

Bumpers

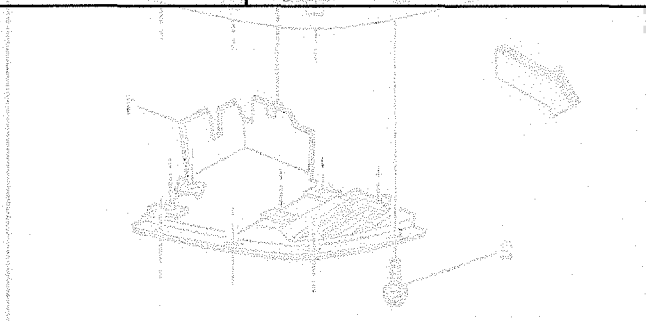
Specifications

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front End Fascia Outer Deflector Bolt	10 N·m	89 lb in
Front Bumper Fascia Outer Support Bolt/Screw	5 N·m	44 lb in
Front Bumper Fascia Outer Support Nut	9 N·m	80 lb in
Front Bumper Impact Bar Anchor Plate Nut	25 N·m	18 lb ft
Grille Nut	2.4 N·m	21 lb in
License Pocket Cover Screw	2 N·m	18 lb in
Rear Bumper Fascia Bolt	2 N·m	18 lb in
Rear Bumper Fascia Nut	6 N·m	53 lb in
Rear Bumper Impact Bar Nut	15 N·m	11 lb ft
Rear End Fascia Energy Absorber Bolt	5.5 N·m	49 lb in
Rear License Plate Bracket Screw (Export)	5 N·m	44 N·m

GM SPO Group Numbers

Application	GM SPO Group Number
Energy Absorber	7.840
Front Brake Caliper Cooling Duct	4.665
Front Bumper Fascia	7.831
Front Fascia Close Out Panel	1.263
Rear Bumper Fascia	7.831



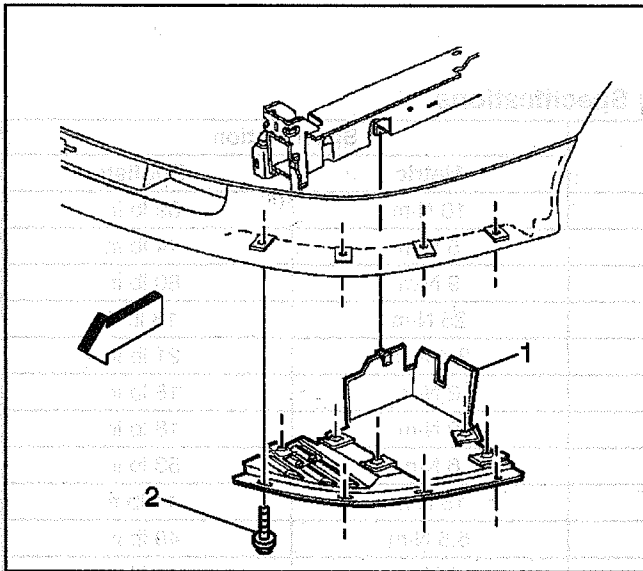
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Repair Instructions

Air Deflector Replacement - Front Bumper Fascia

Removal Procedure

1. Remove the front end fascia outer deflector bolts (2) from the following components:
 - The front fascia
 - The front bumper fascia lower deflector (1)
2. Remove the front end fascia outer deflector (1) from the vehicle.



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Installation Procedure

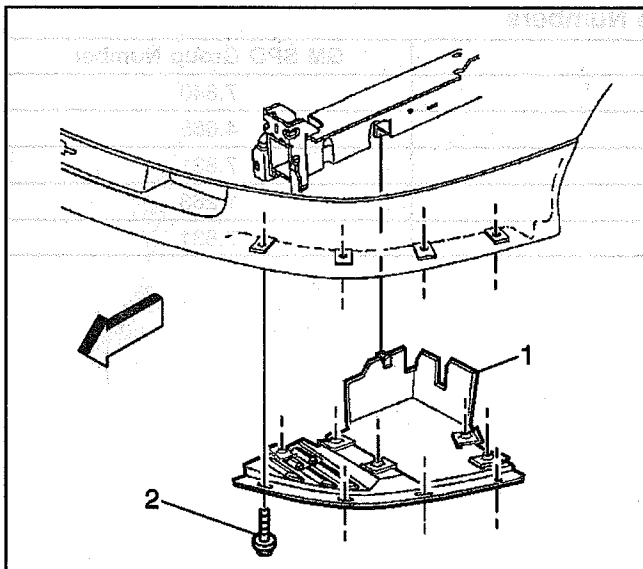
1. Install the front end fascia outer deflector (1) to the vehicle.

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

2. Install the front end fascia outer deflector bolts (2) to the following components:
 - The front fascia
 - The front bumper fascia lower deflector (1)

Tighten

Tighten the front end fascia outer deflector bolts (2) to 10 N·m (89 lb in).

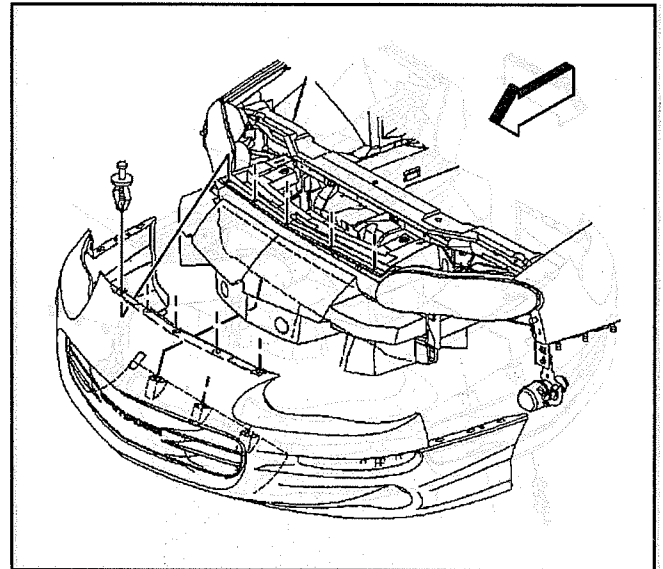


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Fascia Replacement - Front Bumper (Chevrolet)

Removal Procedure

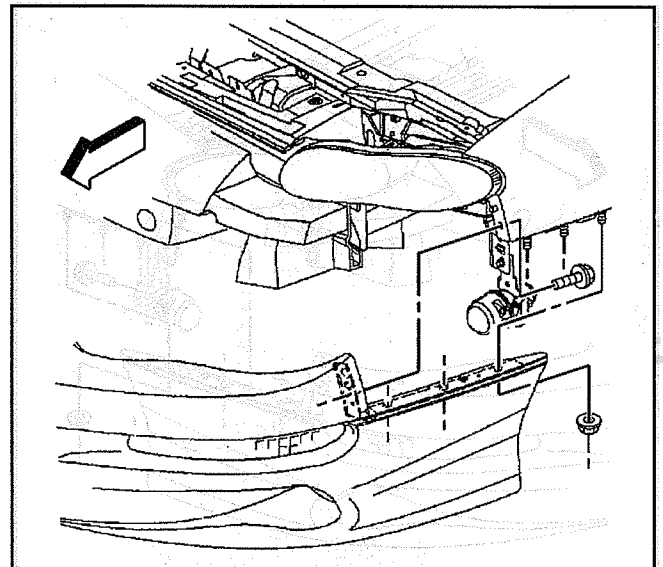
1. Remove the upper fascia retainers along the radiator support.
2. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
3. Remove the front end fascia outer deflectors. Refer to *Air Deflector Replacement - Front Bumper Fascia*.



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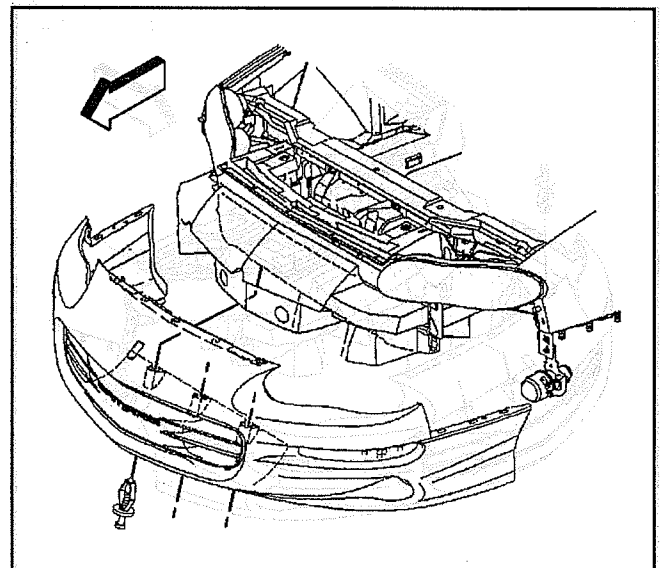
4. Remove the fascia outer support nuts and bolts.
5. Disconnect all the electrical connectors from the fascia.



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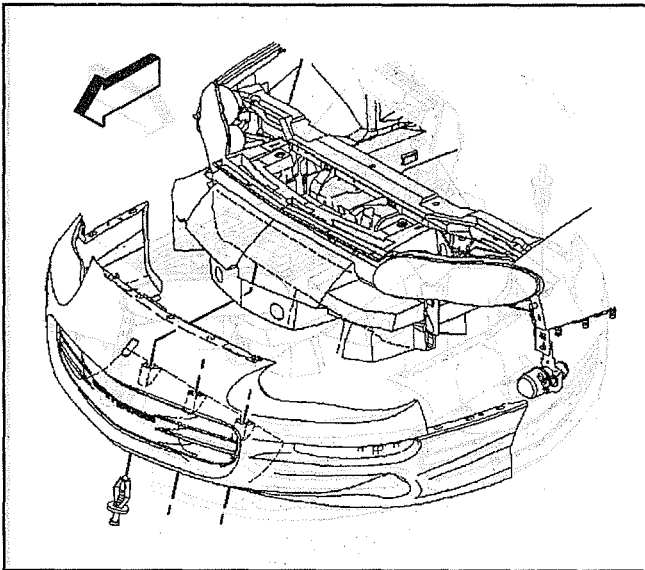
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6. Remove the lower fascia retainers along the impact bar.
7. Remove the front fascia.
8. Transfer all necessary parts, if required.



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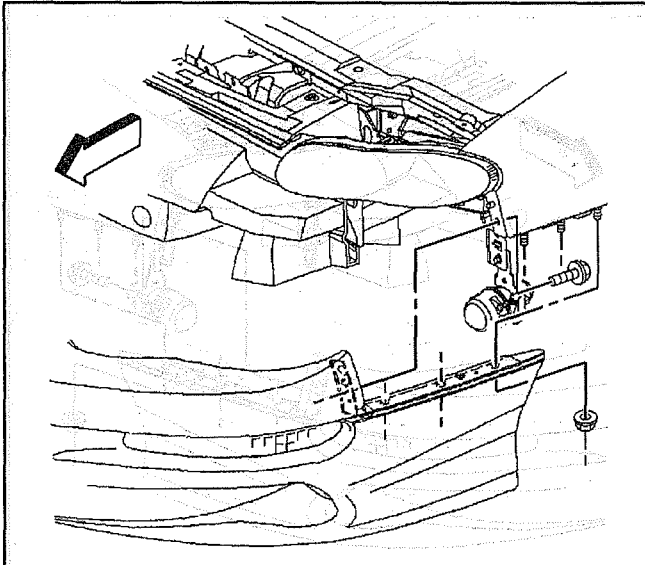
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Installation Procedure

1. Install the front fascia.
2. Install the lower fascia retainers along the impact bar.
3. Connect all the electrical connectors to the fascia.



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

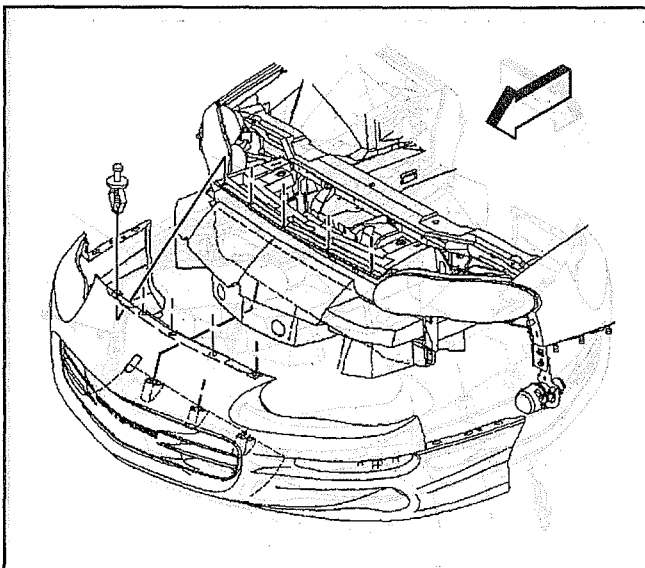
4. Install the fascia outer support nuts and bolts.

Tighten

- Tighten the fascia outer support nuts to 9 N·m (80 lb in).
- Tighten the fascia outer support bolts to 5 N·m (44 lb in).

5. Install the front end fascia outer deflectors. Refer to *Air Deflector Replacement - Front Bumper Fascia*.

6. Lower the vehicle.



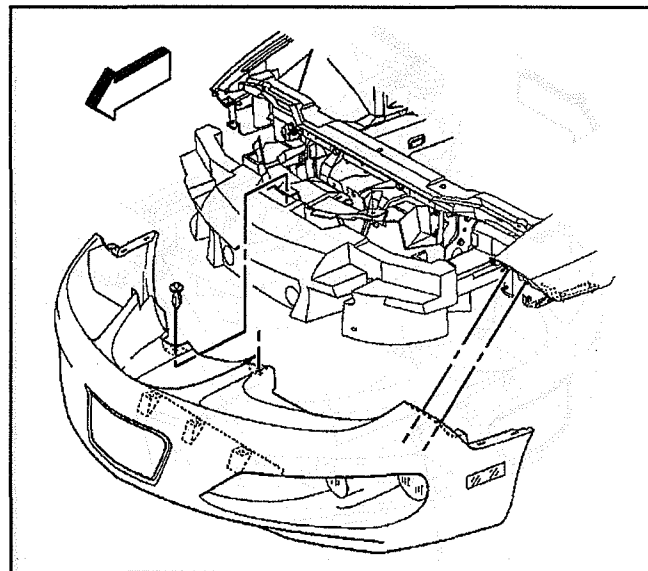
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7. Install the upper fascia retainers along the radiator support.

Fascia Replacement - Front Bumper (Pontiac)

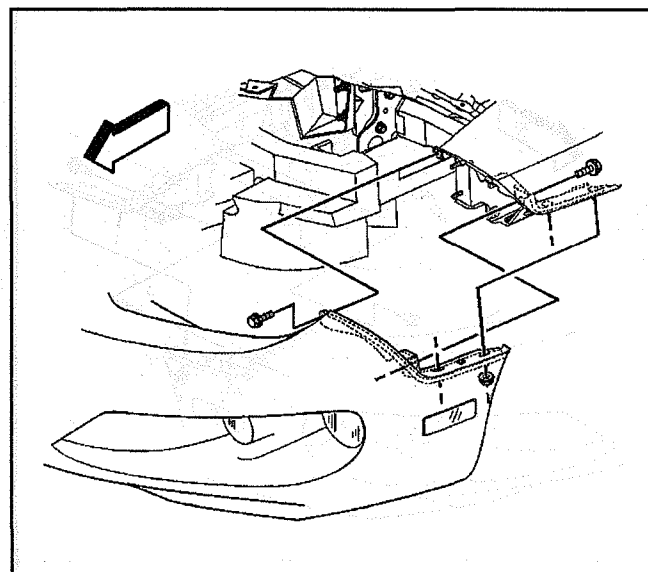
Removal Procedure

1. Remove the upper fascia retainers along the radiator support.
2. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
3. Remove the front end fascia outer deflectors. Refer to *Air Deflector Replacement - Front Bumper Fascia*.



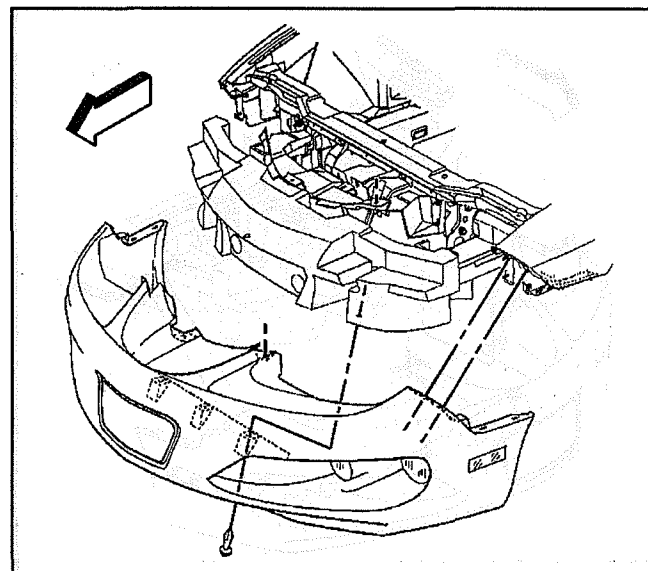
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4. Remove the fascia outer support nuts and bolts.
5. Disconnect all the electrical connectors from the fascia.

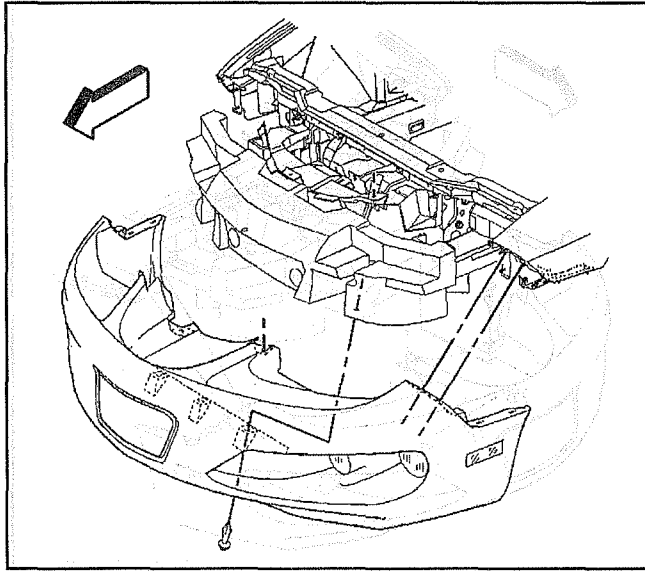


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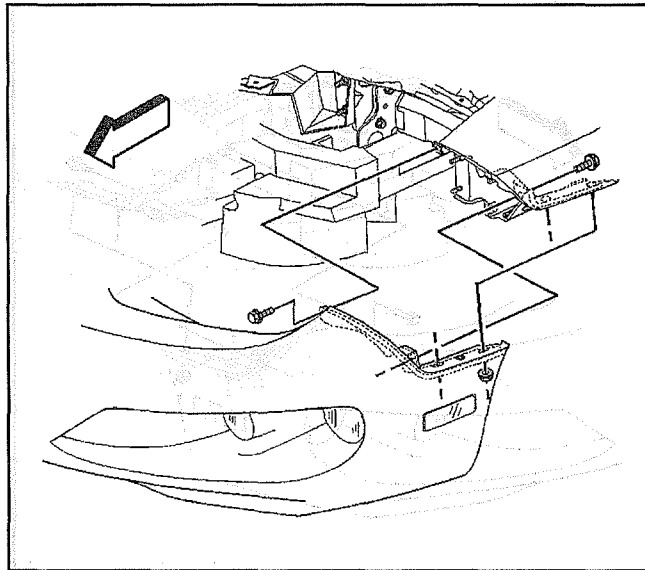
6. Remove the lower fascia retainers along the impact bar.
7. Manually raise the headlamps.
8. Remove the front bumper fascia.



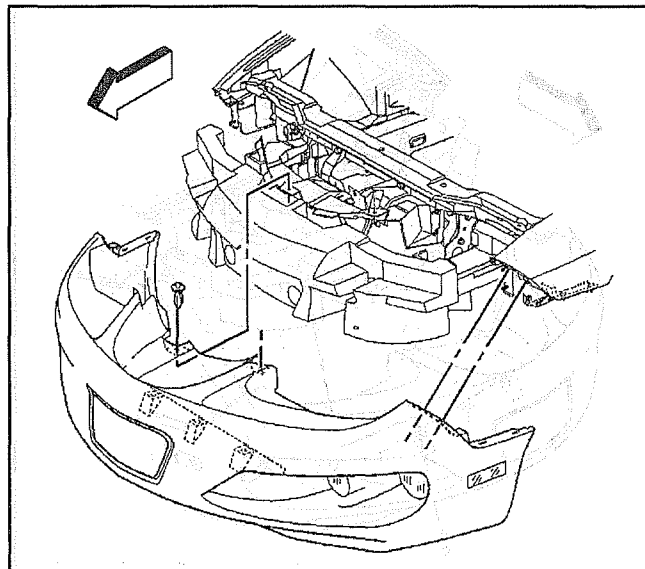
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Installation Procedure

1. Install the front bumper fascia.
2. Manually lower the headlamps.
3. Install the lower fascia retainers along the impact bar.
4. Connect all the electrical connectors to the fascia.

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

5. Install the fascia outer support nuts and bolts.

Tighten

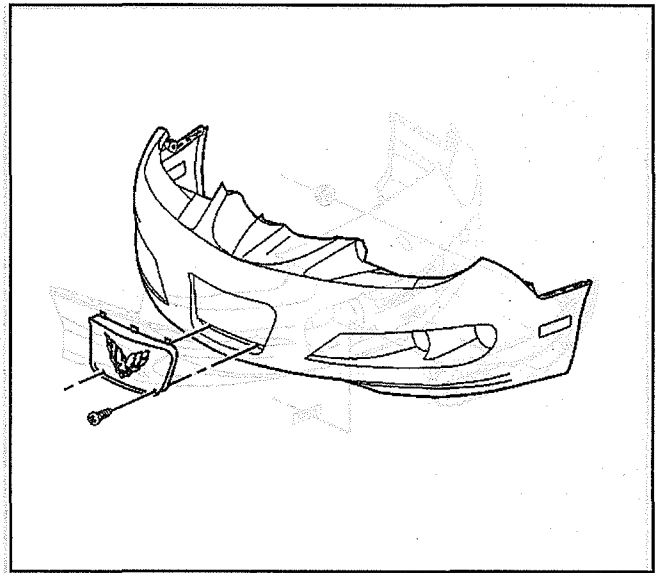
- Tighten the fascia outer support nuts to 9 N·m (80 lb in).
 - Tighten the fascia outer support bolts to 5 N·m (44 lb in).
6. Install the front end fascia outer deflectors. Refer to *Air Deflector Replacement - Front Bumper Fascia*.
 7. Lower the vehicle

8. Install the upper fascia retainers along the radiator support.

License Pocket Cover Replacement - Front

Removal Procedure

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Remove the license pocket cover screws.
3. Remove the license pocket cover from the vehicle.



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Installation Procedure

1. Install the license pocket cover to the vehicle.

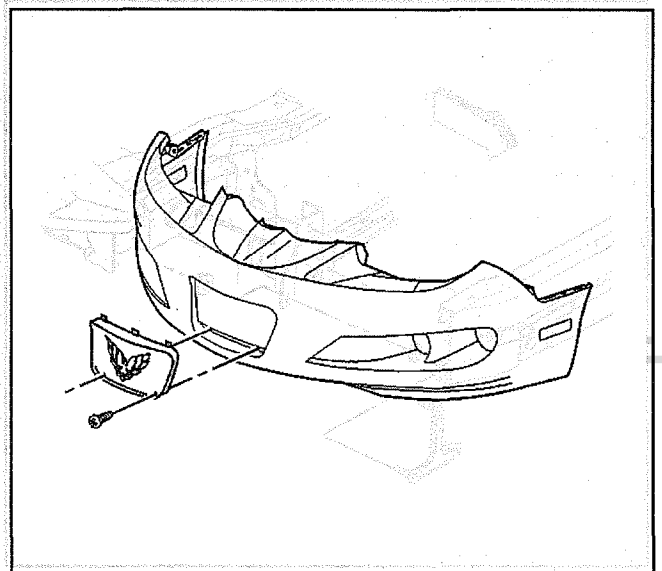
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the license pocket cover screws.

Tighten

Tighten the license pocket cover screws to 2.0 N·m (18 lb in).

3. Lower the vehicle.

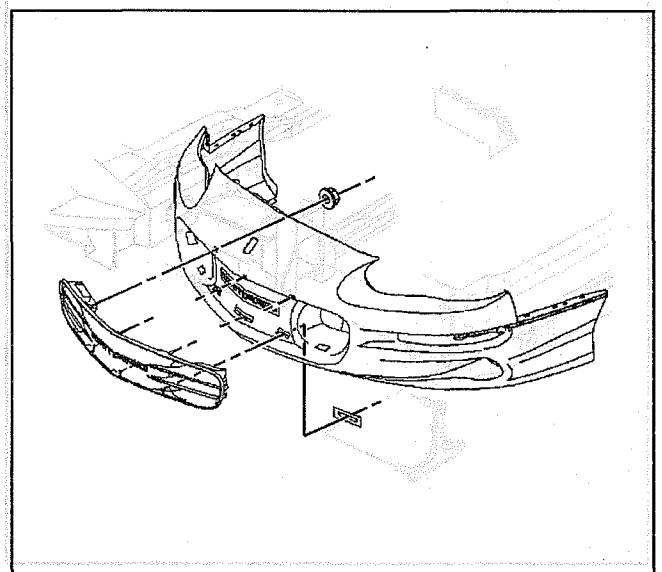


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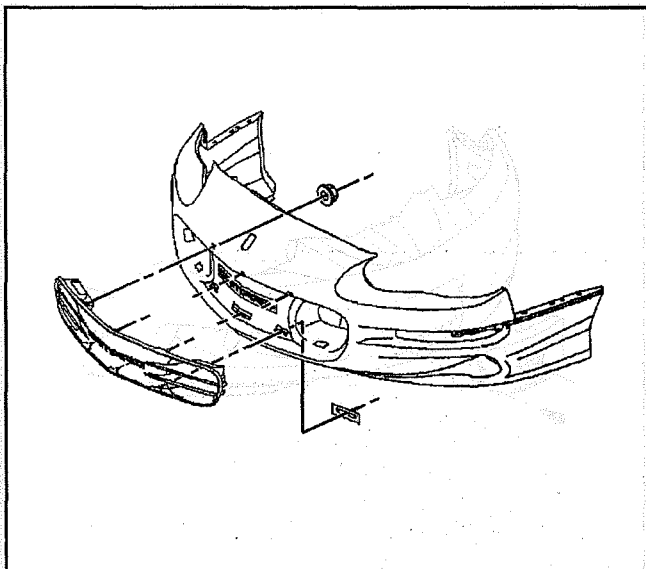
Fascia Grille Replacement - Front Bumper Lower

Removal Procedure

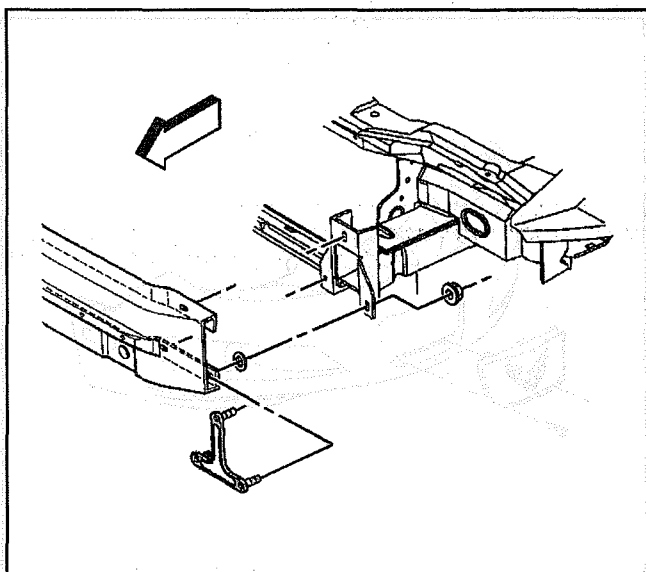
1. Remove the front fascia. Refer to *Fascia Replacement - Front Bumper (Chevrolet)*.
2. Remove the grille nuts.
3. Remove the grille retainer clips.



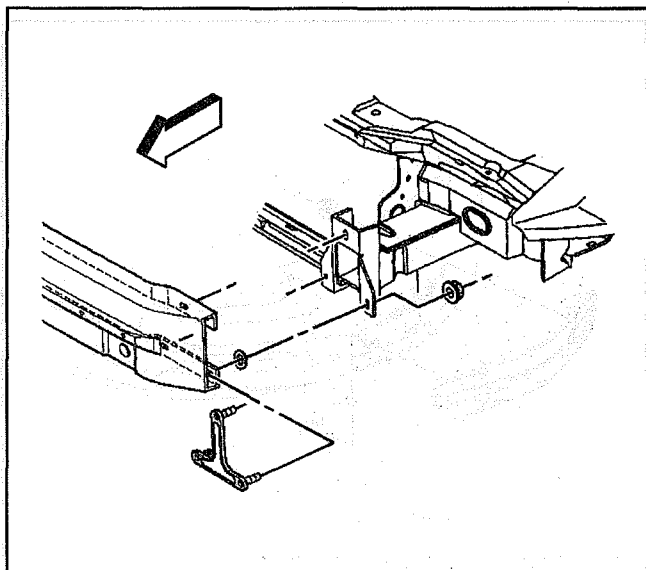
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Installation Procedure

1. Install the grille retainer clips.

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

2. Install the grille nuts.

Tighten

Tighten the grille nuts to 2.4 N·m (21 lb in).

3. Install the front fascia. Refer to *Fascia Replacement - Front Bumper (Chevrolet)*.

Impact Bar Replacement - Front Bumper

Removal Procedure

1. Remove the front bumper energy absorber. Refer to the appropriate procedure:
 - *Energy Absorber Replacement - Front (Chevrolet)*.
 - *Energy Absorber Replacement - Front (Pontiac)*.
2. Remove the impact bar nuts from the anchor plate studs.
3. Remove the front bumper impact bar from the vehicle.
4. Remove the impact bar stud plate retainers from the impact bar, if necessary.
5. Remove the impact bar stud plate from the impact bar, if necessary.

Installation Procedure

1. Install the impact bar stud plate to the impact bar, if necessary.
2. Install the impact bar stud plate retainers to the impact bar, if necessary.
3. Install the front bumper impact bar to the vehicle.

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

4. Install the impact bar nuts to the anchor plate studs.

Tighten

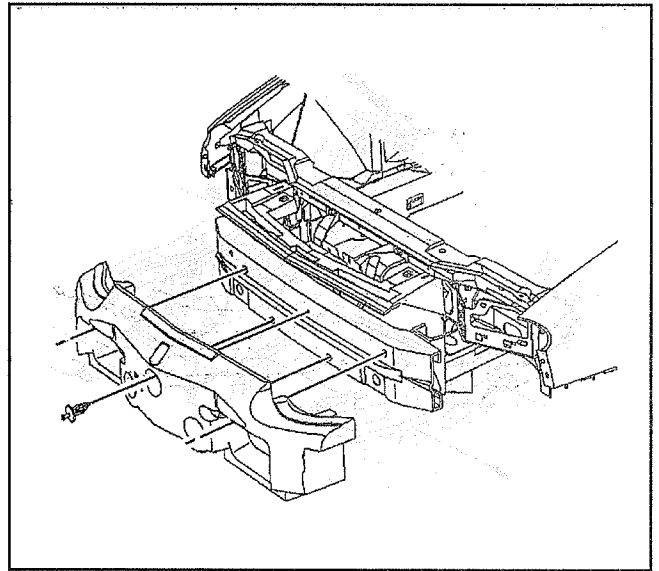
Tighten the impact bar anchor plate nuts to 25 N·m (18 lb ft).

5. Install the front bumper energy absorber. Refer to the appropriate procedure:
 - *Energy Absorber Replacement - Front (Chevrolet)*.
 - *Energy Absorber Replacement - Front (Pontiac)*.

Energy Absorber Replacement - Front (Chevrolet)

Removal Procedure

1. Remove the front fascia. Refer to *Fascia Replacement - Front Bumper (Chevrolet)*.
2. Remove the front bumper energy absorber push-in retainers.
3. Remove the front bumper energy absorber from the vehicle.



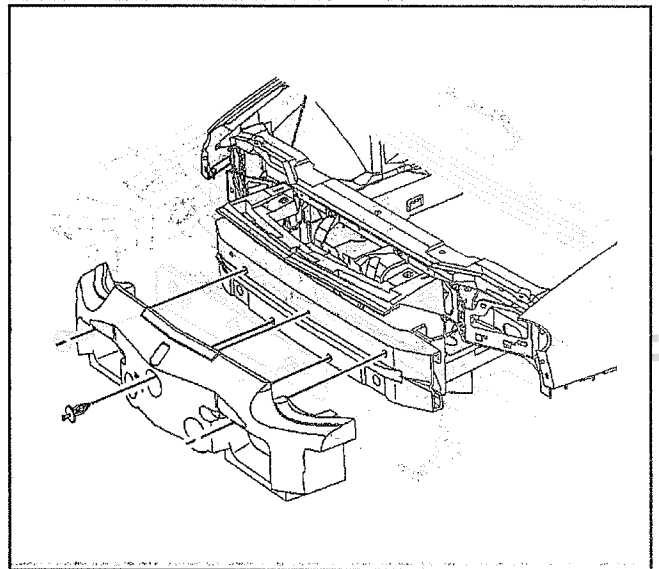
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Installation Procedure

1. Install the front bumper energy absorber to the vehicle.
2. Install the front bumper energy absorber push-in retainers.

Start installing the retainers at the center of the energy absorber and work outboard.

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

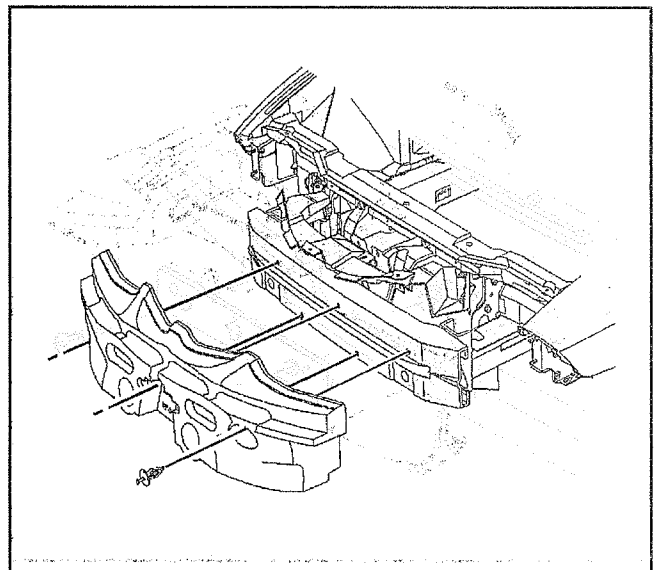


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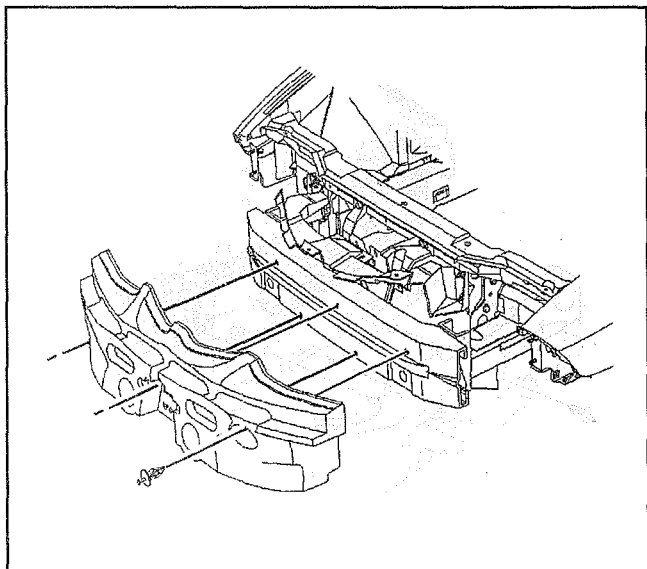
Energy Absorber Replacement - Front (Pontiac)

Removal Procedure

1. Remove the front bumper fascia. Refer to *Fascia Replacement - Front Bumper (Pontiac)*.
2. Remove the energy absorber push-in retainers.
3. Remove the front bumper energy absorber from the vehicle.



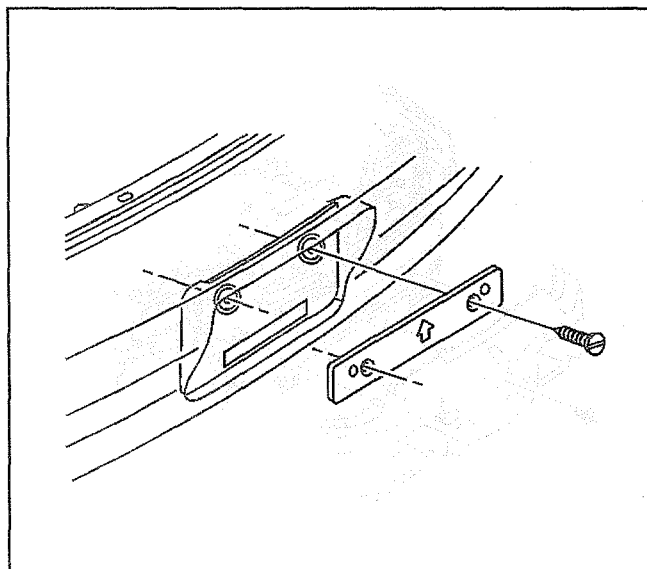
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Installation Procedure

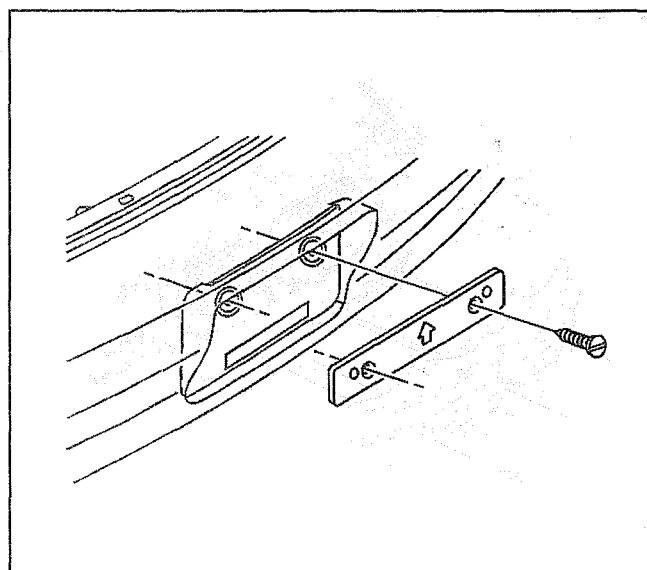
1. Install the front bumper energy absorber to the vehicle.
2. Install the energy absorber push-in retainers.
Start at the center of the energy absorber and work outboard.
3. Install the front bumper fascia. Refer to *Fascia Replacement - Front Bumper (Pontiac)*.



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License Bracket Replacement - Rear (Export)**Removal Procedure**

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Remove the rear license plate.
3. Remove the rear license plate bracket screws.
4. Remove the rear license plate bracket from the vehicle.



379407

Installation Procedure

1. Install the rear license plate bracket to the vehicle.

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

2. Install the rear license plate bracket screws.

Tighten

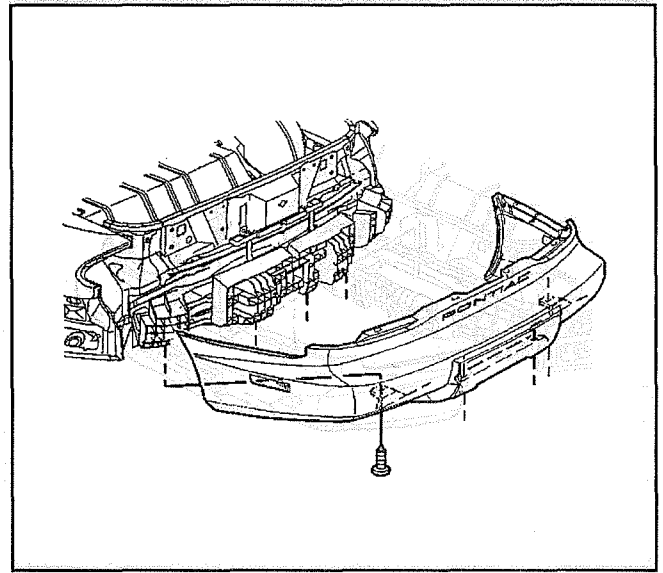
Tighten the rear license plate bracket screws to 5 N·m (44 lb in).

3. Install the rear license plate.
4. Lower the vehicle.

Fascia Replacement - Rear Bumper (Pontiac)

Removal Procedure

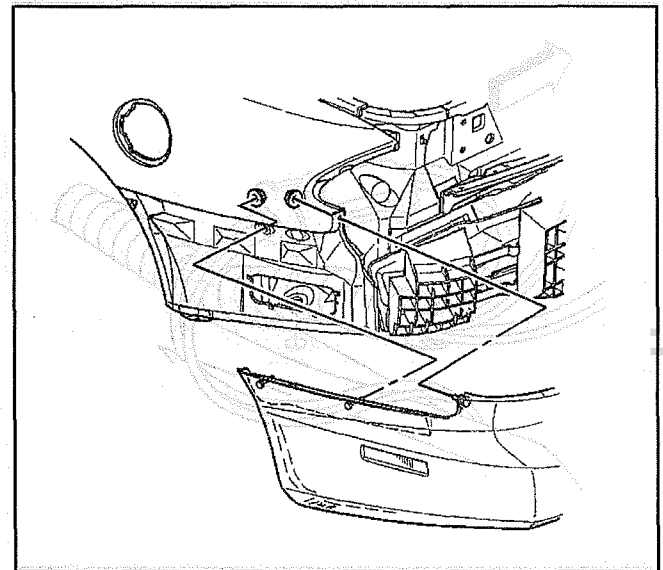
1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Remove the push-in retainers located under the fascia.



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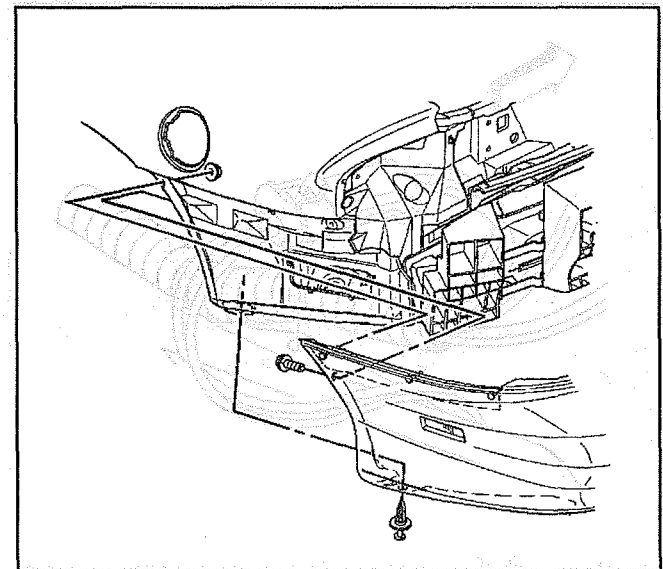
3. Remove the bumper fascia nuts.



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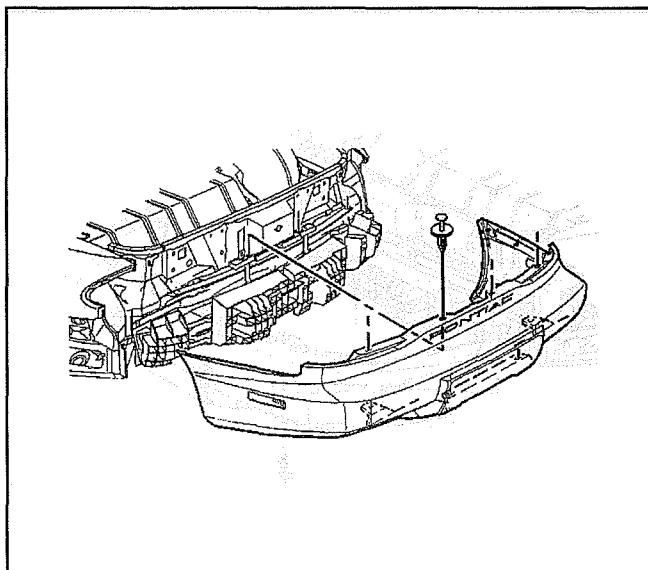
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4. Remove the bumper fascia bolts.
5. Lower the vehicle.
6. Remove the rear end finish panel.
7. Remove the spare tire and jack.

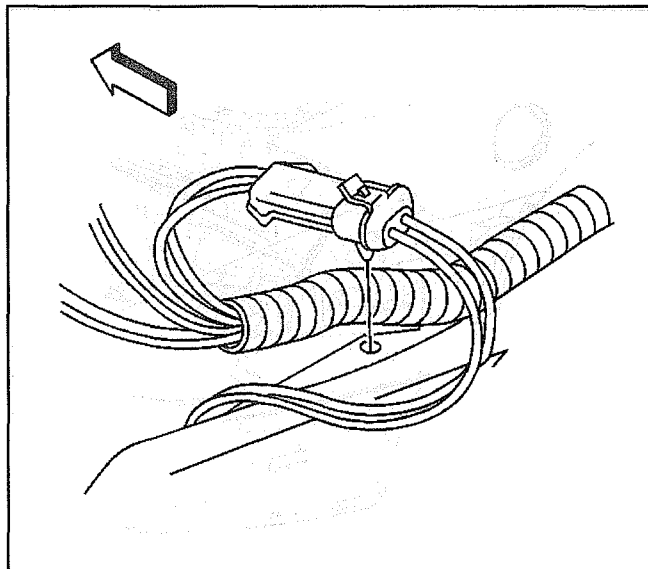


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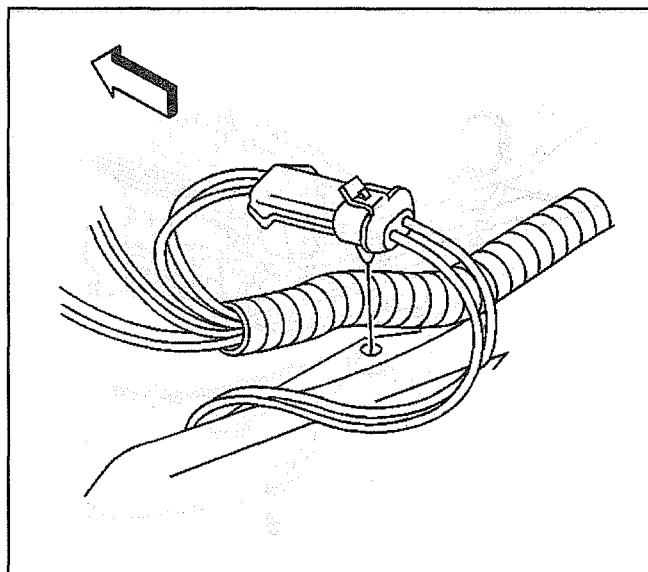
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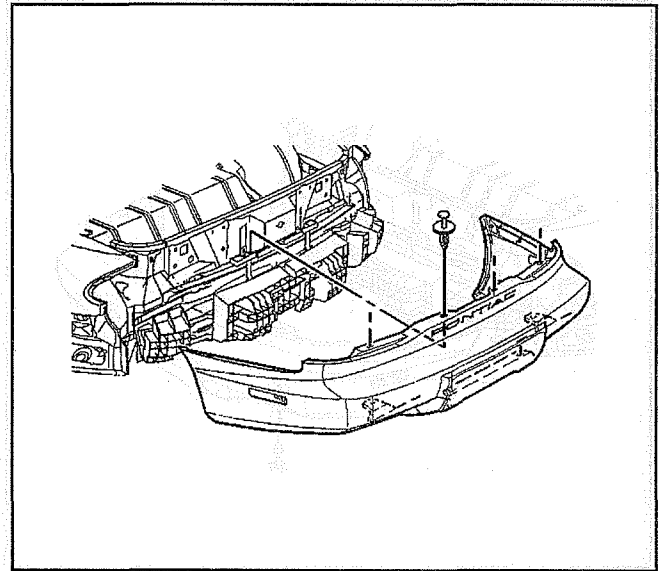
8. Remove the push-in retainers from the top of the fascia.

9. Remove the harness connector rosebud clip from the fascia.
10. Disconnect the rear body wiring harness connector from the fascia wiring harness connector.
11. Remove the rear bumper fascia from the vehicle.

Installation Procedure

1. Install the rear bumper fascia to the vehicle.
2. Connect the rear body wiring harness connector to the rear fascia wiring harness connector.
3. Connect the harness connector rosebud clip to the fascia.

4. Remove the push-in retainers from the top of the fascia.
5. Install the spare tire and jack.
6. Install the rear end finish panel.
7. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.



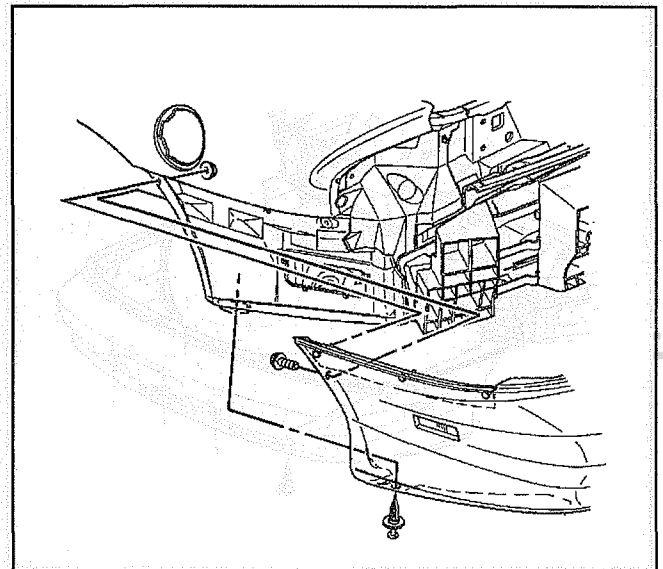
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Notice: Refer to *Fastener Notice* in Cautions and Notices.

8. Install the bumper fascia bolts.

Tighten

Tighten the bumper fascia bolts to 2 N·m (18 lb in).

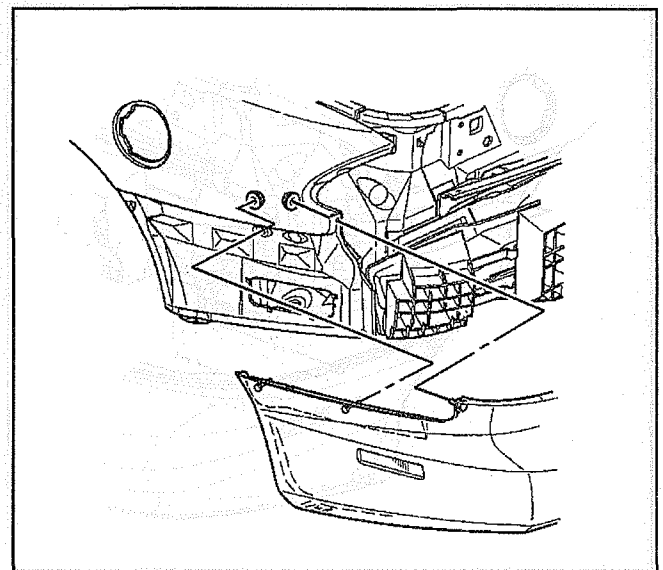


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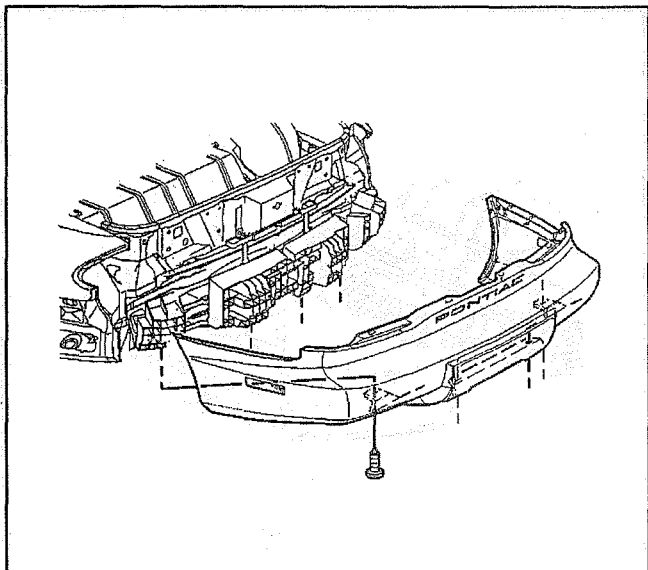
9. Install the bumper fascia nuts.

Tighten

Tighten the bumper fascia nuts to 6 N·m (53 lb in).

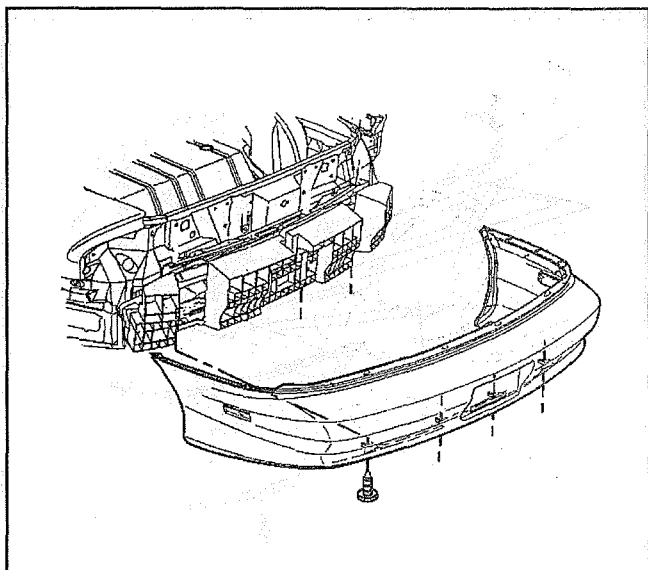


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10. Remove the push-in retainers located under the fascia.
11. Lower the vehicle.

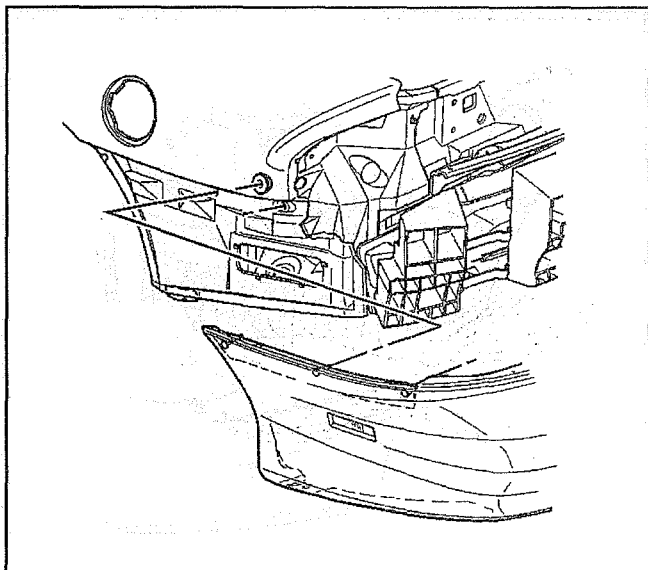


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Fascia Replacement - Rear Bumper (Chevrolet)

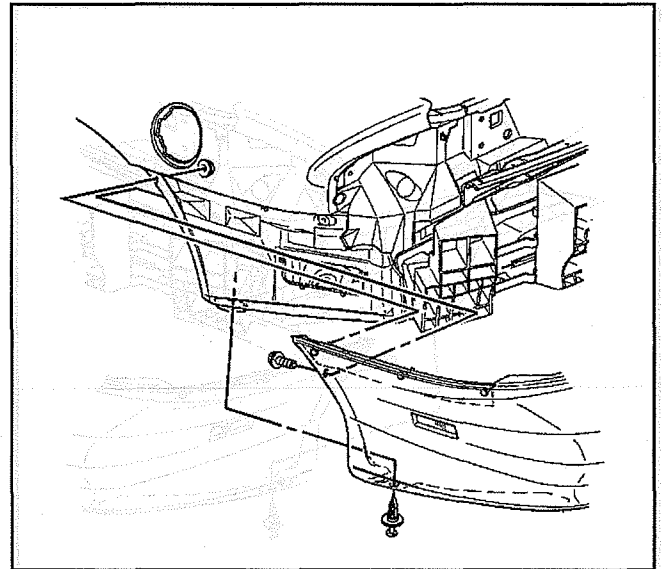
Removal Procedure

1. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.
2. Remove the push-in retainers located under the fascia.
3. Remove the bumper fascia nuts.



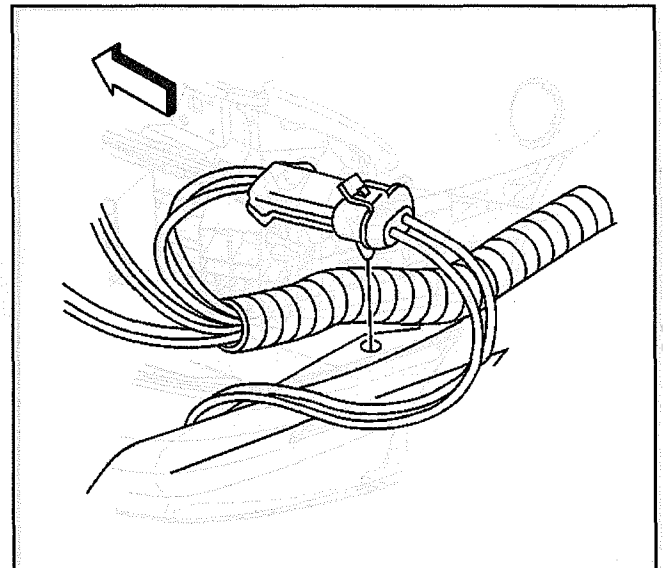
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4. Remove the bumper fascia bolts.
5. Lower the vehicle.
6. Remove the rear end finish panel.
7. Remove the spare tire and jack.
8. Remove the upper push-in retainers from the top of the fascia.



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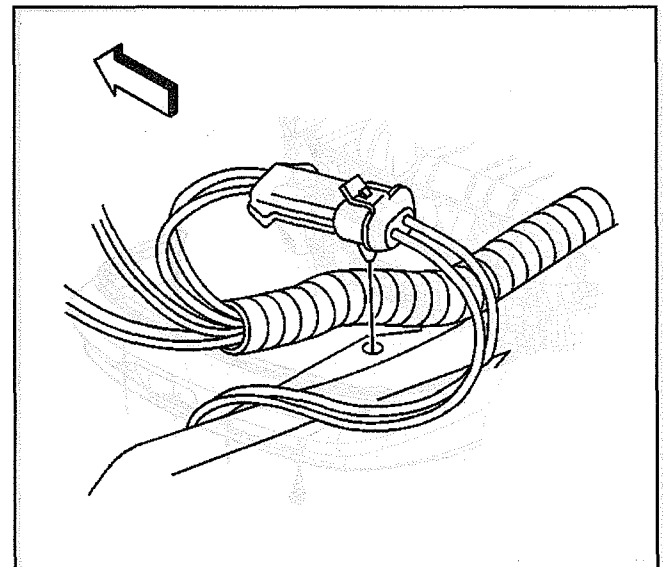
9. Remove the harness connector rosebud clip from the fascia.
10. Disconnect the rear body wiring harness connector from the fascia wiring harness connector.
11. Remove the rear bumper fascia from the vehicle.



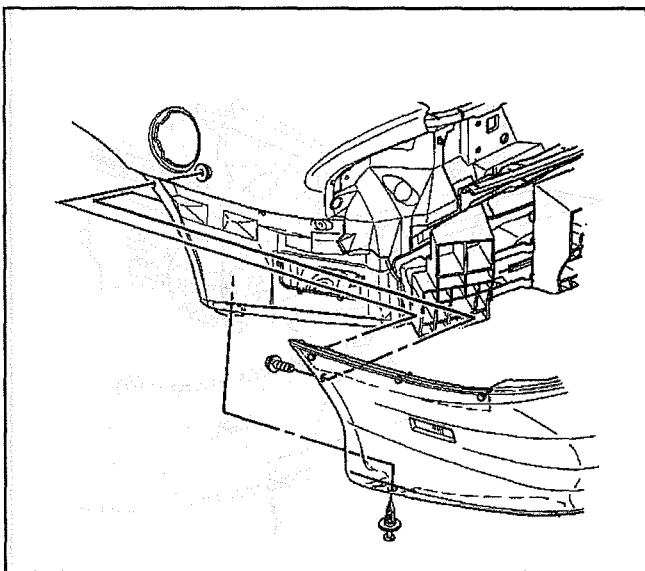
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Installation Procedure

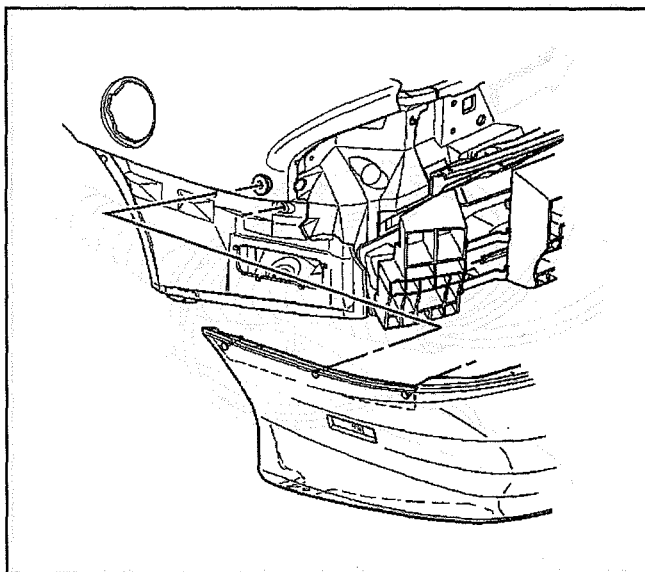
1. Install the rear bumper fascia to the vehicle.
2. Connect the rear body wiring harness connector to the rear fascia wiring harness connector.
3. Connect the harness connector rosebud clip to the fascia.
4. Install the upper push-in retainers to the top of the fascia.
5. Install the spare tire and jack.
6. Install the rear end finish panel.
7. Raise and suitably support the vehicle. Refer to *Lifting and Jacking the Vehicle* in General Information.



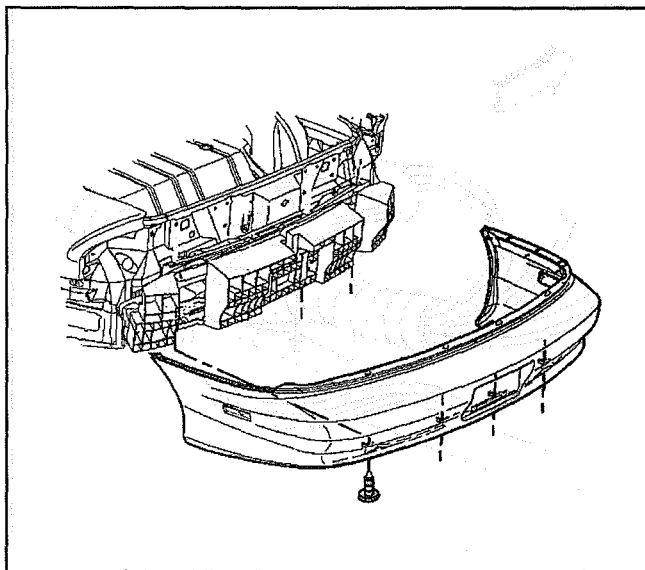
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Notice: Refer to *Fastener Notice* in Cautions and Notices.

8. Install the bumper fascia bolts.

Tighten

Tighten the bumper fascia bolts to 2 N·m (18 lb in).

9. Remove the bumper fascia nuts.

Tighten

Tighten the bumper fascia nuts to 6 N·m (53 lb in).

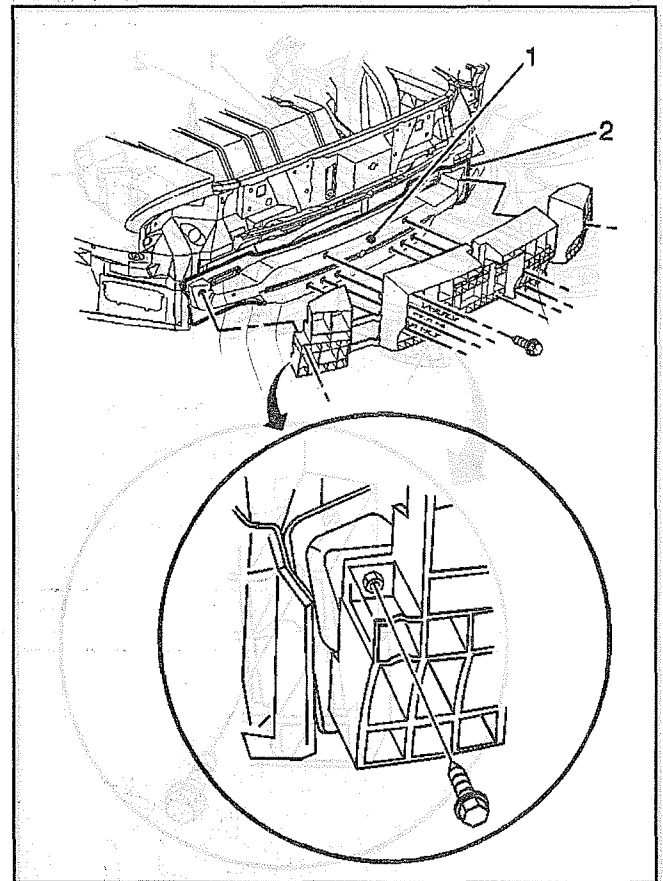
10. Install the push-in retainers located under the fascia.

11. Lower the vehicle.

Energy Absorber Replacement - Rear (Chevrolet)

Removal Procedure

1. Remove the rear fascia. Refer to *Fascia Replacement - Rear Bumper (Chevrolet)*.
2. Remove the energy absorber bolts.
3. Remove the energy absorber from the impact bar (2).



368252

Installation Procedure

1. Install the rear bumper energy absorber.
Position the hole at the center of the rear bumper energy absorber over the locating boss (1) at the center of the rear bumper impact bar (2).

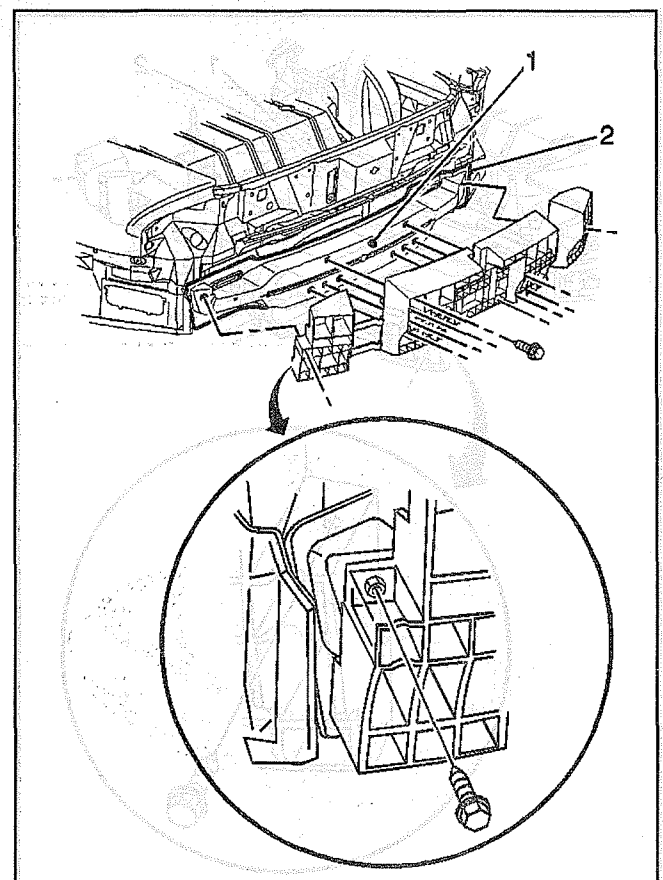
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the energy absorber bolts.
Install the bolts at the center of the energy absorber and work outboard.

Tighten

Tighten the energy absorber bolts to 5.5 N·m (49 lb in).

3. Install the rear fascia. Refer to *Fascia Replacement - Rear Bumper (Chevrolet)*.

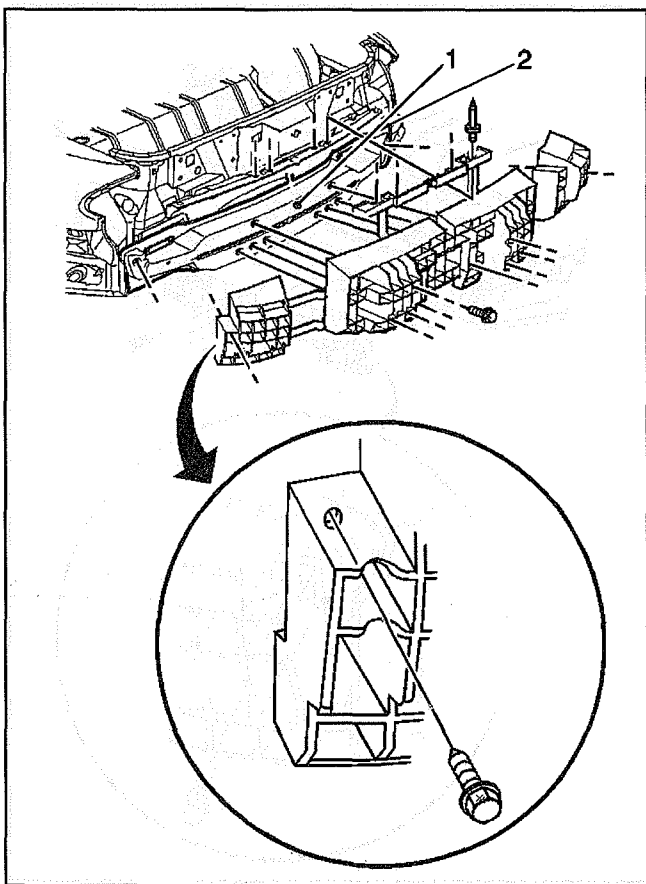


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Energy Absorber Replacement - Rear (Pontiac)

Removal Procedure

1. Remove the rear fascia. Refer to *Fascia Replacement - Rear Bumper (Pontiac)*.
2. Remove the energy absorber rivets using a drill bit.
3. Remove the energy absorber bolts.
4. Remove the energy absorber from the impact bar (2).



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Installation Procedure

1. Install the rear bumper energy absorber. Position the hole at the center of the rear bumper energy absorber over the locating boss (1) at the center of the rear bumper impact bar (2).

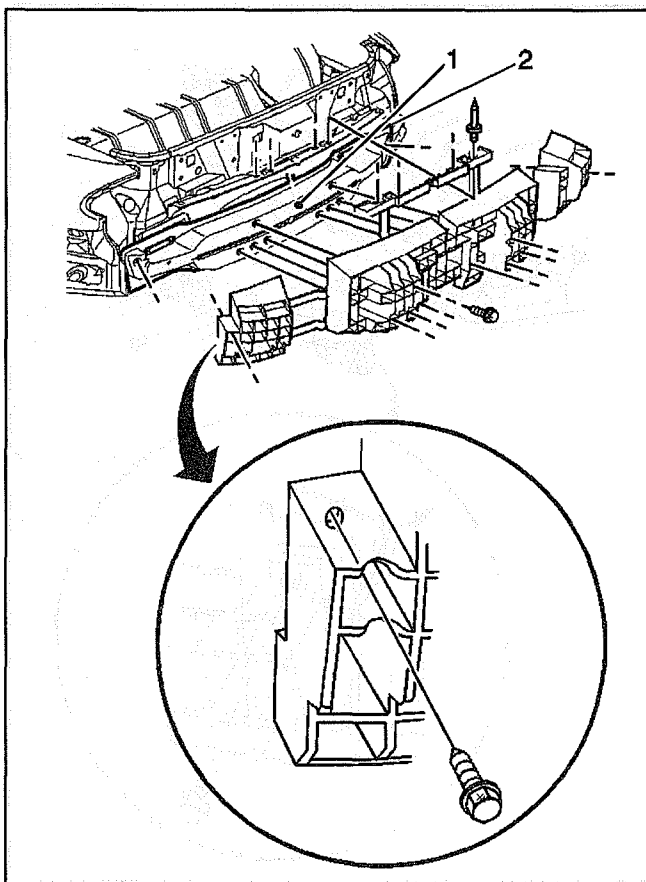
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the energy absorber bolts. Install the bolts at the center of the energy absorber and work outboard.

Tighten

Tighten the energy absorber bolts to 5.5 N·m (49 lb in).

3. Snap the absorber attachment into the slots in the fascia support bracket.
4. Install the energy absorber rivets.



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Impact Bar Replacement - Rear Bumper

Removal Procedure

1. Remove the rear bumper energy absorber. Refer to the appropriate procedure:
 - *Energy Absorber Replacement - Rear (Chevrolet).*
 - *Energy Absorber Replacement - Rear (Pontiac).*
 2. Remove the rear bumper impact bar nuts from the plate studs.
 3. Remove the rear bumper impact bar.
- Note the number of shims prior to removing the impact bar.

Installation Procedure

1. Install the rear bumper impact bar and shims.
Place the shims into the location from which the shims were removed.

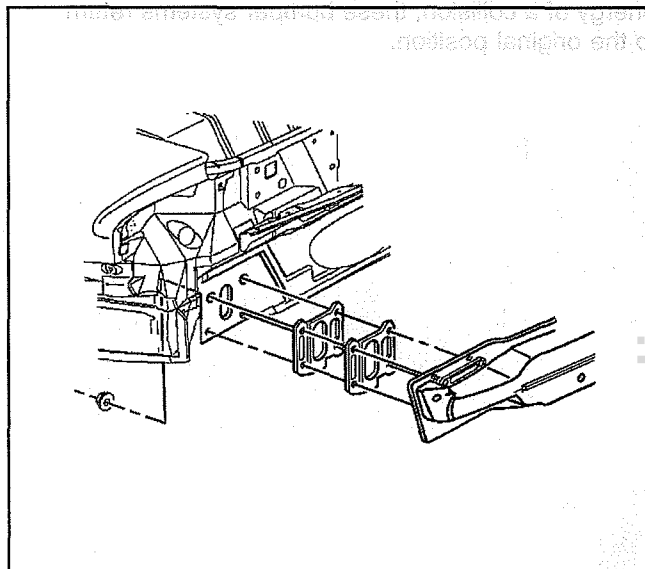
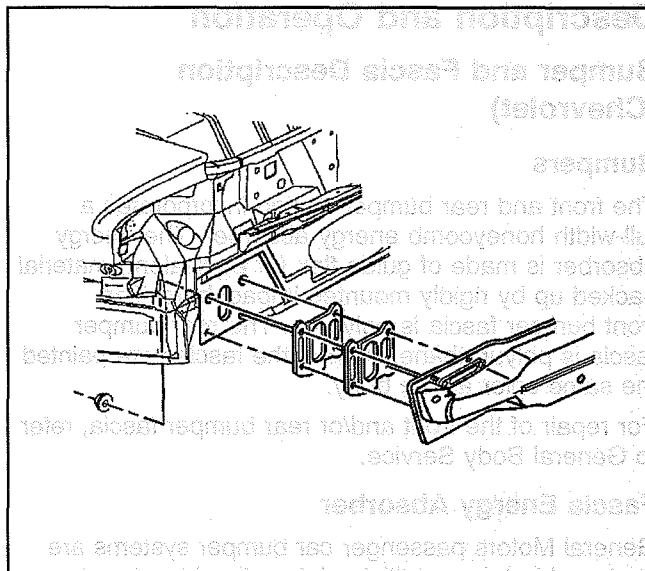
Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the rear bumper impact bar nuts to the plate studs.

Tighten

Tighten the rear bumper impact bar nuts to 15 N·m (11 lb ft).

3. Install the rear bumper energy absorber. Refer to the appropriate procedure:
 - *Energy Absorber Replacement - Rear (Chevrolet).*
 - *Energy Absorber Replacement - Rear (Pontiac).*



Description and Operation

Bumper and Fascia Description (Chevrolet)

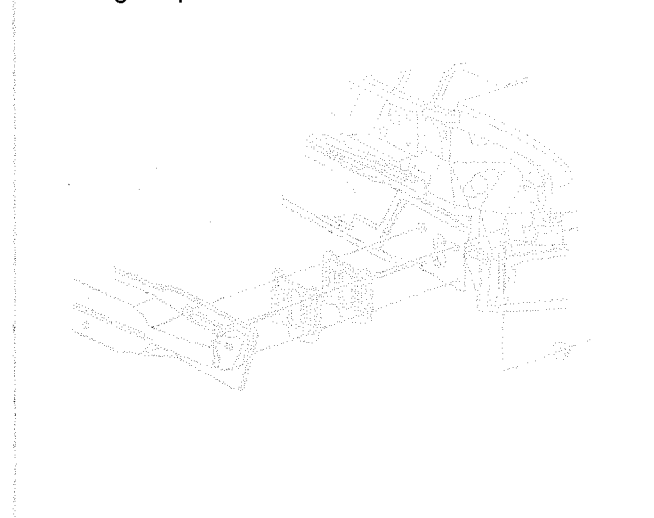
Bumpers

The front and rear bumper design incorporates a full-width honeycomb energy absorber. The energy absorber is made of guide flex (or equivalent) material backed up by rigidly mounted impact bars. The front bumper fascia is polyurea. The rear bumper fascia is polyurethane. Both of the fascias are painted the same color as the body.

For repair of the front and/or rear bumper fascia, refer to General Body Service.

Fascia Energy Absorber

General Motors passenger car bumper systems are designed to take a collision into a fixed barrier at 8 km/h (5 mph) without damage. After absorbing the energy of a collision, these bumper systems return to the original position.



Bumper and Fascia Description (Pontiac)

Bumpers

The front bumper design incorporates a full-width Styrofoam material energy absorber. The rear bumper design incorporates a full-width honeycomb energy absorber. The energy absorber is made of guide flex (or equivalent) material. Both of the bumpers are backed up by rigidly mounted impact bars. The front bumper fascia is polyurea. The rear bumper fascia is polyurethane. Both of the fascias are painted the same color as the body.

For repair of the front and/or rear bumper fascia, refer to General Body Service.

Fascia Energy Absorber

General Motors passenger car bumper systems are designed to take a collision into a fixed barrier at 8 km/h (5 mph) without damage. After absorbing the energy of a collision, these bumper systems return to the original position.