

## SECTION 90

# BUMPERS AND FASCIAS

**CAUTION:** Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.

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## SPECIFICATIONS

### FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
Fender-to-Fascia Bolts	10	–	89
Fender-to-Fascia Screws	2.5	–	22
Front Impact Bar Bolts	39	29	–
Lower Fascia Bolts	10	–	89
Luggage Compartment Fascia Bolts	2	–	18
Rear Impact Bar Nuts	9	–	80
Rear Wheel Well Fascia Bolts	2	–	18
Rear Wheel Well Splash Shield Bolts	2	–	18

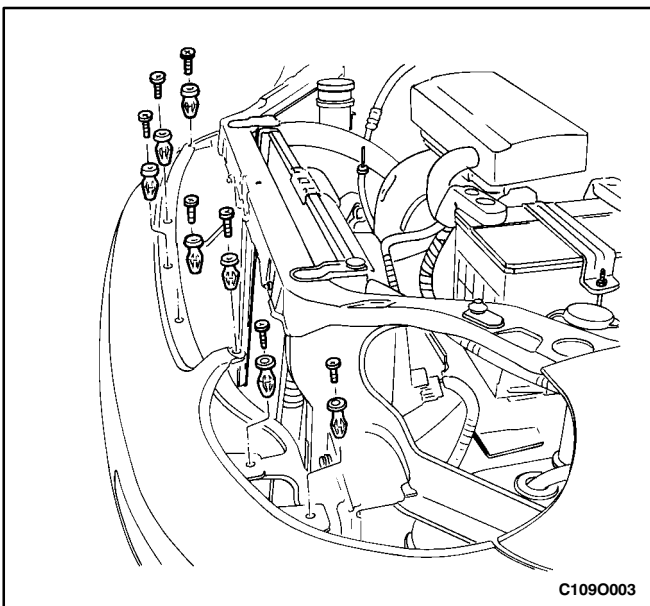
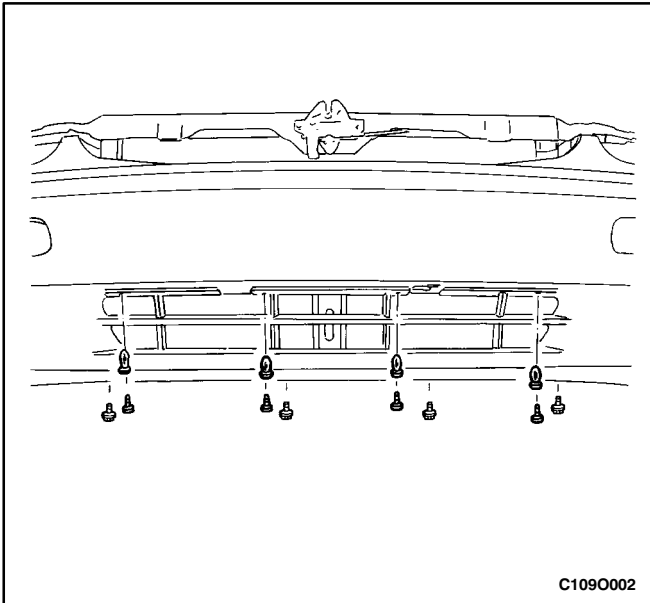
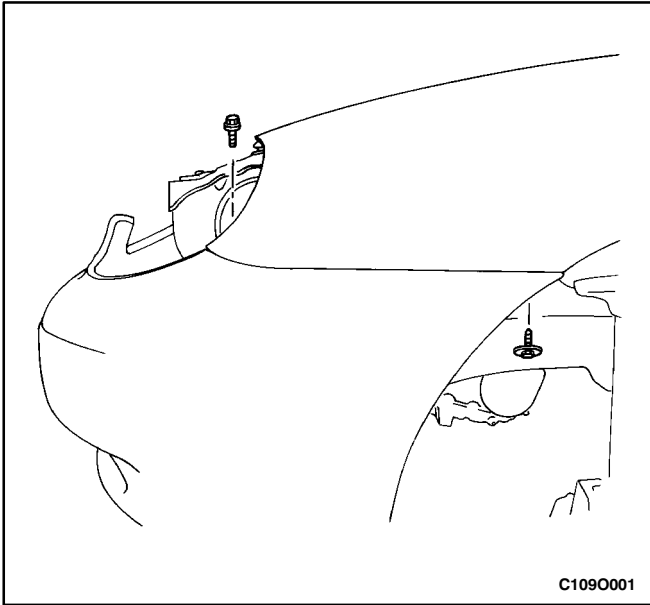
## MAINTENANCE AND REPAIR

### ON-VEHICLE SERVICE

#### FRONT BUMPER FASCIA

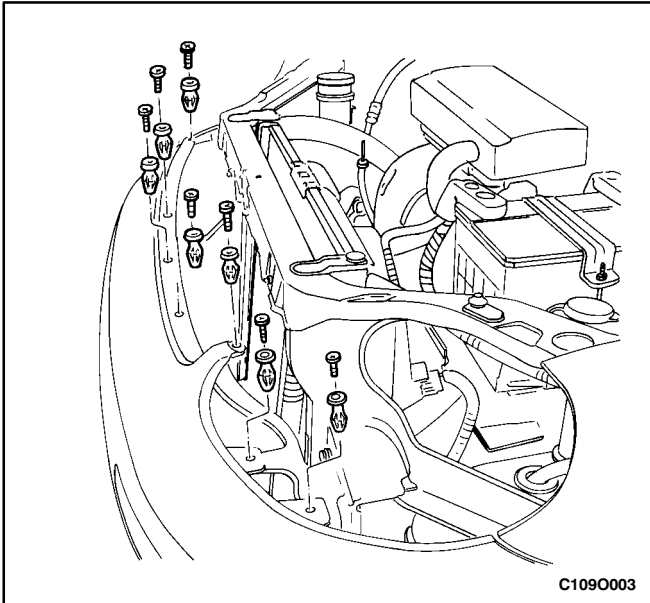
##### Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the front wheel well splash shields. Refer to *Section 9R, Body Front End*.
3. Remove the turn signal lamps, the fog lamps, and the headlamps. Refer to *Section 9B, Lighting Systems*.
4. Remove the fender-to-fascia bolts and the screws.



5. Remove the lower fascia screws and the bolts.

6. Remove the upper fascia screws.
7. Remove the front bumper fascia.

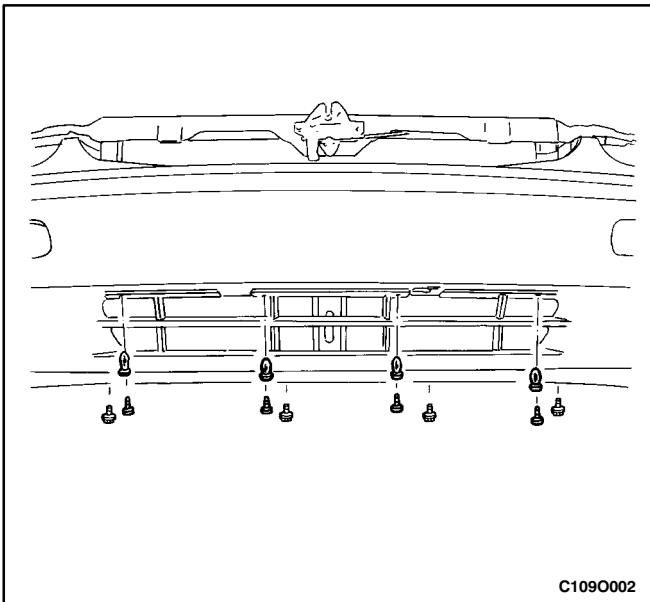


### Installation Procedure

1. Install the front bumper fascia.

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

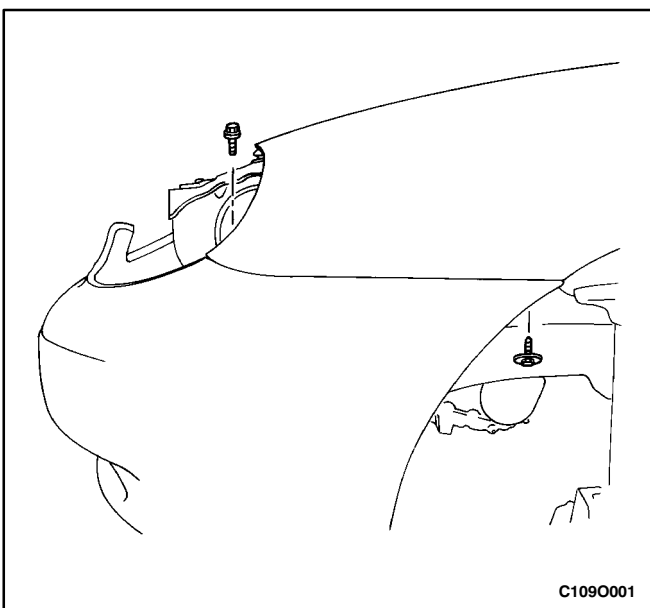
2. Install the upper fascia screws.



3. Install the lower fascia screws and the bolts.

### Tighten

Tighten the lower fascia bolts to 10 N•m (89 lb-in).



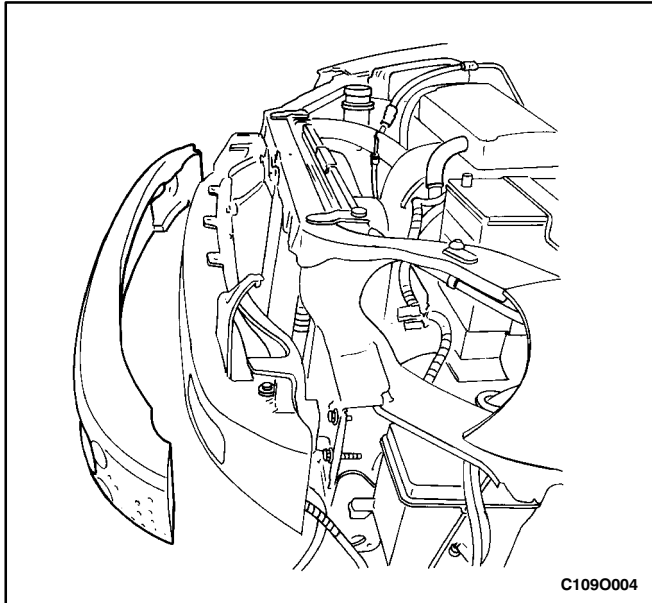
4. Install the fender-to-fascia bolts and the screws.

### Tighten

Tighten the fender-to-fascia bolts to 10 N•m (89 lb-in).

Tighten the fender-to-fascia screws to 2.5 N•m (22 lb-in).

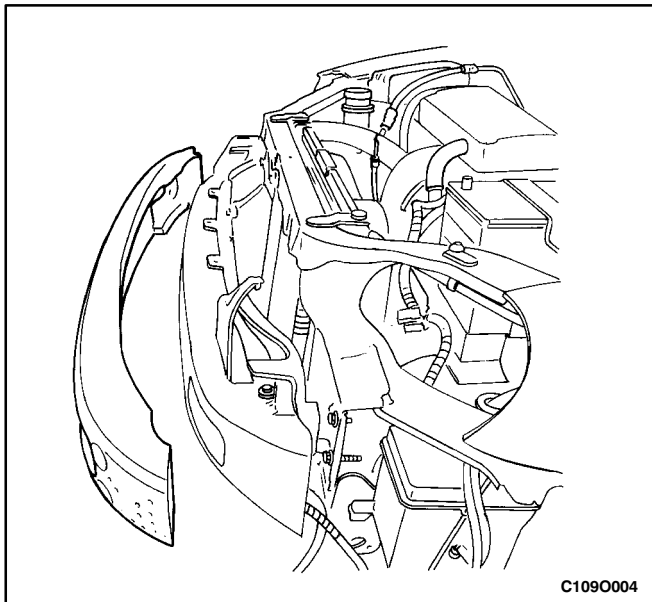
5. Install the headlamps, the fog lamps, and the turn signal lamps. Refer to *Section 9B, Lighting Systems*.
6. Install the front wheel well splash shields. Refer to *Section 9R, Body Front End*.
7. Connect the negative battery cable.



## FRONT BUMPER ENERGY ABSORBER (5 MPH BUMPER ASSEMBLY)

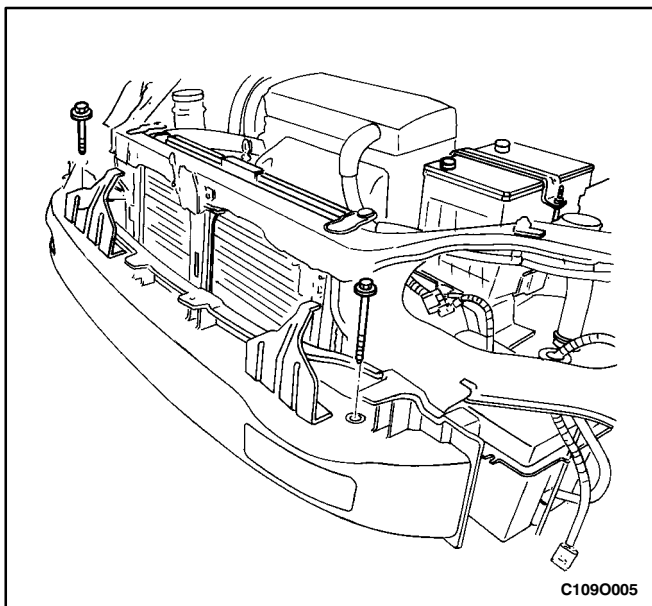
### Removal Procedure

1. Remove the front bumper fascia. Refer to "Front Bumper Fascia" in this section.
2. Remove the energy absorber.



### Installation Procedure

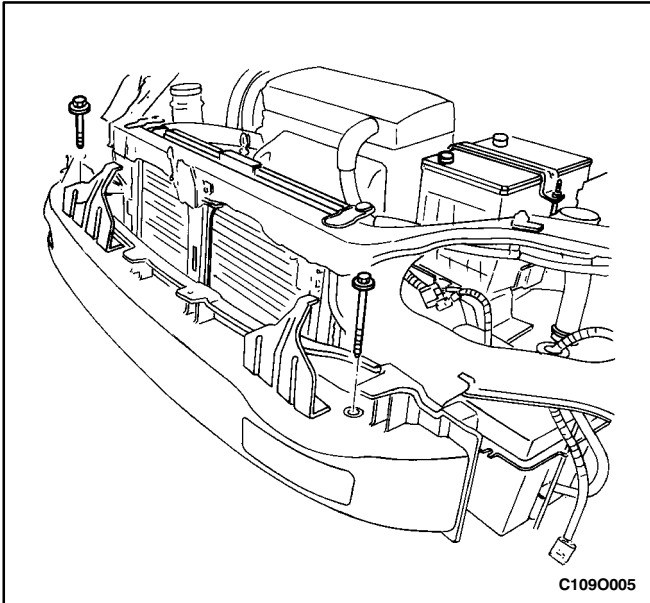
1. Install the energy absorber.
2. Install the front bumper fascia. Refer to "Front Bumper Fascia" in this section.



## FRONT BUMPER IMPACT BAR

### Removal Procedure

1. Remove the front bumper fascia. Refer to "Front Bumper Fascia" in this section.
2. Remove the front bumper energy absorber, if equipped. Refer to "Front Bumper Energy Absorber (5 mph Bumper Assembly)" in this section.
3. Disconnect the electrical connector.
4. Remove the bolts and the front bumper impact bar (5 mph bumper assembly shown, 2.5 mph bumper assembly similar).



## Installation Procedure

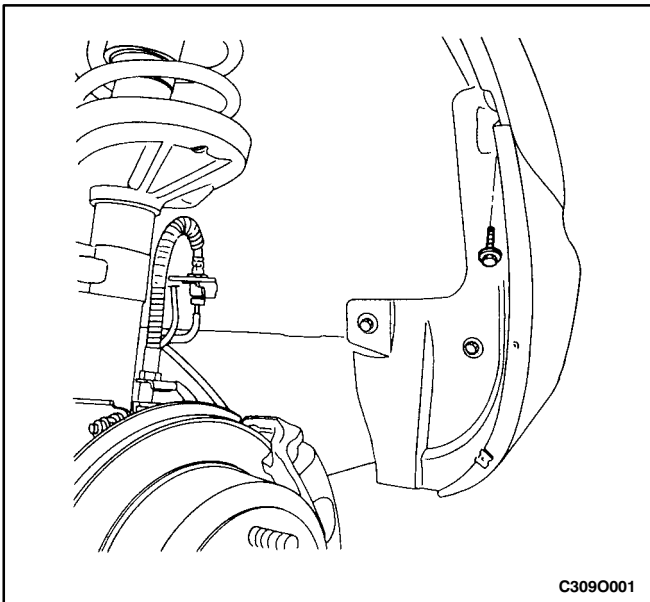
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the front impact bar with the bolts (5 mph bumper assembly shown, 2.5 mph bumper assembly similar).

### Tighten

Tighten the front impact bar bolts to 39 N•m (29 lb-ft).

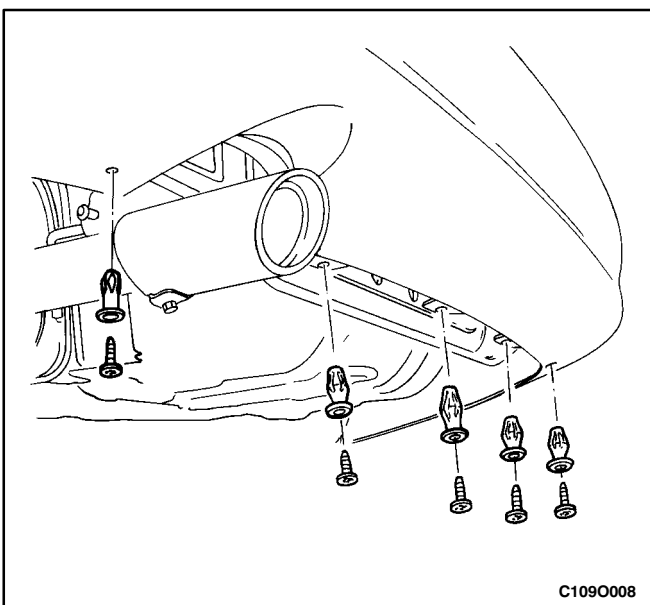
2. Connect the electrical connector.
3. Install the front bumper energy absorber, if equipped. Refer to "Front Bumper Energy Absorber (5 mph Bumper Assembly)" in this section.
4. Install the front bumper fascia. Refer to "Front Bumper Fascia" in this section.



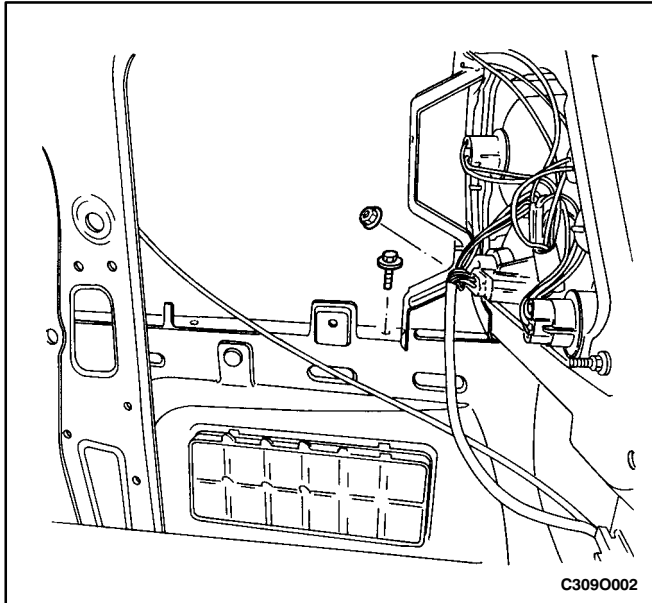
## REAR BUMPER FASCIA

### Removal Procedure

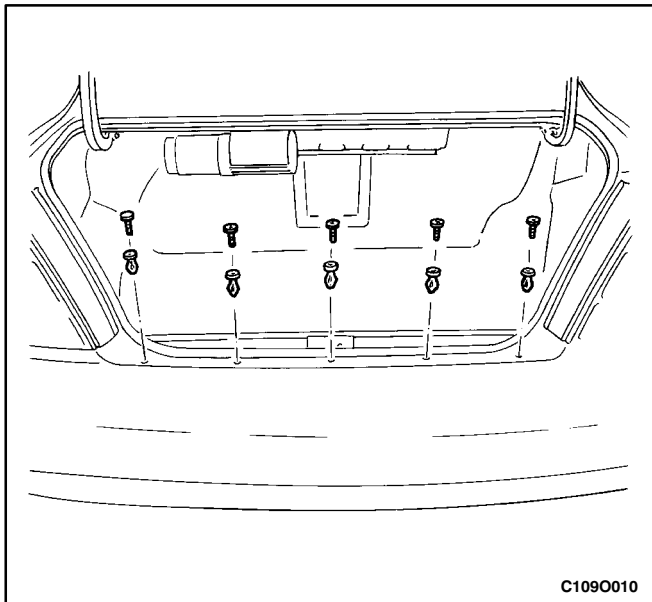
1. Remove the rear wheels. Refer to *Section 2E, Tires and Wheels*.
2. Remove the rear wheel mud guards. Refer to *Section 9M, Exterior Trim*.
3. Remove the fascia bolts at the top of the rear wheel wells.



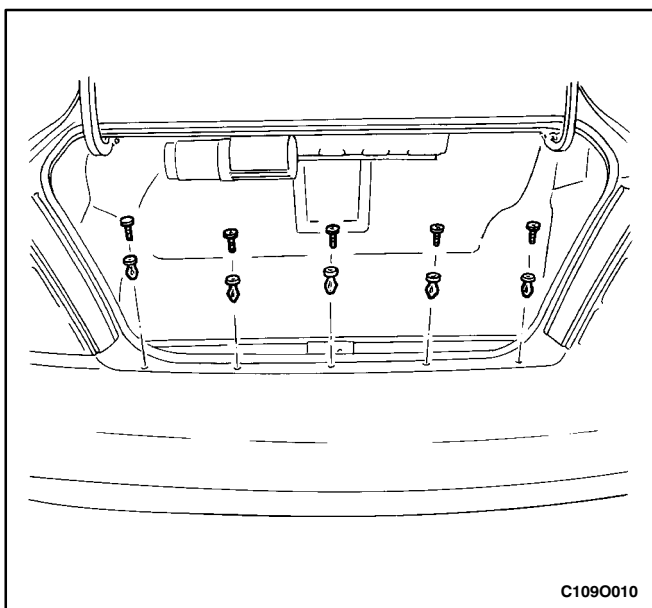
4. Remove the lower fascia screws.



5. Remove the luggage compartment wheelhouse trim panel. Refer to *Section 9G, Interior Trim*.
6. Remove the fascia bolts in the luggage compartment.

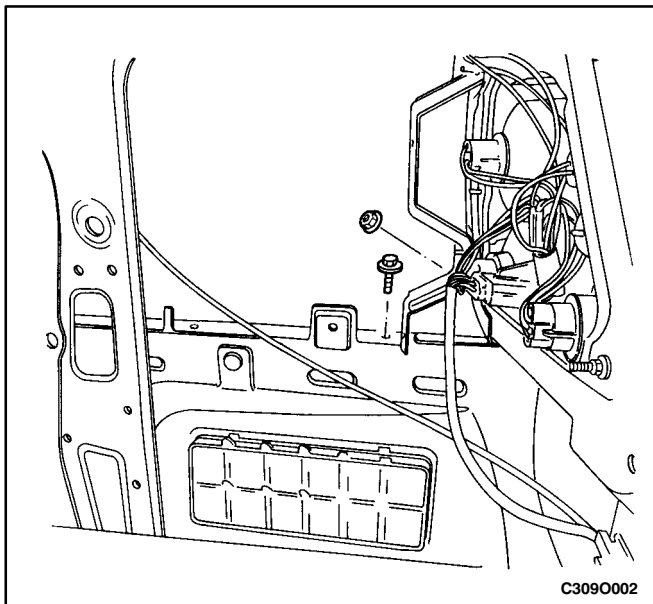


7. Remove the upper fascia screws.
8. Remove the fascia.



### Installation Procedure

1. Install the fascia.
2. Install the upper fascia screws.

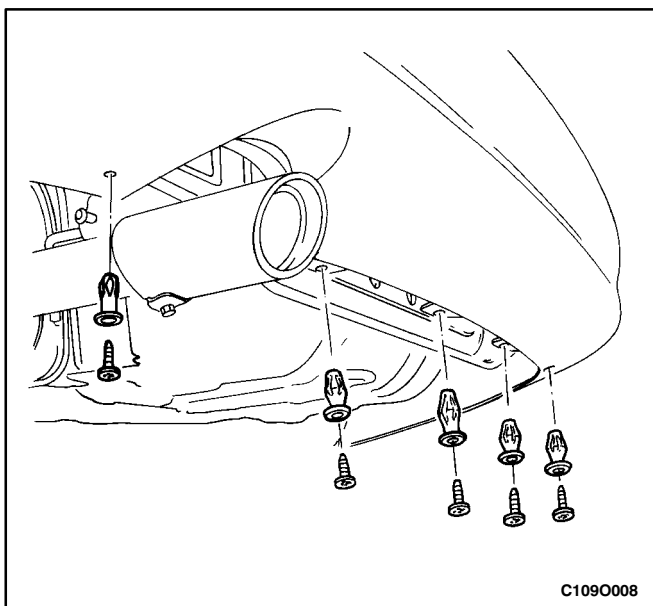


**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

3. Install the luggage compartment fascia bolts.

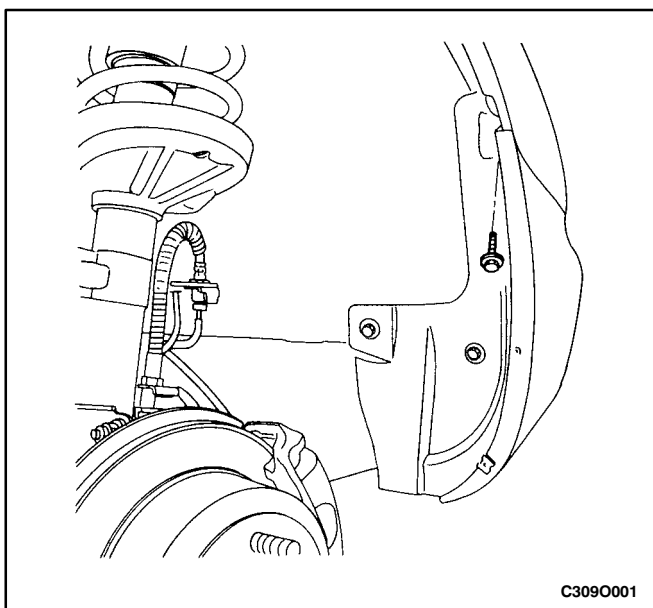
**Tighten**

Tighten the luggage compartment fascia bolts to 2 N•m (18 lb-in).



4. Install the luggage compartment wheelhouse trim panel. Refer to *Section 9G, Interior Trim*.

5. Install the lower fascia screws.



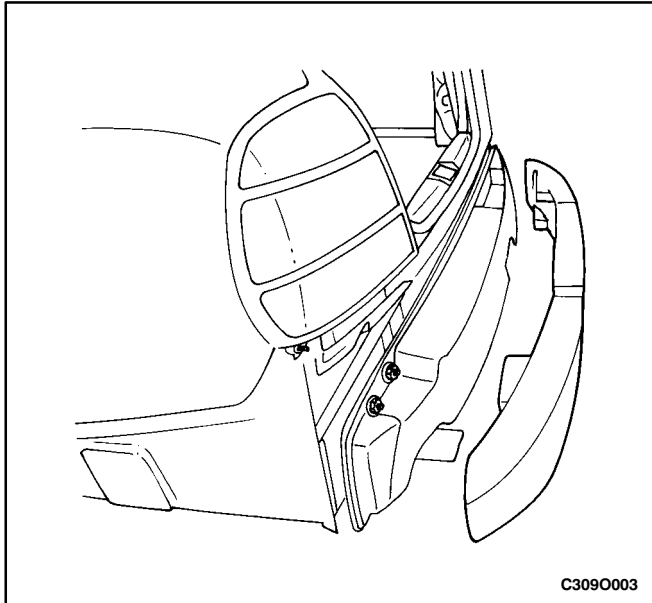
6. Install the rear wheel well fascia bolts.

**Tighten**

Tighten the rear wheel well fascia bolts to 2 N•m (18 lb-in).

7. Install the rear wheel mud guards. Refer to *Section 9M, Exterior Trim*.

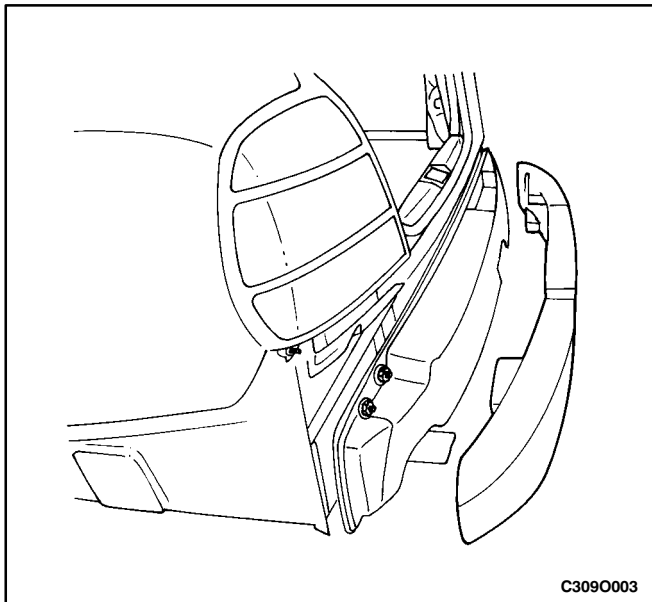
8. Install the rear wheels. Refer to *Section 2E, Tires and Wheels*.



## REAR BUMPER ENERGY ABSORBER (5 MPH BUMPER ASSEMBLY)

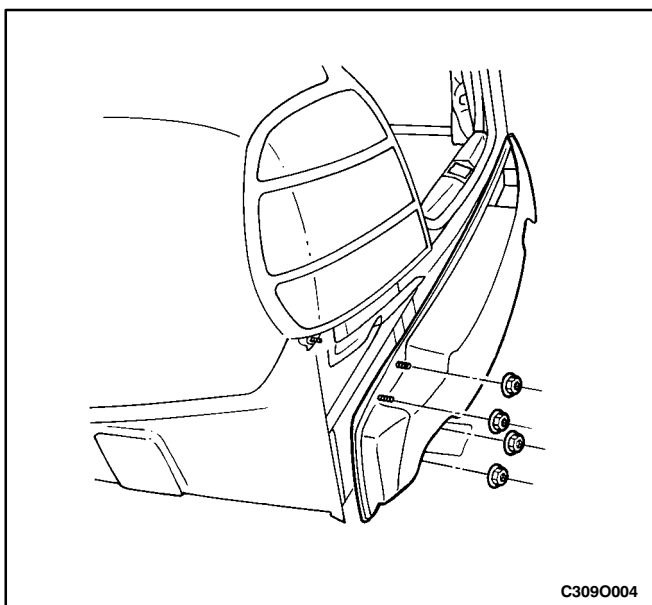
### Removal Procedure

1. Remove the rear bumper fascia. Refer to "Rear Bumper Fascia" in this section.
2. Remove the energy absorber.



### Installation Procedure

1. Install the energy absorber.
2. Install the rear bumper fascia. Refer to "Rear Bumper Fascia" in this section.

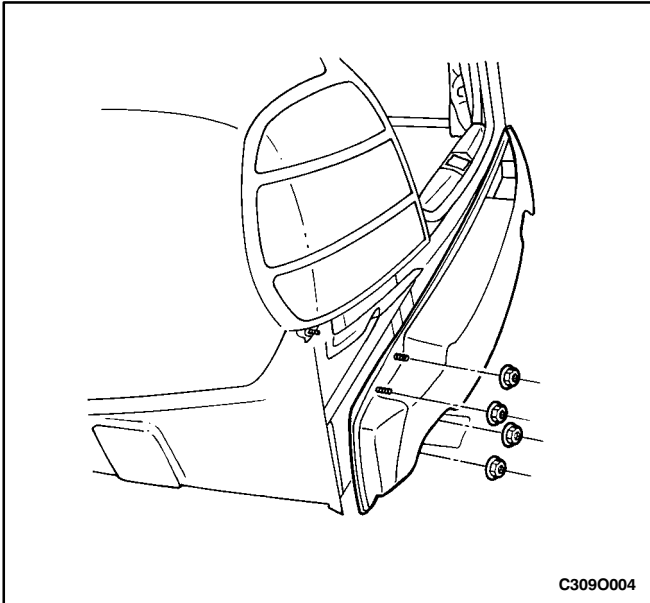


## REAR BUMPER IMPACT BAR

### Removal Procedure

1. Remove the rear bumper fascia. Refer to "Rear Bumper Fascia" in this section.
2. Remove the rear bumper energy absorber, if equipped. Refer to "Rear Bumper Energy Absorber (5 mph Bumper Assembly)" in this section.
3. Remove the nuts and the impact bar (5 mph bumper assembly shown, 2.5 mph bumper assembly similar).





## Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the impact bar with the nuts.

### Tighten

Tighten the rear impact bar nuts to 9 N•m (80 lb-in).

2. Install the rear bumper energy absorber, if equipped. Refer to "Rear Bumper Energy Absorber (5 mph Bumper Assembly)" in this section.
3. Install the rear bumper fascia. Refer to "Rear Bumper Fascia" in this section (5 mph bumper assembly shown, 2.5 mph bumper assembly similar).

## **GENERAL DESCRIPTION AND SYSTEM OPERATION**

### **BUMPERS**

The bumper systems are designed to sustain a collision into a fixed barrier at either 8 km/h (5 mph) or 4 km/h

(2.5 mph) without damage. After absorbing the energy of a collision, these bumper systems restore themselves to their original positions. The 8 km/h (5 mph) bumpers feature an internal foam energy absorber and a polymer fascia cover.