

Body Front End

Specifications

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Body Hinge Pillar Trim Panel Bolt/Screw	1.3 N·m	12 lb in
Door Jamb Switch	6 N·m	53 lb in
Fascia Outer Bracket Bolt/Screw	5.5 N·m	49 lb in
Front Bumper Fascia Outer Bracket Bolt/Screw	10 N·m	89 lb in
Front Fender Bolt/Screw	5.5 N·m	49 lb in
Front Fender Rear Center Bracket Bolt/Screw	5.5 N·m	49 lb in
Front Fender Rear Upper Bracket Bolt/Screw	5.5 N·m	49 lb in
Front Wheelhouse Panel Liner Bolt/Screw	1.3 N·m	12 lb in
Front Wheelhouse Panel Liner Bolt/Screw (Lower)	10 N·m	89 lb in
Headlamp Housing Panel Bracket and Pivot Support Bracket Bolt/Screw	1.7 N·m	15 lb in
Headlamp Housing Panel Bolt/Screw	8 N·m	71 lb in
Headlamp Housing Panel Bracket Bolt/Screw	10 N·m	89 lb in
Headlamp Housing Panel Bracket Bolt/Screw	5.5 N·m	49 lb in
Headlamp Housing Panel Support Bolt/Screw	10 N·m	89 lb in
Headlamp Housing Panel Upper Bracket Bolt/Screw	10 N·m	89 lb in
Hood Air Extractor Nut	3 N·m	27 lb in
Hood Air Extractor Screen Bolt/Screw	1.7 N·m	15 lb in
Hood Hinge Bolt/Screw	10 N·m	89 lb in
Hood Hinge Bolt/Screw (Body Side)	27 N·m	20 lb ft
Hood Hinge Bracket Bolt/Screw	27 N·m	20 lb ft
Hood Hinge Nut	25 N·m	18 lb ft
Hood Open Assist Rod Bolt/Screw	10 N·m	89 lb in
Hood Open Assist Rod Bracket Bolt/Screw	23 N·m	17 lb ft
Hood Primary Latch Bolt/Screw	25 N·m	18 lb ft
Hood Primary Latch Release Cable Bolt/Screw	7 N·m	62 lb in
Hood Primary Latch Support Bolt/Screw	18 N·m	13 lb ft
Hood Primary Latch Striker Bolt/Screw	27 N·m	20 lb ft
Hood Secondary Latch Bolt/Screw	12 N·m	106 lb in
Hood Strut Ball Stud	21 N·m	16 lb ft
Negative Battery Cable	15 N·m	11 lb ft
Radiator Air Lower Deflector Bolt/Screw	10 N·m	89 lb in

GM SPO Group Numbers

Application	GM SPO Group Number
Battery Heat Shield	2.333
Battery Tray	2.333
Fender	8.130
Hood	8.000
Hood Hinge	8.015
Hood Insulator	8.021
Hood Latch	8.080
Hood Latch Striker	8.080
Hood Release Cable	8.075
Hood Seal	8.010
Hood Strut	8.015
Wheel House Filler Panel	8.153

Repair Instructions

Hood Adjustment

The following components can only be adjusted minimally:

- The hood
- The front fenders
- The hood hinges

1. Inspect the structural body for damage or misalignment. Refer to *Alignment Checking* in Frame and Underbody.
2. Loosen the hood hinge bolts/screws and adjust the following components:
 - The hood
 - The bumpers

Raising or Lowering Rear Corners of Hood

Hood Adjust Front Bumper

1. Close the hood firmly.
2. Determine the amount of adjustment needed. Refer to *Alignment Checking* in Frame and Underbody.
3. Open the hood.
4. Change the height by turning the hood bumpers up or down.
5. Repeat steps 1 through 4 until the hood is properly aligned.

Fore and Aft Adjustment

Important: Adjust one side at a time for the best appearance.

1. Loosen the following components:
 - 1.1. The hood hinge to body bolts/screws (4)
 - 1.2. The nuts (5)
2. Move the hood forward or rearward. Refer to *Alignment Checking* in Frame and Underbody.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

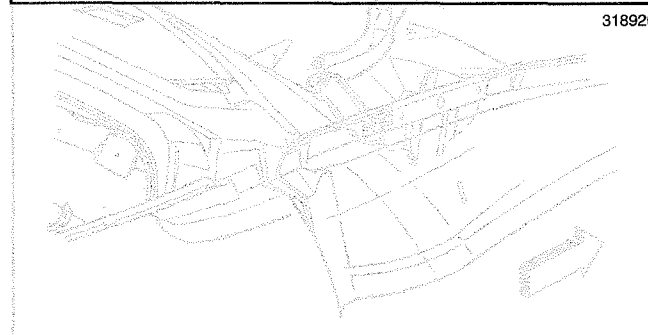
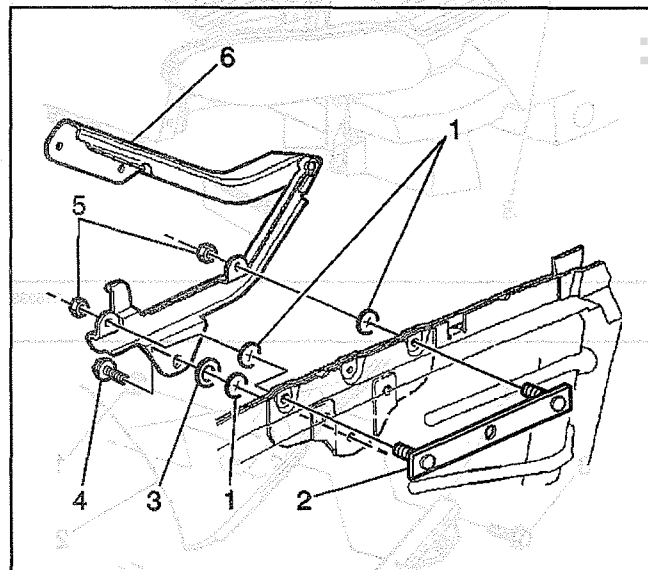
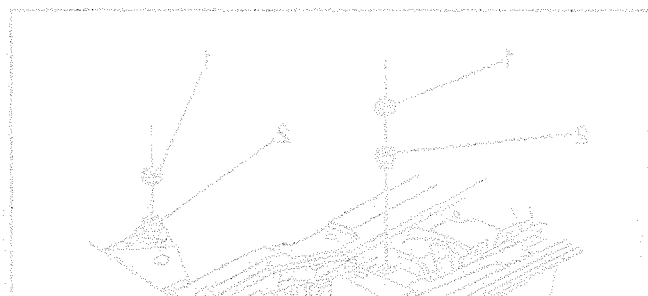
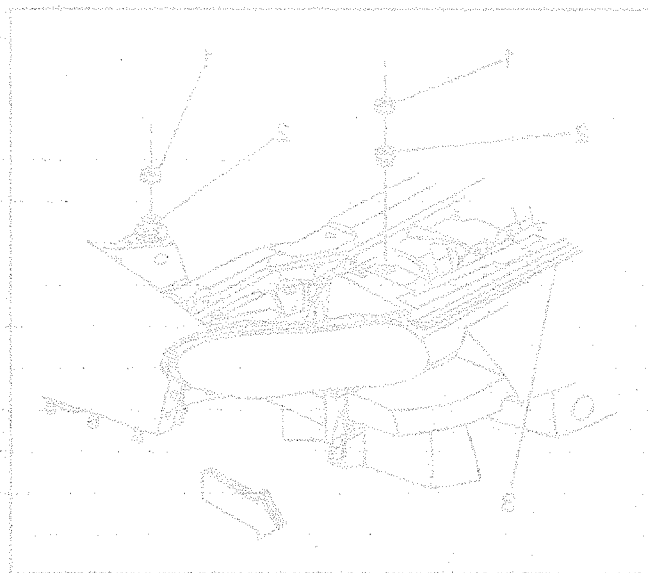
3. Install the following components:
 - 3.1. The nuts (5)

Tighten

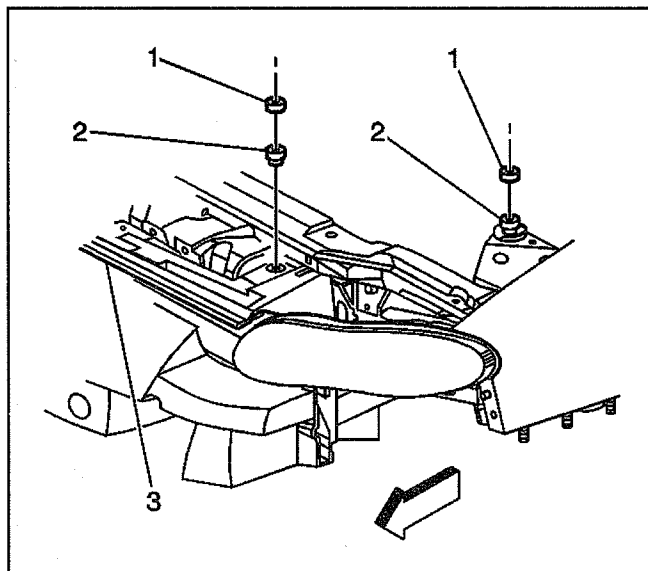
Tighten the hood hinge nuts (5) to 25 N·m (18 lb ft).
 - 3.2. The hood hinge to body bolts/screws (4)

Tighten

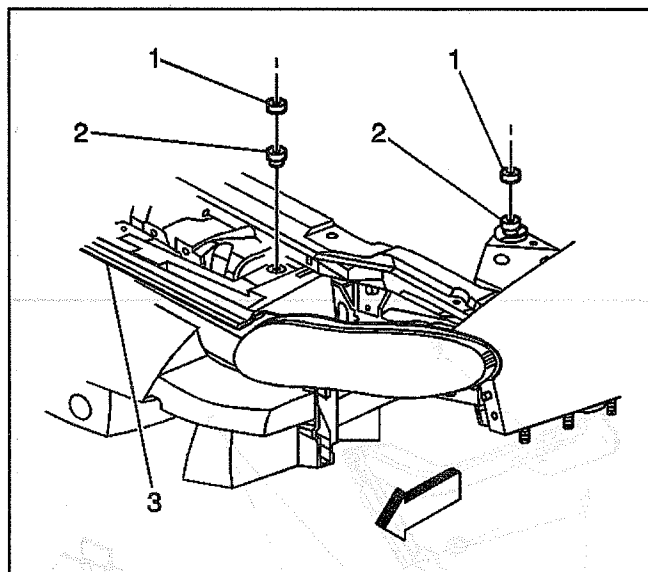
Tighten the hood hinge to body bolts/screws (4) to 10 N·m (89 lb in).



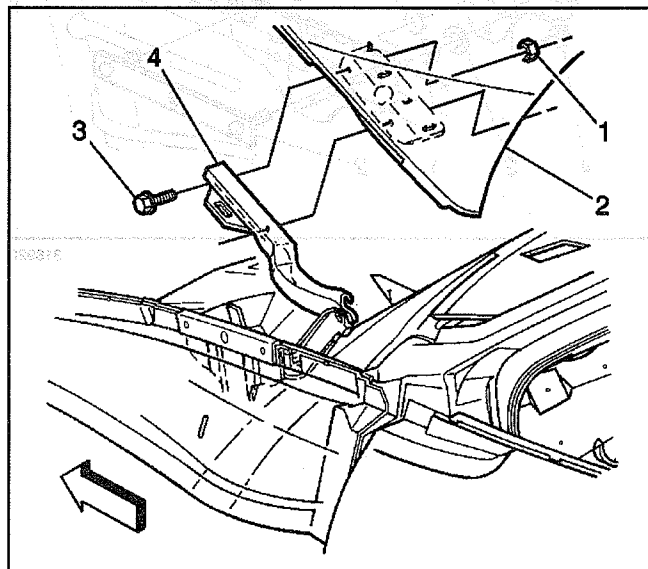
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Hood Bumper Replacement

Removal Procedure

1. Measure the hood adjust front bumper (2) height.
2. Record the measurements.
3. Raise the hood to the full open position.
4. Remove the hood adjust front bumper (2).
5. Rotate the hood adjust front bumper (2) counterclockwise.

Installation Procedure

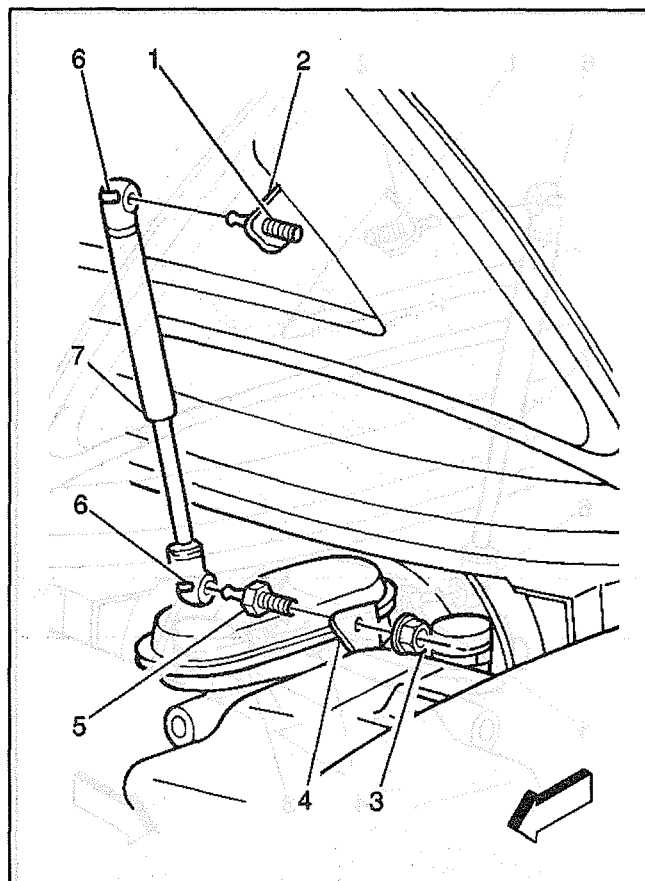
1. Install the hood adjust front bumper (2).
2. Rotate the hood adjust front bumper (2) clockwise until the hood adjust front bumper (2) is at the same height as measured before removal.
3. Inspect the hood alignment. Refer to *Hood Adjustment*.
4. Close the hood.

Hood Replacement

Removal Procedure

1. Open the hood (2).

2. Complete the following steps in order to remove the hood open assist rod (7) from the strut stud (1):
 - 2.1. Pry the clip (6) out with a flat bladed tool.
 - 2.2. Pull the assist rod (7) from the strut stud (1).
 - 2.3. Remove the hood open assist rod (7).
3. Remove the following components from the hood hinges (4):
 - 3.1. The hood hinge bolts/screws (3)
 - 3.2. The hinge bracket nuts (1)
4. Remove the hood (2) from the vehicle with the aid of a helper.



Step 2

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Installation Procedure

1. Install the hood (2) to the vehicle with the aid of a helper.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the following components to the hood hinges (4):

- 2.1. The hinge bracket nuts (1)

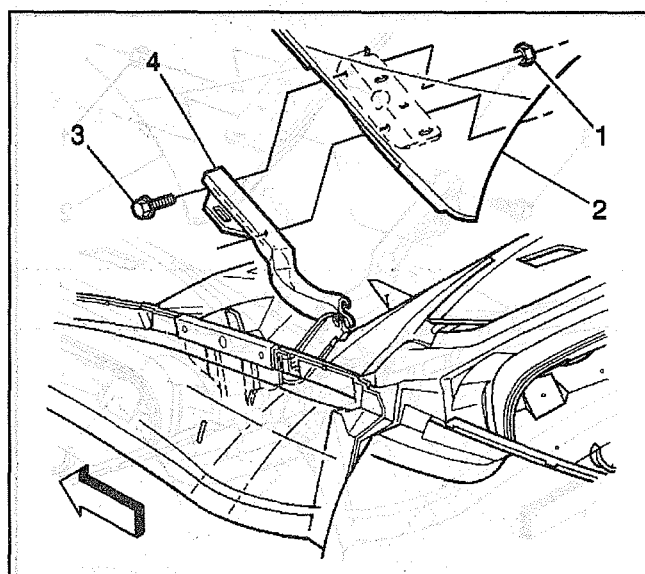
Tighten

Tighten the hood hinge bracket nuts (1) to 27 N·m (20 lb ft).

- 2.2. The hood hinge bolts/screws (3)

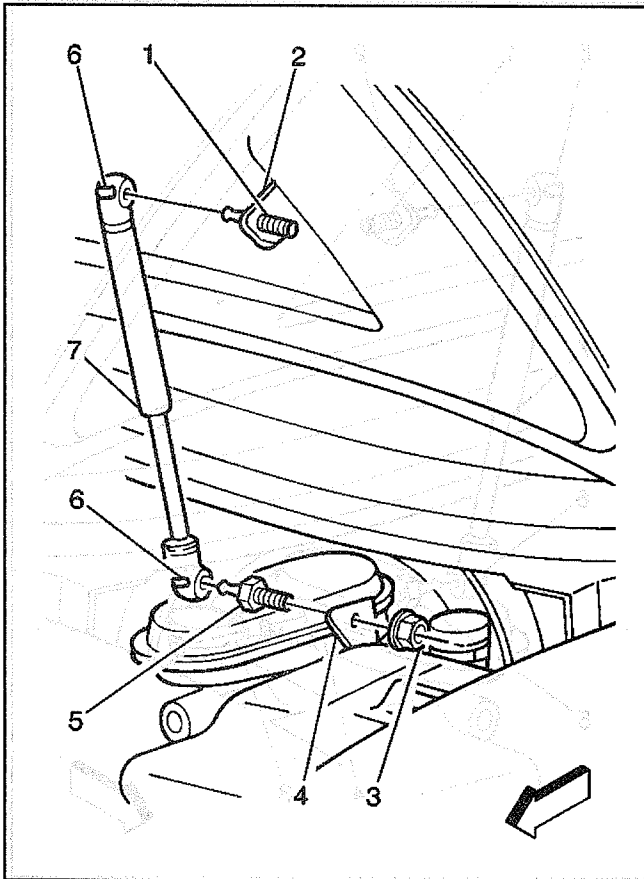
Tighten

Tighten the hood hinge bolts/screws (3) to 27 N·m (20 lb ft).



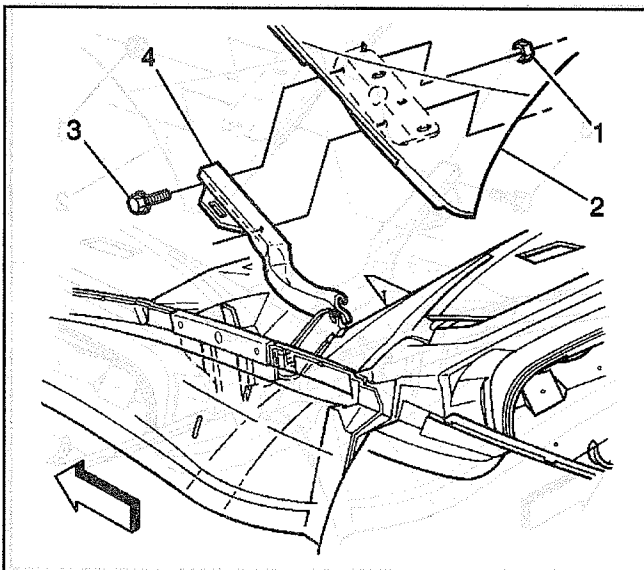
Step 3

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3. Install the hood open assist rod (7) to the strut stud (1).

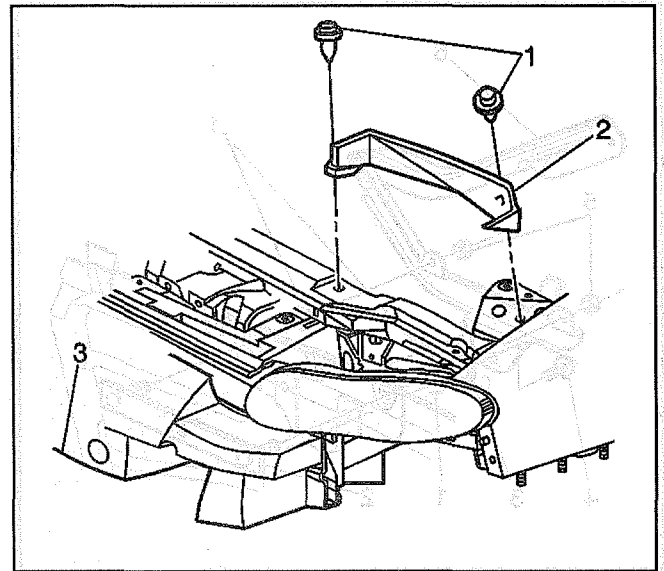


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4. Close the hood (2) slowly.
5. Inspect the clearance between the following components:
 - The hood (2)
 - The front fenders
 - For Pontiac vehicles only, the headlamp opening doors
6. Inspect the alignment of the hood (3). Refer to *Alignment Checking in Frame and Underbody*.
7. Adjust the hood as needed. Refer to *Hood Adjustment*.

Hood Close Out Filler Replacement**Removal Procedure**

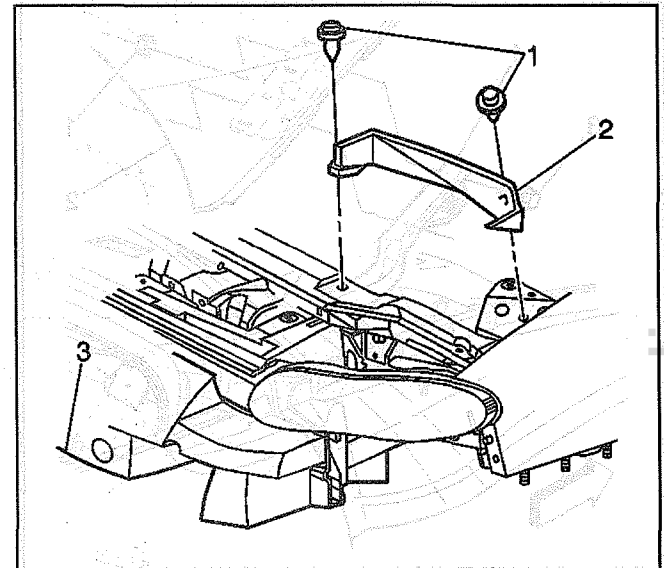
1. Raise the hood to the full open position.
2. Remove the close-out filler retainers (1).
3. Remove the hood close-out filler (2).



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Installation Procedure

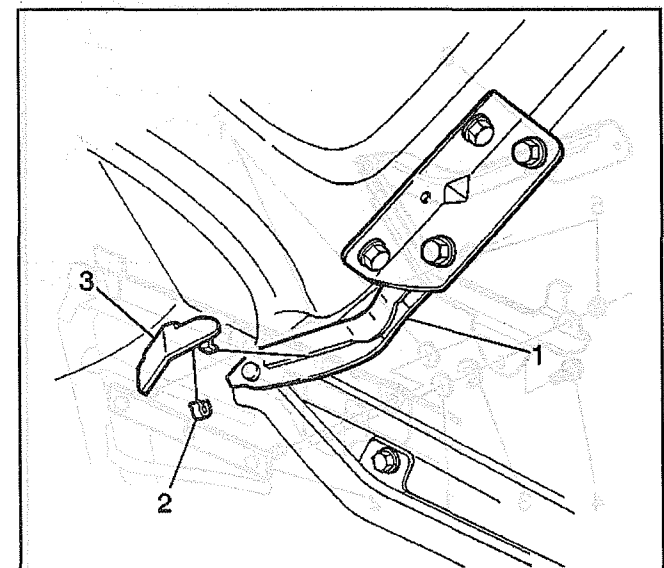
1. Install the hood close-out filler (2).
2. Install the close-out filler retainers (1).
3. Close the hood.



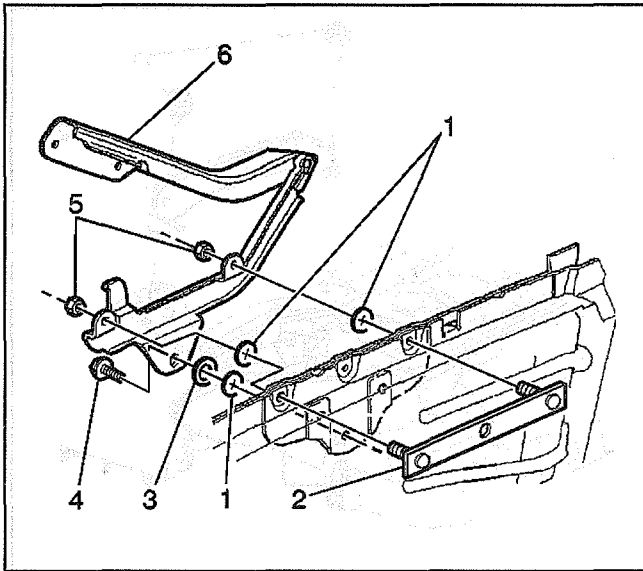
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Hood Hinge Replacement**Removal Procedure**

1. Open the hood (2). Support the hood with the hood support.



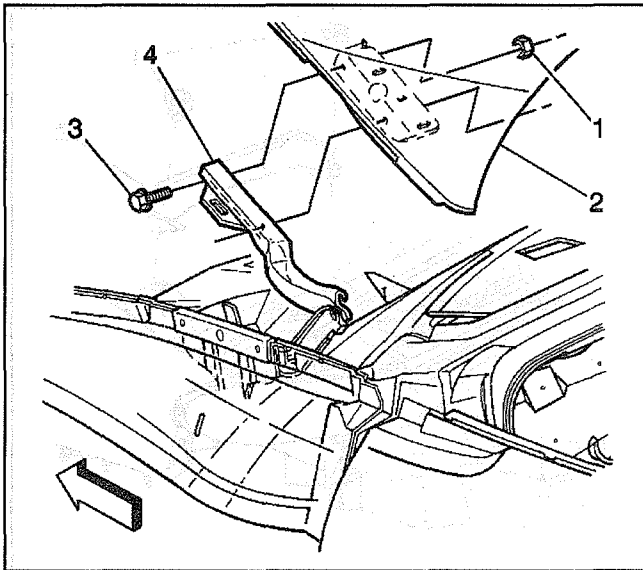
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2. Remove the following components:

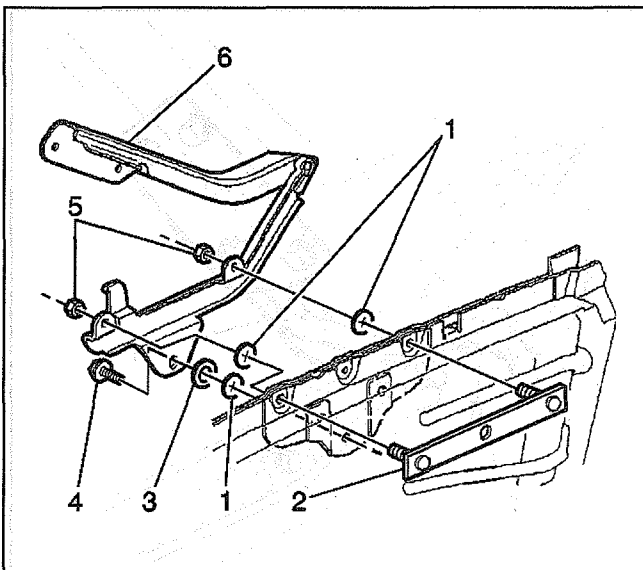
- The hood hinge bolt/screw (4)
- The shim (3)



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3. Remove the following components from the hood:

- The hood hinge screws (3)
- The hinge bracket nuts (1)



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4. Remove the hood hinge nuts (5) from the lower attachment of the hood hinge (6).

5. Remove the hood hinge (6).

6. Complete the following steps in order to remove the hood hinge mount plate (2), as needed:

- 6.1. Remove the wheelhouse panel liner. Refer to *Wheelhouse Panel Replacement*.
- 6.2. Pry off the retainers (1) from the plate studs with a flat-bladed tool.
- 6.3. Remove the hood hinge mount plate (2).

Installation Procedure

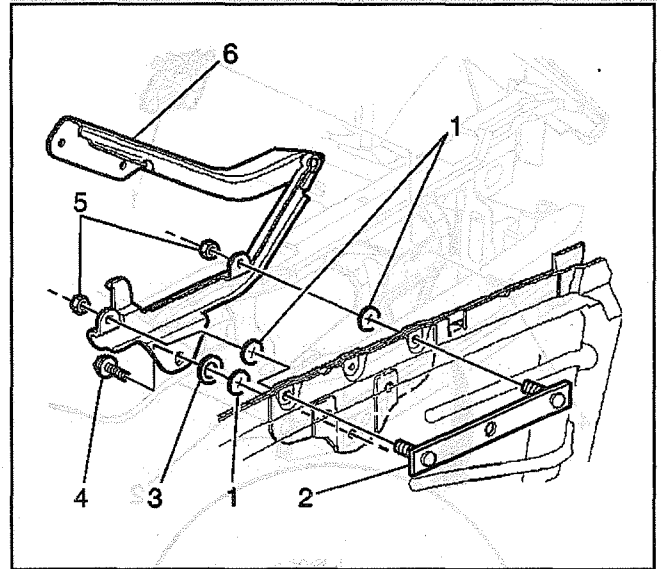
1. Complete the following steps in order to install the hood hinge mount plate (2), as needed:
 - 1.1. Hold the hood plate (2) in position and press the retainers (1) over the plate studs.
 - 1.2. Install the wheelhouse panel liner. Refer to *Wheelhouse Panel Replacement*.
2. Install the hood hinge (6).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the hood hinge nuts (5) to the lower attachment of the hood hinge (6).

Tighten

Tighten the hood hinge nuts (5) to 25 N·m (18 lb ft).



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4. Install the following components to the hood (2):

- The hood hinge screws (3)

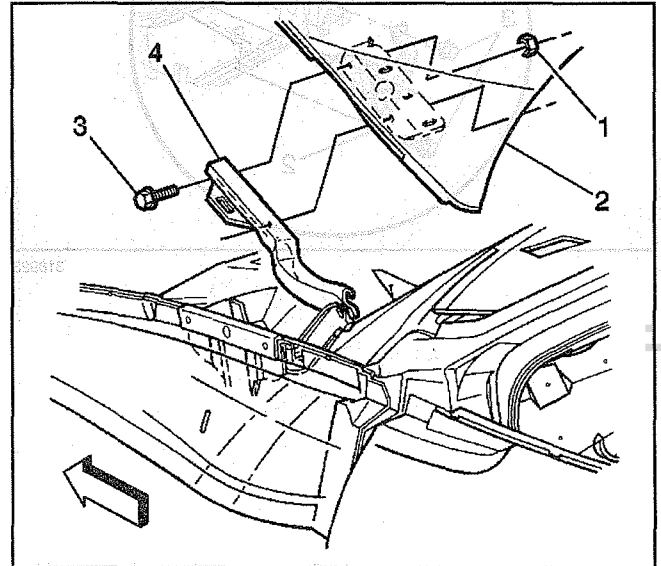
Tighten

Tighten the hood hinge screws (3) to 27 N·m (20 lb ft).

- The hinge bracket nuts (1)

Tighten

Tighten the hinge bracket nuts (1) to 25 N·m (18 lb ft).



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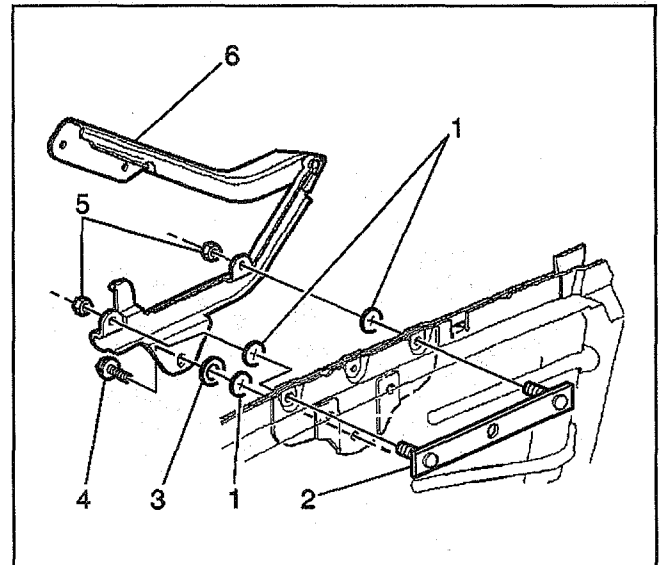
5. Install the following components to the lower attachment of the hood hinge (6):

- The shim (3)
- The hood hinge bolt/screw (4)

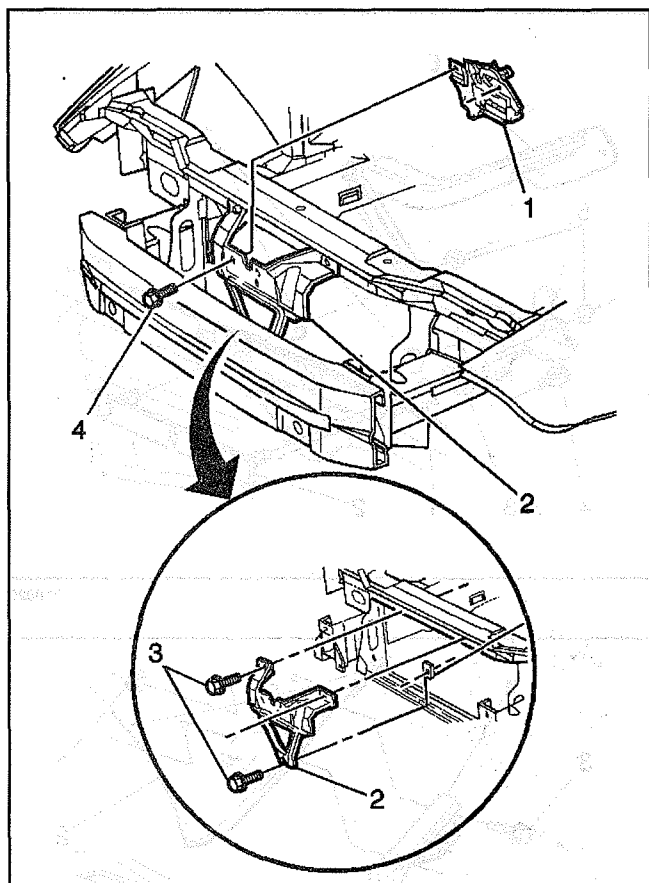
Tighten

Tighten the hood hinge bolt/screw (4) to 10 N·m (89 lb in).

- Remove the hood support from the hood (2).
- Inspect the hood (2) for alignment. Refer to *Hood Adjustment*.



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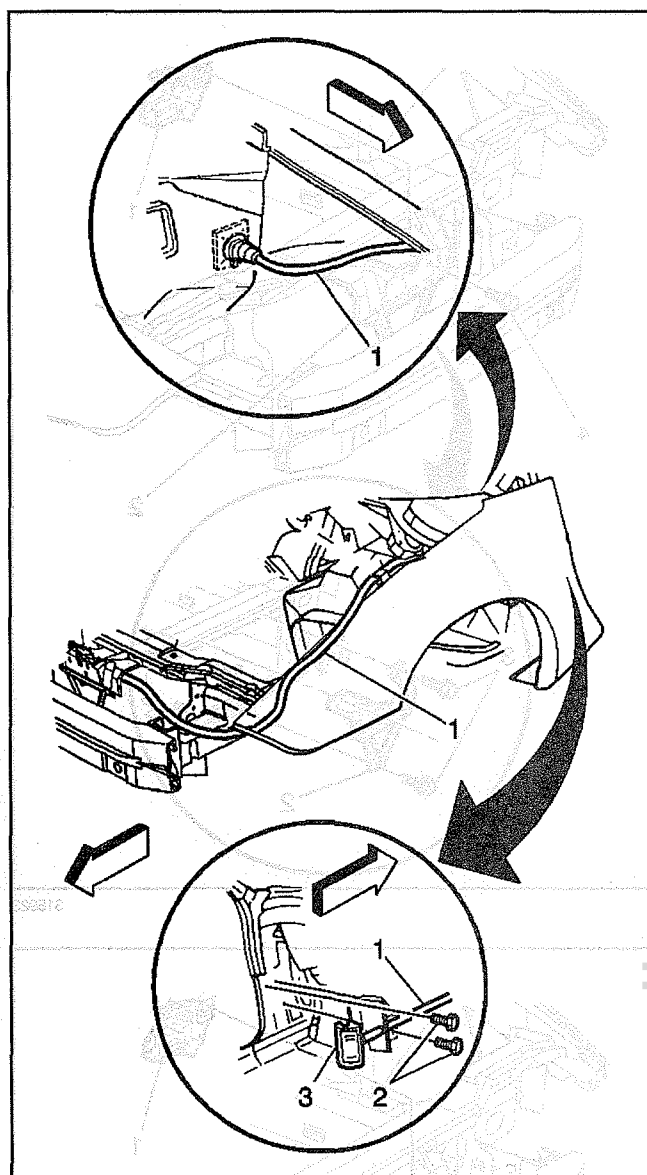
Hood Latch Replacement - Primary

Removal Procedure

1. Mark the position of the hood primary latch bolts/screws (4) on the latch support (2).
2. Remove the hood primary latch bolts/screw (4).

3. Remove the hood latch release cable (1) from the hood primary latch.
4. Insert a screwdriver into the latch clip and lift the hood latch release cable (1) from the hood primary latch.

- 5.2. Remove the headlamp housing panel and bracket. Refer to Headlamp Housing Panel Bracket Replacement (Front) and Headlamp Bracket Replacement (Chevrolet).
- 5.3. Remove the windshield washer solvent reservoir. Refer to Windshield Washer Solvent Reservoir Replacement in Wipers Washer System.
- 5.4. Remove the primary latch support bolts/screws (4) and the latch support (5).



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- Installation Procedure**
1. Complete the following steps in order to install the primary latch support (5), as needed.

- 1.1. Position the primary latch support (5) with the marks made during removal.

Notice: Refer to Fastener Notice in Cautions and Notices.

- 1.2. Install the following components:

- 1.2.1. The primary latch support (5).

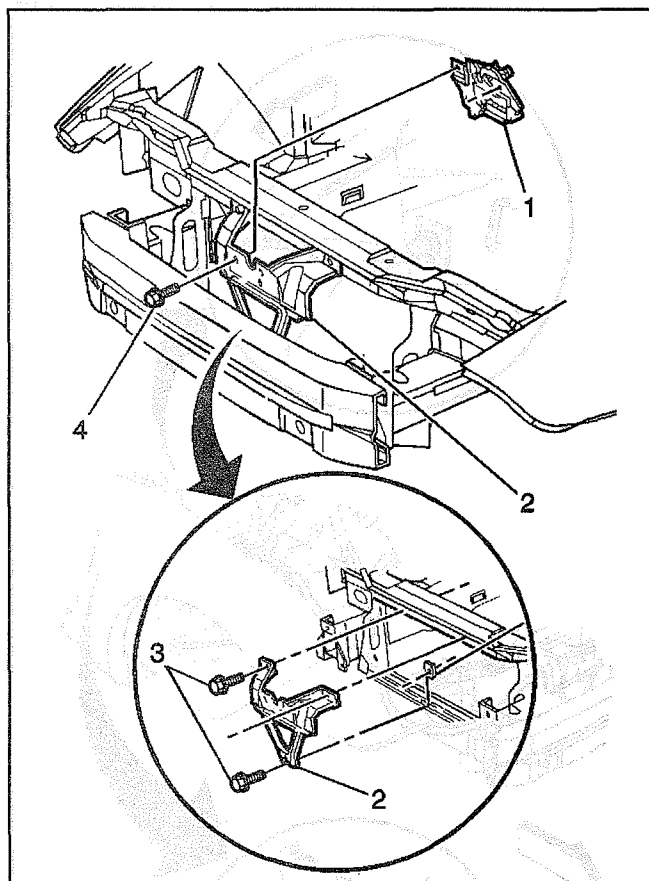
- 1.2.2. The primary latch support bolts/screws (4).

Tighten

- Tighten the bolts/screws (4) to 18 N·m (13 lb ft).

- 1.3. Install the windshield washer solvent reservoir. Refer to Windshield Washer Solvent Reservoir Replacement in Wipers Washer System.

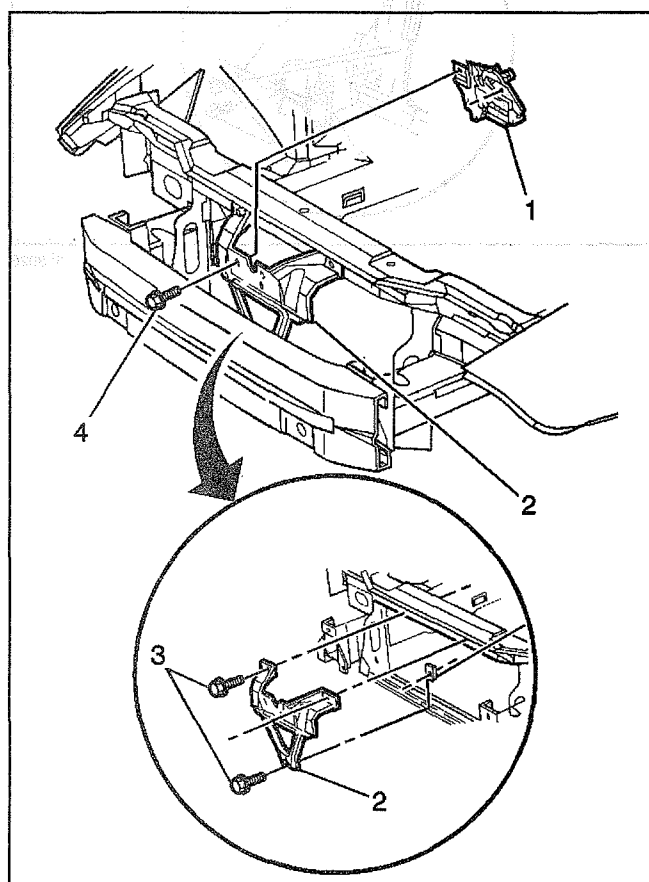
- 1.4. Install the headlamp housing panel and bracket. Refer to Headlamp Housing Panel Bracket Replacement (Front) and Headlamp Bracket Replacement (Chevrolet).



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5. Complete the following steps in order to remove the primary latch support (2), as needed:

- 5.1. Mark the location of the hood primary latch (1) on the upper radiator support.
- 5.2. Remove the headlamp housing panel and bracket. Refer to *Headlamp Housing Panel Replacement (Pontiac)* and *Headlamp Bracket Replacement (Chevrolet)*.
- 5.3. Remove the windshield washer solvent reservoir. Refer to *Windshield Washer Solvent Reservoir Replacement* in *Wipers Washer System*.
- 5.4. Remove the primary latch support bolts/screws (4), and the latch support (2).



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Installation Procedure

1. Complete the following steps in order to install the primary latch support (2), as needed:

- 1.1. Position the primary latch support (2) with the marks made during removal.

Notice: Refer to *Fastener Notice* in *Cautions and Notices*.

1.2. Install the following components:

- 1.2.1. The primary latch support (2)
- 1.2.2. The primary latch support bolts/screws (4)

Tighten

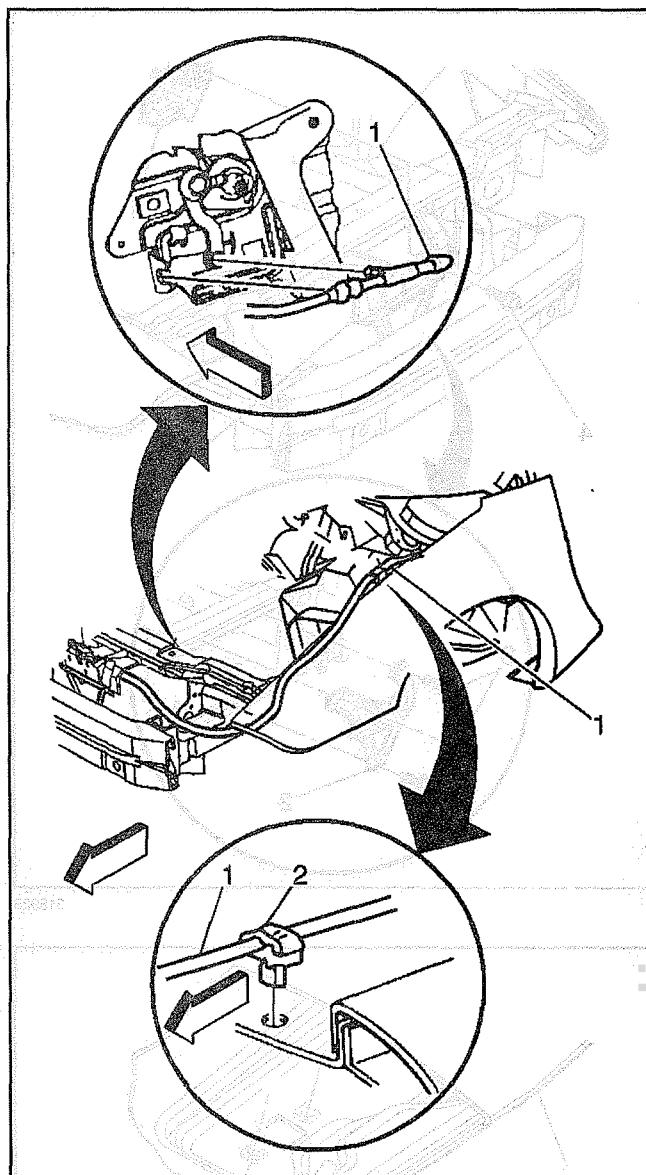
Tighten the bolts/screws (4) to 18 N·m (13 lb ft).

- 1.3. Install the windshield washer solvent reservoir. Refer to *Windshield Washer Solvent Reservoir Replacement* in *Wipers Washer System*.
- 1.4. Install the headlamp housing panel and bracket. Refer to *Headlamp Housing Panel Replacement (Pontiac)* and *Headlamp Bracket Replacement (Chevrolet)*.

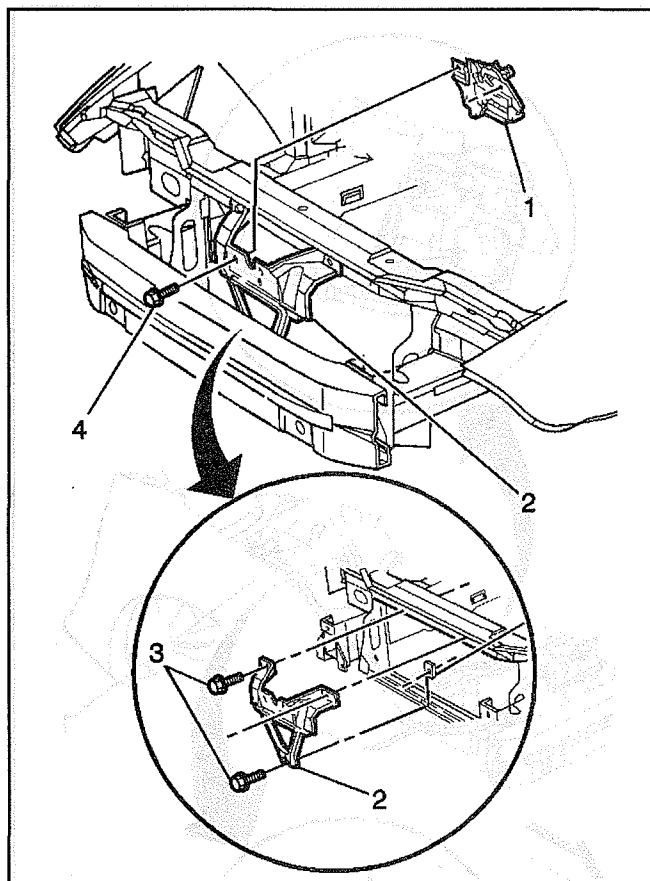
2. Install the hood latch release cable (1) to the hood primary latch with the following procedure:

2.1. Insert the end of the hood latch release cable (1) to the hood primary latch in order to connect the hood latch release cable (1).

2.2. Connect the latch clip (2) to the hood primary latch.



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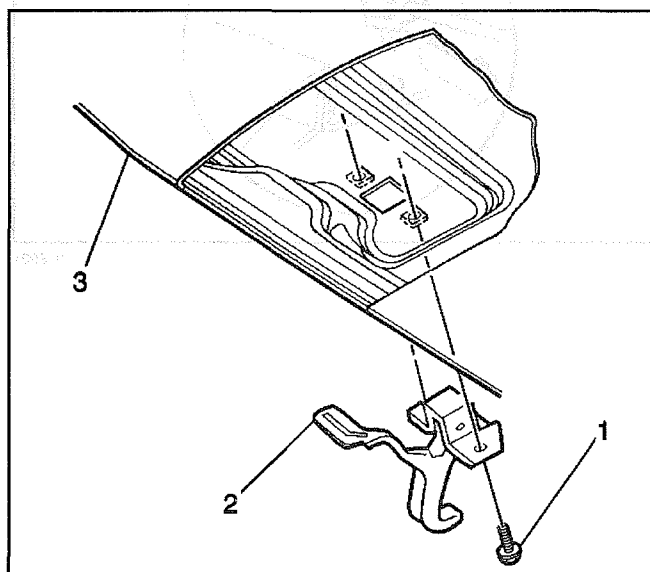
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3. Install the hood primary latch (1) to the primary latch support (2).
4. Position the hood primary latch (1) in order to line up the bolts/screws with the marks on the primary match support (2).
5. Install the hood primary latch bolts/screws (4).

Tighten

Tighten the bolts/screws (4) to 18 N·m (13 lb ft).

6. Inspect the hood alignment.
7. Adjust the hood as needed. Refer to *Hood Adjustment*.
8. Complete the following steps in order to adjust the hood primary latch (1), as needed:
 - 8.1. Loosen the hood primary latch bolts/screws (4).
 - 8.2. Adjust the hood primary latch (1) up or down to the specifications noted during inspection.



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Hood Latch Replacement - Secondary**Removal Procedure**

1. Open the hood (3).
2. Remove the hood secondary latch bolts/screws (1).
3. Remove the hood secondary latch (2) from the hood (3).

Installation Procedure

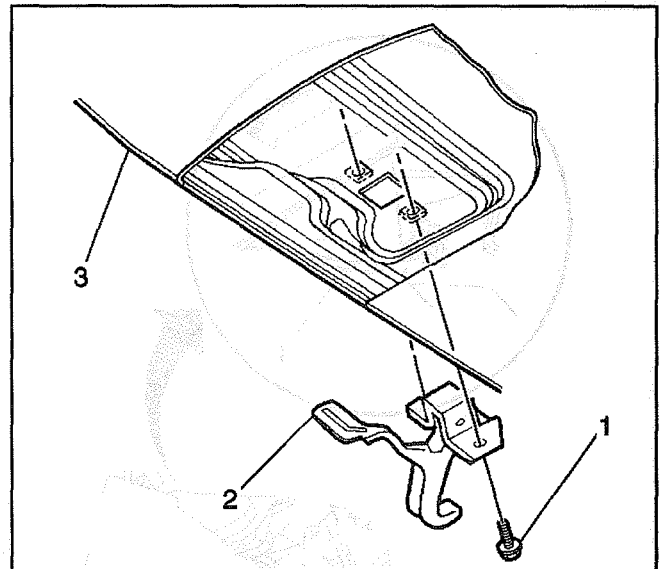
1. Install the hood secondary latch (2) to the hood (3).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the hood secondary latch bolts/screws (1).
3. Close the hood.

Tighten

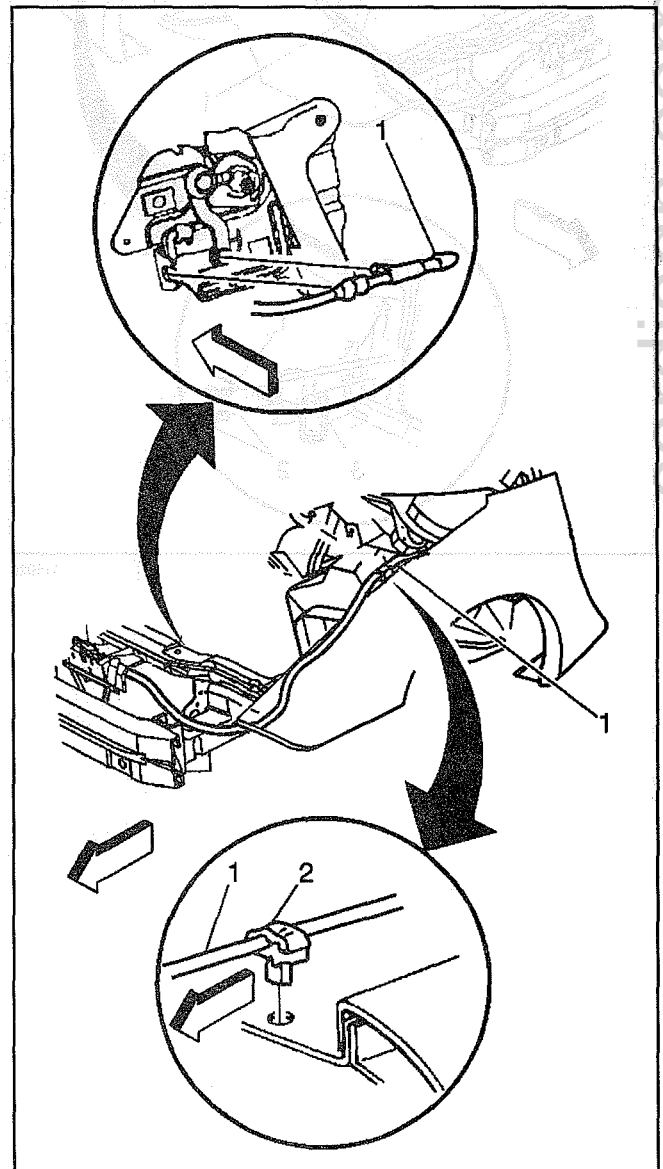
Tighten the hood secondary latch bolts/screws (1) to 12 N·m (106 lb in).



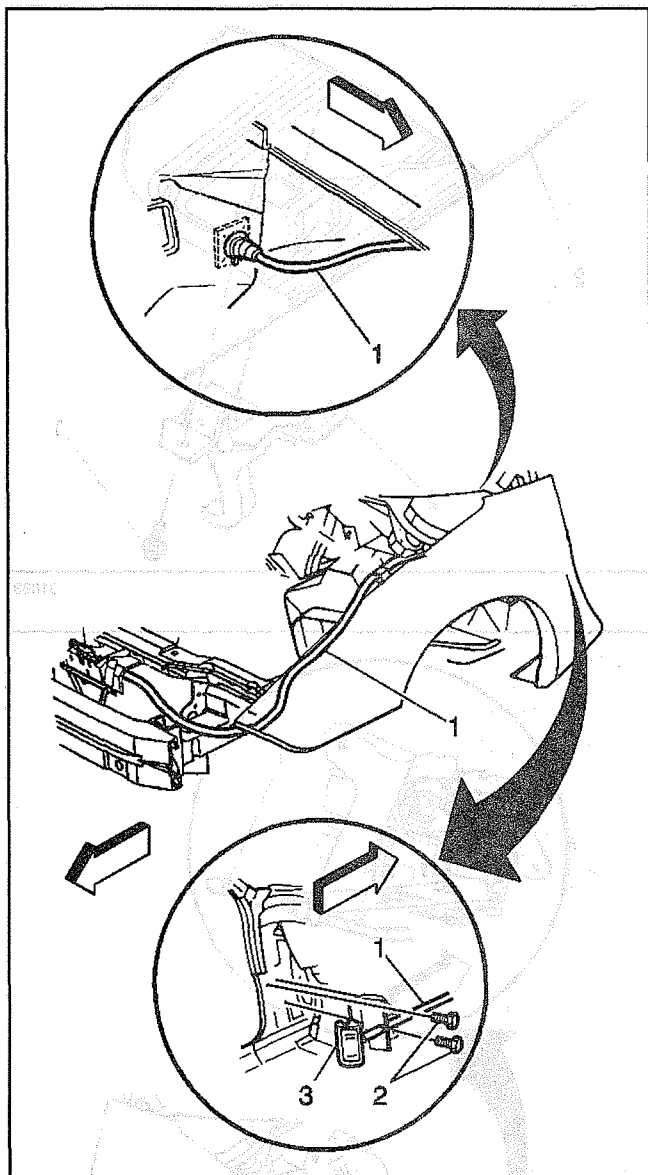
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Hood Latch Release Cable Replacement**Removal Procedure**

1. Complete the following steps in order to remove the hood primary latch release cable (1) from the primary latch and the radiator support:
 - 1.1. Insert a screwdriver in to the latch clip (2) from the primary latch in order to disconnect the cable (1).
 - 1.2. Pry the cable grommet from the primary latch.
 - 1.3. Pull the primary latch release cable (1) out through the hole in the radiator support.
2. Remove the driver side body hinge pillar trim panel. Refer to *Trim Replacement - Hinge Pillar* in Interior Trim.



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3. Remove the hood primary latch release cable bolts/screws (2).
4. Remove the hood primary latch release cable handle (3).
5. Use a screwdriver in order to pry the cowl grommet. Remove the cowl grommet.
6. Record the hood primary latch release cable route.

Important: Do not damage the hood cable patch sealing pad surrounding the through hole. Be careful when removing the hood primary release cable from the front dash through the hole. A possible water intrusion may develop if care is not used.

7. Remove the hood primary latch release cable (1).

Hood Latch Release Cable Replacement

Removal Procedure

1. Complete the following steps in order to remove the hood primary latch release cable (1) from the primary latch and the radiator support.
 - 1.1. Use a screwdriver in order to pry the cable (1) from the primary latch in order to disconnect the cable (1).
 - 1.2. Pry the cable grommet from the primary latch.
 - 1.3. Pull the primary latch release cable (1) out through the hole in the radiator support.
2. Remove the driver side body hinge pillar trim panel. Refer to Trim Replacement - Hinge Pillar in Interior Trim.

Installation Procedure

1. Route the hood primary latch release cable (1) properly.
2. Install the hood primary latch release cable (1) through the cowl.
3. Install the cowl grommet.

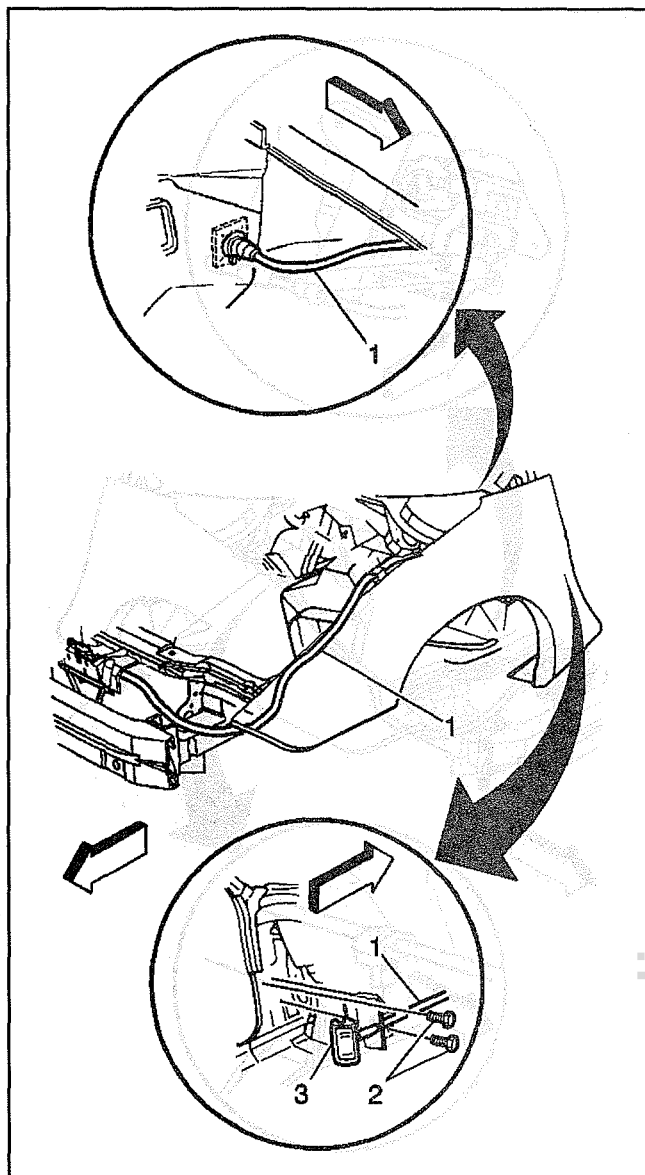
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the following components:
 - 4.1. The hood primary latch release cable handle (3)
 - 4.2. The hood primary latch release cable bolts/screws (2)

Tighten

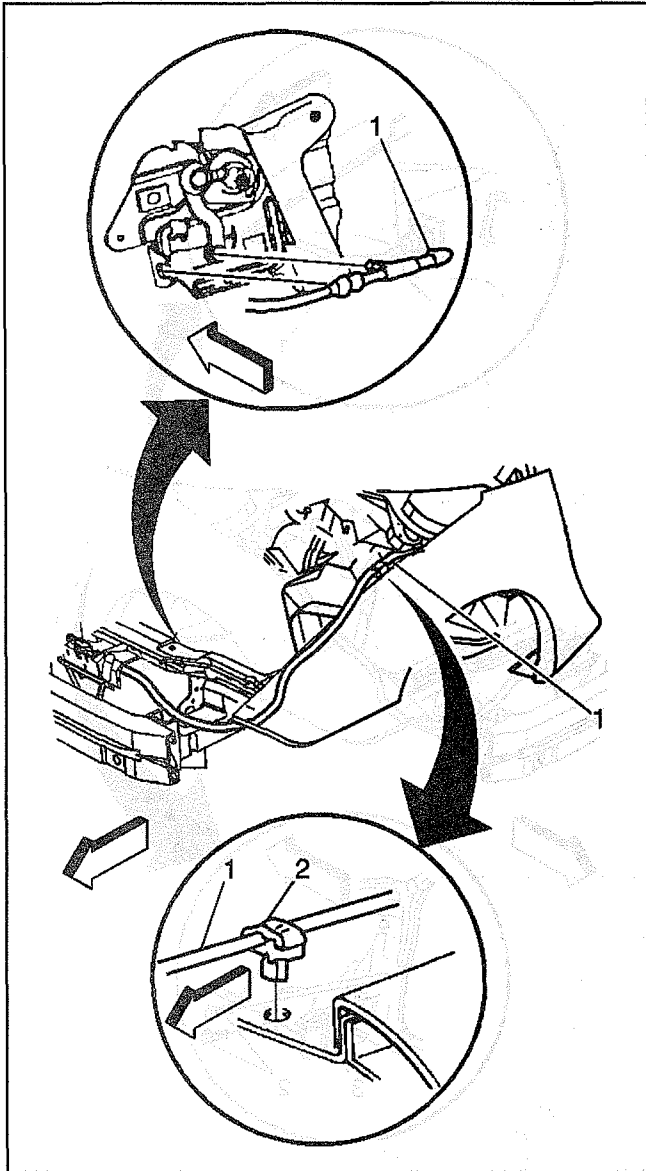
Tighten the bolts/screws (2) to 7 N·m (62 lb in).

5. Install the driver side body hinge pillar trim panel. Refer to *Trim Replacement - Hinge Pillar* in Interior Trim.



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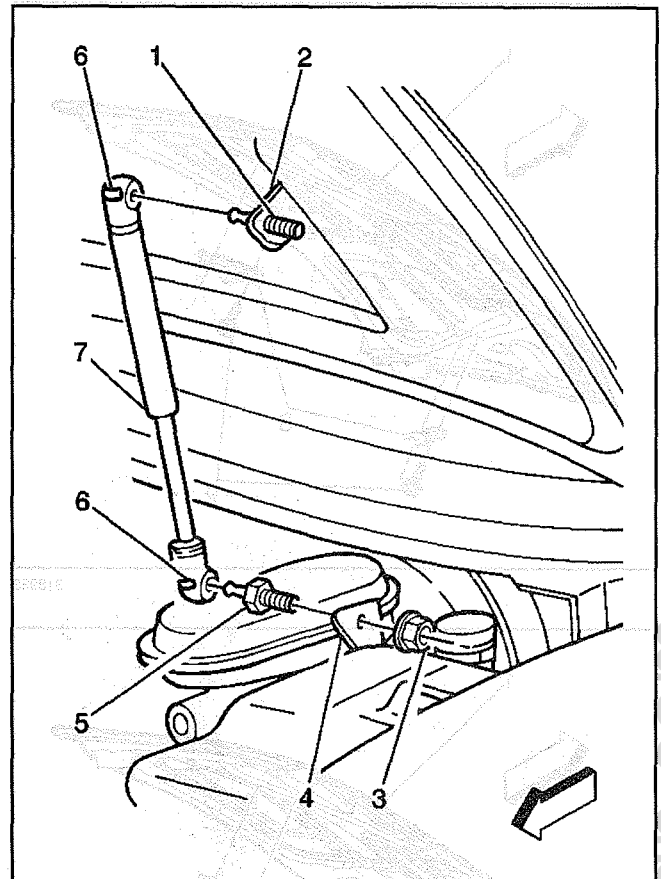
6. Install the hood primary latch release cable (1) to the primary latch with the following procedure:

- 6.1. Connect the hood primary latch release cable (1) to the cable clip (2).
- 6.2. Route the hood primary latch release cable (1) through the hole in the radiator support.
- 6.3. Insert the end of the hood primary latch release cable (1) into the latch clip and attach the cable grommet.

Assist Rod Replacement - Hood**Removal Procedure**

Important: If you replace both rods, replace one rod at a time.

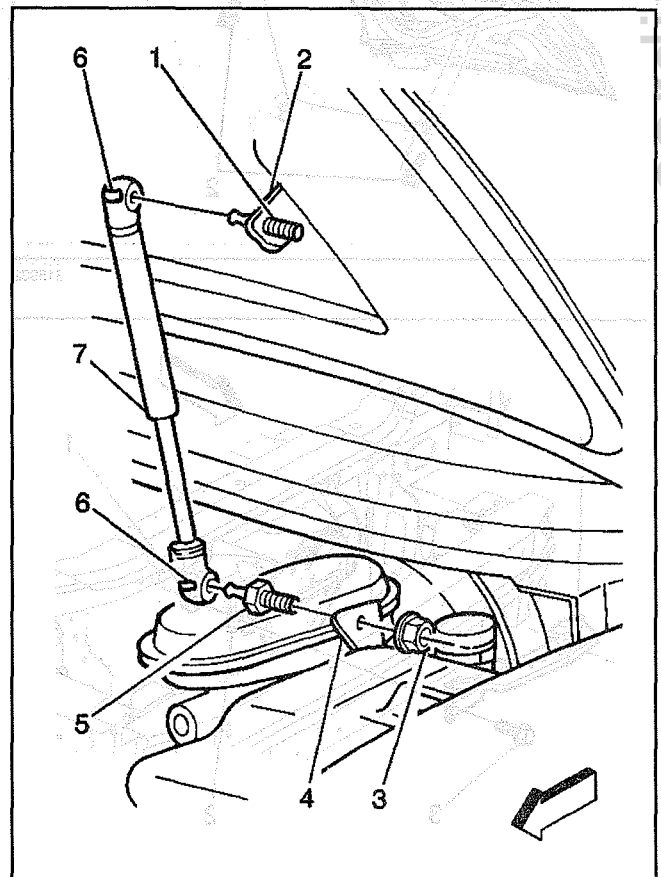
1. Open the hood and safely support.
2. Complete the following steps in order to remove the hood open assist rod (7) from the hood strut stud (1):
 - 2.1. Use a flat bladed tool in order to pry out the clip (6).
 - 2.2. Pull the assist rod (7) from the hood strut stud (1).
3. Complete the following steps in order to remove the hood open assist rod (7) from the hood strut ball stud:
 - 3.1. Pry the clip (6) out with a flat bladed tool.
 - 3.2. Pull the assist rod (7) from the hood strut ball stud (5).



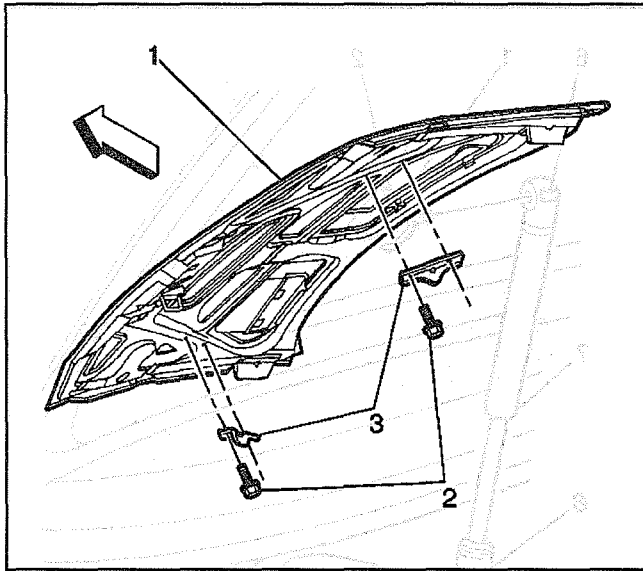
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Installation Procedure

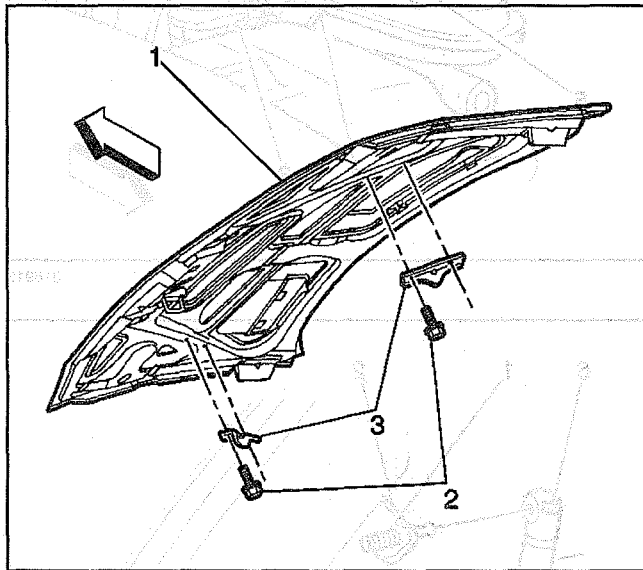
1. Snap the hood open assist rod (7) into the hood strut ball stud (5).
2. Snap the hood open assist rod (7) onto the hood strut stud (1).
3. Remove the hood support.



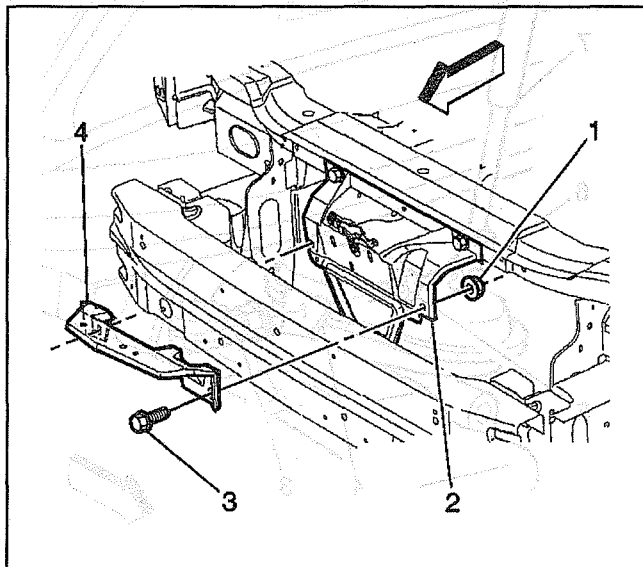
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Assist Rod Ball Stud Replacement - Hood

Removal Procedure

1. Open the hood (1). Safely support the hood.
2. Complete the following steps in order to remove the hood open assist rod from the hood strut stud:
 - 2.1. Pry the clip out with a flat bladed tool.
 - 2.2. Pull the assist rod from the hood strut stud.
3. Remove the hood open assist rod bracket bolts/screws (2).
4. Remove the hood open assist rod bracket (3).

Installation Procedure

1. Install the hood open assist rod bracket (3).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the hood open assist rod bracket bolts/screws (2).

Tighten

Tighten the hood open assist rod bracket bolts/screws (2) to 23 N·m (17 lb ft).

3. Remove the hood support.

Headlamp Housing Panel Replacement (Pontiac)

Removal Procedure

1. Remove the front bumper fascia. Refer to *Fascia Replacement - Front Bumper (Pontiac)* in Bumpers.
2. Remove the front bumper support bolts and support from the headlamp housing panel and headlamp modules (Pontiac only).
3. Remove the headlamp housing panel bolts (3), nuts (1), and housing panel (4) from radiator support (2).

Installation Procedure

1. Install the headlamp housing panel (4), bolts (3), and nuts (1), to the radiator support (2).

Tighten

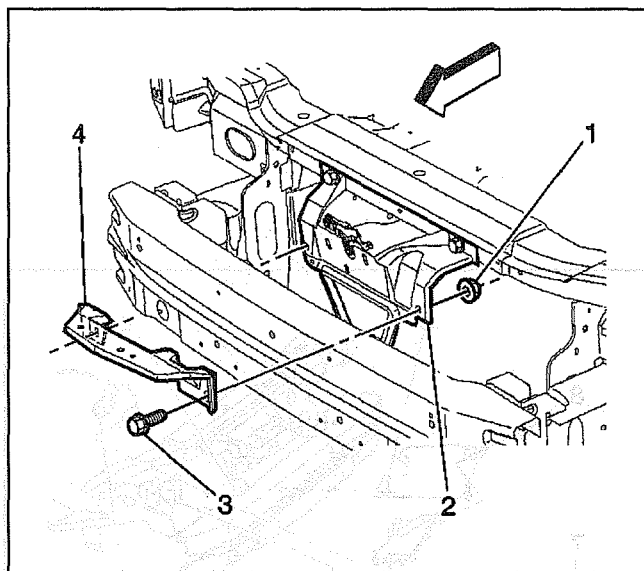
Tighten the bolts (3) and nuts (1) to 8 N·m (71 lb ft).

2. Install the front bumper support bolts and support to the headlamp housing panel and the headlamp modules (Pontiac only).

Tighten

Tighten the bolts to 1.7 N·m (15 lb in).

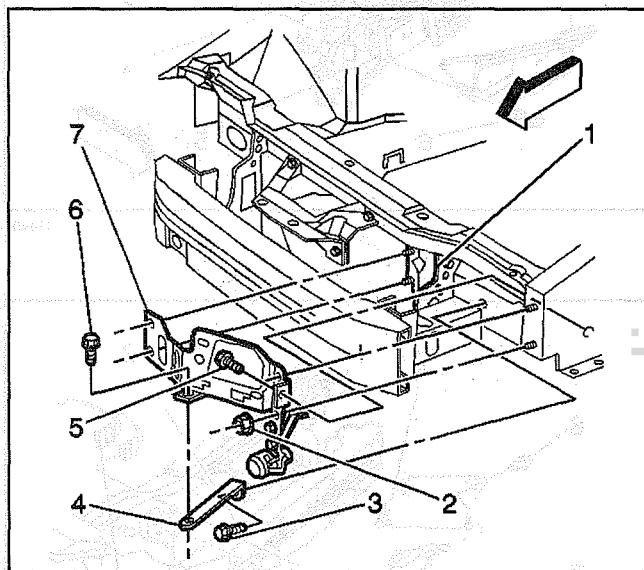
3. Install the front bumper fascia. Refer to *Fascia Replacement - Front Bumper (Pontiac)* in Bumpers.



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Headlamp Bracket Replacement (Chevrolet)**Removal Procedure**

1. Open hood, install fender covers.
2. Disconnect battery.
3. Disconnect electrical connections to headlamps.
4. Remove the headlamp bracket bolts (3, 5, & 6), bracket nut (2), and the headlamp bracket brace (4) from the headlamp bracket (7).
5. Remove the headlamp bracket (7) from mounting bracket studs (1).



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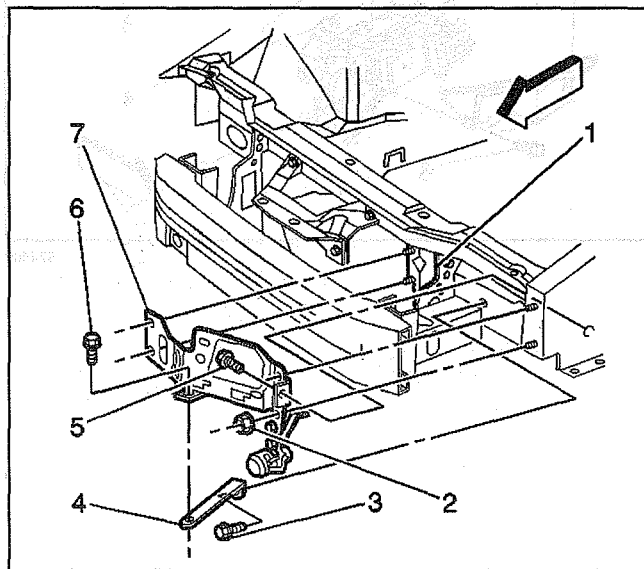
Installation Procedure

1. Install the headlamp bracket (7) to the vehicle radiator support (1).
2. Install the headlamp bracket bolts (3, 5, & 6), bracket nut (2), and the headlamp bracket brace (4) to the headlamp bracket (7).

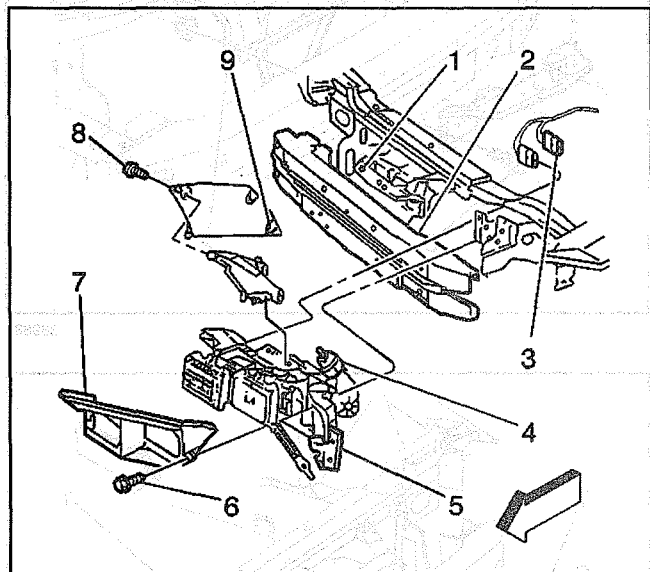
Tighten

Tighten the bolts (3, 5, & 6) and nut (2) to 10 N·m (89 lb in).

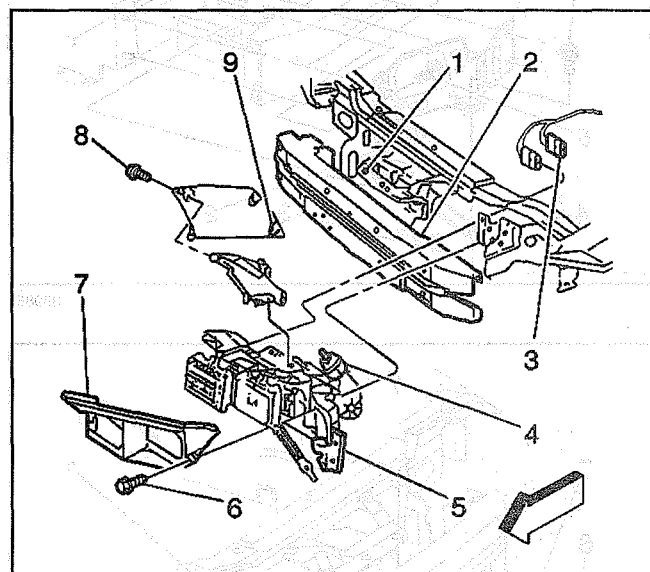
3. Connect electrical connection to headlamps.
4. Connect battery.
5. Remove fender covers and close hood.
6. Install the headlamp assembly. Refer to *Headlamp Replacement (Chevrolet)* Headlamp Replacement or *Headlamp Replacement (Pontiac)* Headlamp Replacement Pontiac in Lighting Systems.



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7. Install the front bumper support and support bolts.

Tighten

Tighten the bolts to 9 N·m (80 lb in).

8. Install the front fascia bumper. Refer to *Fascia Replacement - Front Bumper (Chevrolet)* Fascia Replacement - Front Bumper in Bumpers.
9. Verify headlamp alignment and projection.

Headlamp Bracket Replacement (Pontiac)

Remove Procedure

1. Open hood. Install fender covers.
2. Remove screws (9) from rear of headlamp door.
3. Remove manual crank cover (4) and manually raise headlamp doors.
4. Remove screws (6) from headlamp bezel (7) and remove bezel.
5. Remove headlamp door front screws (8) and remove door.
6. Remove bolts/nuts (6) from attaching headlamp bracket.
7. Remove bolts/nuts (1) from center impact bar support.
8. Reposition center impact bar (2) and partially remove headlamp assembly.
9. Disconnect electrical connection (3) from headlamp assembly and remove headlamp assembly.

Installation Procedure

1. Connect electrical connection (3) to headlamp assembly.
2. Reposition center impact bar (2) and install headlamp assembly.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install bolts/nuts to center impact bar support. (2)

Tighten

Tighten the headlamp bracket bolts to 10 N·m (89 lb in).

4. Install bolts/nuts to attaching headlamp bracket. (5)

Tighten

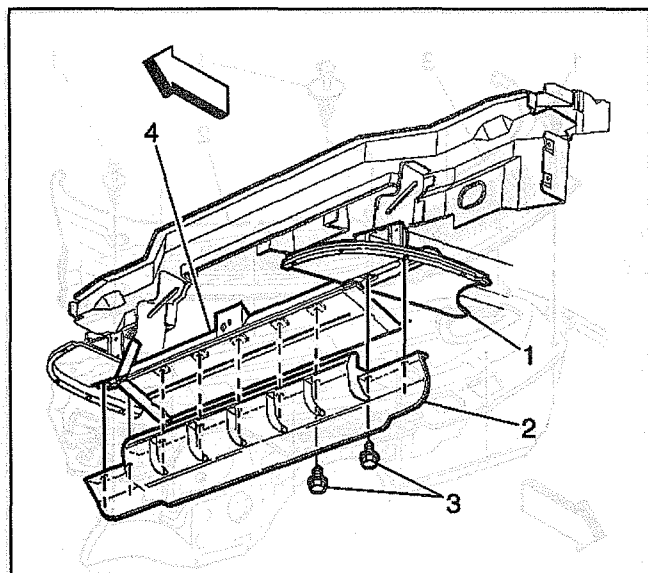
Tighten the nuts/bolts from the bracket brace to 7 N·m (62 lb. in).

5. Install headlamp door and install headlamp door front screws. (8)
6. Install headlamp bezel (7) and install bezel screws. (6)
7. Manually lower crank cover. (4)
8. Install screws to rear of headlight door. (9)
9. Verify headlamp alignment and projection.
10. Verify headlamp door operation.
11. Remove fender covers and close hood.

Air Deflector Replacement - Radiator

Removal Procedure

1. Remove the following components from the attached deflector (2):
 - 1.1. The radiator air lower deflector bolts/screws (3)
 - 1.2. The bumper fascia lower deflectors (1)
2. Remove the radiator air lower deflector (2)



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Installation Procedure

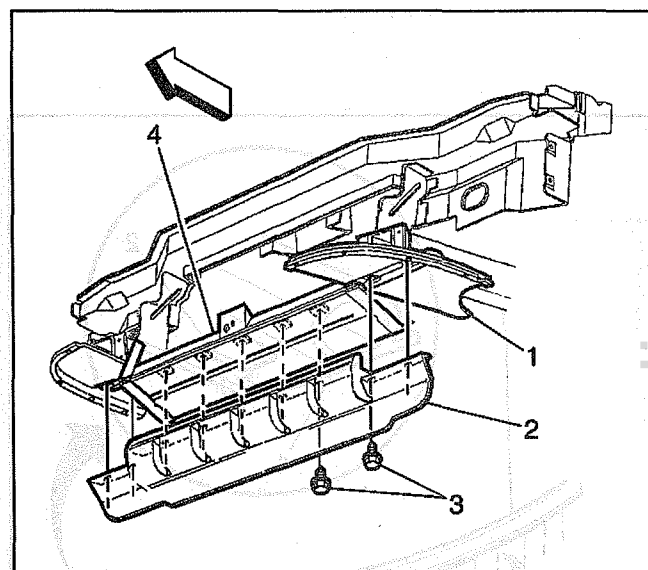
1. Install the radiator air lower deflector (2).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the radiator air lower deflector bolts/screws (3).

Tighten

Tighten the radiator air lower deflector bolts/screws (3) to 10 N·m (89 lb in).

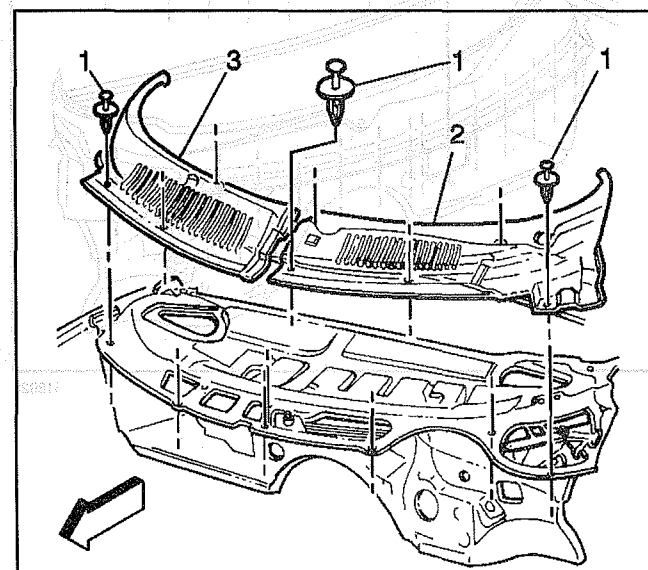


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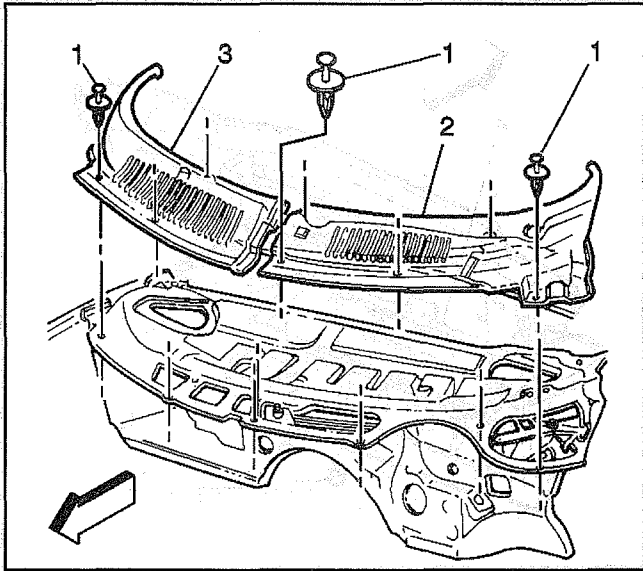
Air Inlet Grille Panel Replacement

Removal Procedure

1. Remove the hood rear seal. Refer to *Seal Replacement - Hood Rear*.
2. Remove the air inlet screen retainers (1) from the driver side screen (2).
3. Remove the windshield wiper arms. Refer to *Windshield Wiper Arm Replacement* in *Wipers/Washer System*.
4. Remove the driver side screen (2).
5. Remove the windshield washer nozzle hose clips from the driver side screen (2).
6. Remove the air inlet screen retainers (1) from the passenger side screen (3).
7. Remove the passenger side screen (3).
8. Remove the windshield washer nozzle hose clips from the passenger side screen (3).



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Installation Procedure

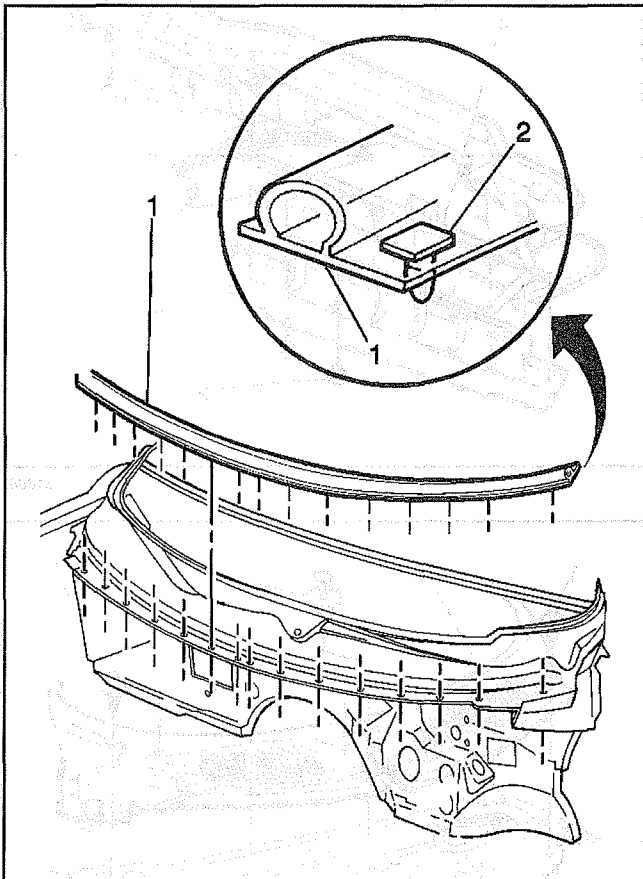
Important: Install the air inlet screens prior to water testing in order to prevent damage to the windshield washer motor.

1. Route the windshield washer nozzle hose clips to the passenger side screen (3).
2. Install the passenger side screen (3).
3. Install the air inlet screen retainers (1) to the passenger side screen (3).
4. Install the windshield washer nozzle hose clips to the driver side screen (2).
5. Install the driver side screen (2).
6. Install the air inlet screen retainers (1) to the driver side screen (2).
7. Install the windshield wiper arms. Refer to Windshield Wiper Arm Replacement in Wipers/Washer System.
8. Inspect for the proper operation of the Wipers/Washer System.
9. Install the rear hood seal. Refer to *Seal Replacement - Hood Rear*.

Seal Replacement - Hood Rear

Removal Procedure

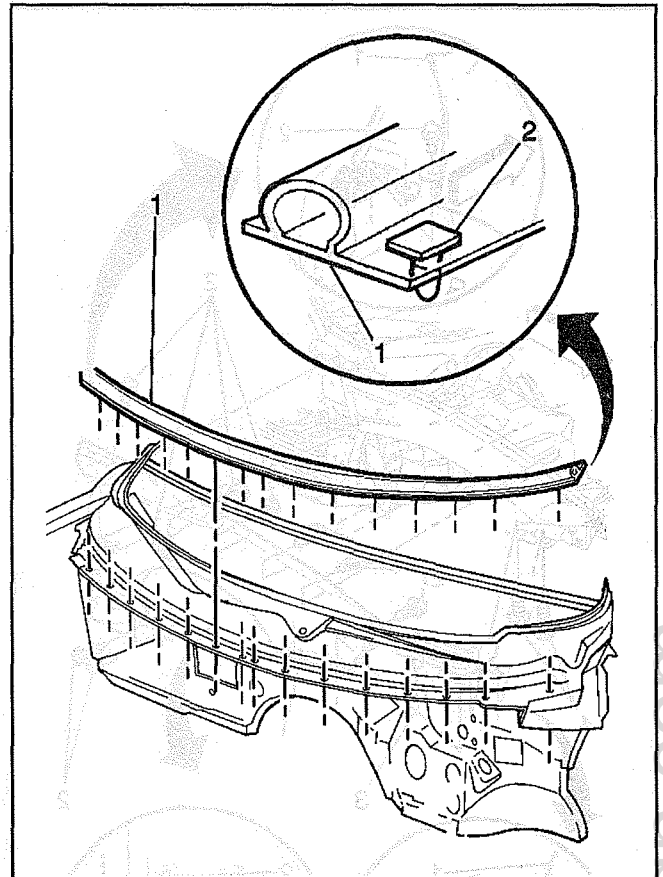
1. Open the hood.
2. Remove the hood rear seal fasteners (2).
3. Remove the hood rear seal (1).



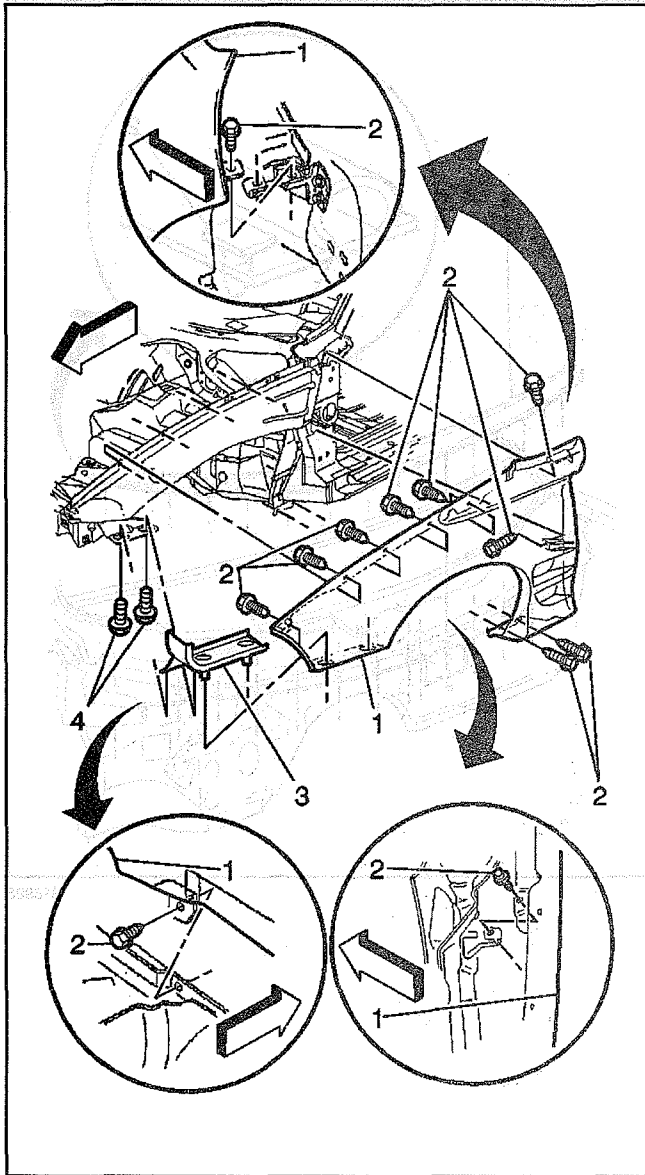
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Installation Procedure

1. Install the hood rear seal (1).
 2. Install the hood rear fasteners (2).
 3. Close the hood.
4. Remove the front fender (1).
5. Remove the following components as needed:
- 5a. The fascia outer bracket bolts/screws (1)
- 5b. The fascia outer bracket (2)
6. Remove the following components as needed:
- 6a. The fender rear upper bracket bolts/screws (3)
- 6b. The fender rear upper bracket (2)
7. Remove the following components as needed:
- 7a. The fender rear center bracket bolts/screws (6)
- 7b. The fender rear center bracket (4)



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Panel Replacement - Front Side (Pontiac)

Removal Procedure

1. Remove the fender bolts/screws (2).
2. Raise and support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
3. Remove the wheelhouse panel liner. Refer to *Wheelhouse Panel Replacement*.
4. Remove the front fender (1).
5. Remove the following components as needed:
 - 5.1. The fascia outer bracket bolts/screws (1)
 - 5.2. The fascia outer bracket (2)
6. Remove the following components as needed:
 - 6.1. The fender rear upper bracket bolts/screws (3)
 - 6.2. The fender rear upper bracket (2)
7. Remove the following components as needed:
 - 7.1. The fender rear center bracket bolts/screws (6)
 - 7.2. The fender rear center bracket (4)

Installation Procedure

Notice: Refer to *Fastener Notice* in Cautions and Notices.

1. Install the following components if removed:

1.1. The fender rear center bracket (4)

1.2. The fender rear center bracket bolts/screws (6)

Tighten

Tighten the fender rear center bracket bolts/screws (6) to 5.5 N·m (49 lb in).

2. Install the following components if removed:

2.1. The fender rear upper bracket (2)

2.2. The fender rear upper bracket bolts/screws (3)

Tighten

Tighten the fender rear upper bracket bolts/screws (3) to 5.5 N·m (49 lb in).

3. Install the following components if removed:

3.1. The fascia outer bracket (2)

3.2. The fascia outer bracket bolts/screws (1)

Tighten

Tighten the fascia outer bracket bolts/screws (1) to 5.5 N·m (49 lb in).

4. Install the front fender (3).

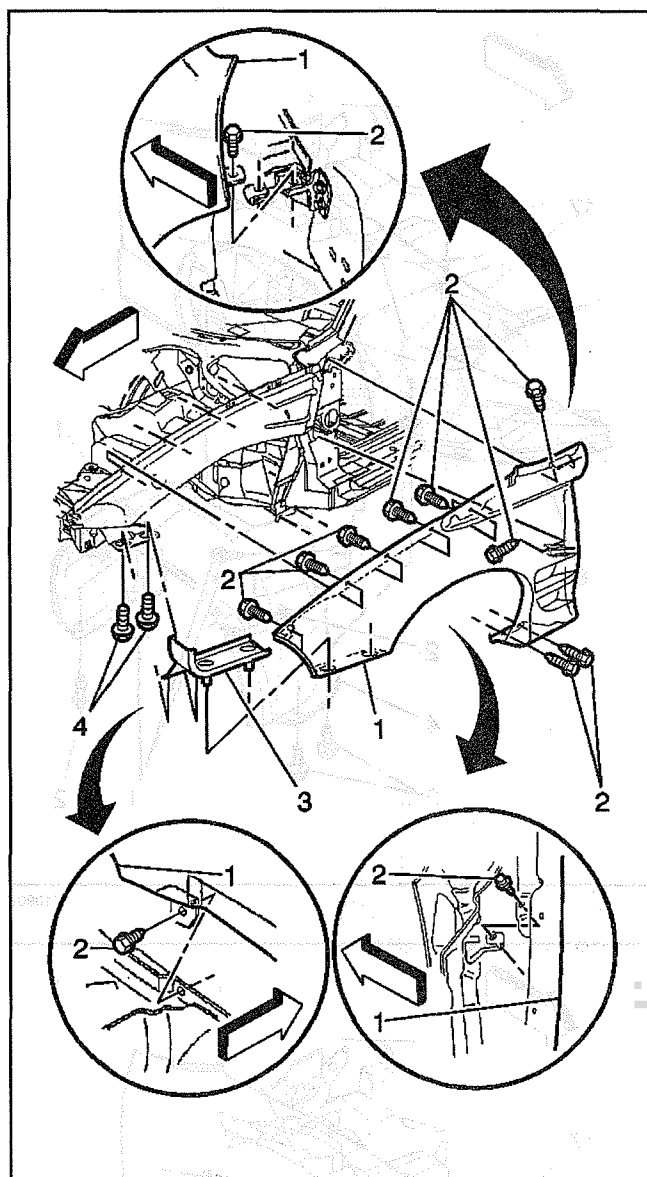
Install the wheelhouse panel liner. Refer to *Wheelhouse Panel Replacement*.

5. Lower the vehicle.

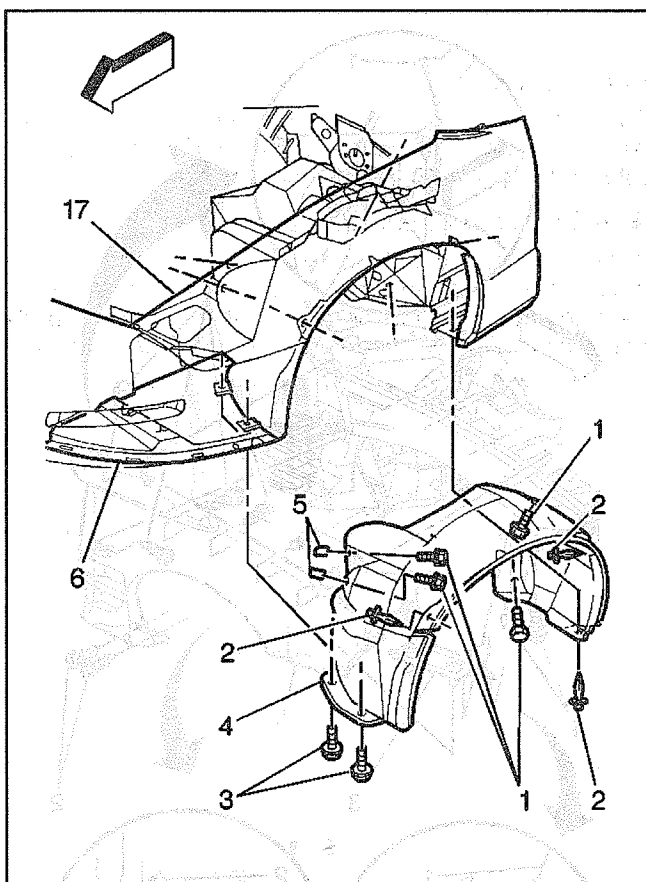
6. Install the fender bolts/screws (2).

Tighten

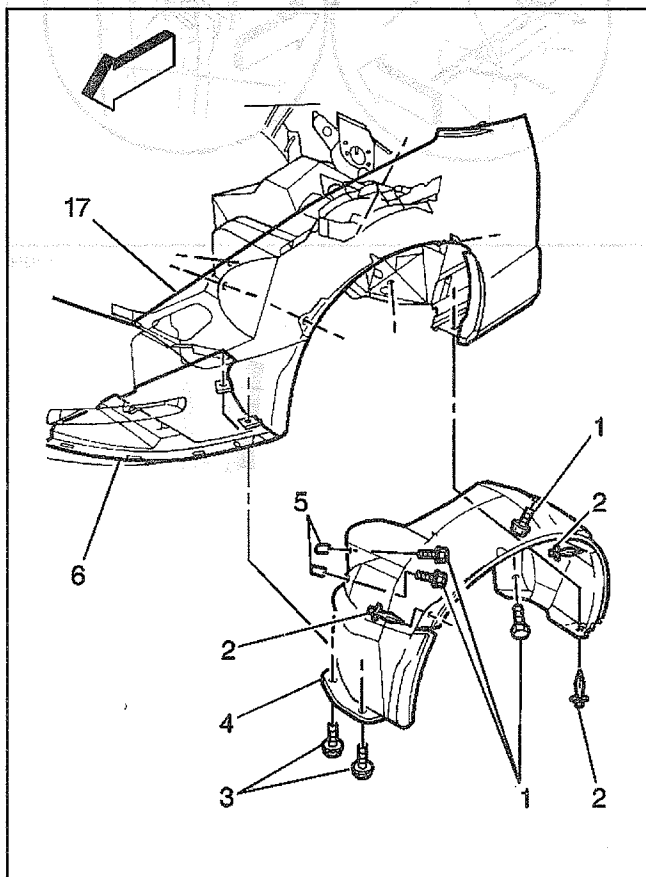
Tighten the fender bolts/screws (2) to 5.5 N·m (49 lb in).



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Wheelhouse Panel Replacement

Removal Procedure

1. Remove the front wheelhouse panel liner bolt/screw caps (5).
2. Raise and support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
3. Remove the front tire and wheel. Refer to *Tire and Wheel Removal and Installation* in Tires and Wheels.
4. Remove the wheelhouse panel liner bolts/screws (3) from the following components:
 - The liner (4)
 - The lower deflector (6)
5. Remove the front wheelhouse panel liner bolts/screws (1) from the liner (4).
6. Remove the front wheelhouse panel liner retainers (2).
7. Remove the wheelhouse panel liner (4).

Installation Procedure

1. Install the wheelhouse panel liner (4).
2. Install the front wheelhouse panel liner retainers (2).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the front wheelhouse panel liner bolts/screws (1) from the liner (4).

Tighten

Tighten the front wheelhouse panel liner bolts/screws (1) to 1.3 N·m (12 lb in).

4. Install the wheelhouse panel liner bolts/screws (3) to the following components:
 - The liner (4)
 - The lower deflector (6)
5. Install the front tire and wheel. Refer to *Tire and Wheel Removal and Installation* in Tires and Wheels.
6. Lower the vehicle.
7. Install the front wheelhouse panel liner bolt/screw caps (5).

Description and Operation

Body Front End Description

The hood is composed of 2-sided galvanized steel, except in Z-28 SS and Trans Am WS6 packages in which cases the hoods are fiberglass. Rigidity is obtained by the use of reinforcement braces and brackets located so no interference with the adjustment or service repair hood will occur. The hood primary latch is attached to the hood primary latch support.

The front fenders are composed of reinforced reaction injection molded (RRIM) urethane. The front fenders attach to the both the unibody structure and the wheelhouse panels.

Lubrication

For lubrication of the hood hinges, hood latch release pawl, hood latch and pivots, headlamp door, etc., refer to Maintenance and Lubrication.

Anti-Corrosion Materials

Anti-corrosion materials are part of the coating on most metal panels to provide rust resistance. When servicing these panels, use only GM replacement parts and recoat with specified service primers and paints.

10-101	10-101	Door Lock Bolt
10-102	10-102	Door Lock Bolt
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10-200	10-200	Door Lock Bolt

GM Part Number	Application
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