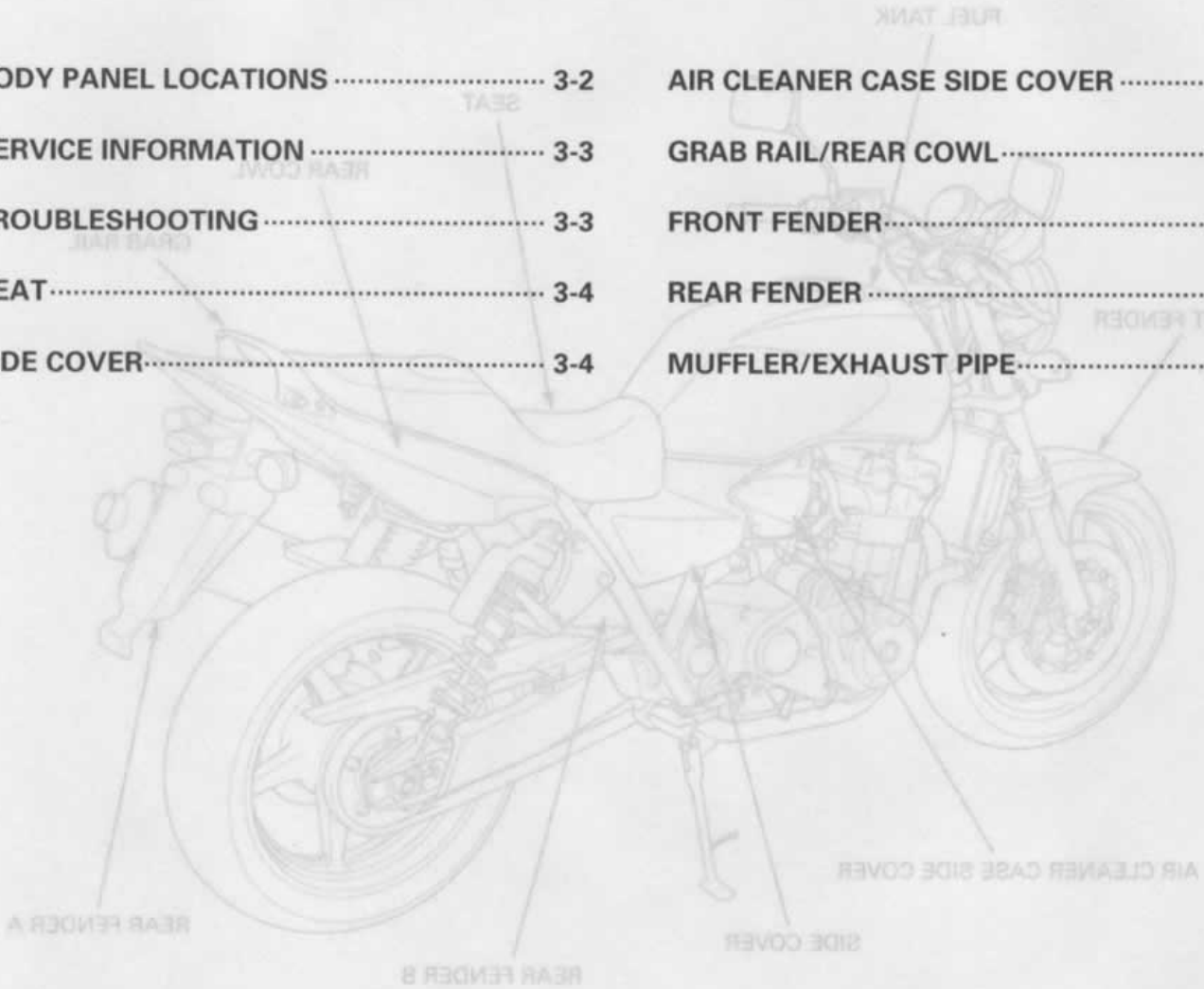


# 3. FRAME/BODY PANELS/EXHAUST SYSTEM

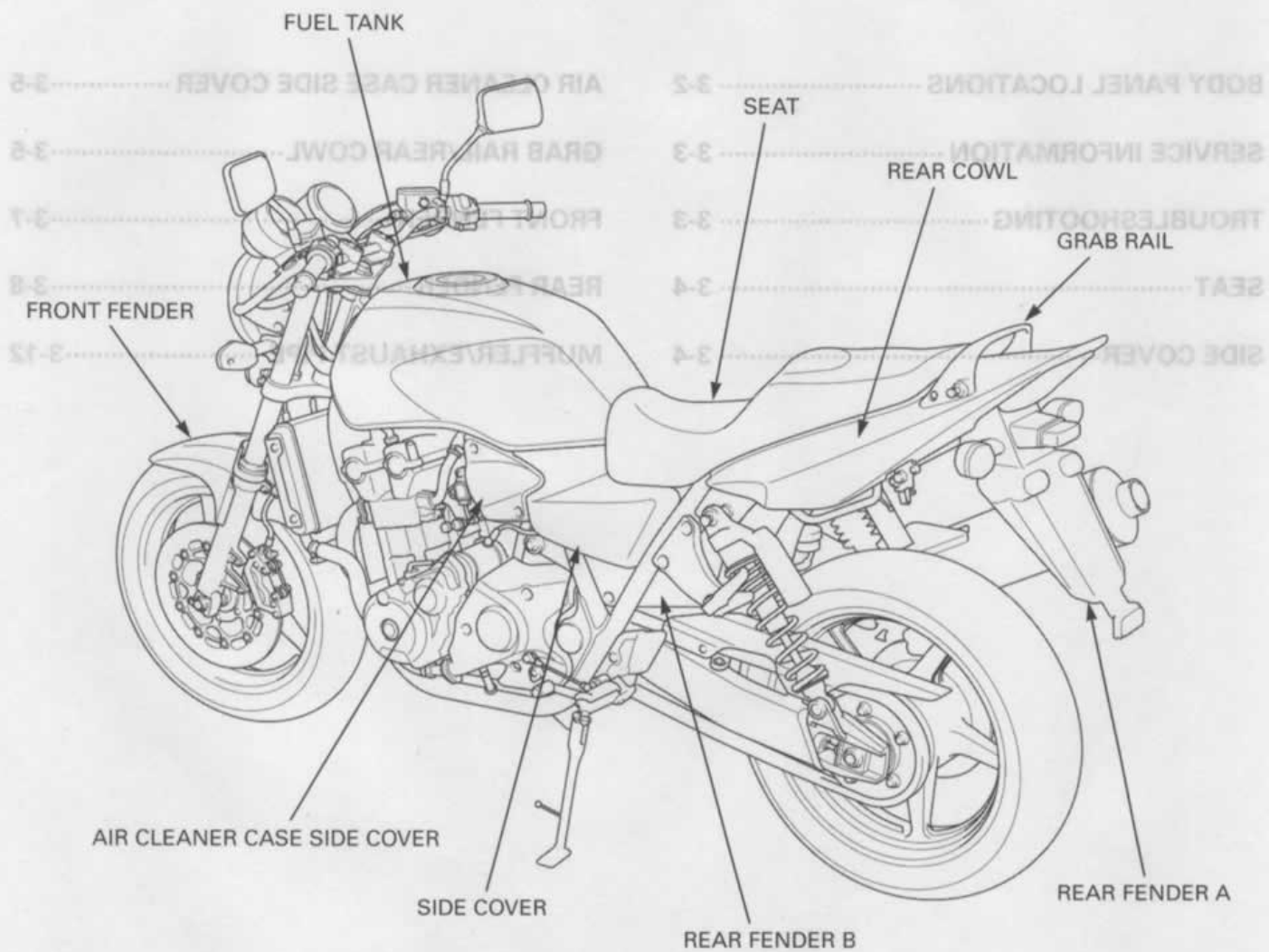
BODY PANEL LOCATIONS

3

BODY PANEL LOCATIONS .....	3-2	AIR CLEANER CASE SIDE COVER .....	3-5
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## BODY PANEL LOCATIONS



## SERVICE INFORMATION

### GENERAL

- Work in a well ventilated area. Smoking or allowing flames or sparks in the work area or where gasoline is stored can cause a fire or explosion.
- This section covers removal and installation of the body panels and exhaust system.
- Serious burns may result if the exhaust system is not allowed to cool before components are removed or serviced.
- Always replace the exhaust pipe gaskets after removing the exhaust pipe from the engine.
- When installing the exhaust system, loosely install all of the exhaust pipe fasteners. Always tighten the exhaust clamps first, then tighten the mounting fasteners. If you tighten the mounting fasteners first, the exhaust pipe may not seat properly.
- Always inspect the exhaust system for leaks after installation.

### TORQUE VALUES

Grab rail mounting 6 mm bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)
Grab rail mounting 8 mm bolt	26 N·m (2.7 kgf·m, 20 lbf·ft)
Rear fender A stay mounting bolt	32 N·m (3.3 kgf·m, 24 lbf·ft)
Exhaust pipe joint cap nut	12 N·m (1.2 kgf·m, 9 lbf·ft)
Muffler band flange bolt	22 N·m (2.2 kgf·m, 16 lbf·ft)
Exhaust pipe mounting bolt/nut	22 N·m (2.2 kgf·m, 16 lbf·ft)
Muffler mounting bolt/nut	22 N·m (2.2 kgf·m, 16 lbf·ft)

### TROUBLESHOOTING

#### Excessive exhaust noise

- Broken exhaust system
- Exhaust gas leak

#### Poor performance

- Deformed exhaust system
- Exhaust gas leak
- Clogged muffler



**REMOVAL/INSTALLATION**

Remove seat (page 3-4).

Remove the side cover mounting bolt.

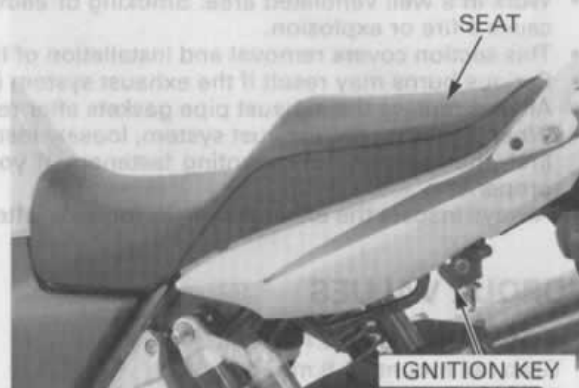
Release the tabs of the side cover from the fuel tank and frame grommets. Then remove the side cover.

## SEAT

### REMOVAL

Unhook the seat with the ignition key.

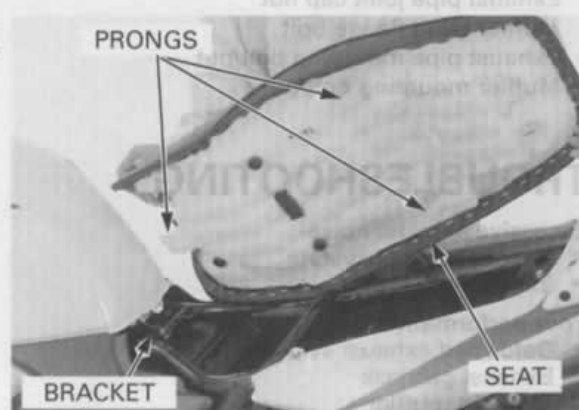
Pull the seat back and remove it.



### INSTALLATION

Install the seat, inserting the prong into the retainer on the fuel tank rear bracket and the hooks into the catches on the frame.

Push the seat forward, then down to lock it.



## SIDE COVER

### REMOVAL/INSTALLATION

Remove seat (page 3-4).

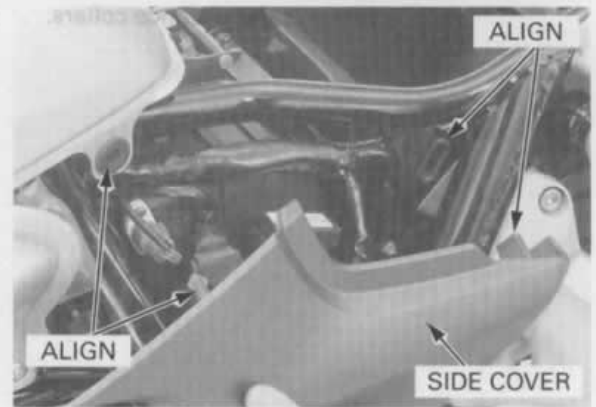
Remove the side cover mounting bolt.

Release the tabs of the side cover from the fuel tank and frame grommets, then remove the side cover.



Install the side cover while aligning its tabs with the grommet on the fuel tank and frame.  
Install and tighten the mounting bolt securely.

Install the seat (page 3-4).



## AIR CLEANER CASE SIDE COVER

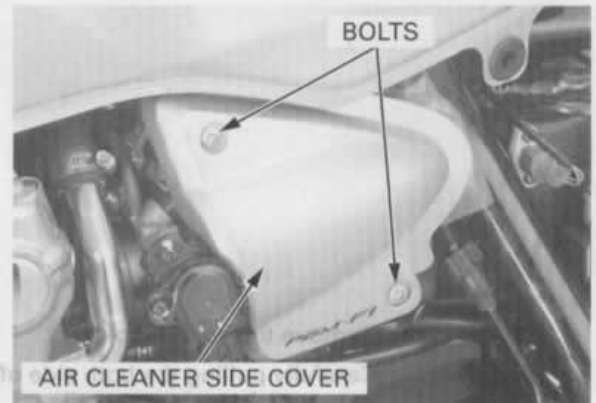
### REMOVAL/INSTALLATION

Remove the following:

- Seat (page 3-4)
- Side cover (page 3-4)

Remove the bolts and air cleaner case side cover.

Installation is in the reverse order of removal.

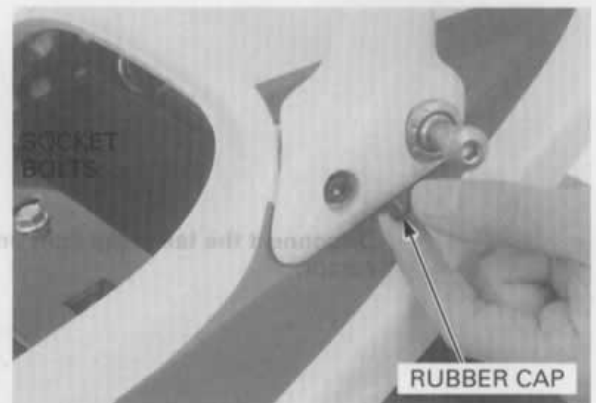


## GRAB RAIL/REAR COWL

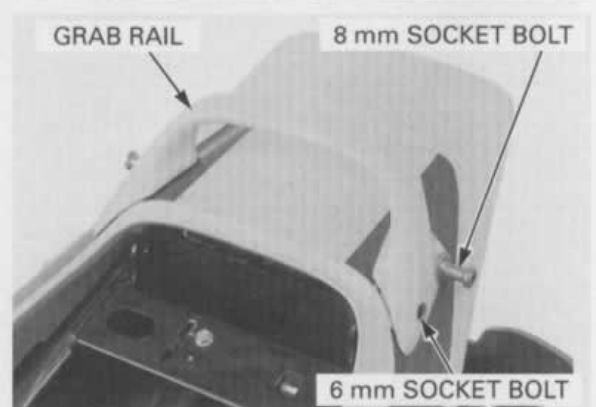
### REMOVAL

Remove the seat (page 3-4).

Remove the rubber caps.



Remove the two 8 mm socket bolts, two 6 mm socket bolts and grab rail.

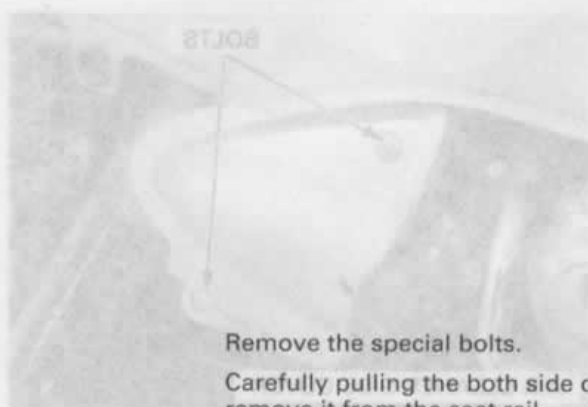


## FRAME/BODY PANELS/EXHAUST SYSTEM

Remove the distance collars.



Remove the trim clips.



Remove the special bolts.

Carefully pulling the both side of the rear cowl, then remove it from the seat rail.



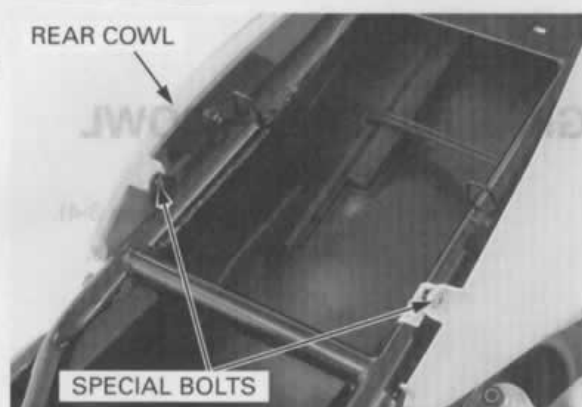
Disconnect the tail/brake light unit 3P (Natural) connector.



DISTANCE COLLAR



TRIM CLIP



REAR COWL

SPECIAL BOLTS



3P (NATURAL) CONNECTOR

## INSTALLATION

Installation is in the reverse order of removal.

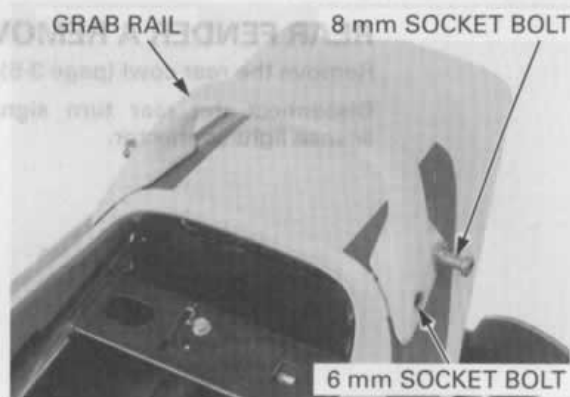
Make sure that the mating surfaces of the cowl bottom are seated onto the rear fender properly before tightening the fasteners.

Tighten the rear cowl screws and grab rail mounting bolts to the specified torque.

### TORQUE:

6 mm socket bolt: 12 N·m (1.2 kgf·m, 9 lbf·ft)

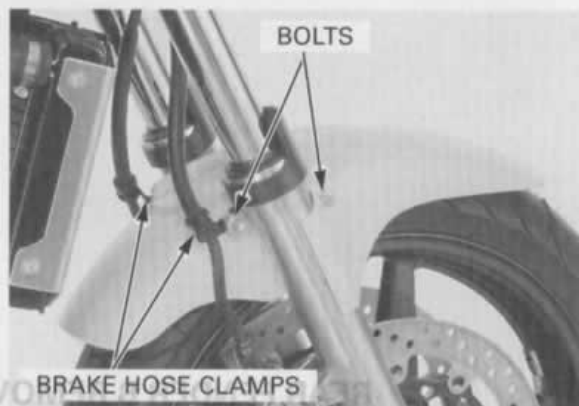
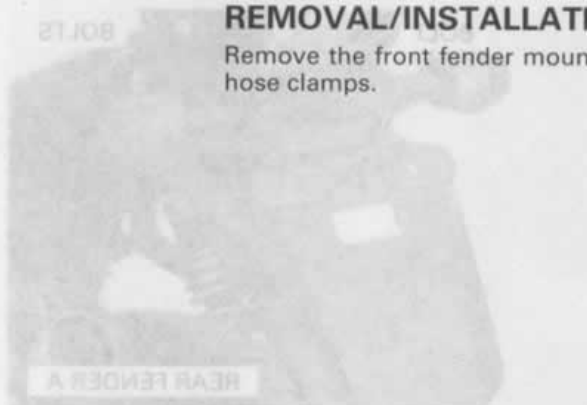
8 mm socket bolt: 26 N·m (2.7 kgf·m, 20 lbf·ft)



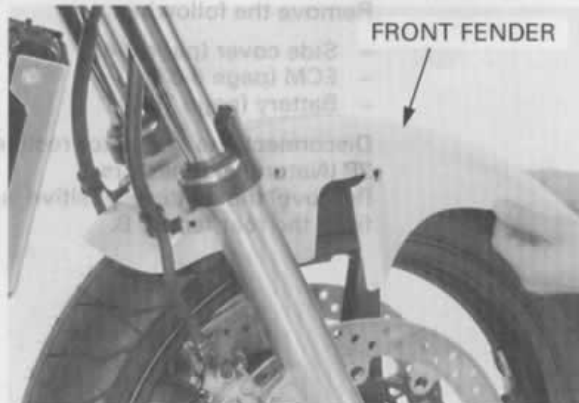
## FRONT FENDER

### REMOVAL/INSTALLATION

Remove the front fender mounting bolts and brake hose clamps.



Pull the front fender forward and then remove it. Installation is in the reverse order of removal.



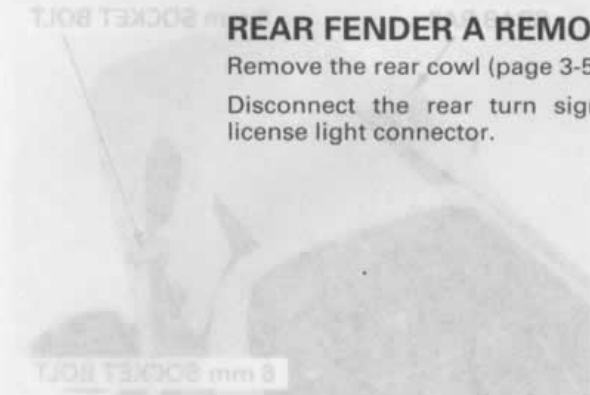


## REAR FENDER

### REAR FENDER A REMOVAL

Remove the rear cowl (page 3-5).

Disconnect the rear turn signal connectors and license light connector.



Remove the bolts and rear fender A.



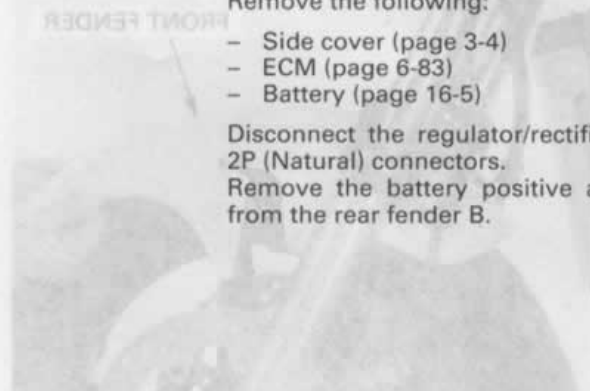
### REAR FENDER B REMOVAL

Remove the following:

- Side cover (page 3-4)
- ECM (page 6-83)
- Battery (page 16-5)

Disconnect the regulator/rectifier 3P (Natural) and 2P (Natural) connectors.

Remove the battery positive and negative cables from the rear fender B.



Remove the vacuum hose from the variable intake solenoid valve vacuum chamber.  
Remove the screw and vacuum chamber.

TURN SIGNAL CONNECTORS



BOLT

BOLTS



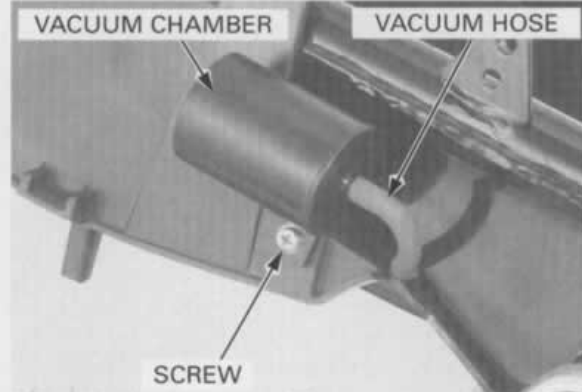
2P (NATURAL) CONNECTOR



3P (NATURAL) CONNECTOR

VACUUM CHAMBER

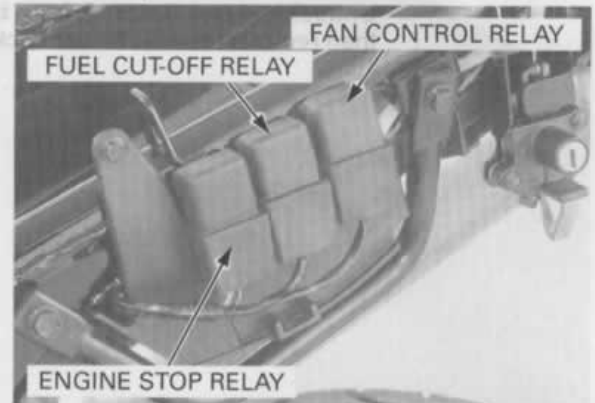
VACUUM HOSE



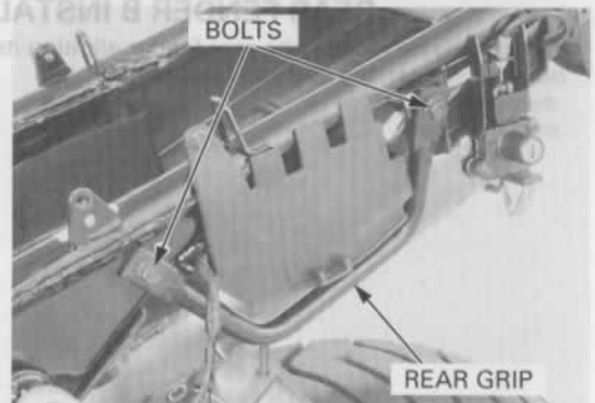
SCREW



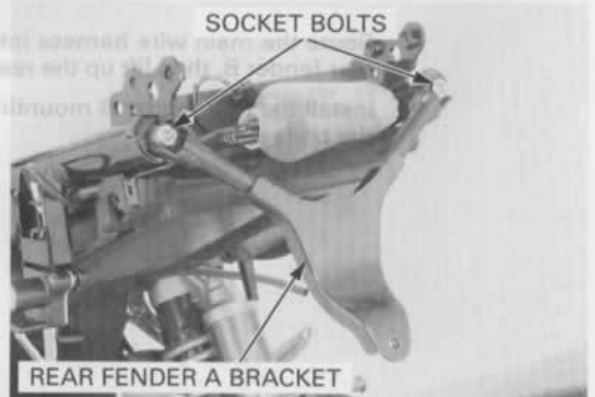
Remove the fan control relay, fuel cut-off relay and engine stop relay from the rear fender bosses.



Remove the bolts and rear grip.



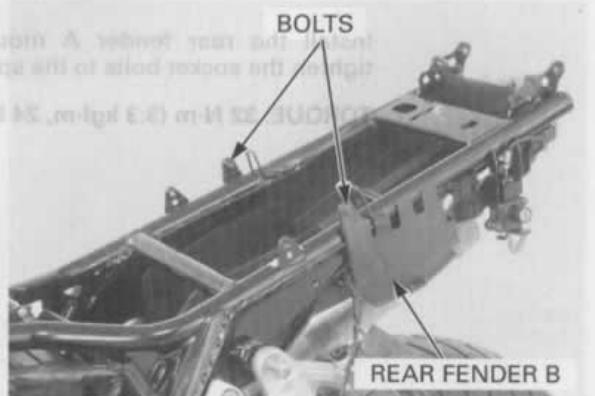
Remove the socket bolts and rear fender A bracket.



Remove the two rear fender mounting bolts.

Lower the rear fender B.

Be careful not to damage the wire harness and regulator/rectifier.



Unhook the rear fender B from the seat rail bosses, then remove the rear fender backward.



## REAR FENDER B INSTALLATION

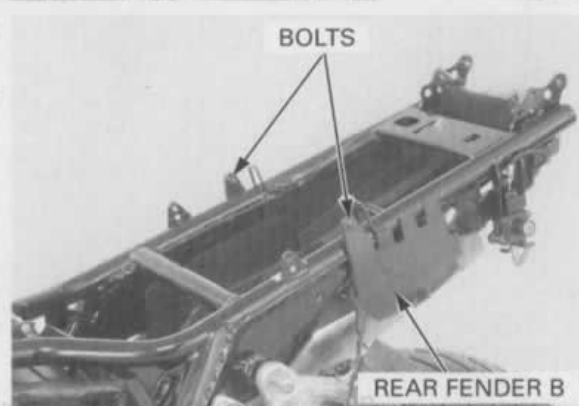
While installing the rear fender, route the wire harness properly (page 1-23).

Install the rear fender aligning its lower groove with the seat rail bosses.



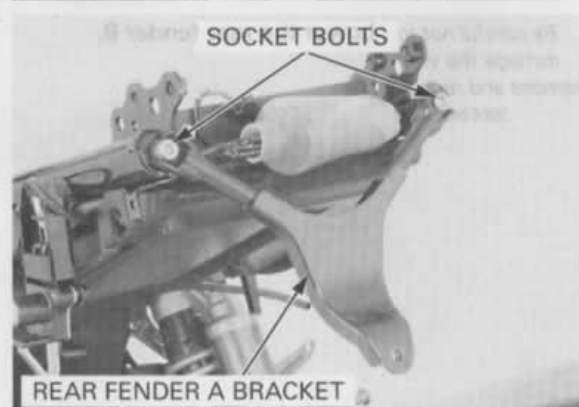
Route the main wire harness into the groove of the rear fender B, then lift up the rear fender B.

Install the rear fender B mounting bolts and tighten the bolts securely.

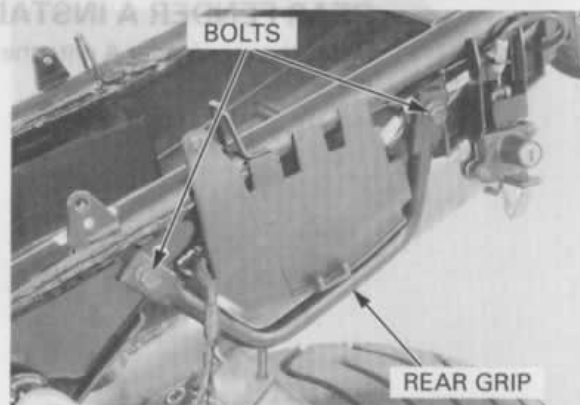


Install the rear fender A mounting bracket and tighten the socket bolts to the specified torque.

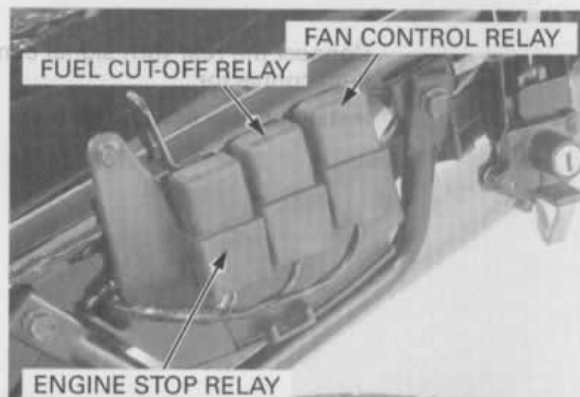
**TORQUE: 32 N·m (3.3 kgf·m, 24 lbf·ft)**



Install the rear grip and tighten the bolts securely.

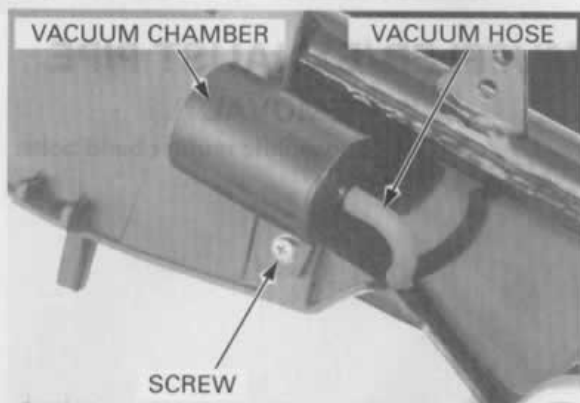


Install the fan control relay, fuel cut-off relay and engine stop relay onto the rear fender bosses.



Install the variable intake air control valve vacuum chamber and tighten the screw.

Route the variable intake air control valve vacuum hose properly, then connect it to the vacuum chamber.



Route the regulator/rectifier wire and battery cables properly.

Route the battery positive and negative cables into the rear fender B. Connect the regulator/rectifier 3P (Natural) and 2P (Natural) connectors.

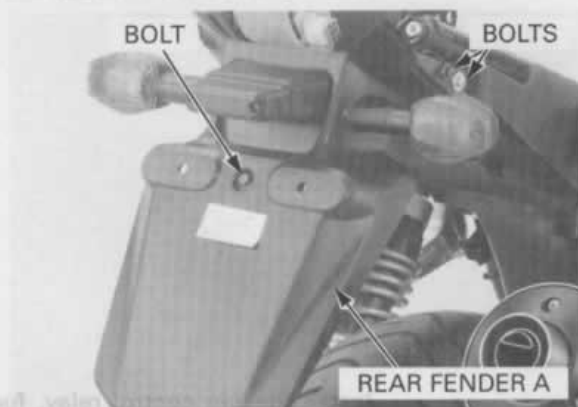
Install the following:

- Battery (page 16-5)
- ECM (page 6-83)
- Side cover (page 3-4)



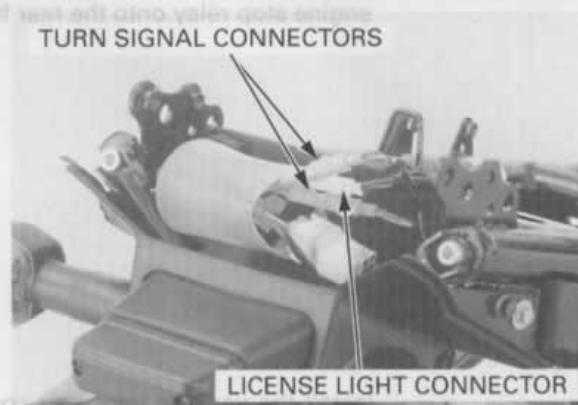
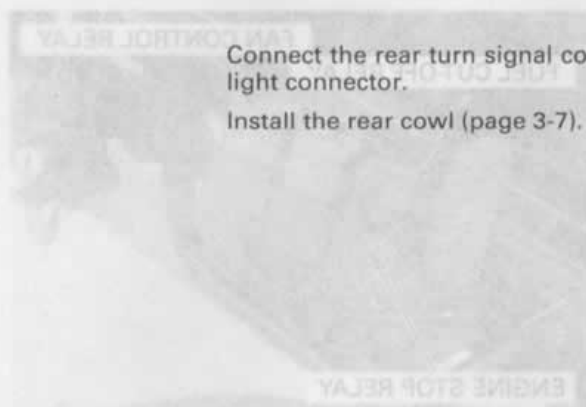
### REAR FENDER A INSTALLATION

Install the rear fender A onto the bracket and tighten the bolts.



Connect the rear turn signal connectors and license light connector.

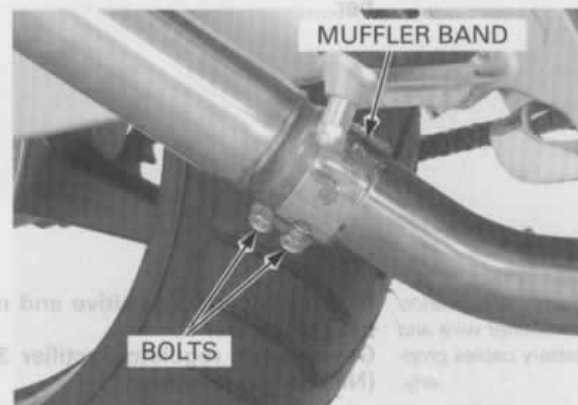
Install the rear cowl (page 3-7).



### MUFFLER/EXHAUST PIPE

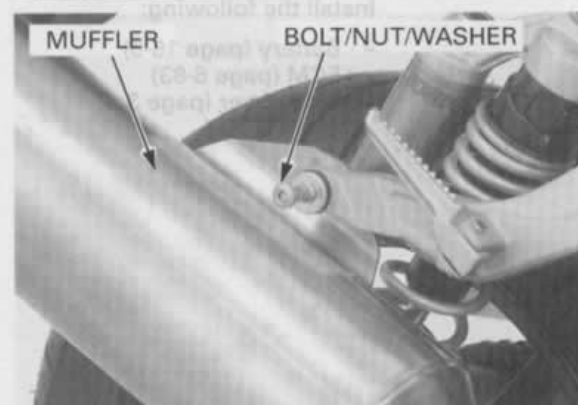
#### REMOVAL

Loosen the muffler band bolts.

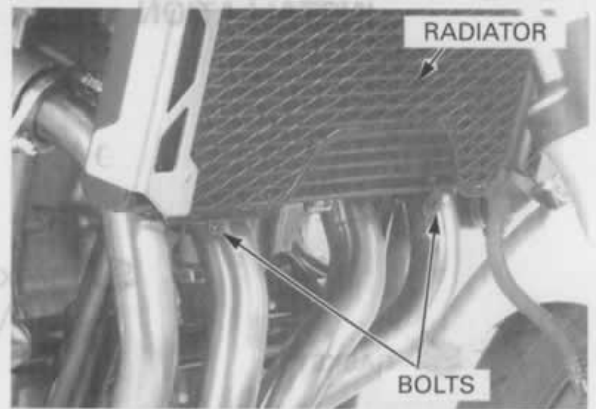


Remove the muffler mounting bolt/nut and washer, then remove the muffler.

Remove the gasket.



Remove the radiator lower mounting bolts, then move the radiator forward.

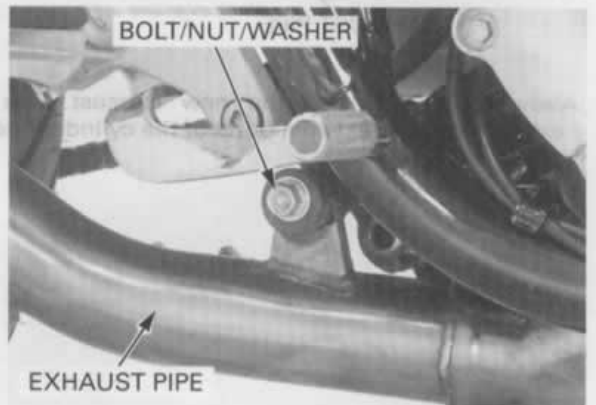


Remove the exhaust pipe joint cap nuts.



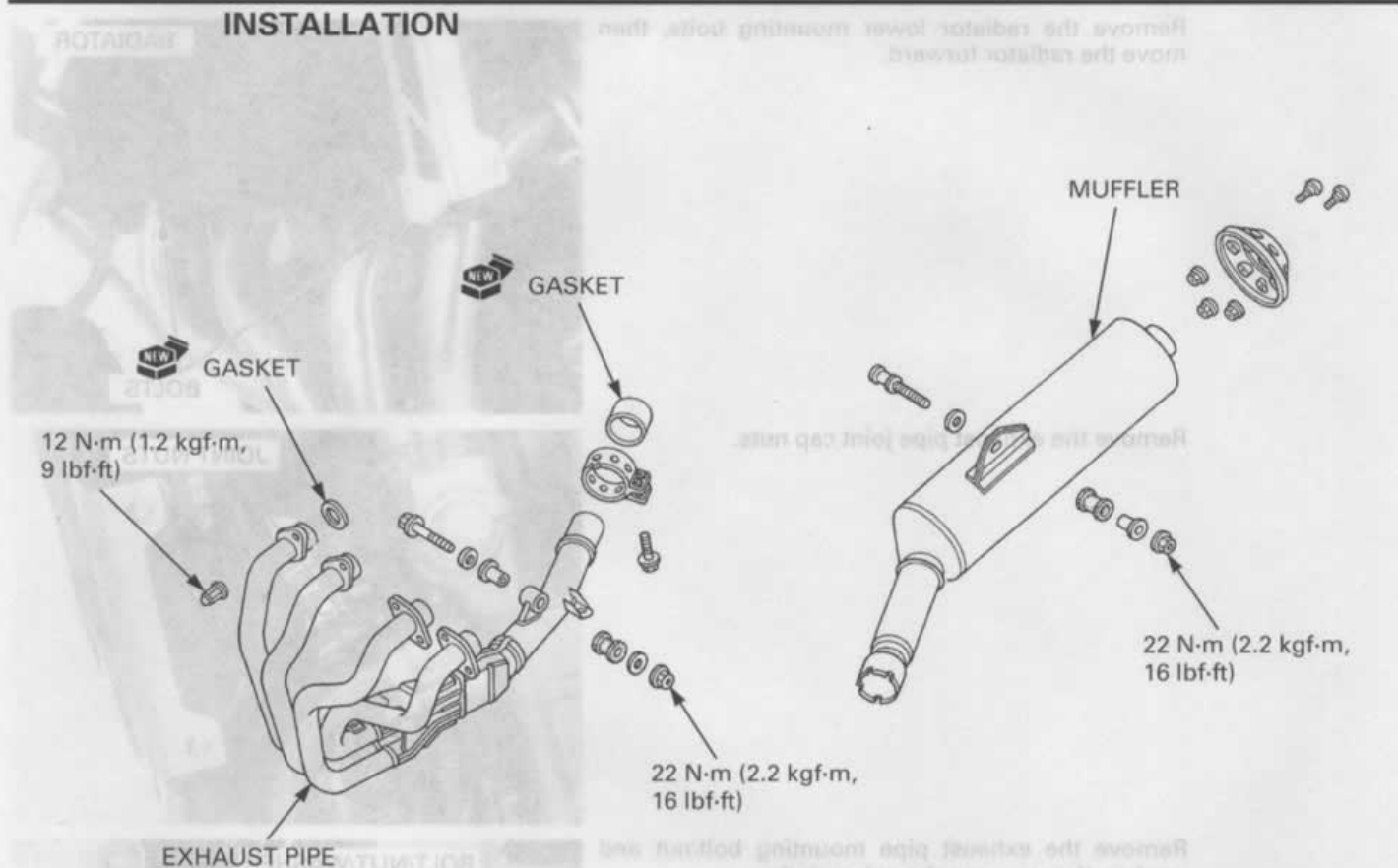
Remove the exhaust pipe mounting bolt/nut and washer, then remove the exhaust pipe.

Remove the exhaust pipe gaskets.



Install the exhaust pipe, temporarily install the exhaust pipe joint cap nuts, mounting washer and bolt and nut. Tighten the exhaust pipe joint cap nuts.

## INSTALLATION

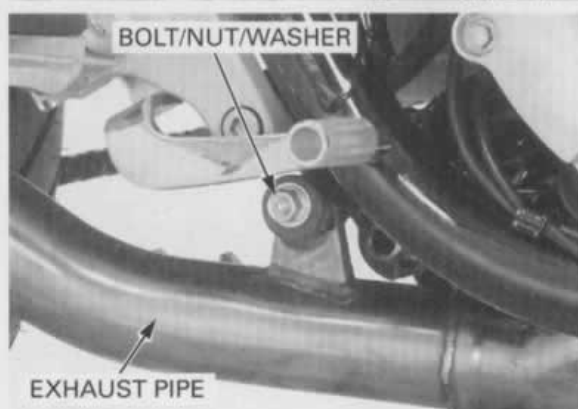


Always replace the exhaust pipe gaskets with new ones.

Install the new exhaust pipe gaskets onto the exhaust ports of the cylinder head.

Install the washer, bolt and nut properly.

Install the exhaust pipe, temporarily install the exhaust pipe joint cap nuts, mounting washer and mounting bolt/nut.





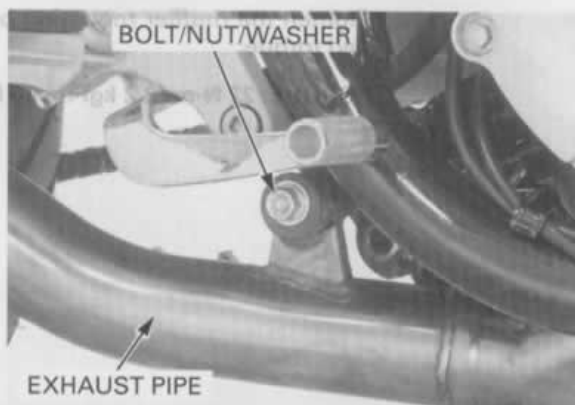
First tighten the exhaust pipe joint cap nuts to the specified torque.

**TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)**

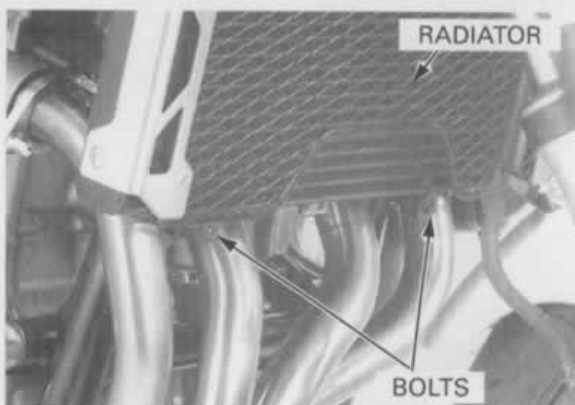


Tighten the exhaust pipe mounting bolt/nut.

**TORQUE: 22 N·m (2.2 kgf·m, 16 lbf·ft)**

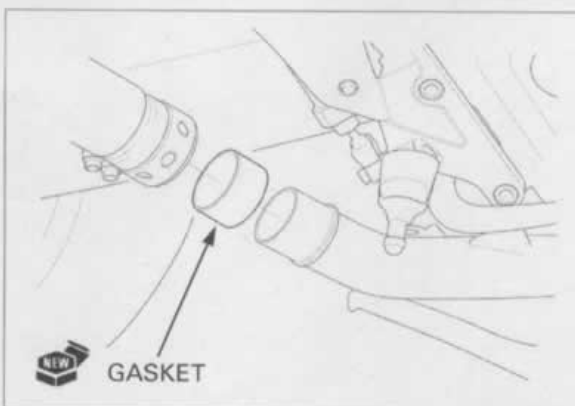


Install and tighten the radiator lower mounting bolts.



Install the new gasket onto the exhaust pipe as shown.

Install the muffler and temporarily install the muffler mounting bolt/nut.

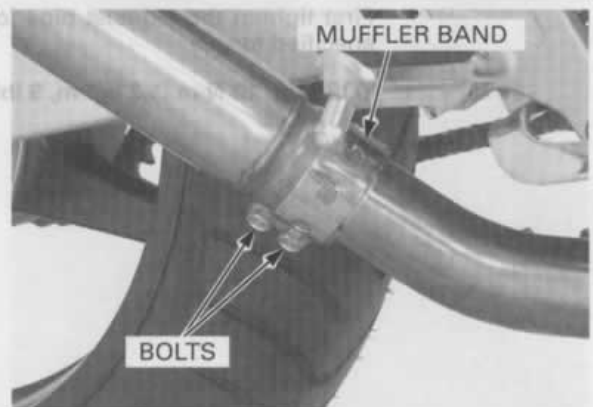




## FRAME/BODY PANELS/EXHAUST SYSTEM

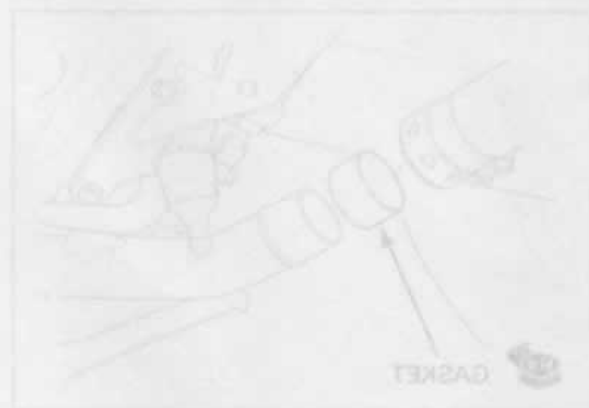
Tighten the muffler band bolts to the specified torque.

**TORQUE: 22 N·m (2.2 kgf·m, 16 lbf·ft)**



Tighten the muffler mounting bolt/nut to the specified torque.

**TORQUE: 22 N·m (2.2 kgf·m, 16 lbf·ft)**



Install and tighten the radiator lower mounting bolts.

Install the new gasket onto the exhaust pipe as shown.  
Install the muffler and temporarily install the mounting bolts.