

SECTION : 9R

BODY FRONT END

TABLE OF CONTENTS

SPECIFICATIONS	9R-1	Hood Hinges	9R-3
Fastener Tightening Specifications	9R-1	Hood Prop Rod	9R-4
MAINTENANCE AND REPAIR	9R-2	Hood Secondary Latch	9R-4
ON-VEHICLE SERVICE	9R-2	Hood Latch Release Cable	9R-5
Lubrication	9R-2	Notchback Radiator Grille	9R-5
Fasteners	9R-2	Hatchback Radiator Grille	9R-6
Anticorrosion Materials	9R-2	Front Wheel Well Splash Shield	9R-6
Front End Sealing	9R-2	Fender	9R-7
Cowl Vent Grille	9R-2	GENERAL DESCRIPTION AND SYSTEM	
Hood	9R-3	OPERATION	9R-10
		Body Front End	9R-10

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
A-Pillar Fender Bolt	10	–	89
Fender Bolt (Front of Fascia)	4	–	35
Front Bumper Fascia-to-Fender Bolt	2.5	–	22
Hinge Bolts	27	20	–
Hood-to-Hinge Bolts	27	20	–
Hood Latch Bolts	8	–	71
Hood Release Handle Nuts	4	–	35
Lower Fender Bolt	10	–	89
Radiator Grille Nuts	4	–	35
Splash Shield screws	2	–	18
Upper Fender Bolts	10	–	89

MAINTENANCE AND REPAIR

ON-VEHICLE SERVICE

LUBRICATION

The hood hinges and the locking mechanisms require periodic lubrication for proper operation. Refer to *Section 0B, General Information* for the specific types and intervals of lubrication.

FASTENERS

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

Many aluminum components are used on current models. Aluminum in contact with steel may corrode rapidly if it is not protected by special finishes or isolators.

The fasteners used have a special finish which provides adequate protection from corrosion. These special fasteners differ in color in order to easily identify them from the standard metric fasteners, which are medium blue.

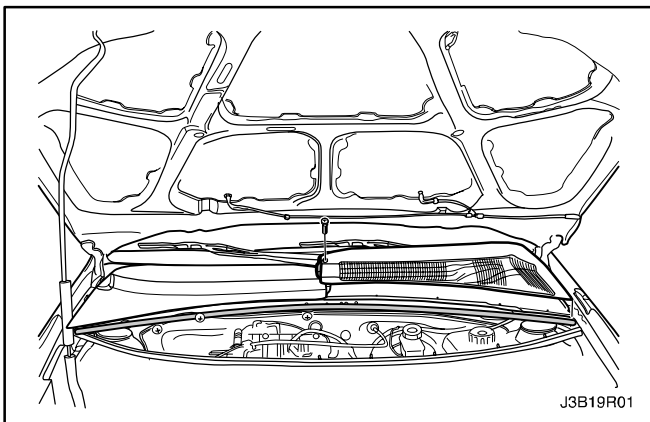
When replacing fasteners, avoid substituting otherwise similar fasteners in the same location.

ANTICORROSION MATERIALS

In order to provide rust resistance, anticorrosion materials have been applied to the interior surfaces of most of the metal panels. When you service these panels, properly re-coat them with a service-type anticorrosion material if any of the original material has been disturbed.

FRONT END SEALING

All locations where waterleaks may occur are sealed during production with high quality, durable sealers. If it becomes necessary to reseal specific areas, use a high-quality sealer of medium-bodied consistency which will retain its flexible characteristics after curing and can be painted, if necessary.

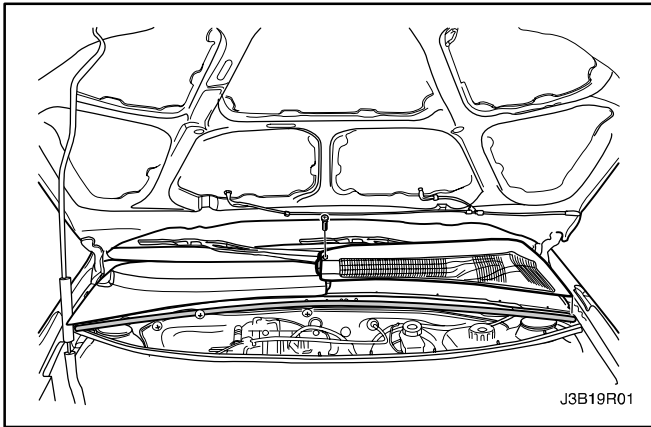


COWL VENT GRILLE

(Left-Hand Drive Shown, Right-Hand Drive Similar)

Removal Procedure

1. Raise the hood and support it with the hood prop.
2. Remove the weatherstrip.
3. Remove the wiper arms. Refer to *Section 9D, Wipers/Washer Systems*.
4. Remove the cowl vent grille screws and the two-piece grille.



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 two-piece grille and the cowl vent grille screws.

Tighten

Tighten the cowl vent grille screws to 4•NSm (35 lb-in).

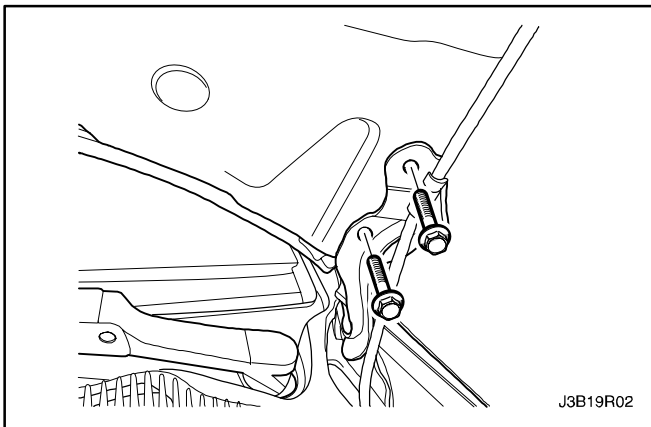
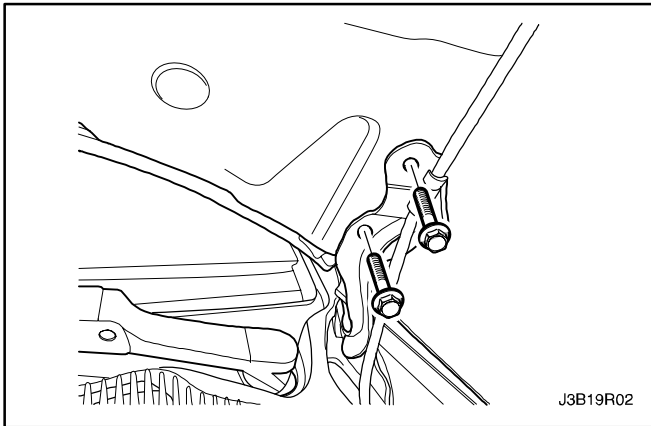
2. Remove the wiper arms. Refer to *Section 9D, Wipers/Washer Systems*.
3. Install the weatherstrip.

HOOD

Removal Procedure

Notice : Install protective coverings over the fenders and the windshield in order to prevent damage to the paint, the glass and the moldings when you are removing and installing the hood.

1. Raise and support the hood.
2. Mark the position of the hinge to the hood to facilitate alignment during installation.
3. Remove the bolts that retain the hood to both hinges.
4. With the aid of another technician, remove the hood from the hinges.



Installation Procedure

1. With the aid of another technician, position the hood in the location marked during removal.

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 two bolts securing the hood to each hinge.

Tighten

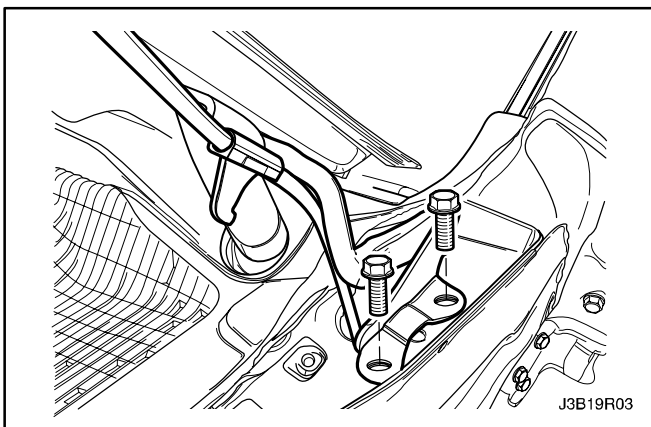
Tighten the hood-to-hinge bolts to 27 N•m (20 lb-ft).

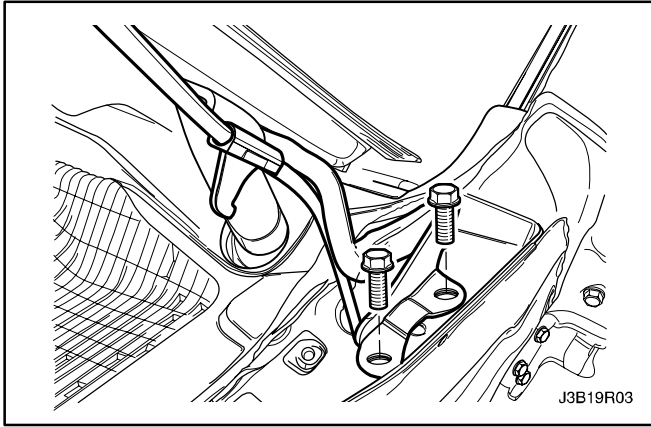
3. Inspect the hood for proper alignment.

HOOD HINGES

Removal Procedure

1. Remove the hood. Refer to "Hood" in this section.
2. Remove the bolts and the hinge.





Installation Procedure

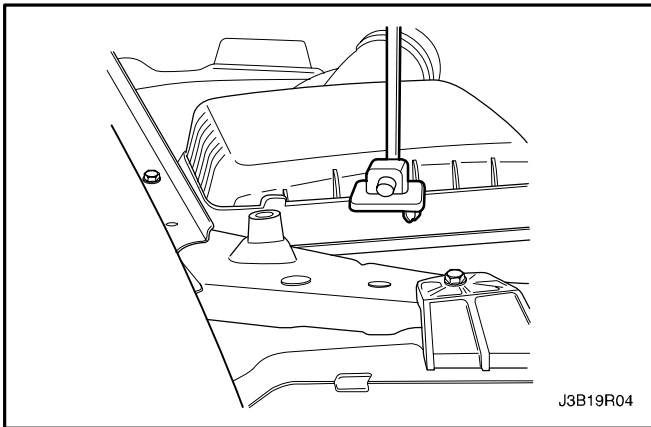
Notice : Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the hinge with the bolts.

Tighten

Tighten the hinge bolts to 27 N•m (20 lb–ft).

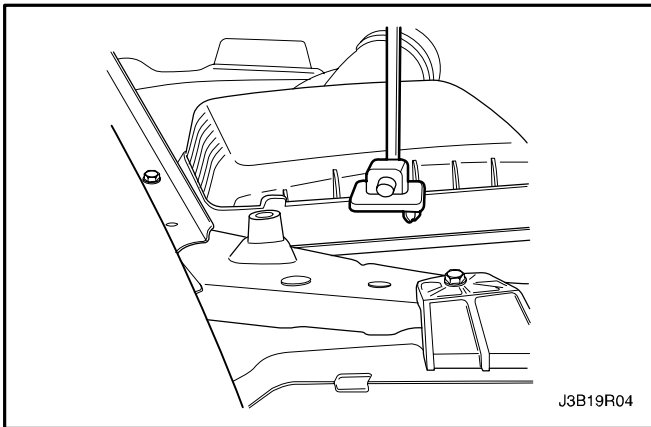
2. Install the hood. Refer to "Hood" in this section.



HOOD PROP ROD

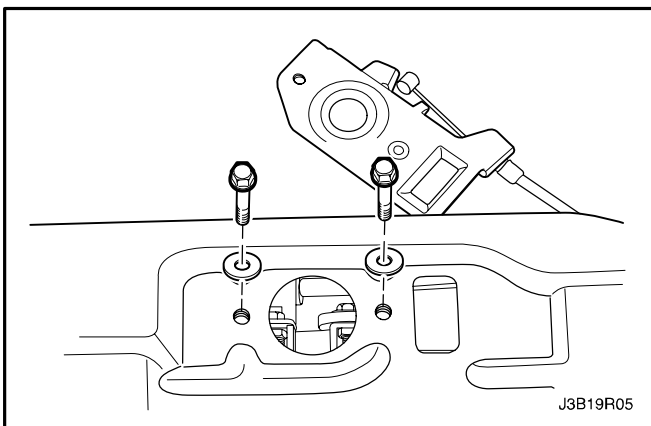
Removal Procedure

1. Support the hood in the open position.
2. Remove the hood prop rod by gently prying the base from the radiator support.



Installation Procedure

1. Install the hood prop rod by snapping the base back into the radiator support.

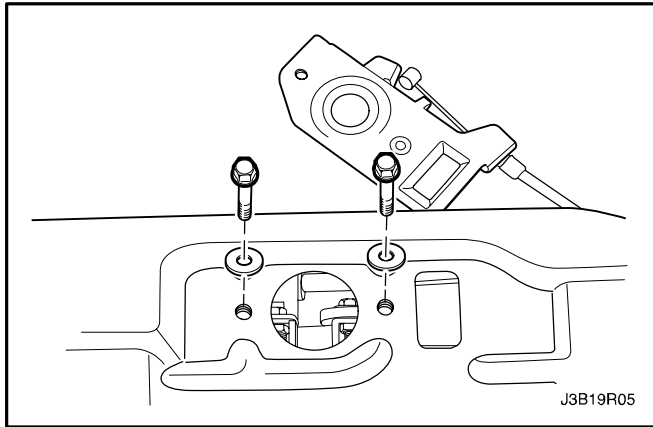


HOOD SECONDARY LATCH

(Left-Hand Drive Shown, Right-Hand Drive Similar)

Removal Procedure

1. Open the hood.
2. Mark the position of the hood latch on the radiator support to facilitate alignment during installation.
3. Remove the bolts and the hood latch.



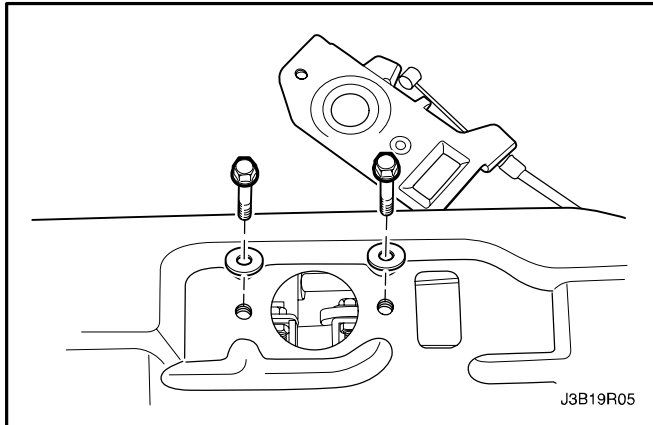
Installation Procedure

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

1. Position the hood latch in the location marked during removal.
2. Install the hood latch with the bolts.

Tighten

Tighten the hood latch bolts to 8 N•m (71 lb-in).



HOOD LATCH RELEASE CABLE

(Left-Hand Drive Shown, Right-Hand Drive Similar)

Removal Procedure

1. Remove the screws and the hood release handle from the instrument panel.
2. Open the hood.
3. Remove the bolts and the hood latch release.
4. Remove the cable from the hood latch release assembly.
5. Remove the cable from the engine compartment.

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 radiator grille with the screws.
2. Install the cable into the hood latch release handle.
3. Install the hood release handle on the instrument panel with the screws.

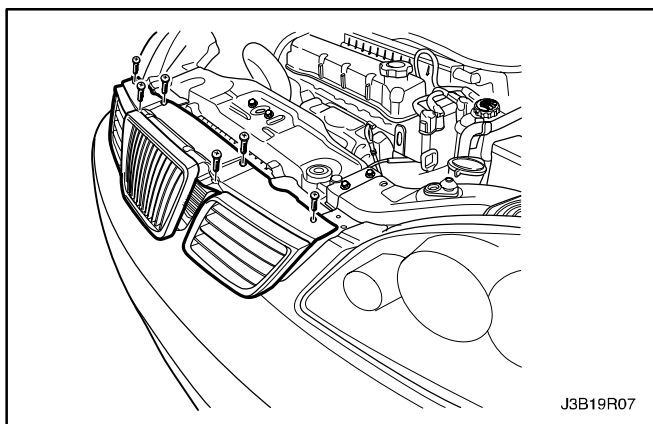
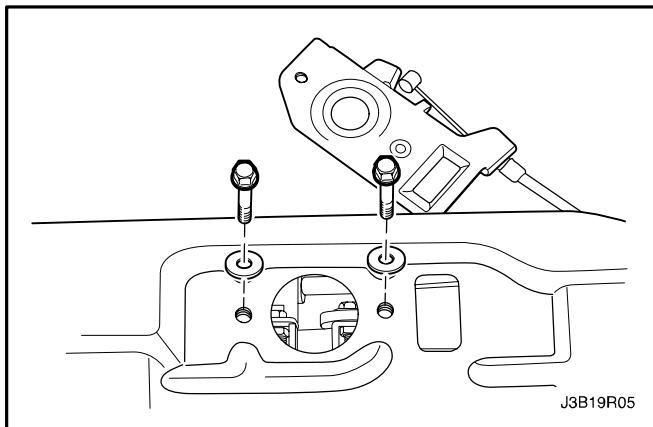
Tighten

Tighten the hood release handle screws to 4 N•m (35 lb-in).

4. Install the cable to the hood latch release assembly.
5. Install the hood latch release assembly with the bolts.

Tighten

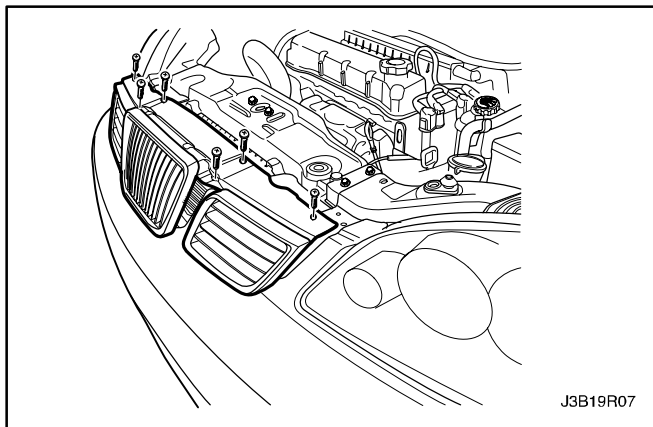
Tighten the hood latch bolts to 8 N•m (71 lb-in).



NOTCHBACK RADIATOR GRILLE

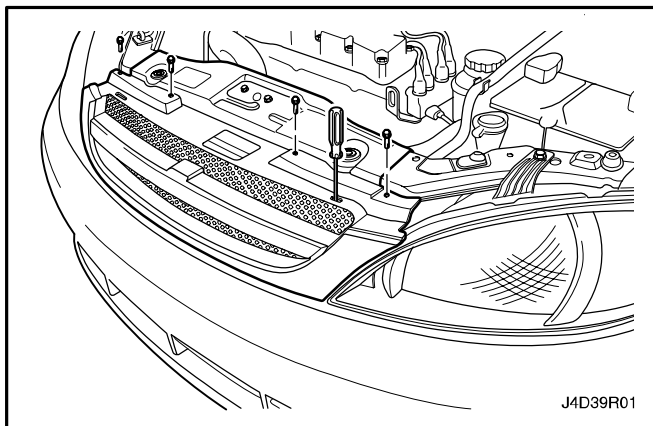
Removal Procedure

1. Open the hood.
2. Remove the screws and clips at lower area of the radiator grille.



Installation Procedure

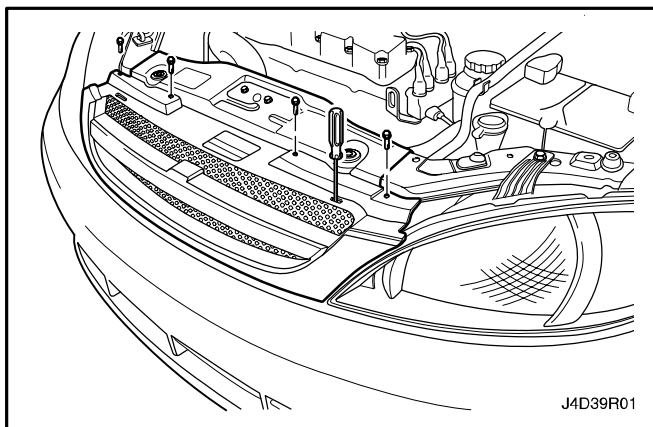
1. Install the radiator grille with the screws and clips.



HATCHBACK RADIATOR GRILLE

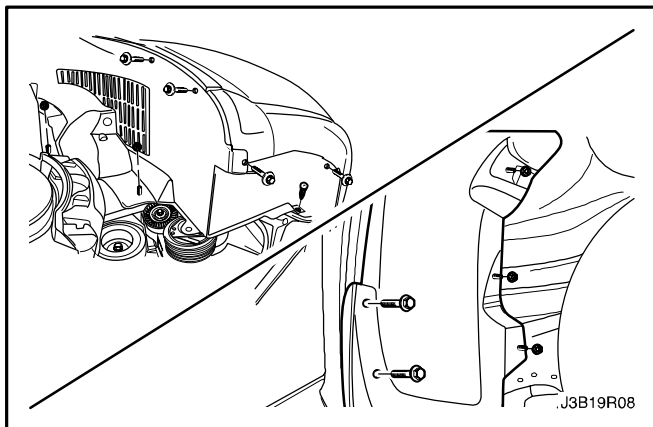
Removal Procedure

1. Open the hood.
2. Remove the screws.
3. Pry the clips with the screw driver.



Installation Procedure

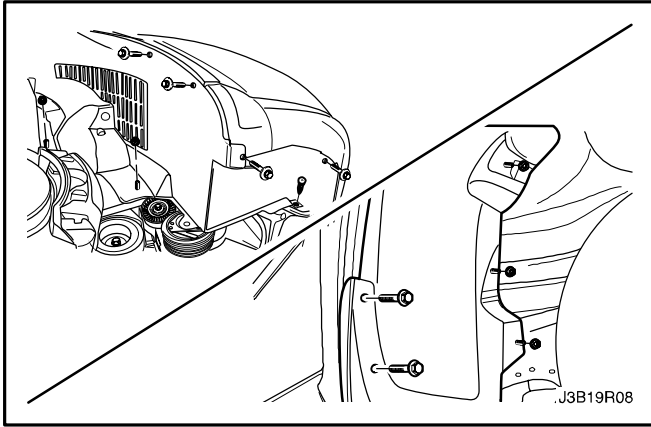
1. Install the radiator grille with the screws.



FRONT WHEEL WELL SPLASH SHIELD

Removal Procedure

1. Raise and suitably support the vehicle.
2. Remove the front wheel. Refer to *Section 2E, Tires and Wheels*.
3. Remove the front mud guard. Refer to *Section 9M, Exterior Trim*.
4. Remove the screws and the front wheel well splash shield.



Installation Procedure

1. Install the screws and the front wheel well splash shield.

Tighten

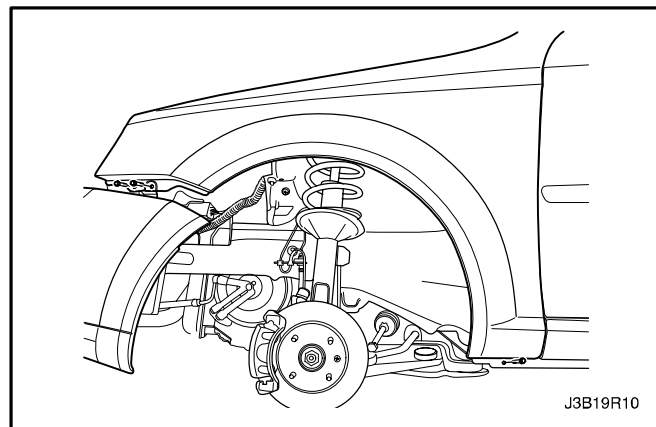
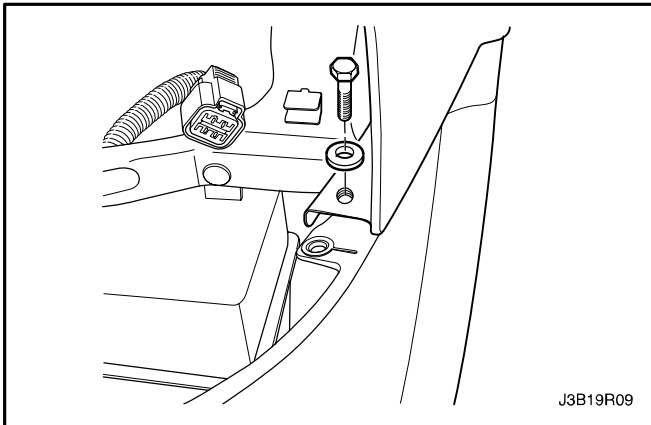
Tighten the front wheel well splash shield screws to 2 N•m (18 lb-in).

2. Install the front mud guard. Refer to *Section 9M, Exterior Trim*.
3. Install the front wheel. Refer to *Section 2E, Tires and Wheels*.
4. Lower the vehicle.

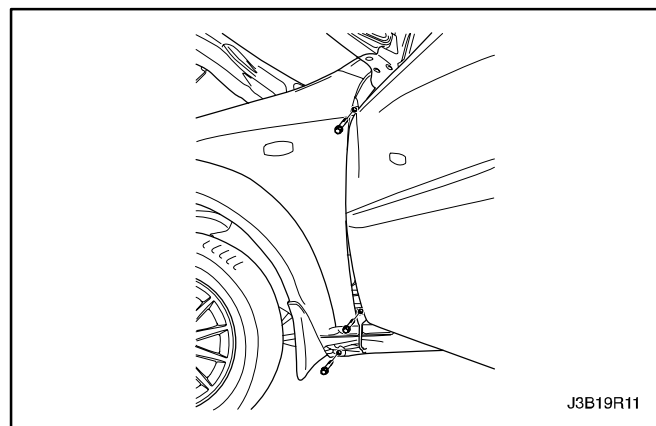
FENDER

Removal Procedure

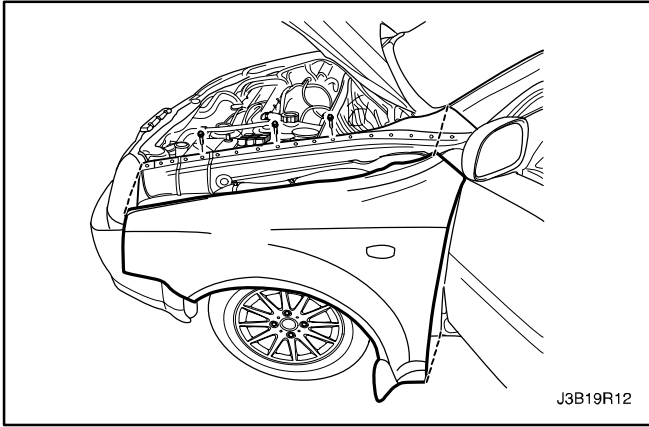
1. Remove the front wheel well splash shield. Refer to "Front Wheel Well Splash Shield" in this section.
2. Reposition the front headlamp.
3. Remove the bolts securing the front fascia to the fender.



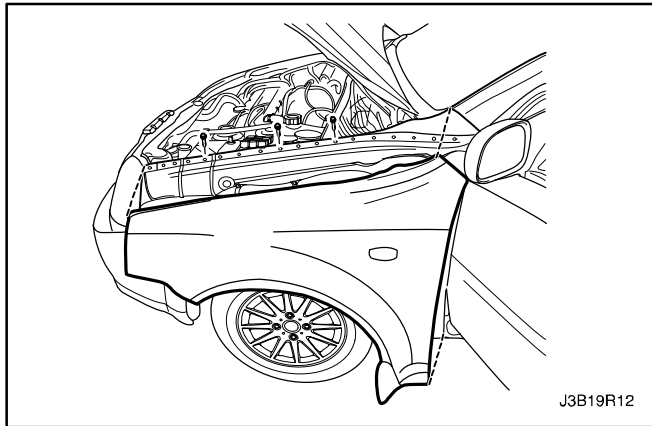
4. Reposition the front fascia.
5. Remove the fender bolts behind the front fascia.
6. Remove the bolts at the base of the fender.



7. Open the front door and remove the bolt at the base of the A-pillar.



8. Reposition the cowl vent grille weatherstrip.
9. Remove the upper fender bolts and the fender.



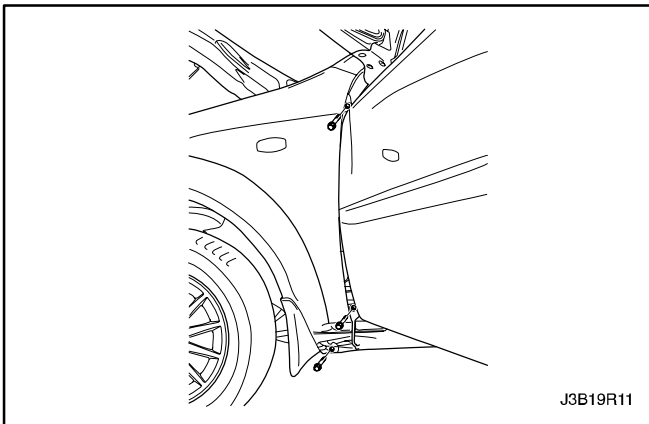
Installation Procedure

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 fender with the upper fender bolts.

Tighten

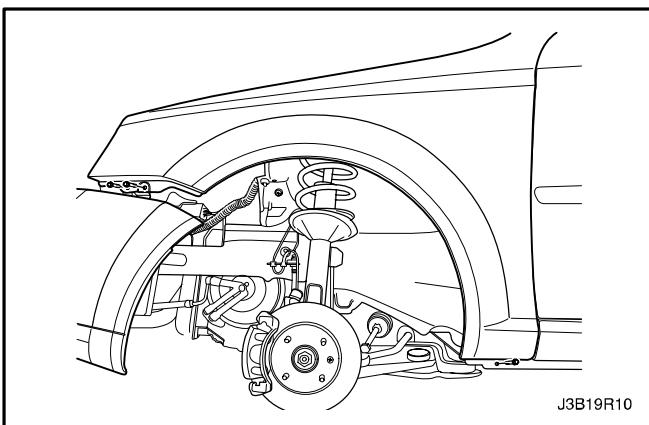
Tighten the upper fender bolts to 10 N•m (89 lb-in).



2. Reposition the cowl vent grille weatherstrip to its original position.
3. Install the bolt at the base of the A-pillar.

Tighten

Tighten the A-pillar fender bolt to 10 N•m (89 lb-in).



4. Install the bolts at the base of the fender.

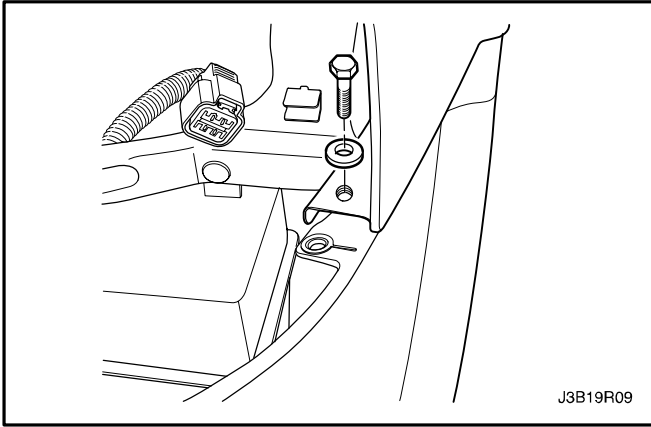
Tighten

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

5. Install the front fender bolts behind the front fascia.

Tighten

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



6. Install the front fascia to its original position.
7. Install the bolts securing the front fascia to the fender.

Tighten

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

8. Install the front headlamp to its original position.
9. Install the front wheel well splash shield. Refer to "Front Wheel Well Splash Shield" in this section.

GENERAL DESCRIPTION AND SYSTEM OPERATION

BODY FRONT END

This vehicle has a unitized body with a frame assembly supporting the engine and the transaxle. The fender panels and the radiator support are also integral parts of the body.