrolet With UGE)**.

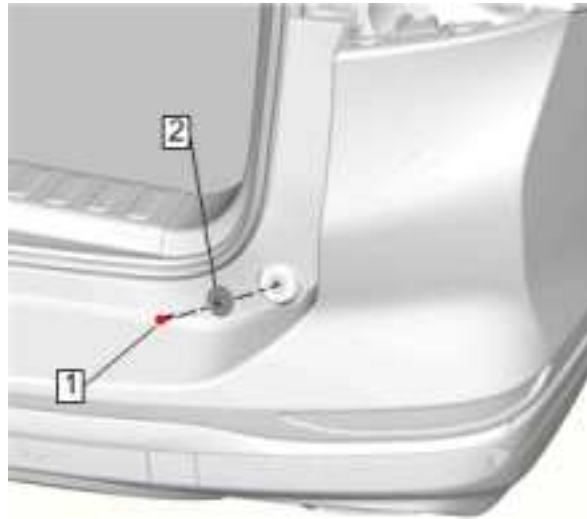


Fig. 68: Liftgate Bumper Pad Bolt
Courtesy of GENERAL MOTORS COMPANY

4. Remove the liftgate bumper pad bolt. (1)
5. Remove the liftgate bumper protector. (2)

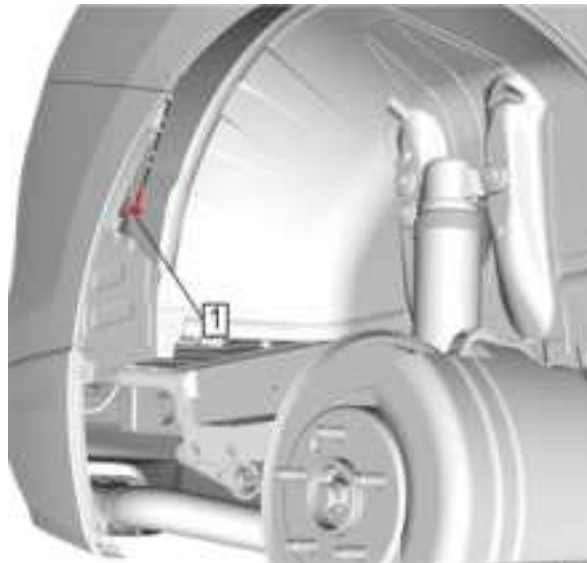


Fig. 69: Rear Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Remove Rear Bumper Fascia Bolt (1) -



Fig. 70: Rear Bumper Fascia Lower Bolt
Courtesy of GENERAL MOTORS COMPANY

7. Remove Rear Bumper Fascia Lower Bolt (1) - [2x]

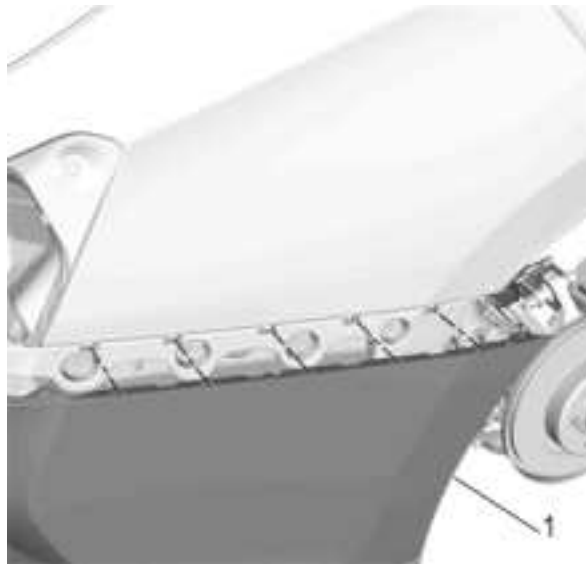


Fig. 71: Fascia
Courtesy of GENERAL MOTORS COMPANY

8. Carefully push a small nylon wedge between the fascia (1) and the fascia guide. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the fascia.

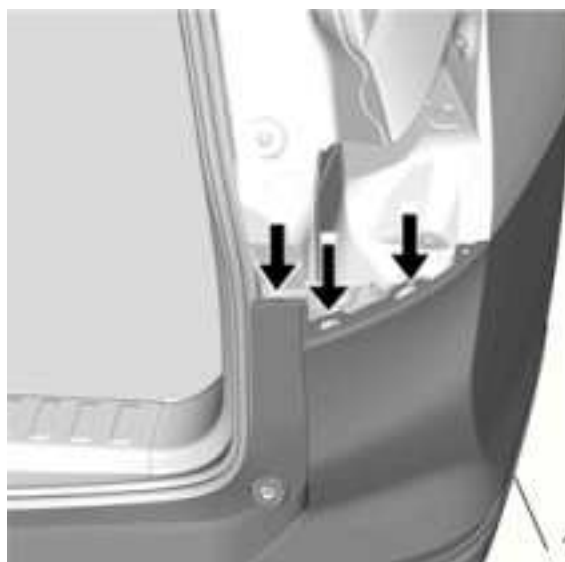


Fig. 72: Rear Bumper Fascia
Courtesy of GENERAL MOTORS COMPANY

9. Using a trim type tool, push down to release the 3 top tabs from the rear bumper fascia (1).

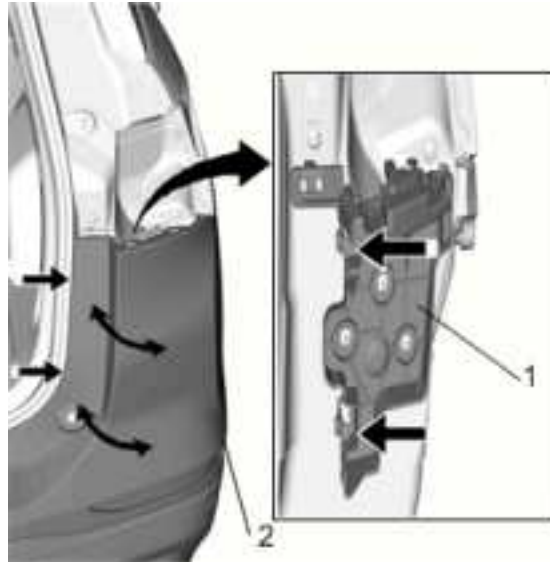


Fig. 73: Rear Fascia Guide And Rear Bumper Fascia
Courtesy of GENERAL MOTORS COMPANY

10. Using a trim type tool, slide the tool in from the liftgate side of the rear bumper fascia (2) to release the 2 side tabs while pulling out and away from the rear fascia guide (1).



Fig. 74: Rear Bumper Fascia
Courtesy of GENERAL MOTORS COMPANY

11. Remove Rear Bumper Fascia (1).
12. Disconnect all electrical connectors.
13. Transfer components as necessary.

Installation Procedure

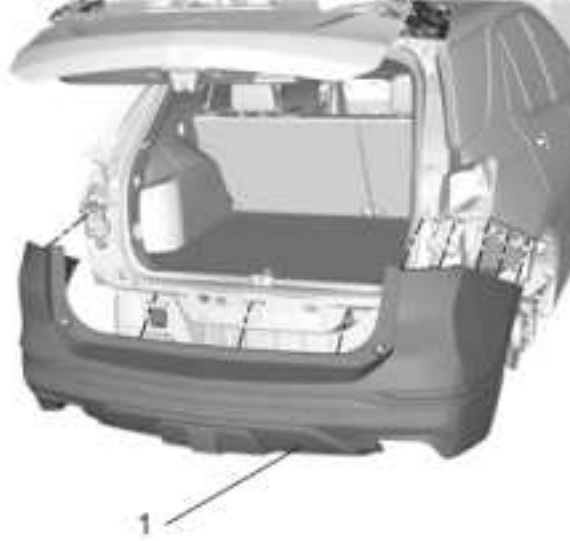


Fig. 75: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

1. Install Rear Bumper Fascia (1)
2. Connect the electrical connectors.

NOTE: It is necessary to program all side object sensor modules after removal or transfer for proper system operation.

3. Push the liftgate side of the rear bumper fascia (2) on to the 2 side tabs of the rear fascia guide (1).

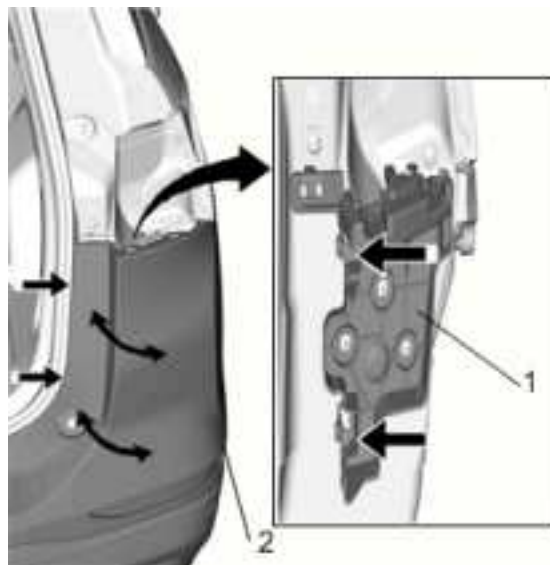


Fig. 76: Rear Fascia Guide And Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

4. Secure the rear bumper fascia (1) to the 3 top tabs of the rear bumper fascia guide.

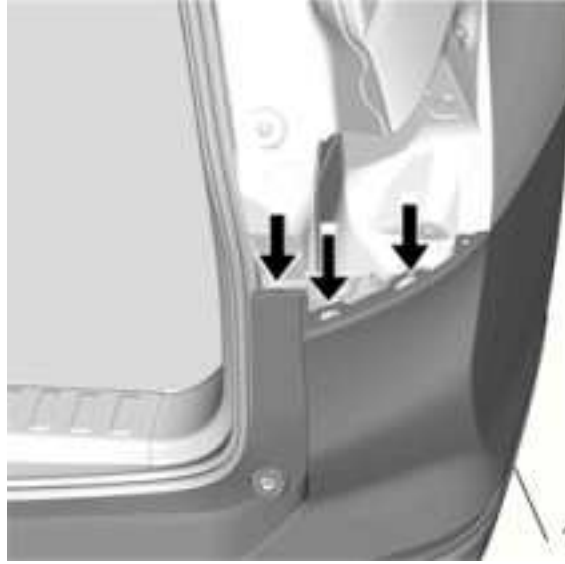


Fig. 77: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

5. Secure the rear bumper fascia (1) to the rear fascia guide.

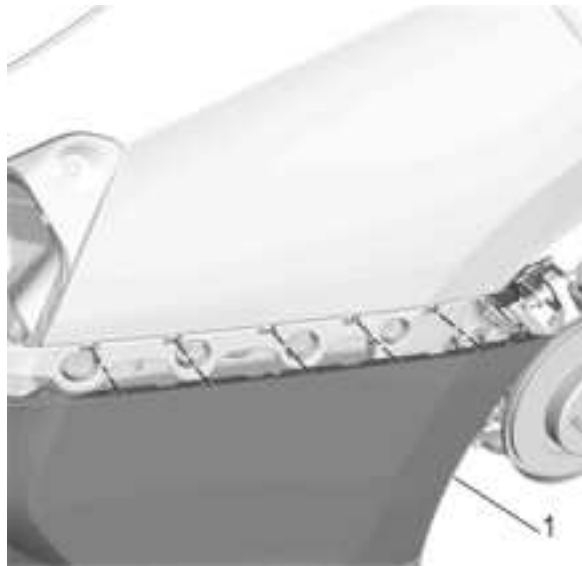


Fig. 78: Fascia

Courtesy of GENERAL MOTORS COMPANY



Fig. 79: Rear Bumper Fascia Lower Bolt

Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to [Fastener Caution](#) .

6. Install Rear Bumper Fascia Lower Bolt (1) and tighten 2.5 N.m (22 lb ft)

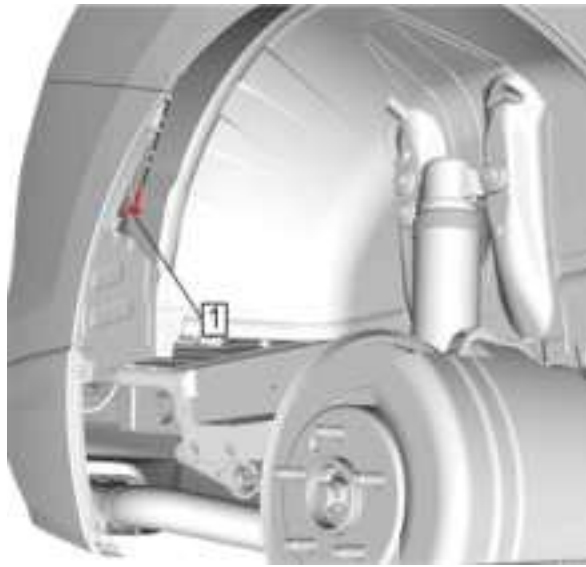


Fig. 80: Rear Bumper Fascia Bolt

Courtesy of GENERAL MOTORS COMPANY

7. Install the liftgate bumper protector. (2)

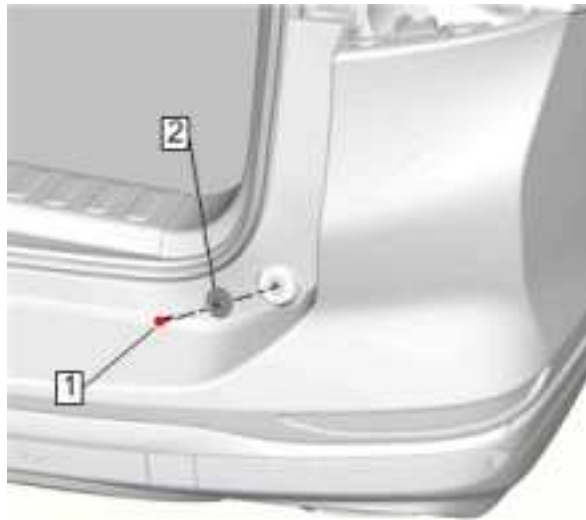


Fig. 81: Liftgate Bumper Pad Bolt

Courtesy of GENERAL MOTORS COMPANY

8. Install Liftgate bumper pad bolt (1) and tighten 2.5 N.m (22 lb ft)
9. Install Rear Body Structure Stop Lamp - **Rear Body Structure Stop Lamp Replacement (Chevrolet Without UGE)**, **Rear Body Structure Stop Lamp Replacement (Chevrolet With UGE)**.

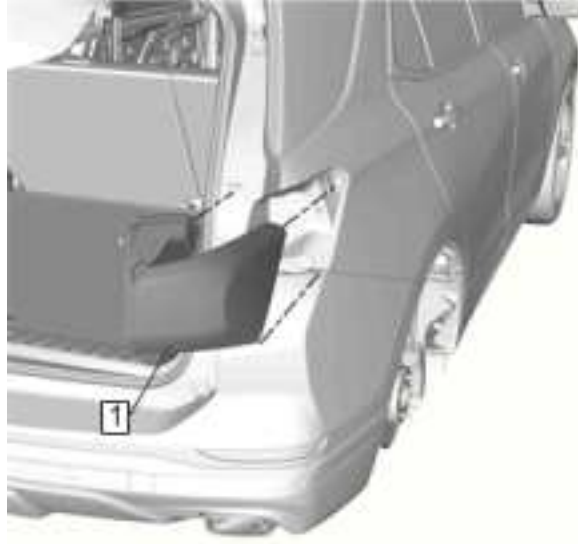


Fig. 82: Rear Body Structure Stop Lamp

Courtesy of GENERAL MOTORS COMPANY

10. Install Rear Wheelhouse Liner- Left - [Rear Wheelhouse Liner Replacement- Left Side \(Equinox\)](#)
11. Install Rear Wheelhouse Liner- Right - [Rear Wheelhouse Liner Replacement - Right Side \(Equinox\)](#)
12. Perform the necessary programming and setup procedure: [Control Module References](#)

REAR BUMPER FASCIA REPLACEMENT (TERRAIN)

Removal Procedure

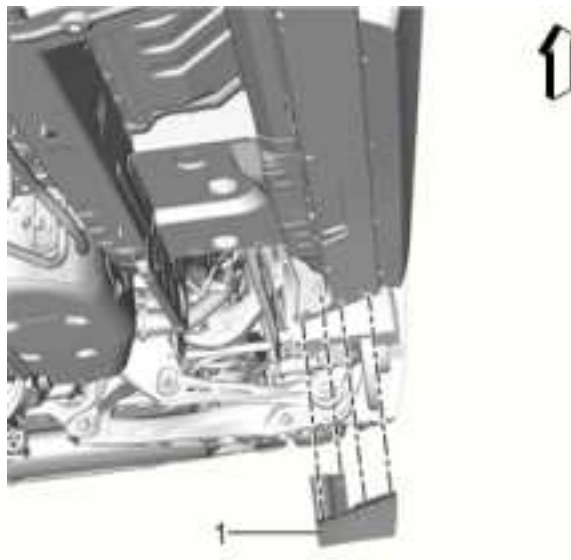


Fig. 83: Rear Tire Front Air Deflector

Courtesy of GENERAL MOTORS COMPANY

1. Remove Rear Tire Front Air Deflector (1) - [Rear Tire Front Air Deflector Replacement \(Terrain\)](#)

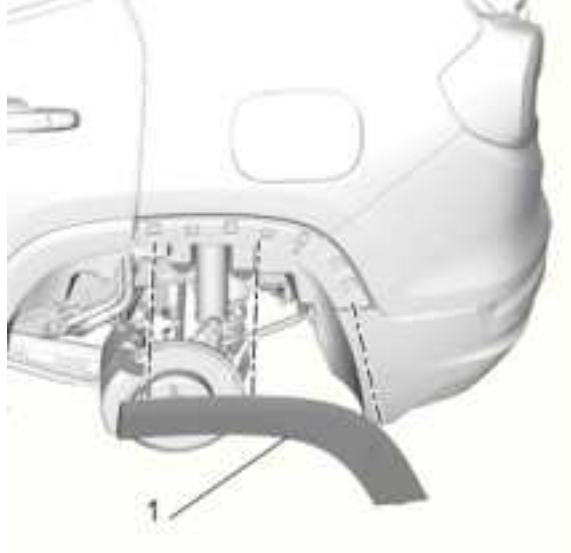


Fig. 84: Rear Wheel Opening Molding

Courtesy of GENERAL MOTORS COMPANY

2. Remove Rear Wheel Opening Molding (1) - [Rear Wheel Opening Molding Replacement](#)
3. Remove Rear Wheelhouse Liner - Left - [Rear Wheelhouse Liner Replacement- Left Side \(Terrain\)](#)
4. Remove Rear Wheelhouse Liner - Right - [Rear Wheelhouse Liner Replacement - Right Side \(Terrain\)](#)

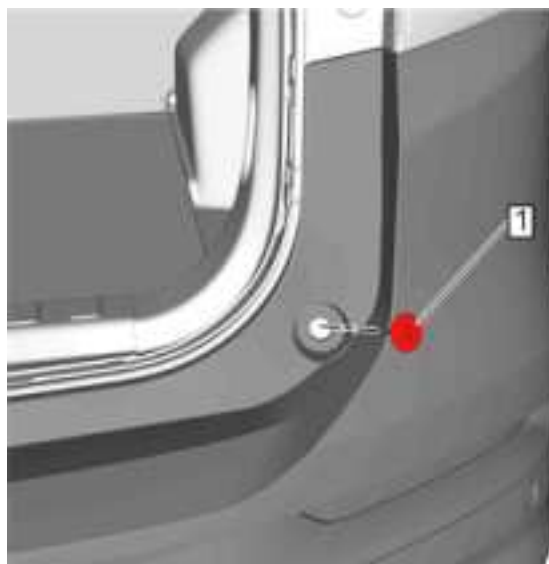


Fig. 85: Rear Wheelhouse Liner

Courtesy of GENERAL MOTORS COMPANY

5. Remove the liftgate bumper pad bolt. (1)



Fig. 86: Liftgate Bumper Pad Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Remove Rear Bumper Fascia Bolt (1).



Fig. 87: Rear Bumper Fascia Lower Bolt
Courtesy of GENERAL MOTORS COMPANY

7. Remove Rear Bumper Fascia Lower Bolt (1) - [2x]

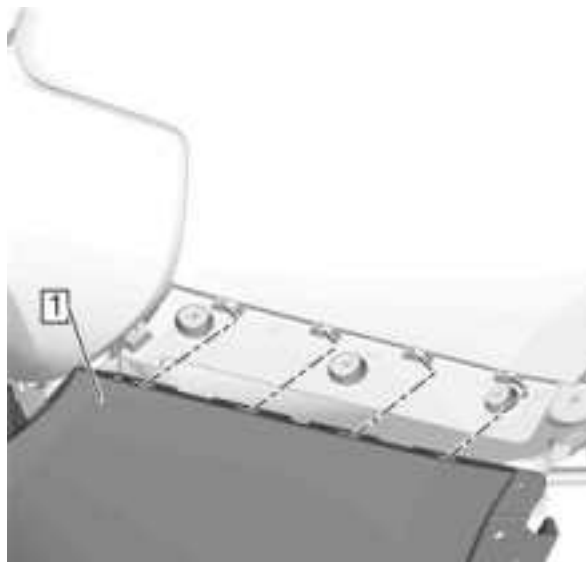


Fig. 88: Rear Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY

8. Carefully push a small nylon wedge between the fascia (1) and the fascia guide. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the fascia.

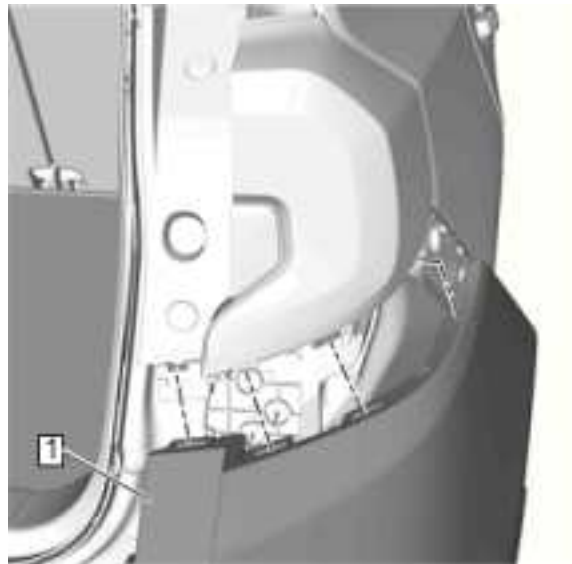


Fig. 89: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

9. Using a trim type tool, release the tabs from the rear body structure stop lamp bracket and carefully pull on the rear bumper fascia (1).



Fig. 90: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

10. Remove Rear Bumper Fascia (1)
11. Disconnect all electrical connectors.
12. Transfer components as necessary.

Installation Procedure

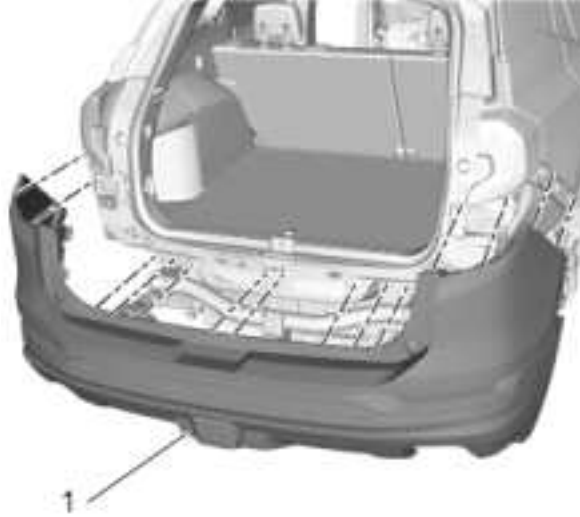


Fig. 91: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

1. Install Rear Bumper Fascia (1)
2. Connect the electrical connectors.

NOTE: It is necessary to program all side object sensor modules after removal or transfer for proper system operation.

3. Secure the rear bumper fascia (1) to the rear body structure stop lamp bracket.

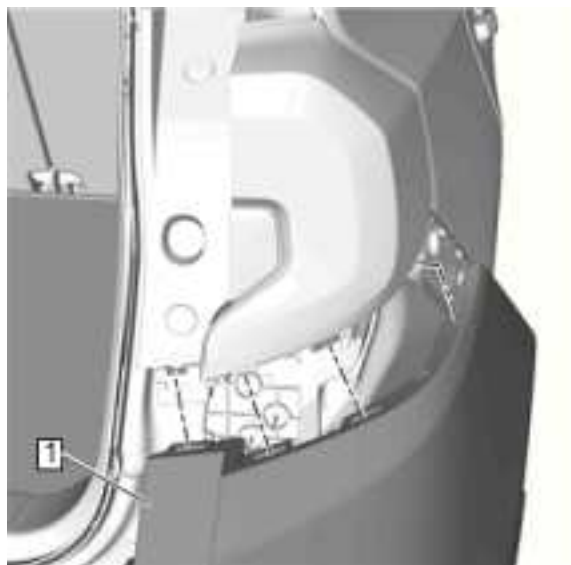


Fig. 92: Rear Bumper Fascia

Courtesy of GENERAL MOTORS COMPANY

4. Secure the rear bumper fascia (1) to the rear fascia guide.

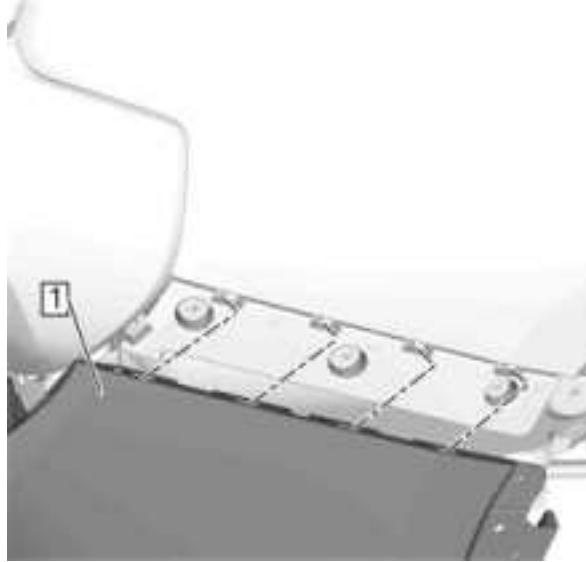


Fig. 93: Rear Bumper Fascia Bolt
Courtesy of GENERAL MOTORS COMPANY



Fig. 94: Rear Bumper Fascia Lower Bolt
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to **Fastener Caution** .

5. Install Rear Bumper Fascia Bolt (1) and tighten 2.5 N.m (22 lb ft)

Install Rear Bumper Fascia Lower Bolt (1) and tighten 2.5 N.m (22 lb ft)

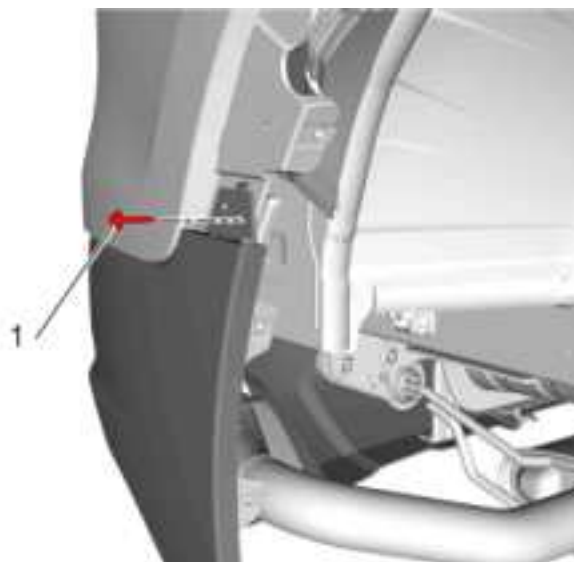


Fig. 95: Liftgate Bumper Pad Bolt
Courtesy of GENERAL MOTORS COMPANY

6. Install Liftgate bumper pad bolt (1) and tighten 2.5 N.m (22 lb ft)

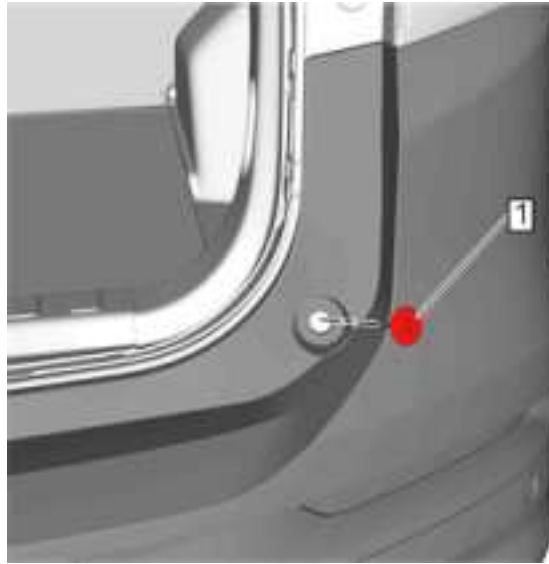


Fig. 96: Rear Wheelhouse Liner
Courtesy of GENERAL MOTORS COMPANY

7. Install Rear Wheelhouse Liner- Left - [Rear Wheelhouse Liner Replacement- Left Side \(Terrain\)](#)
8. Install Rear Wheelhouse Liner- Right - [Rear Wheelhouse Liner Replacement - Right Side \(Terrain\)](#)
9. Install Rear Wheel Opening Molding (1) - [Rear Wheel Opening Molding Replacement](#)

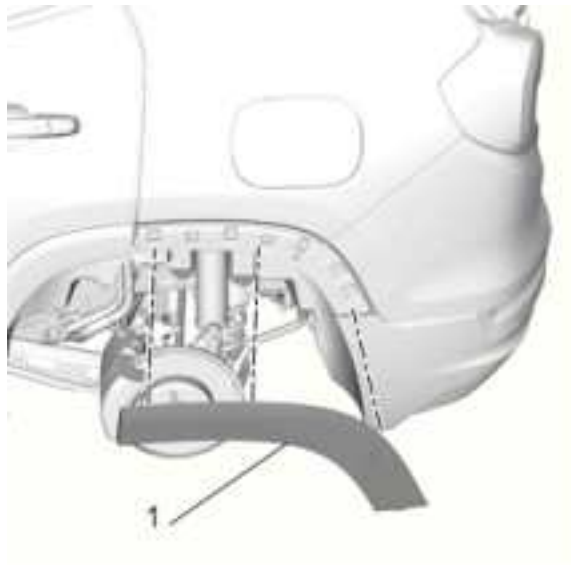


Fig. 97: Rear Wheel Opening Molding
Courtesy of GENERAL MOTORS COMPANY

10. Install Rear Tire Front Air Deflector (1) - [Rear Tire Front Air Deflector Replacement \(Terrain\)](#)

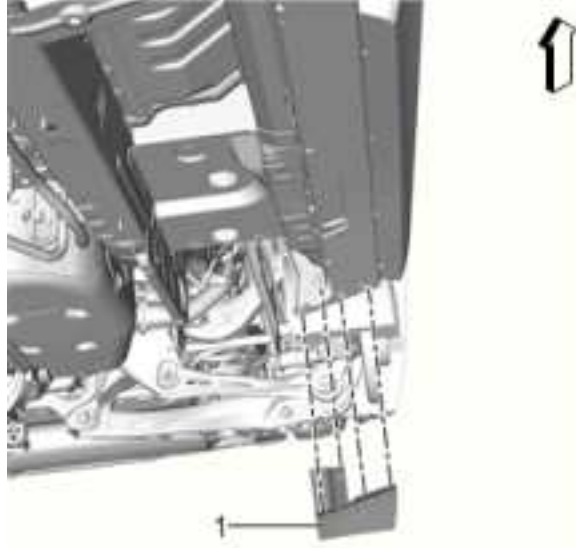


Fig. 98: Rear Tire Front Air Deflector
 Courtesy of GENERAL MOTORS COMPANY

11. Perform the necessary programming and setup procedure: [Control Module References](#)

REAR BUMPER FASCIA GUIDE REPLACEMENT (EQUINOX)

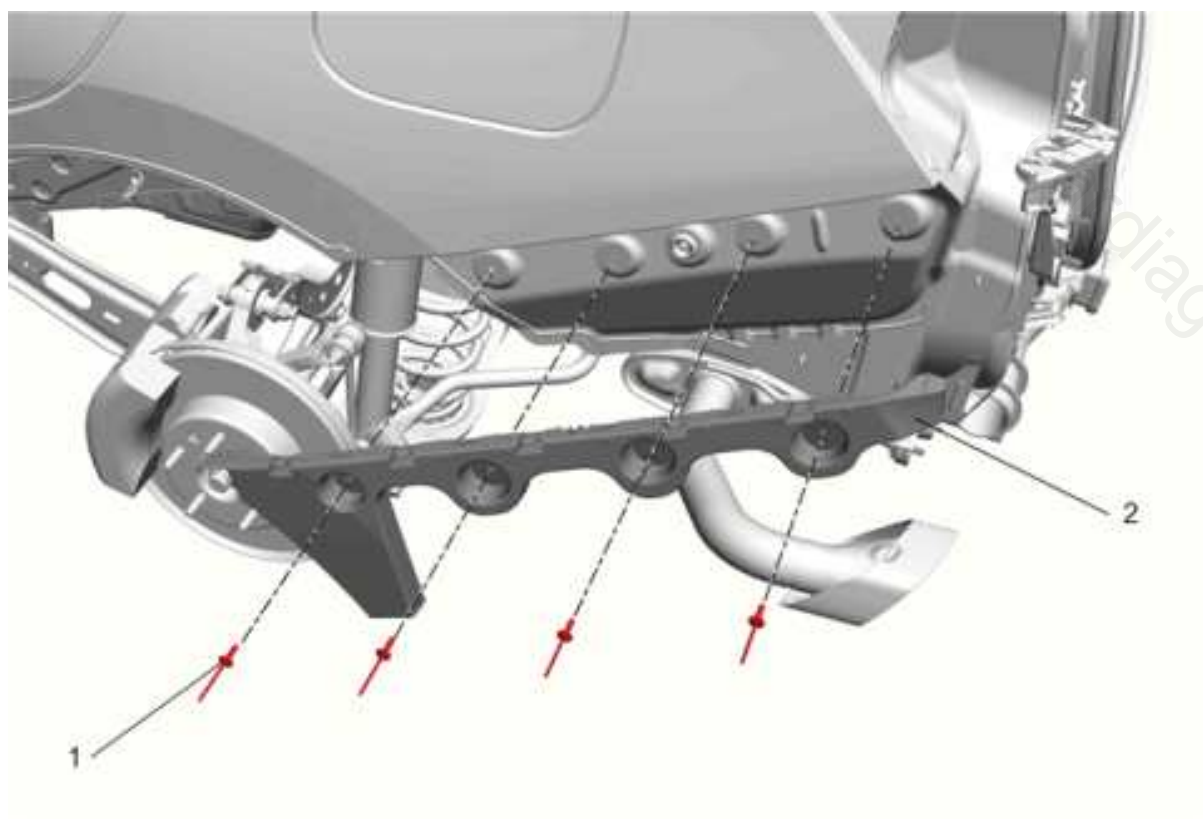


Fig. 99: Rear Bumper Fascia Guide (Equinox)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
WARNING: Refer to Eye Protection Warning .	
Preliminary Procedure Rear Bumper Fascia Replacement (Equinox)	
1	Rear Bumper Fascia Guide Rivet [4x]
2	Rear Bumper Fascia Guide

REAR BUMPER FASCIA GUIDE REPLACEMENT (TERRAIN)

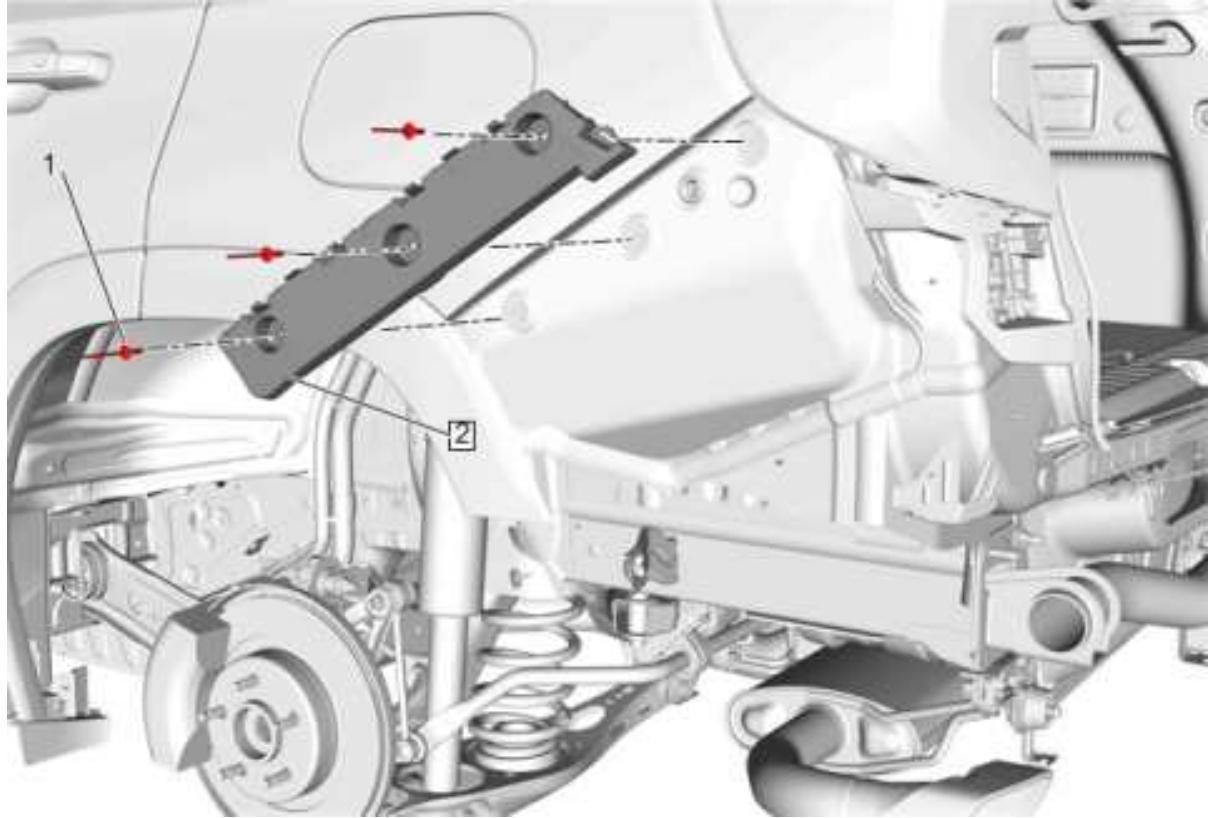


Fig. 100: Rear Bumper Fascia Guide (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
WARNING: Refer to Eye Protection Warning .	
Preliminary Procedure Rear Bumper Fascia Replacement (Terrain)	
1	Rear Bumper Fascia Guide Rivet [4x]
2	Rear Bumper Fascia Guide

REAR BUMPER UPPER FASCIA REPLACEMENT (EQUINOX)

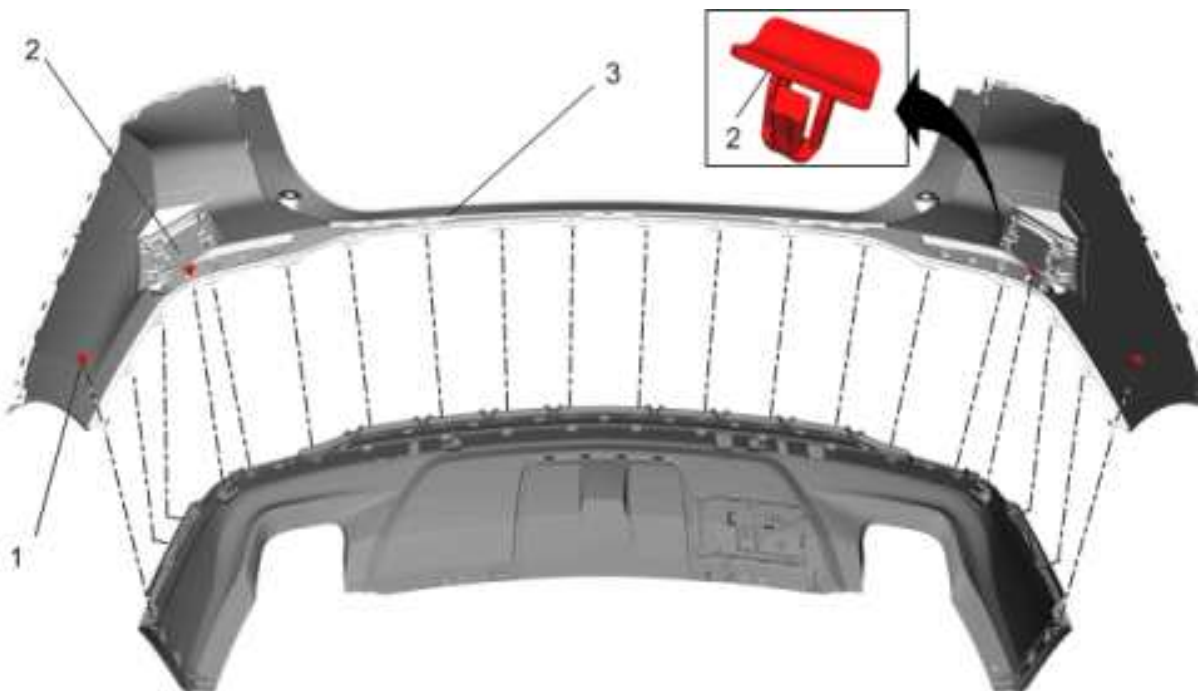


Fig. 101: Rear Bumper Upper Fascia (Equinox)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Bumper Fascia Energy Absorber Replacement (Equinox)</u>	
1	Rear Bumper Fascia Bolt [2x] CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Rear Bumper Upper Fascia Clip [2x]
3	Rear Bumper Upper Fascia Procedure - Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the upper fascia from the lower fascia. - Disconnect electrical connections, if applicable. - Transfer components as necessary.

REAR BUMPER UPPER FASCIA REPLACEMENT (TERRAIN)

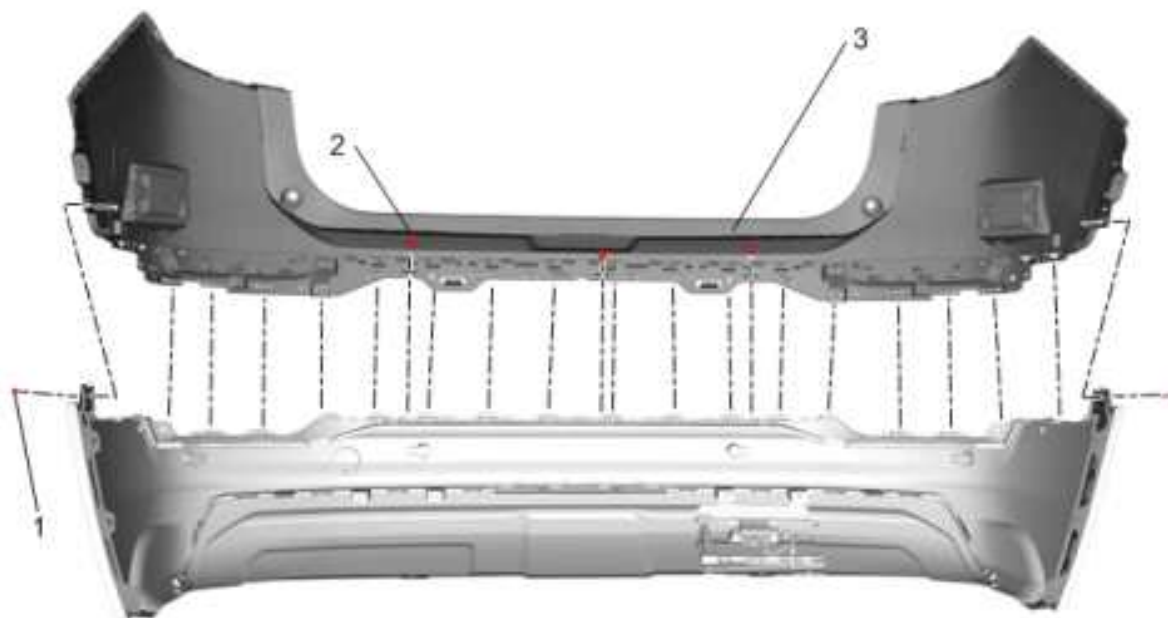


Fig. 102: Rear Bumper Upper Fascia (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Bumper Fascia Energy Absorber Replacement (Terrain)</u>	

Callout	Component Name
1	Rear Bumper Fascia Bolt [2x] CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rear Bumper Upper Fascia Clip [3x]
3	Rear Bumper Upper Fascia Procedure 1. Carefully push a small nylon wedge between the upper fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the snaps one at a time and pull on the fascia at the same time to gradually remove the upper fascia from the lower fascia. 2. Disconnect all electrical connectors. 3. Transfer components as necessary.

REAR BUMPER LOWER FASCIA REPLACEMENT (EQUINOX)

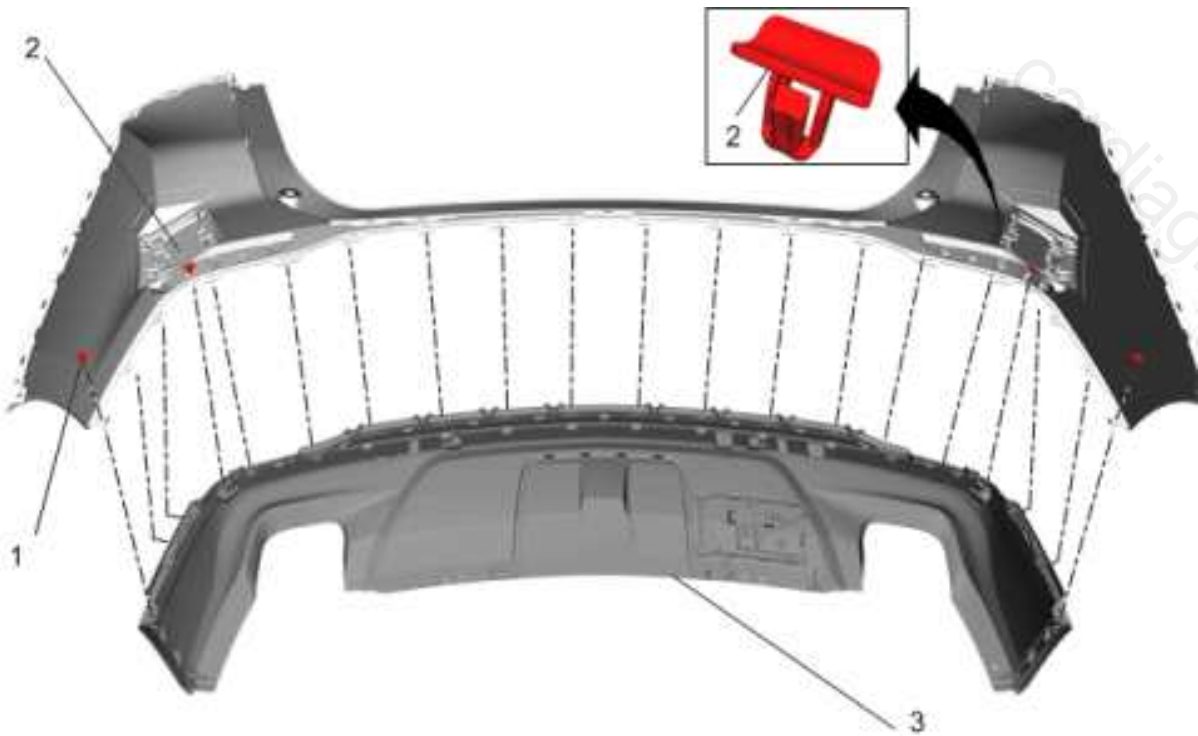


Fig. 103: Rear Bumper Lower Fascia (Equinox)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Rear Bumper Fascia Energy Absorber Replacement (Equinox)</u>	

Callout	Component Name
1	Rear Bumper Fascia Bolt [2x] CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rear Bumper Lower Fascia Clip [2x]
3	Rear Bumper Lower Fascia Procedure 1. Carefully push a small nylon wedge between the fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the fascia. 2. Disconnect electrical connections, if applicable. 3. Transfer components as necessary.

REAR BUMPER LOWER FASCIA REPLACEMENT (TERRAIN)

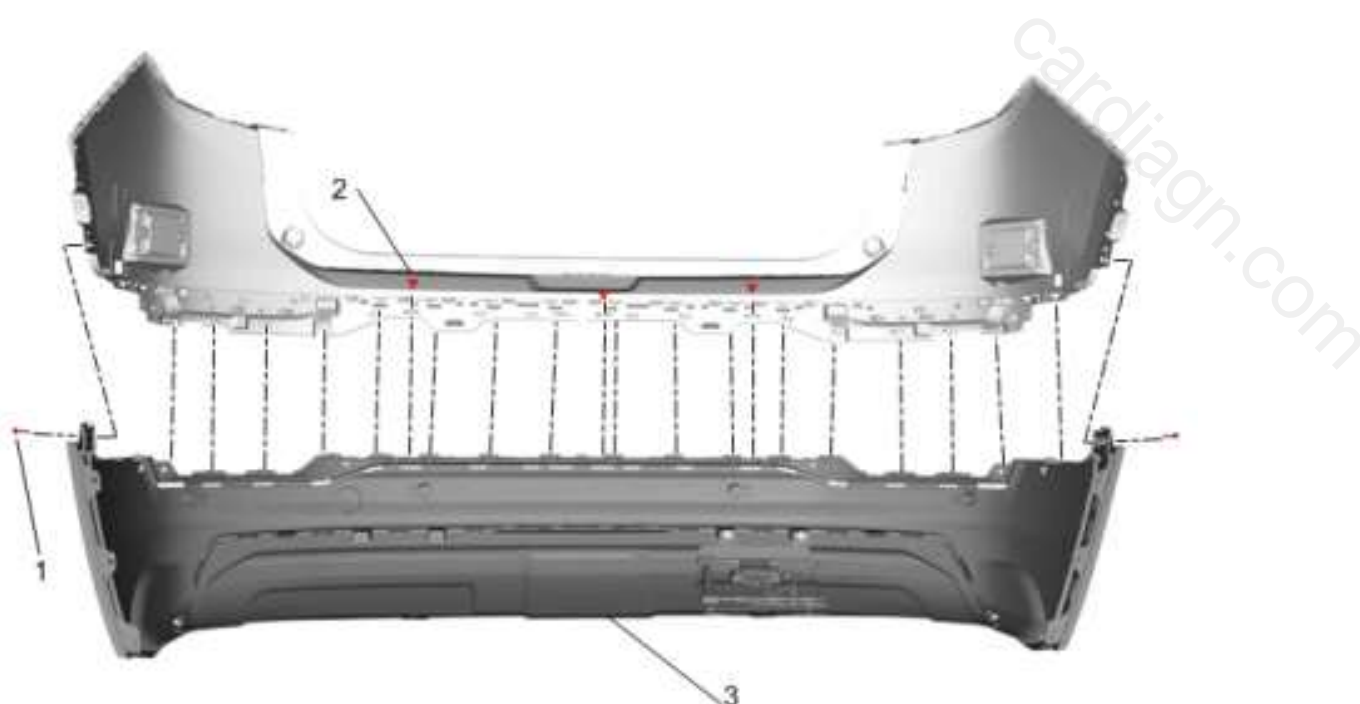


Fig. 104: Rear Bumper Lower Fascia (Terrain).
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Rear Bumper Fascia Energy Absorber Replacement (Terrain)	

Callout	Component Name
1	Rear Bumper Fascia Bolt [2x] CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rear Bumper Lower Fascia Clip [2x]
3	Rear Bumper Lower Fascia Procedure 1. Carefully push a small nylon wedge between the fascia and the lower fascia. Insert a small flat-bladed tool into the fascia slot and depress the tabs one at a time and pull on the fascia at the same time to gradually remove the lower fascia from the fascia. 2. Transfer components as necessary.

REAR BUMPER FASCIA REINFORCEMENT REPLACEMENT

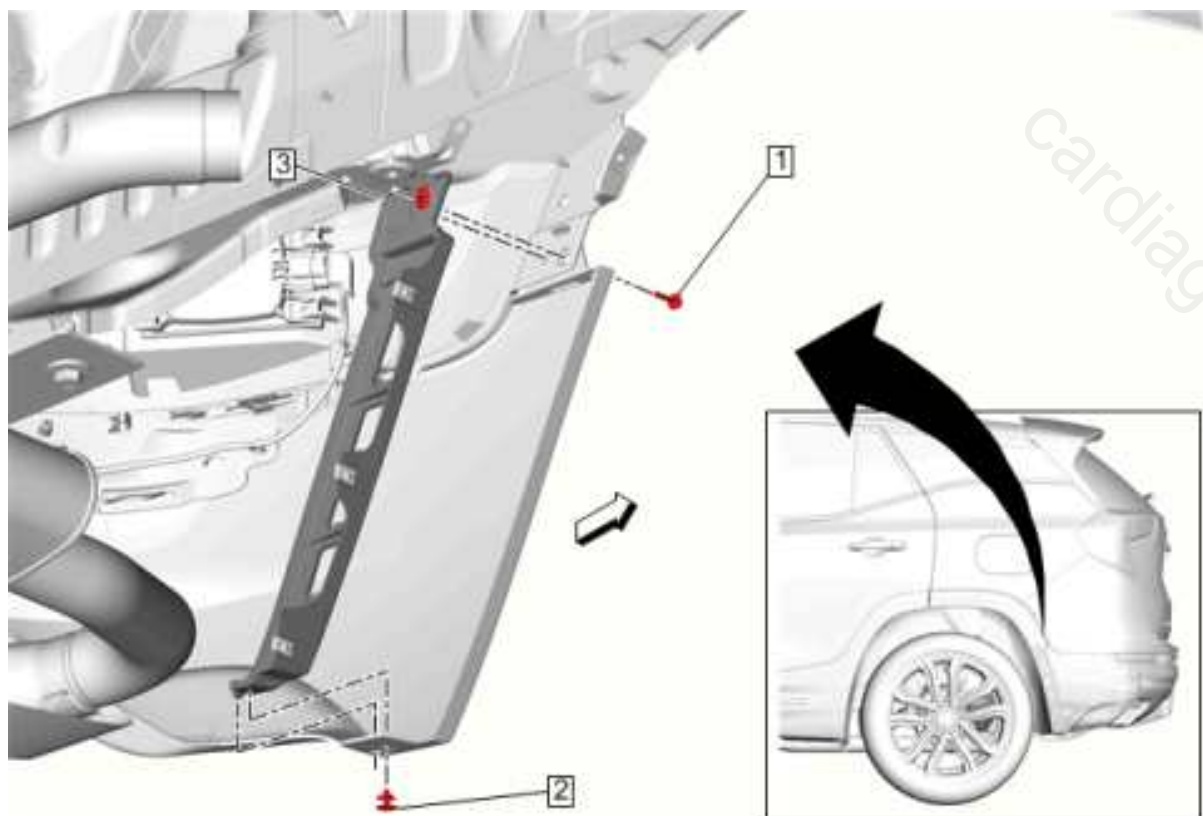


Fig. 105: Rear Bumper Fascia Reinforcement
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
1. Rear Wheelhouse Liner Replacement- Left Side (Equinox) Rear Wheelhouse Liner Replacement- Left Side (Terrain) 2. Rear Wheelhouse Liner Replacement - Right Side (Terrain) Rear Wheelhouse Liner Replacement - Right Side (Equinox) 3. Rear Wheel Opening Molding Replacement	

Callout	Component Name
1	Rear Bumper Fascia Bolt CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rear Bumper Lower Fascia Bracket Rivet
3	Rear Bumper Fascia Reinforcement

REAR BUMPER FASCIA TAIL LAMP OPENING BRACKET REPLACEMENT

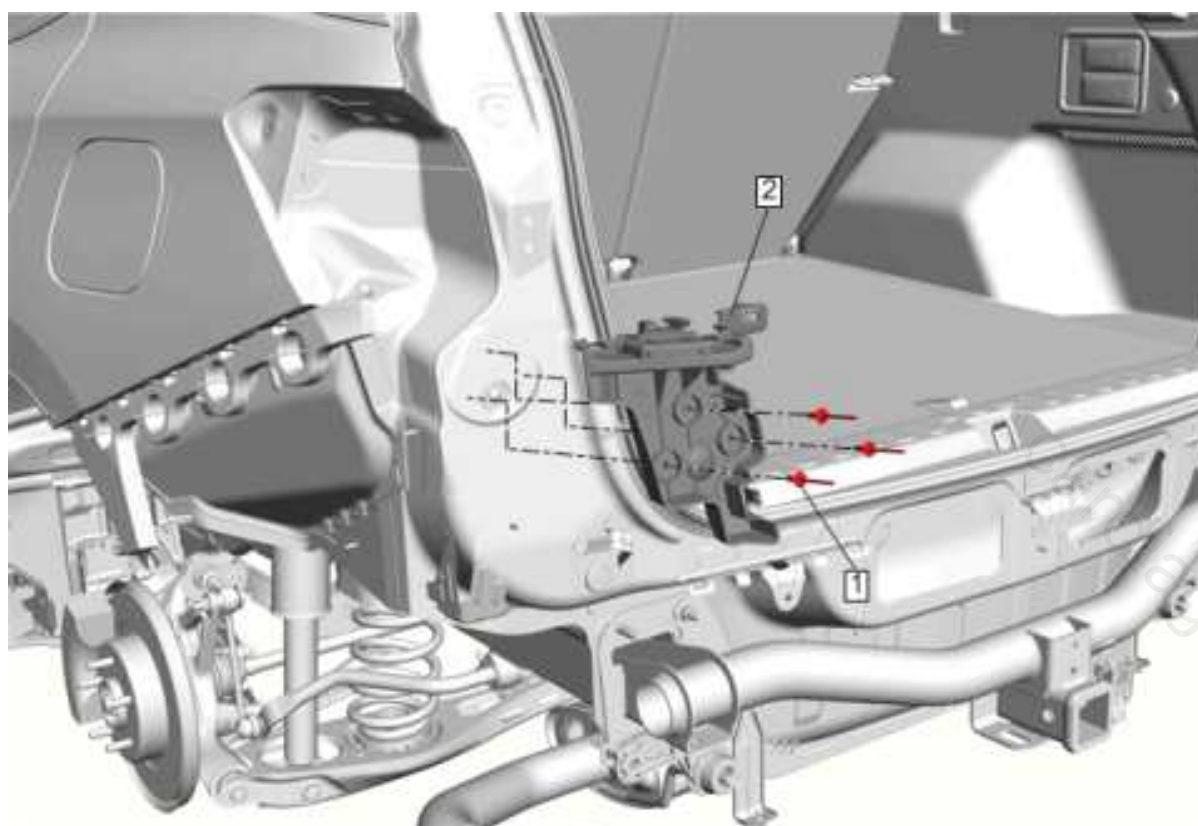


Fig. 106: Rear Bumper Fascia Tail Lamp Opening Bracket
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
WARNING: Refer to Eye Protection Warning .	
Preliminary Procedures	
Rear Bumper Fascia Replacement (Equinox)Rear Bumper Fascia Replacement (Terrain) Rear Body Structure Stop Lamp Replacement (Chevrolet Without UGE) Rear Body Structure Stop Lamp Replacement (Chevrolet With UGE) Rear Body Structure Stop Lamp Replacement (GMC)	
1	Rear Bumper Fascia Tail Lamp Opening Bracket Rivet [3x]
2	Rear Bumper Fascia Tail Lamp Opening Bracket

REAR BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (EQUINOX)

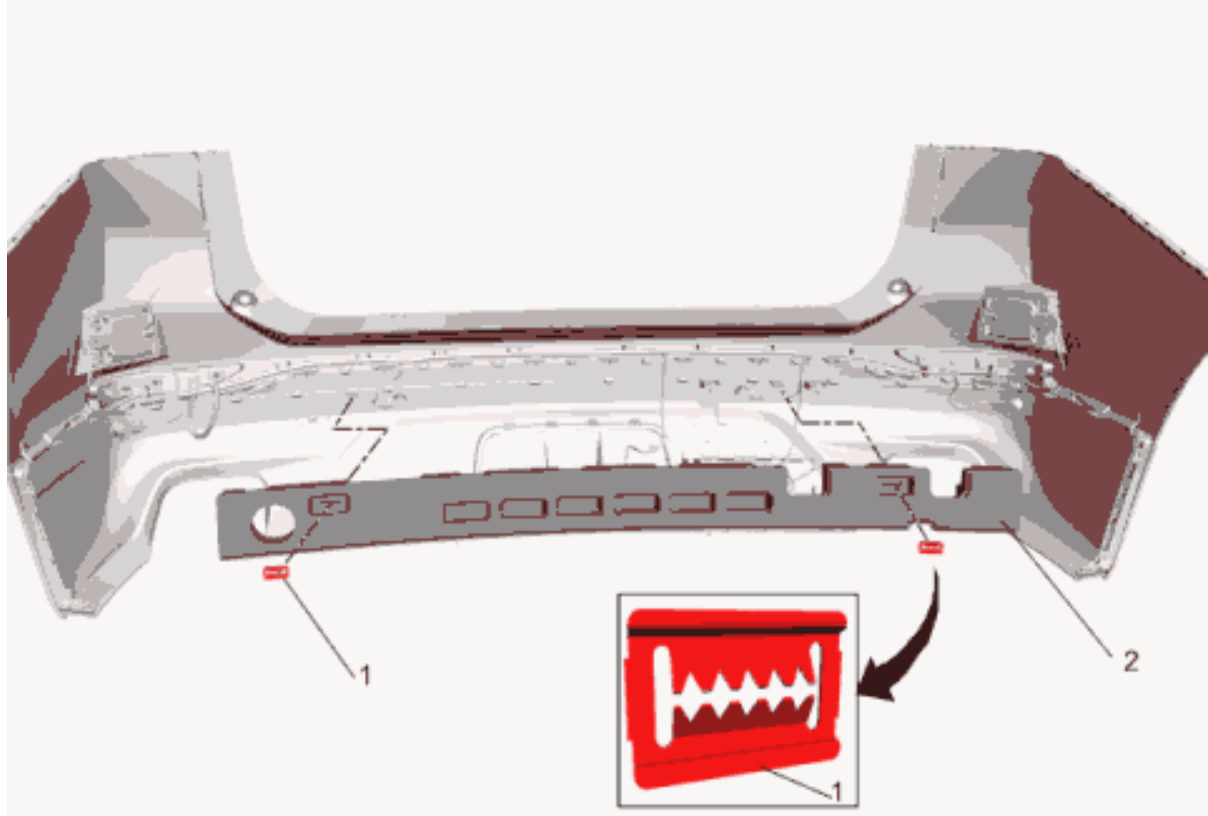


Fig. 107: Rear Bumper Fascia Energy Absorber (Equinox)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures <u>Rear Bumper Fascia Replacement (Equinox)</u> - Reposition the wiring harness.	
1	Rear Bumper Fascia Energy Absorber Clip [2x]
2	Rear Bumper Fascia Energy Absorber Procedure Transfer components as necessary.

REAR BUMPER FASCIA ENERGY ABSORBER REPLACEMENT (TERRAIN)

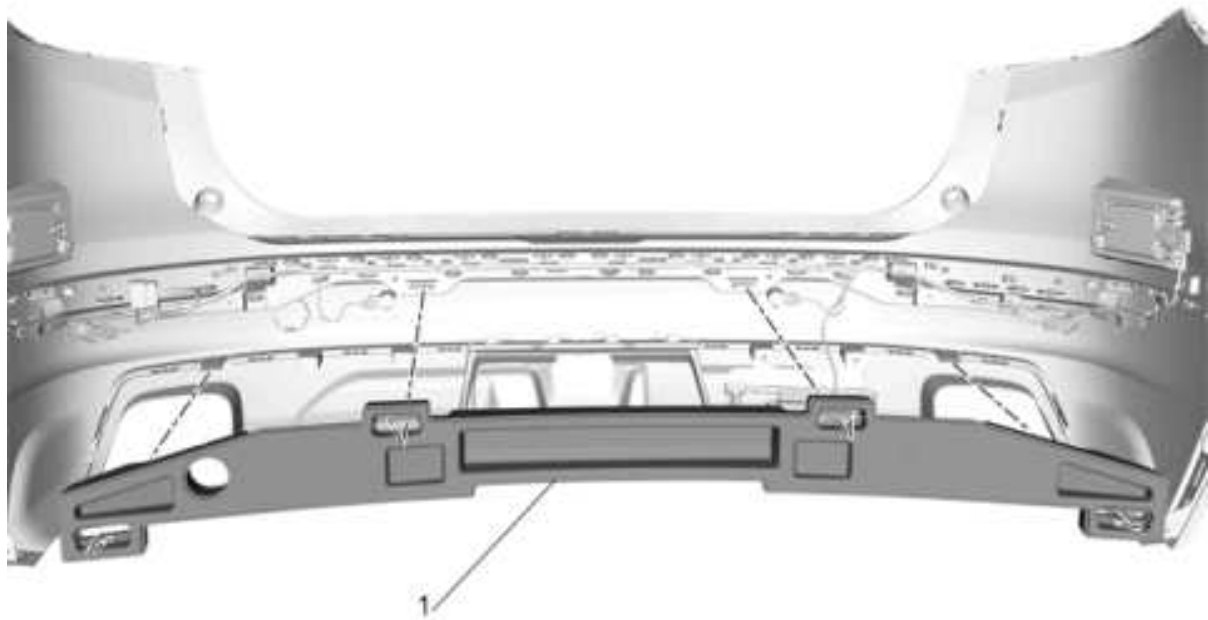


Fig. 108: Rear Bumper Fascia Energy Absorber (Terrain)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Rear Bumper Fascia Replacement (Terrain)</u>	
1	Rear Bumper Fascia Energy Absorber Procedure Release the 4 rear bumper fascia energy absorber tabs and remove from the rear bumper fascia.

REAR BUMPER IMPACT BAR REPLACEMENT (EQUINOX)

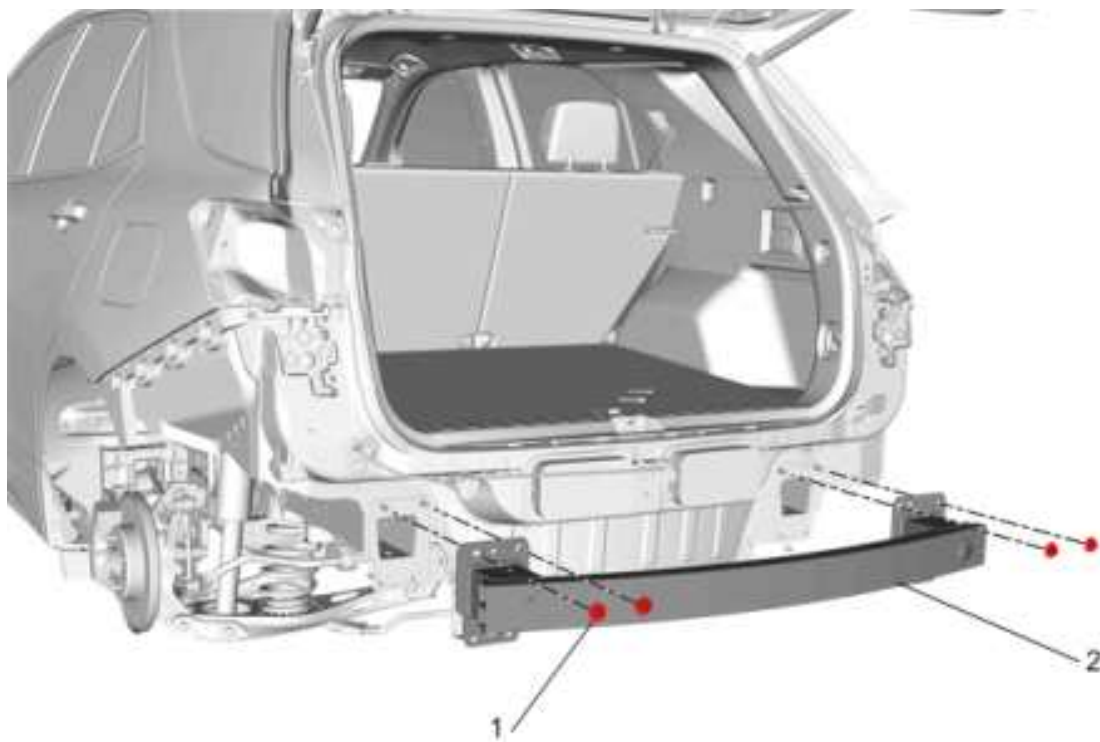


Fig. 109: Rear Bumper Impact Bar (Equinox)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures Rear Bumper Fascia Replacement (Equinox) Exhaust Rear Muffler Insulator Replacement	
1	Rear Bumper Impact Bar Nut [4x] CAUTION: Refer to Fastener Caution . Tighten 58 N.m (43 lb ft)
2	Rear Bumper Impact Bar Procedure Transfer components as necessary.

REAR BUMPER IMPACT BAR REPLACEMENT (TERRAIN)

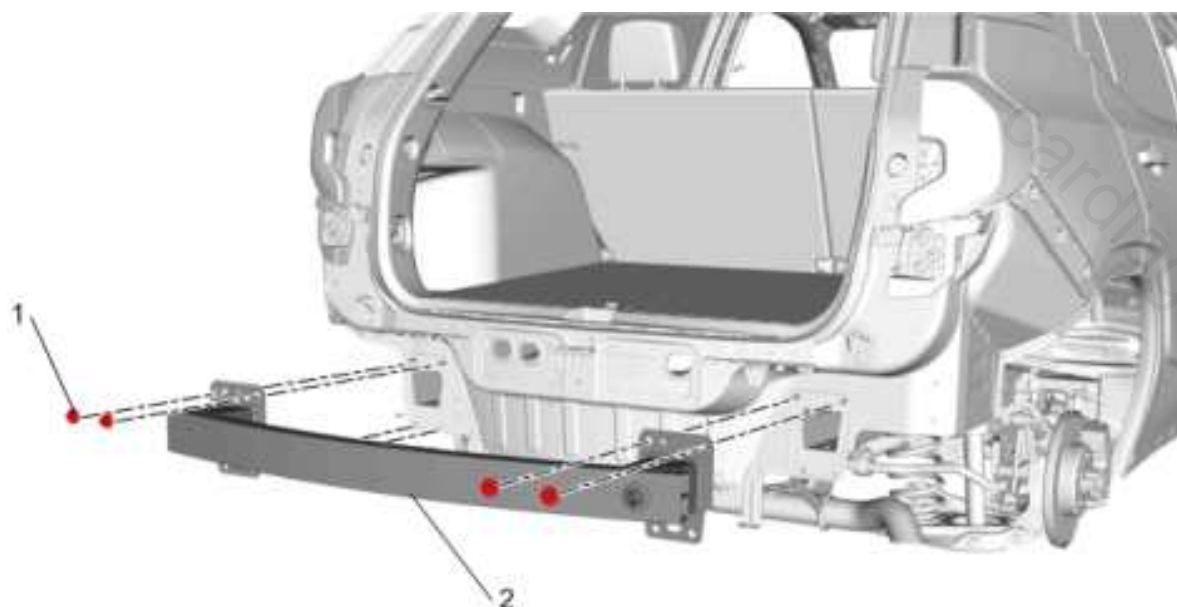


Fig. 110: Rear Bumper Impact Bar (Terrain)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures Rear Bumper Fascia Replacement (Terrain) Exhaust Rear Muffler Insulator Replacement	
Empty space for additional procedures	

Callout	Component Name
1	Rear Bumper Impact Bar Nut [4x] CAUTION: Refer to Fastener Caution . Tighten 58 N.m (43 lb ft)
2	Rear Bumper Impact Bar Procedure Transfer components as necessary.

DESCRIPTION AND OPERATION

ACTIVE GRILLE AIR SHUTTER DESCRIPTION AND OPERATION

The active grille air shutter system closes shutters in the front grille to enhance vehicle aerodynamics in driving situations where cooling and A/C loads are relatively low and high levels of front end airflow are not required. If high levels of airflow are required the active grille air shutter system will open one or both shutters. The control signal from the engine control module, ignition and ground circuits enable the active grille air shutter actuators to operate. If the conditions for opening the shutters are reached the engine control module commands the active grille air shutter actuators to open one or both shutters.

The dual active grille air shutter system consists of two aero shutter mechanisms located in the front grille for controlling the amount of air flowing through the grille. It includes three wires; ground, power and a Local Interconnect Network (LIN) Bus serial data circuit from the engine control module to the shutter actuator. The engine control module determines shutter state based on various vehicle conditions such as vehicle speed, coolant temperature, fan state, refrigerant system pressure, A/C compressor state and ambient temperature. The engine control module has the ability to command each shutter individually to the open or closed positions through communications on the LIN Bus.

The actuators are powered by an ignition circuit that is active when the key is in the RUN position. The vehicle may have to be driven for up to 13 minutes at speeds greater than 41 km/h (25 mph) before a shutter begins to move. If low ambient temperature is detected, the shutters will remain in the closed position.