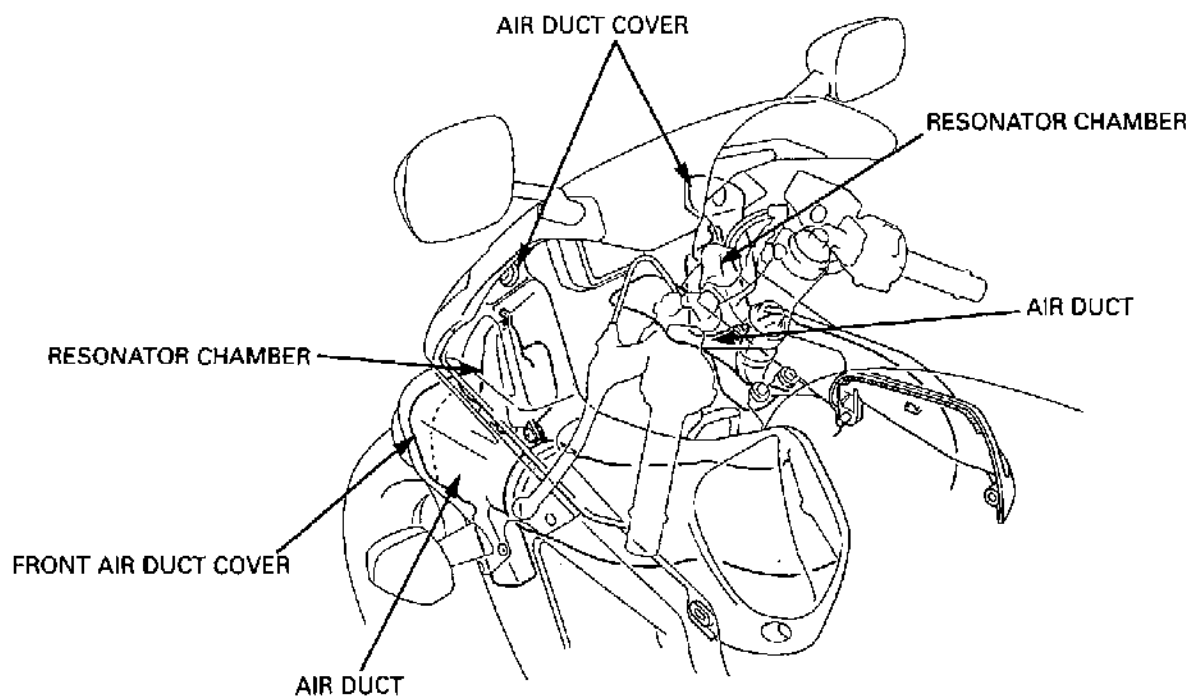
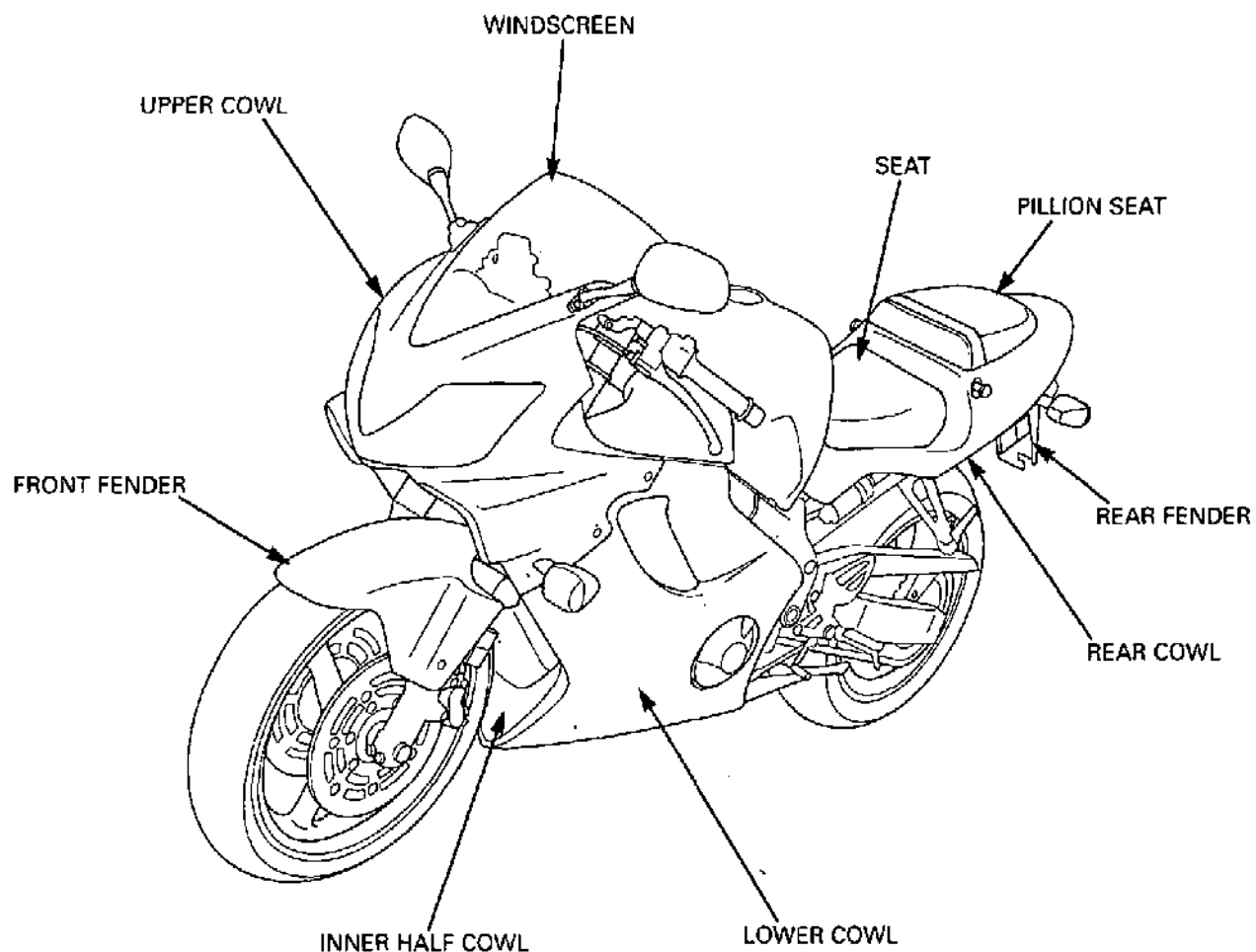


## BODY PANEL LOCATIONS



# 2. FRAME/BODY PANELS/EXHAUST SYSTEM

2

|   |            |                                |             |
|---|------------|--------------------------------|-------------|
| <b>BODY PANEL LOCATIONS</b>               | <b>2-0</b> | <b>UPPER COWL</b>              | <b>2-9</b>  |
| <b>SERVICE INFORMATION</b>                | <b>2-1</b> | <b>FRONT FENDER</b>            | <b>2-15</b> |
| <b>TROUBLESHOOTING</b>                    | <b>2-1</b> | <b>REAR FENDER ('01 – '03)</b> | <b>2-15</b> |
| <b>SEAT ('01 – '03)</b>                   | <b>2-2</b> | <b>REAR FENDER (After '03)</b> | <b>2-18</b> |
| <b>SEAT (After '03)</b>                   | <b>2-2</b> | <b>SEAT RAIL ('01 – '03)</b>   | <b>2-22</b> |
| <b>PILLION SEAT/REAR COWL ('01 – '03)</b> | <b>2-3</b> | <b>SEAT RAIL (After '03)</b>   | <b>2-25</b> |
| <b>REAR COWL (After '03)</b>              | <b>2-5</b> | <b>MUFFLER/EXHAUST PIPE</b>    | <b>2-28</b> |
| <b>LOWER COWL</b>                         | <b>2-6</b> |                                |             |

## 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

|                                     |                                |
|-------------------------------------|--------------------------------|
| Seat cowl special screw (after '03) | 2 N•m (0.15 kgf•m, 1.1 lbf•ft) |
| Upper cowl-to-lower cowl screw      | 2 N•m (0.15 kgf•m, 1.1 lbf•ft) |
| Inner half cowl-to-lower cowl screw | 2 N•m (0.15 kgf•m, 1.1 lbf•ft) |
| Windscreen setting screw            | 1 N•m (0.05 kgf•m, 0.4 lbf•ft) |
| Seat rail upper mounting bolt/nut   | 49 N•m (5.0 kgf•m, 36 lbf•ft)  |
| Seat rail lower mounting bolt/nut   | 49 N•m (5.0 kgf•m, 36 lbf•ft)  |
| Exhaust pipe joint flange nut       | 12 N•m (1.2 kgf•m, 9 lbf•ft)   |
| Muffler band flange bolt            | 23 N•m (2.3 kgf•m, 17 lbf•ft)  |
| Passenger footpeg flange bolt       | 26 N•m (2.7 kgf•m, 20 lbf•ft)  |

## TROUBLESHOOTING

### Excessive exhaust noise

- Broken exhaust system
- Exhaust gas leak

### Poor performance

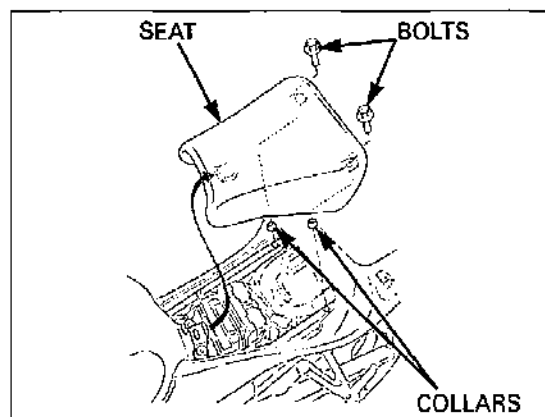
- Deformed exhaust system
- Exhaust gas leak
- Clogged muffler

### SEAT ('01 – '03)

#### REMOVAL

Remove the two seat mounting bolts behind the seat.

Slide the seat back and then remove it.  
Remove the mounting collars.

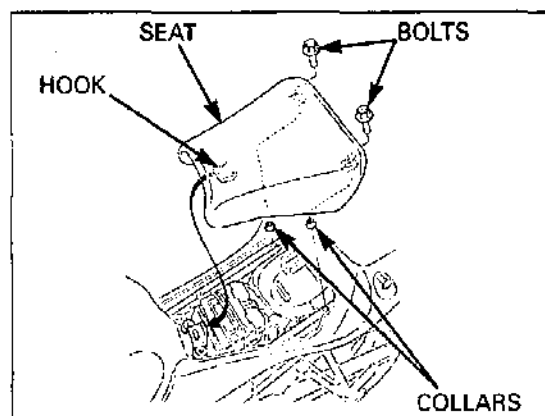


#### INSTALLATION

*Be careful not to drop the mounting collars.*

Install the mounting collars into the seat brackets as shown.  
Align the seat hook with the fuel tank rear bracket and install the seat.

Install and tighten the seat mounting bolts securely.

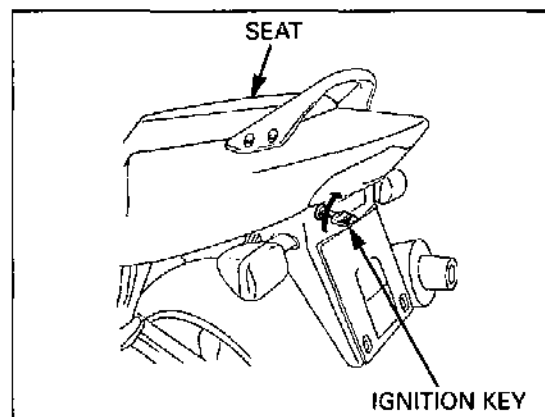


### SEAT (After '03)

#### REMOVAL

Unhook the seat with the ignition key.

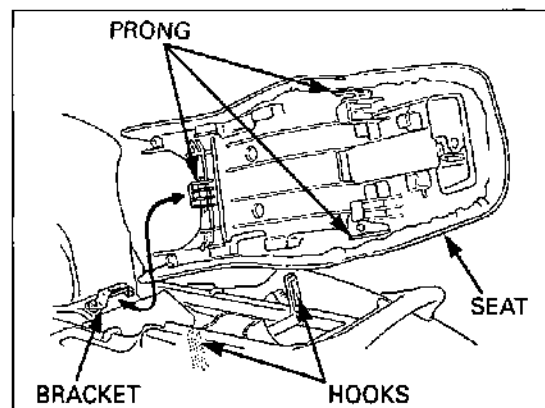
Pull the seat back and remove it.



#### 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.

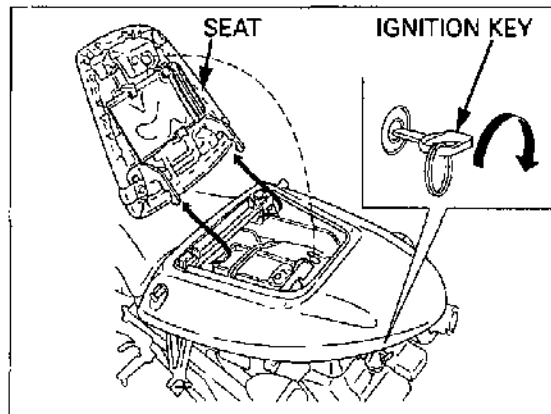


## PILLION SEAT/REAR COWL ('01 – '03)

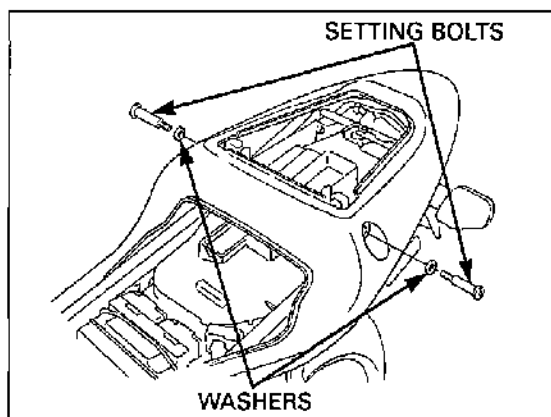
### REMOVAL

Remove the seat (page 2-2).

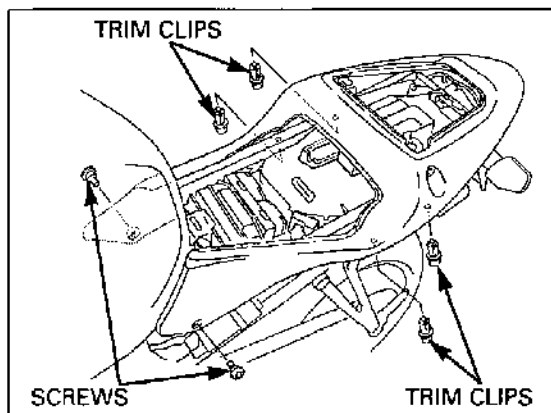
Unhook the pillion seat lock using the ignition key. Pull up the rear end of the pillion seat and then remove the seat.



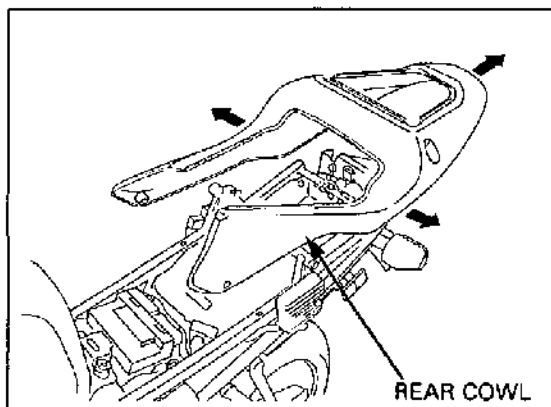
Remove the rear cowl setting bolts and washers.



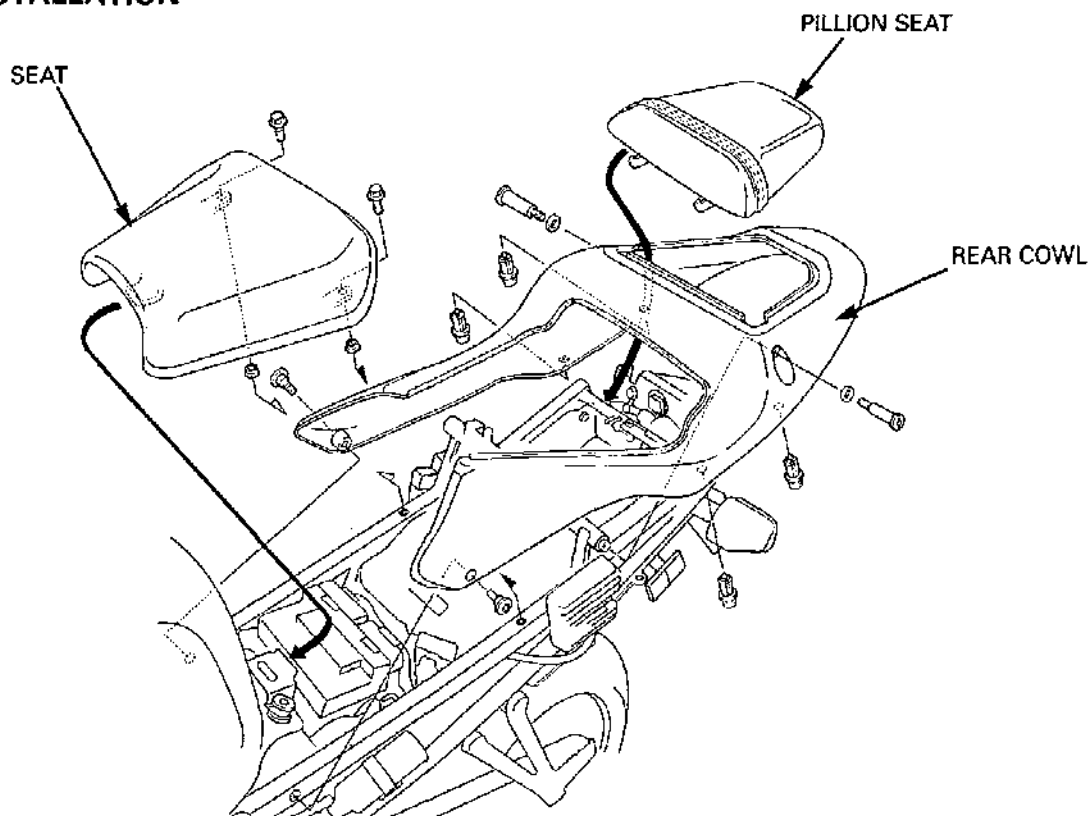
Remove the two 5 mm screws and four trim clips.



Carefully pull both sides of the rear cowl, then remove it from the seat rail.



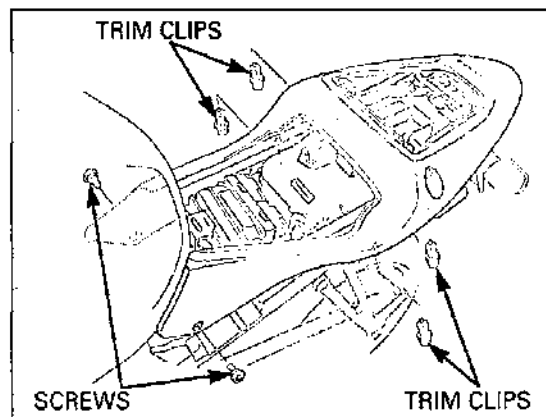
### INSTALLATION



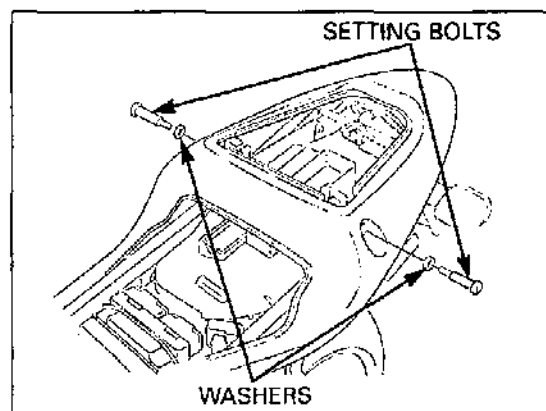
*Make sure the mating surfaces of the cowl bottom are seated onto the rear fender properly before tightening the fasteners.*

Installation is in the reverse order of removal.

Install the trim clips and screws.



Install and tighten the setting bolt securely.

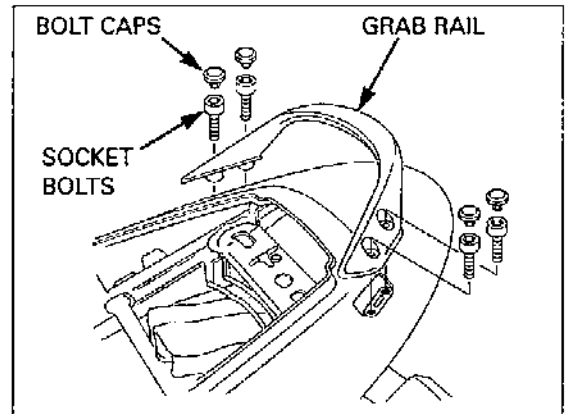


## REAR COWL (After '03)

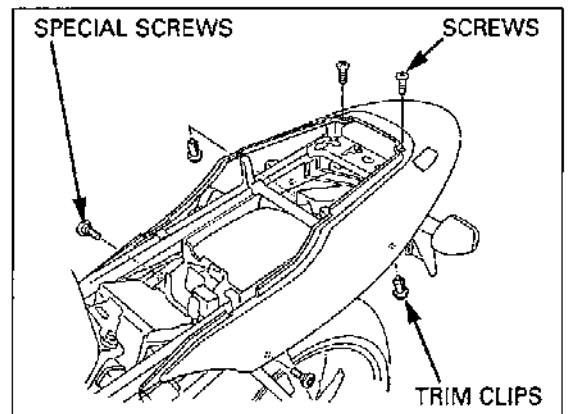
### REMOVAL

Remove the seat (page 2-2).

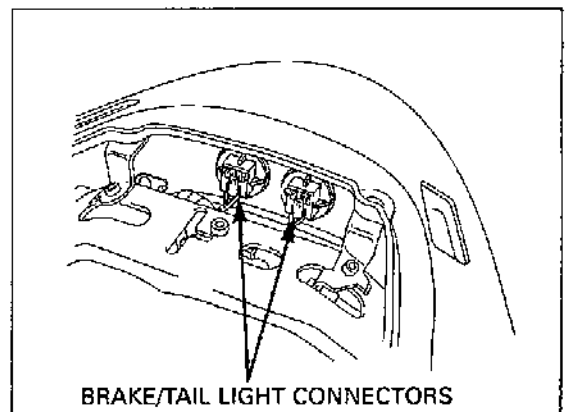
Remove the four bolt caps and socket bolts.  
Remove the grab rail.



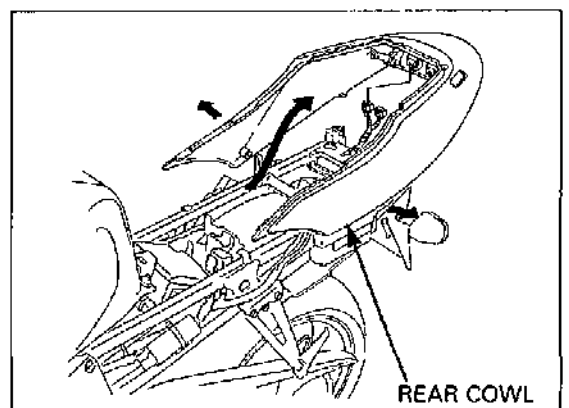
Remove the two special 6 mm screws, two 5 mm screws and two trim clips.



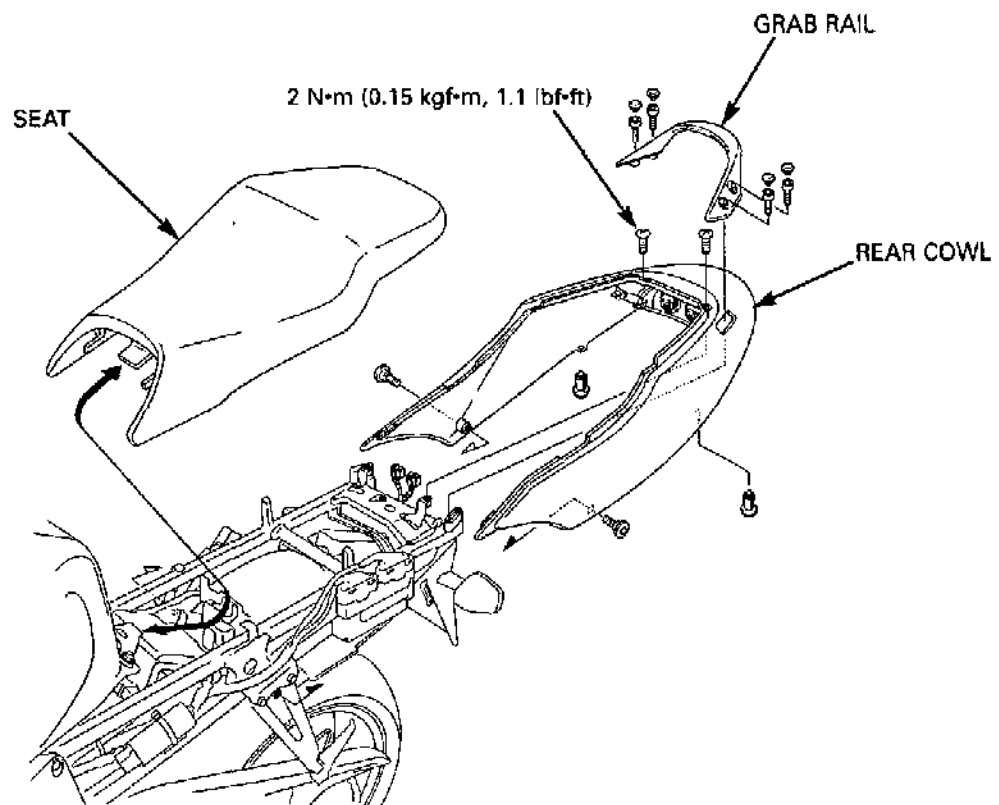
Disconnect the rear brake/tail light connectors.



Carefully pull out the both sides of the rear cowl, then remove it from the seat rail.



### INSTALLATION

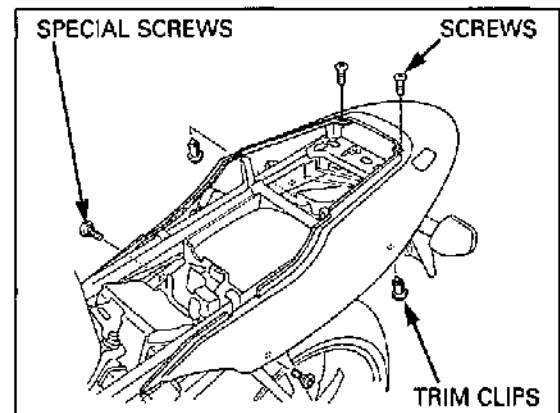


Installation is in the reverse order of removal.

*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 to the specified torque.

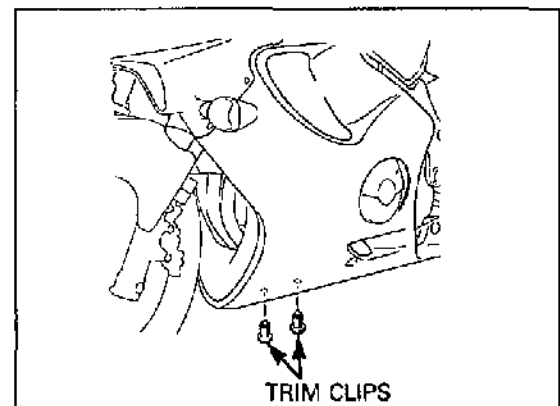
**TORQUE: 2 N·m (0.15 kgf·m, 1.1 lbf·ft)**



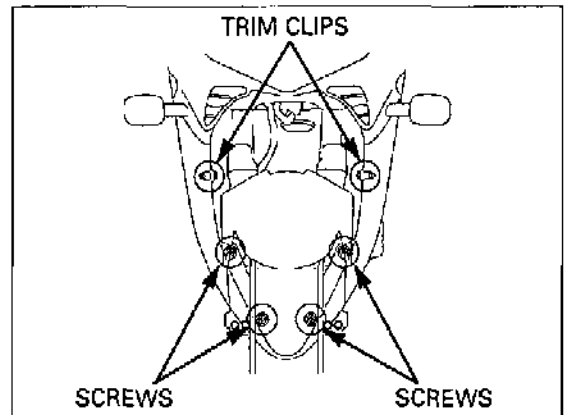
## LOWER COWL

### REMOVAL

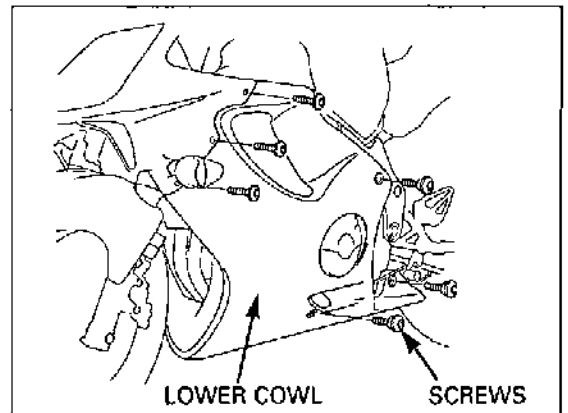
Remove the two trim clips from the bottom of the lower cowl.



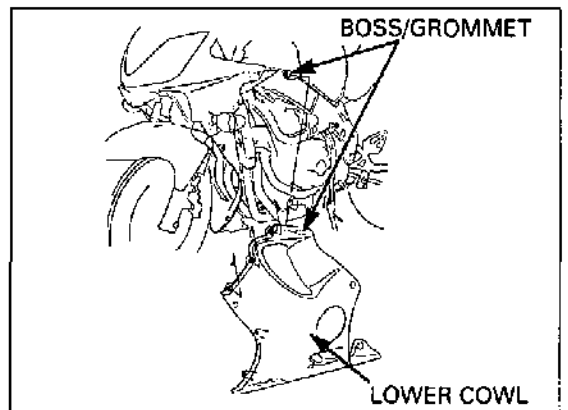
Remove the two trim clips and four screws from the inner half cowl.



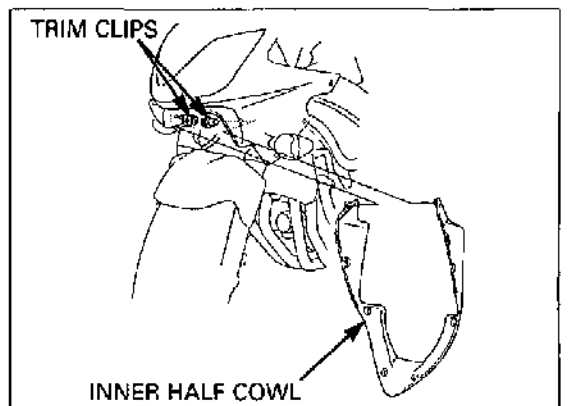
Remove the six lower cowl mounting screws.



Release the lower cowl boss from the air intake duct cover grommet, then remove the lower cowl.

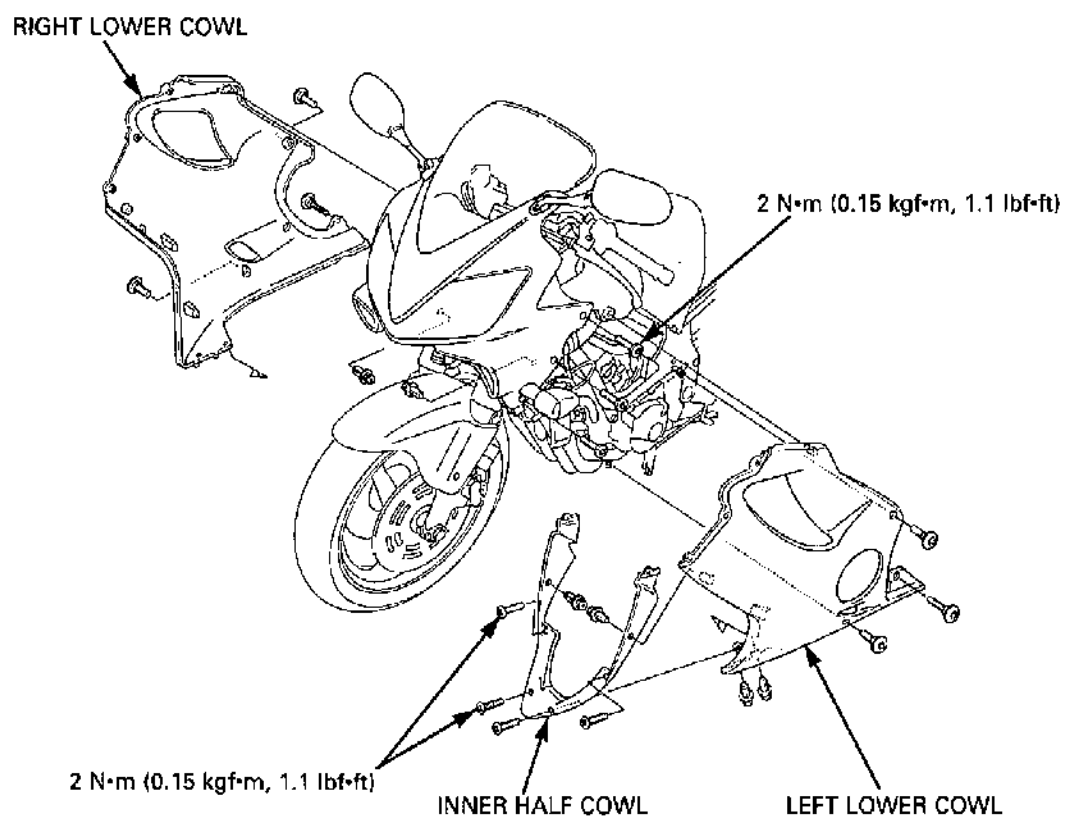


Remove the two trim clips and inner half cowl.

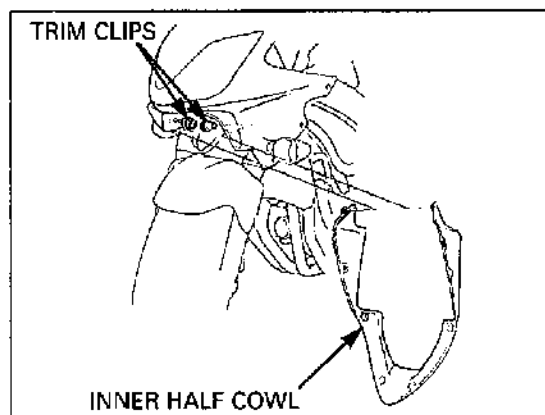




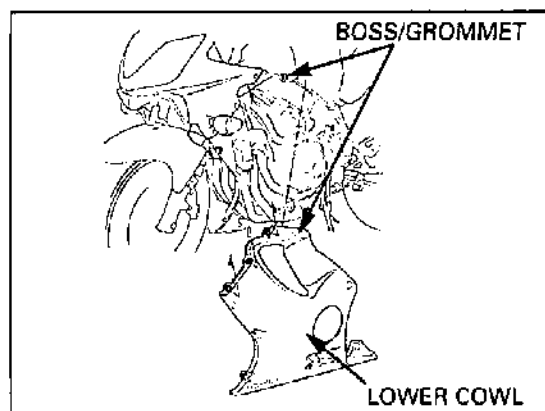
### INSTALLATION



Install the inner half cowl into the upper cowl and secure it with two trim clips.



Set the lower cowl onto the frame and install the lower cowl boss into the air duct cover grommet.

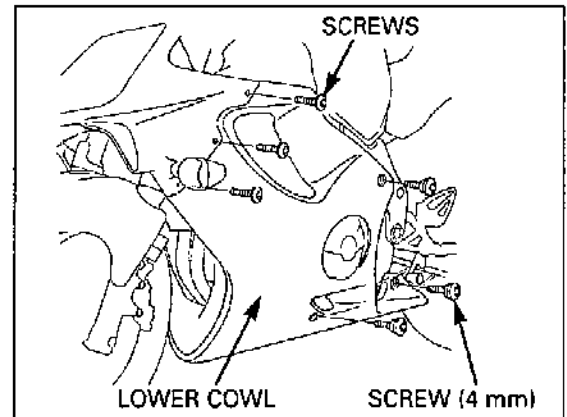


*Install the 4-mm screw into the correct location as shown in the illustration.*

Install the six screws.

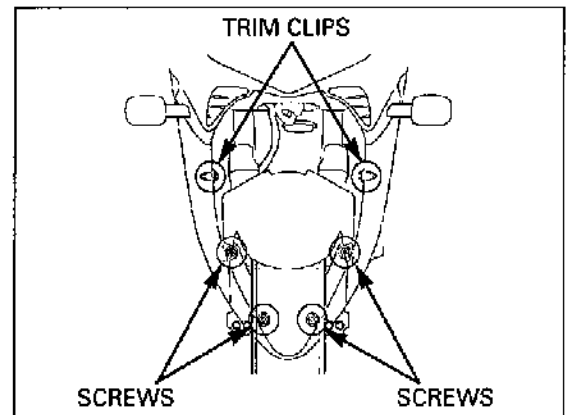
Tighten the upper cowl-to-lower cowl screws to the specified torque.

**TORQUE: 2 N·m (0.15 kgf·m, 1.1 lbf·ft)**

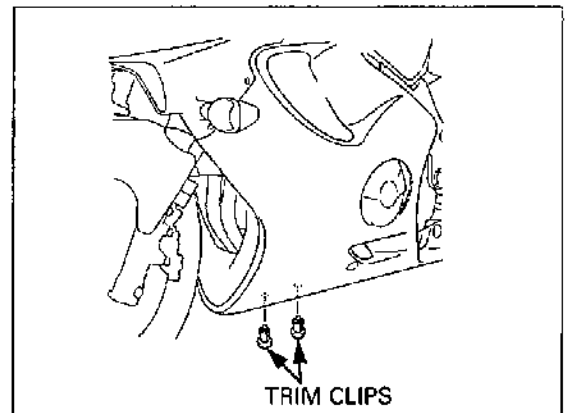


Install the inner half cowl-to-lower cowl two trim clips and four screws.  
Tighten the screws to the specified torque.

**TORQUE: 2 N·m (0.15 kgf·m, 1.1 lbf·ft)**



Install the two trim clips into the bottom of the lower cowl.

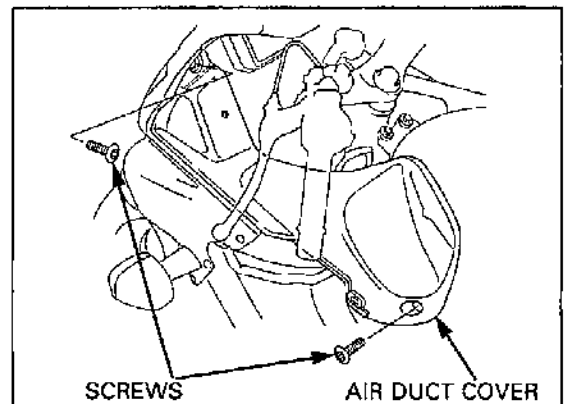


## UPPER COWL

### REMOVAL

Remove the lower cowl and inner half cowl (page 2-6).

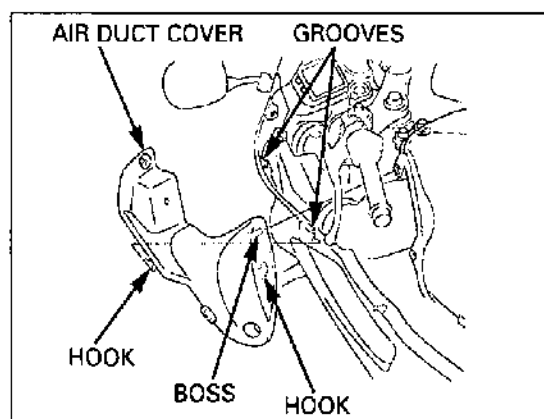
Remove the air duct cover mounting two screws.



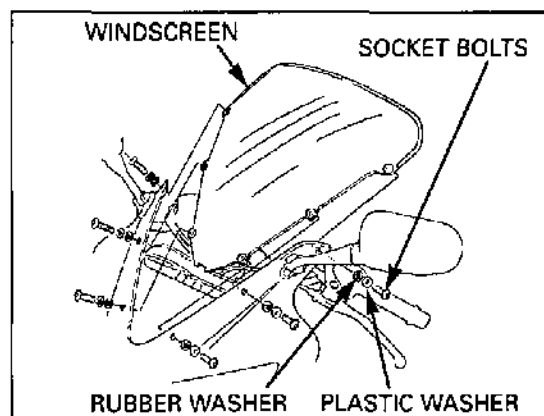
## FRAME/BODY PANELS/EXHAUST SYSTEM

*Be careful not to damage the tabs.*

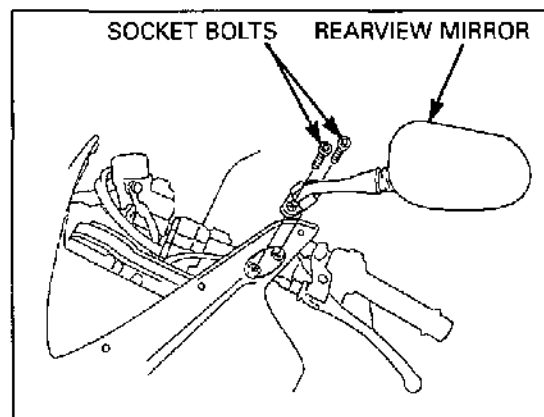
Carefully release the air intake duct cover boss and hook from the fuel tank. Remove the air duct cover while releasing the hook from the upper cowl groove.



Remove the socket bolts, plastic and rubber washers, then remove the windscreen.



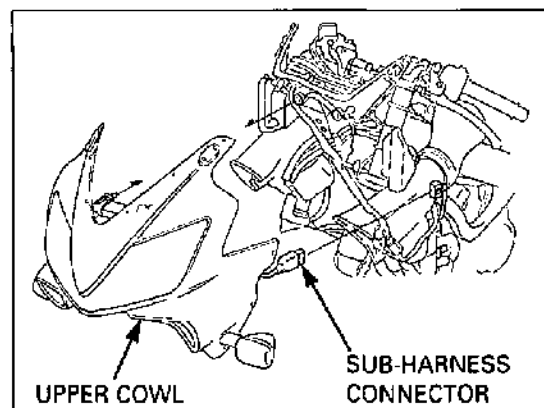
Remove the rearview mirror mounting socket bolts and rearview mirror.



*Be careful not to scratch the upper cowl and front fender.*

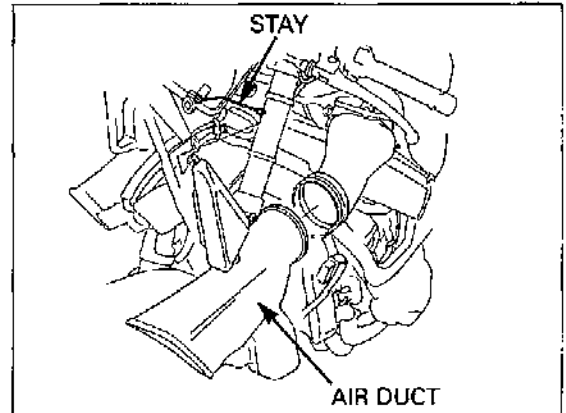
Disconnect the front sub-harness connector.

Release the upper cowl off the rearview mirror bolt hole studs and remove the upper cowl assembly.

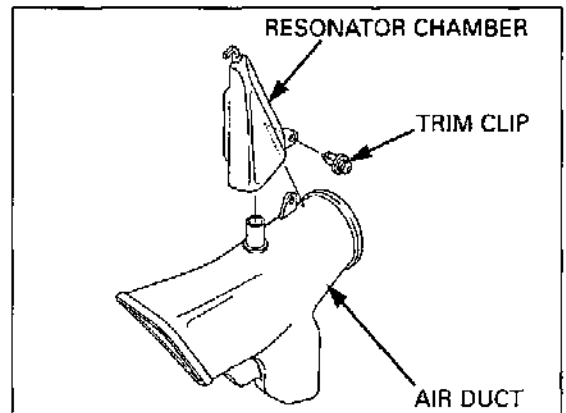


Unhook the resonator chamber stays from the resonators.

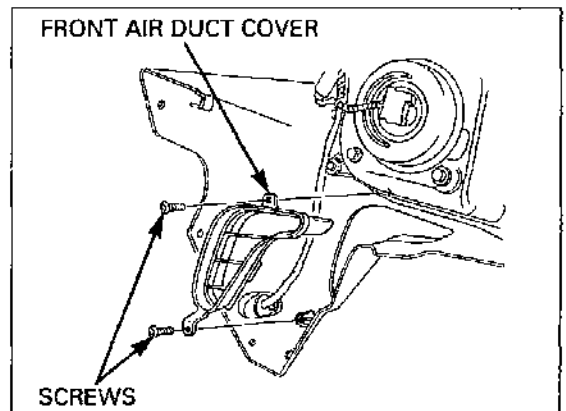
Remove the air duct from the air cleaner intake duct.



Remove the trim clip and resonator from the air duct.



Remove the front air duct covers from the upper cowl.

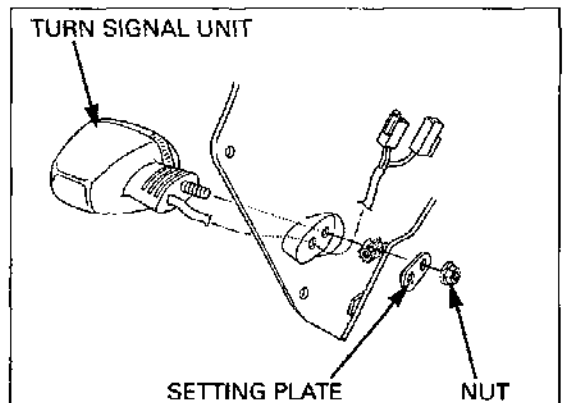


Disconnect the turn signal/running light connectors.

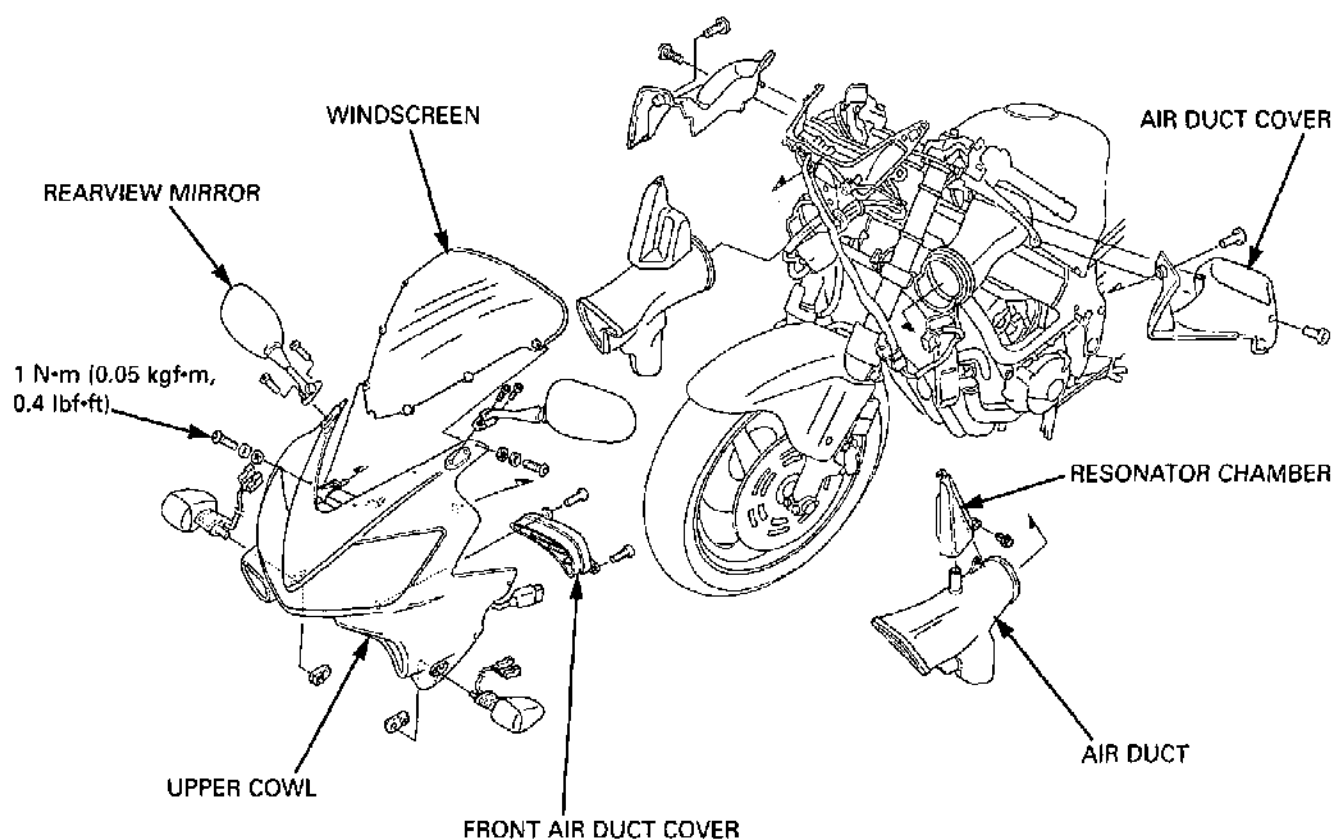
Remove the nut and setting plate, then remove the front turn signal unit.

Refer to section 19 for front sub-harness, headlight/turn signal relay and headlight unit removal/installation.

Refer to section 5 for engine stop sensor and relay removal/installation.

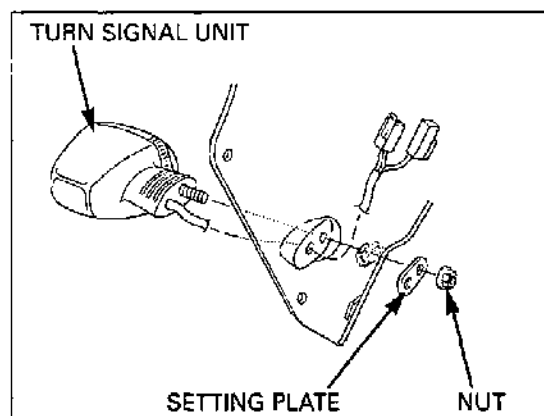


### INSTALLATION

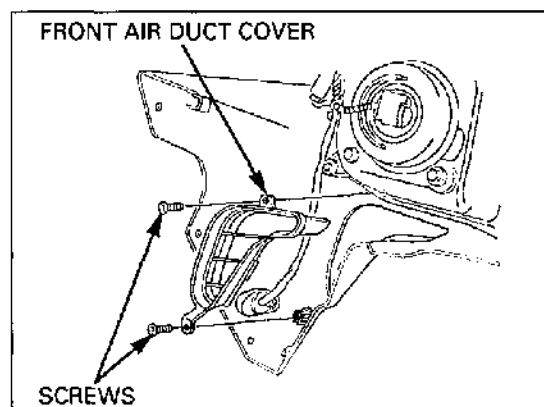


Route the turn signal wire into the upper cowl, inner middle cowl and setting plate.  
Install and tighten the nut securely.

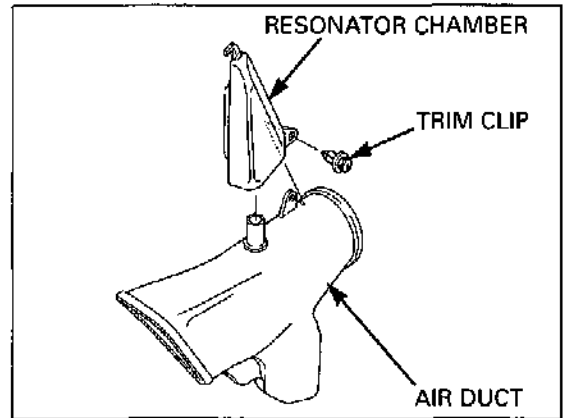
Connect the turn signal/running light connectors.



Install the front air duct covers into the upper cowl and tighten the screw securely.

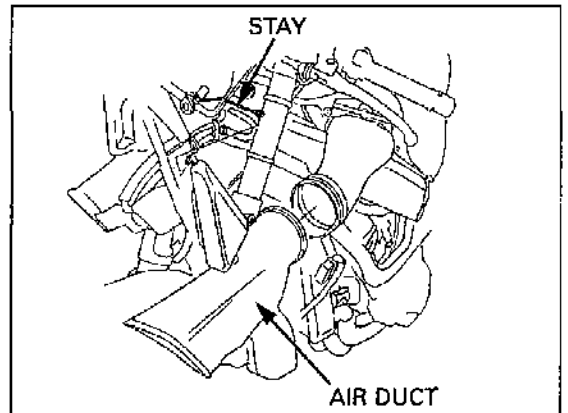


Install the resonator onto the air duct and secure it with a trim clip.



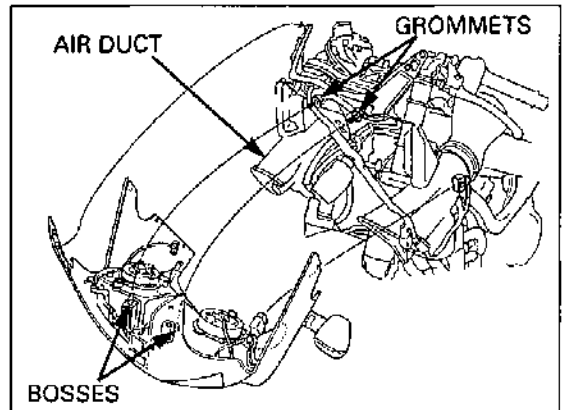
Install the air duct into the air cleaner intake duct.

Hook the resonator chamber stays to the chambers.



Install the upper cowl onto the upper cowl stay while aligning the headlight unit bosses with the upper cowl stay grommets.

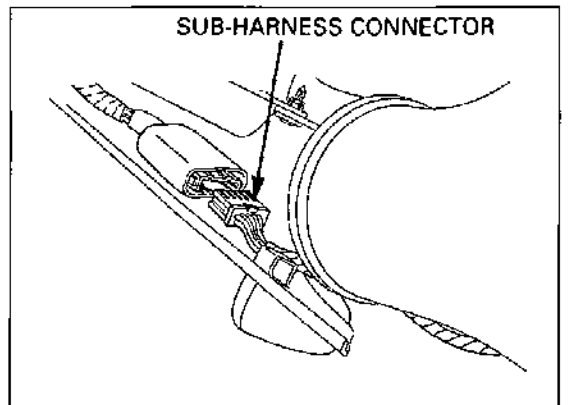
Be sure to align the air duct covers with the air ducts.



Set the upper cowl onto the rearview mirror bolt hole studs.

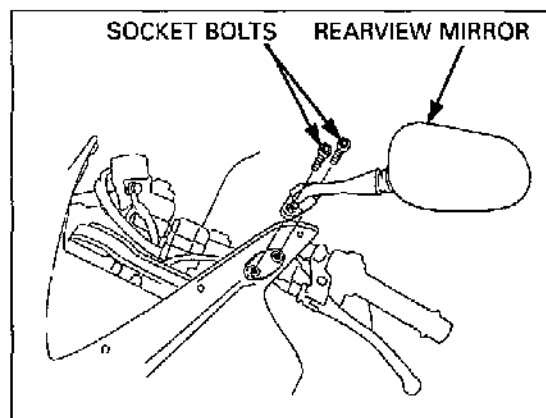
Connect the front sub-harness connector.

*Route the harness and wires properly (page 1-23).*



## FRAME/BODY PANELS/EXHAUST SYSTEM

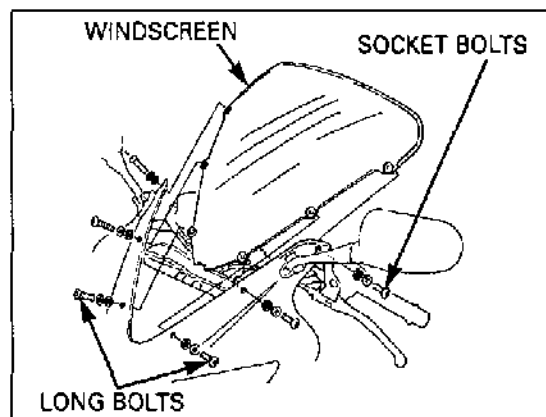
Install the rearview mirror and tighten the socket bolts securely.



*Install the longer socket bolts into the lower ends of the windscreen.*

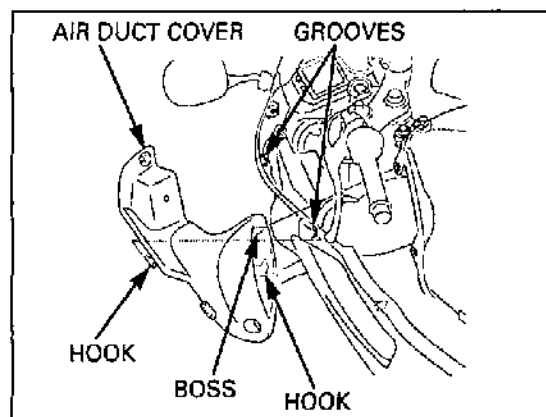
Install the windscreen, then install the rubber and plastic washers and socket bolts. First tighten the lower four socket bolts, then tighten the upper two socket bolts to the specified torque.

**TORQUE: 1 N·m (0.05 kgf·m, 0.4 lbf·ft)**

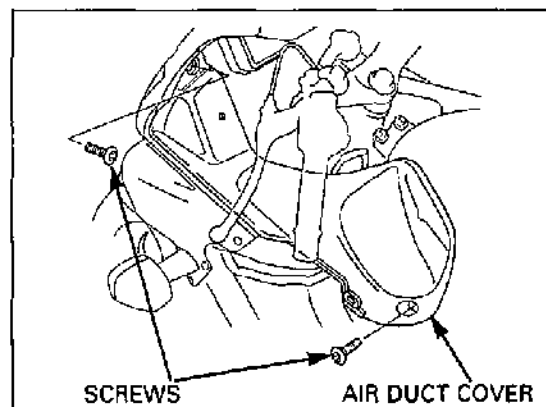


*Be careful not to damage the tabs.*

Install the air duct cover aligning the duct boss with the groove in the upper cowl. Be sure to align the pin and tab with the fuel tank grommet and groove.



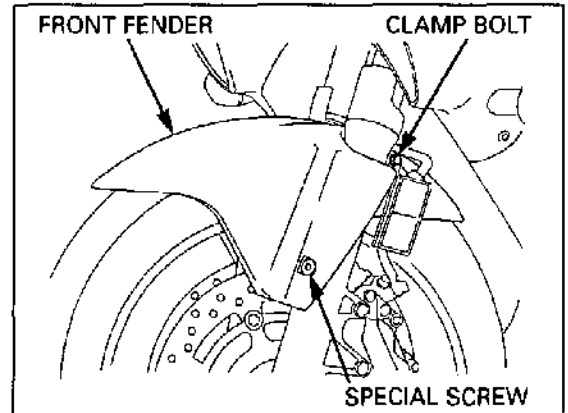
Install and tighten the screws securely.



## FRONT FENDER

### REMOVAL

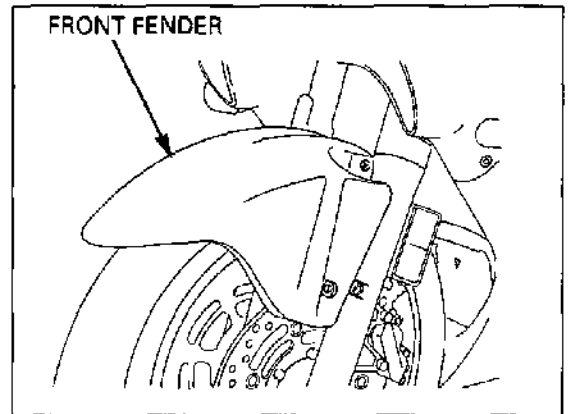
Remove the front fender mounting special screws, brake hose clamp bolts and reflectors.



Remove the front fender forward.

### INSTALLATION

Install the front fender in the reverse order of removal.



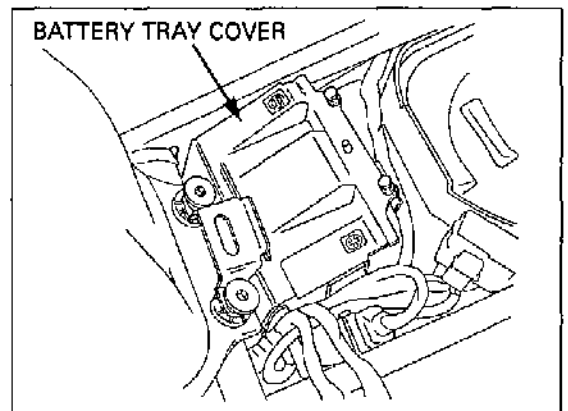
## REAR FENDER ('01 - '03)

### REMOVAL

Remove the following:

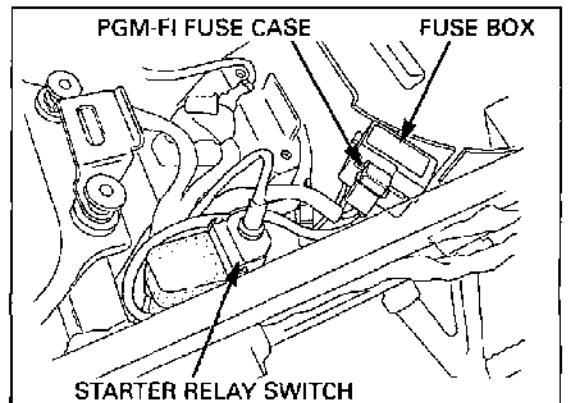
- Rear cowl (page 2-3)
- ECM (page 5-85)
- Battery (page 16-5)

Release the bosses from the rear fender, then remove the battery tray cover.



Unhook the retaining tab and remove the PGM-FI fuse case and fuse box.

Remove the starter relay switch from the rear fender boss.



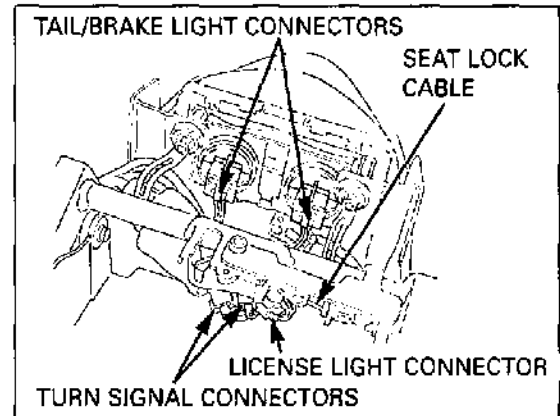


## FRAME/BODY PANELS/EXHAUST SYSTEM

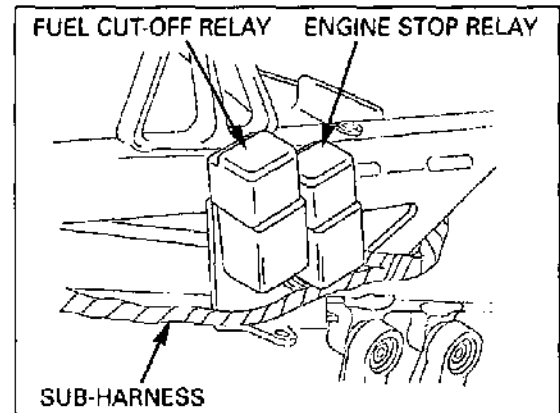
Disconnect the following connectors:

- Rear turn signal connectors
- License light connector
- Tail/brake light connectors

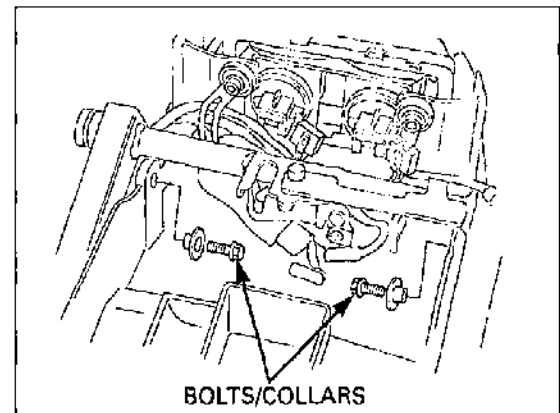
Unhook the seat lock cable from the cable stay.



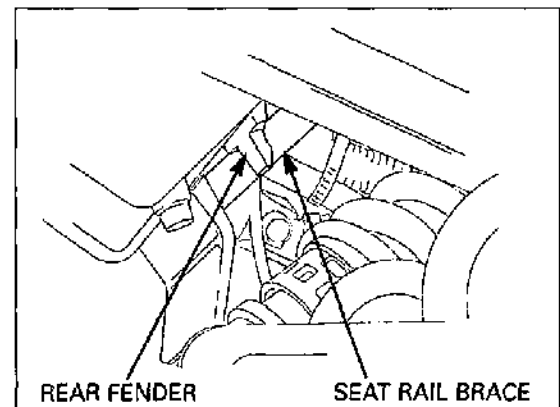
Remove the fuel cut-off relay and engine stop relay from the rear fender bosses. Release the rear sub-harness from the rear fender wire guides.



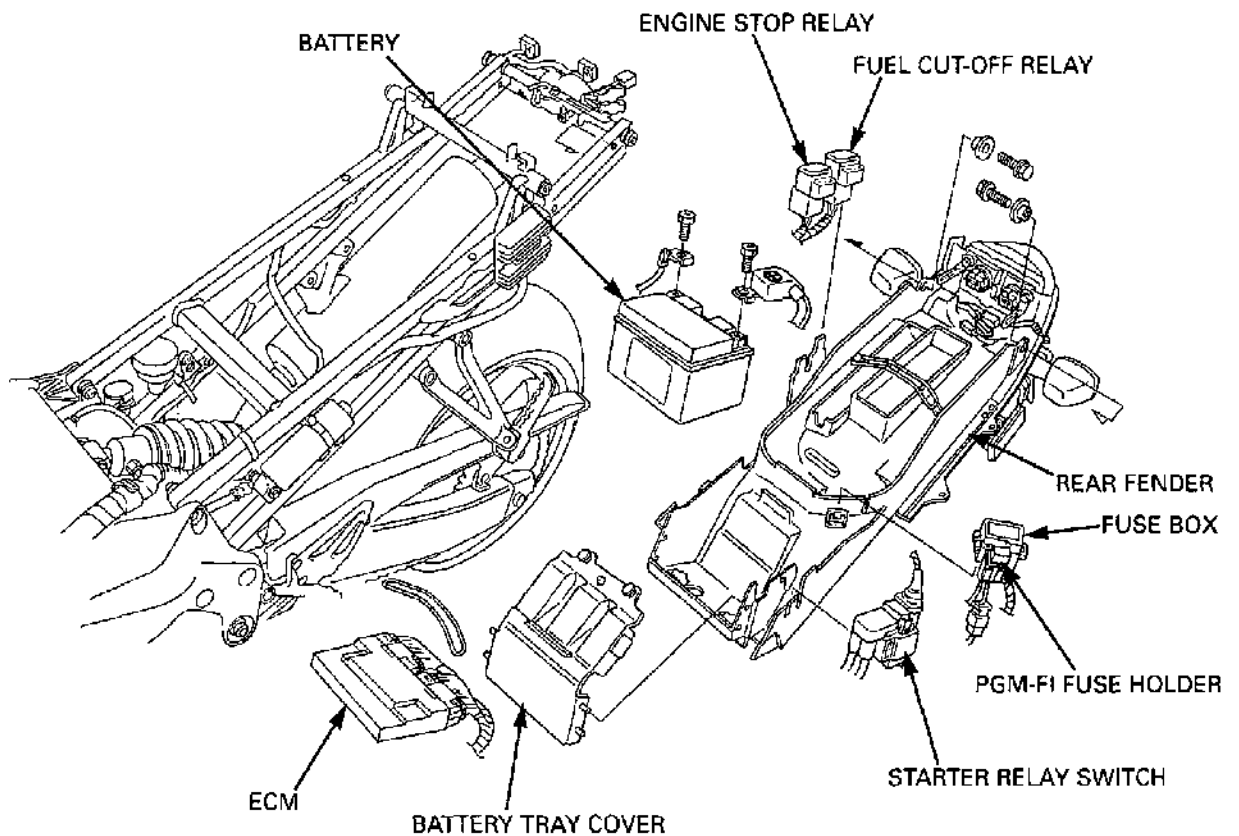
Remove the two rear fender mounting bolts and collars.



Unhook the rear fender from the seat rail brace, then remove the rear fender while moving it back.

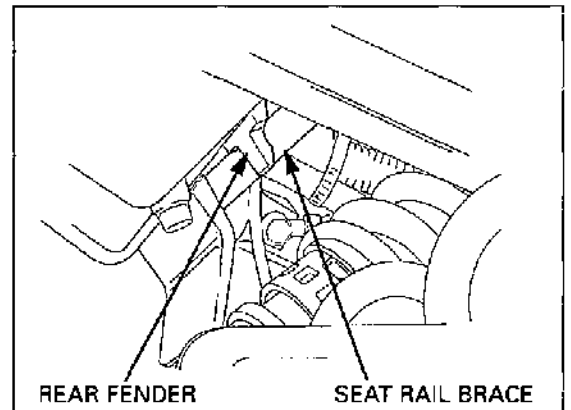


## INSTALLATION

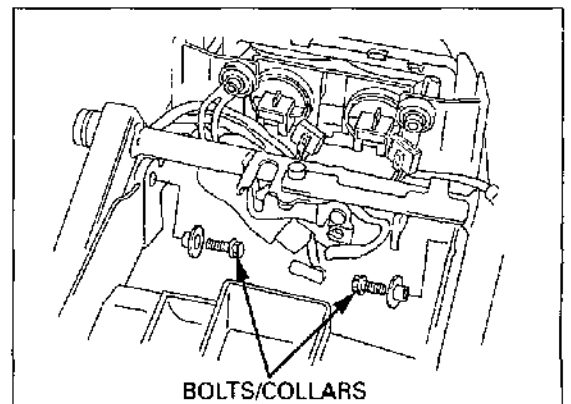


While installing the rear fender, route the wire harness properly (page 1-23).

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

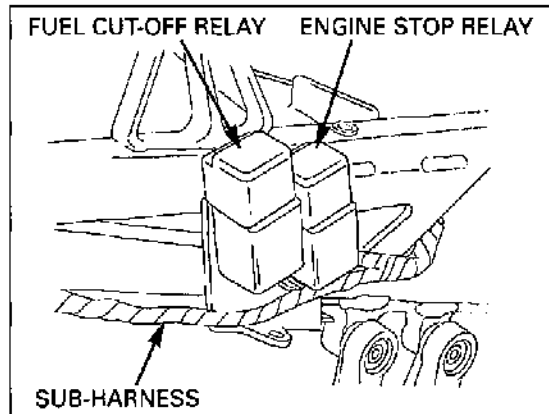


Install the rear fender mounting collars and bolts, and tighten the bolts securely.



## FRAME/BODY PANELS/EXHAUST SYSTEM

Route the rear sub-harness properly and install it into the rear fender wire guides. Install the fuel cut-off relay and turn signal relay onto the rear fender bosses.

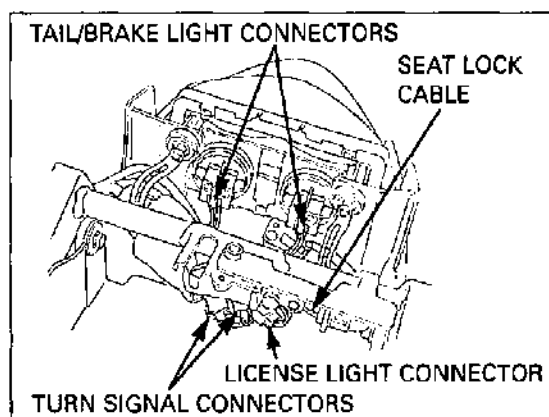


Connect the following connectors:

- Rear turn signal connectors
- License light connector
- Tail/brake light connectors

Connect the seat lock cable to the cable stay.

Install the removed parts in the reverse order of removal.



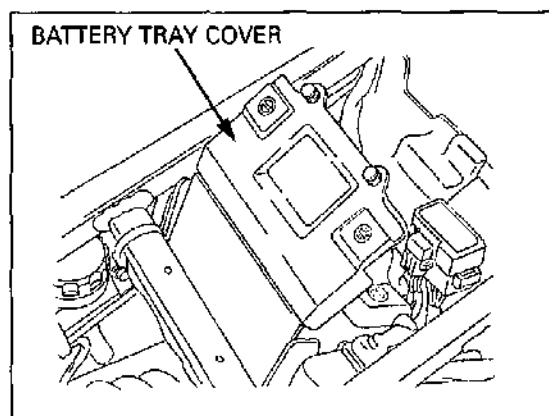
## REAR FENDER (After '03)

### REMOVAL

Remove the following:

- Rear cowl (page 2-5)
- Battery (page 16-5)

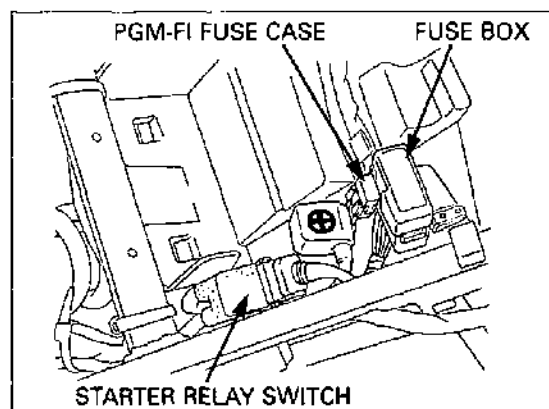
Release the bosses from the rear fender, then remove the battery tray cover.



Remove the shock absorber reservoir from the seat rail (page 14-9).

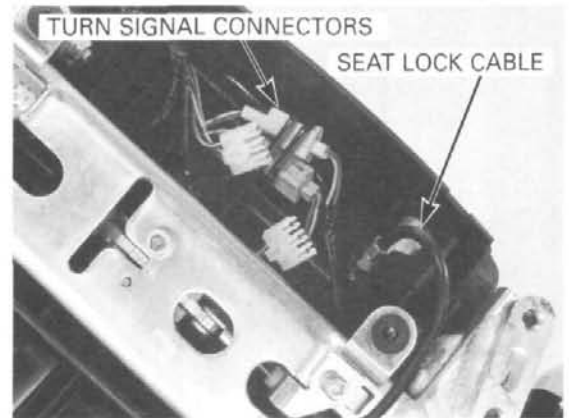
Unhook the retaining tab and remove the PGM-FI fuse case and fuse box.

Remove the starter relay switch from the rear fender boss.

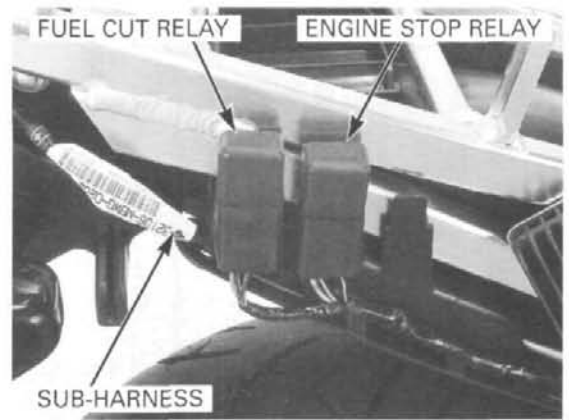


Disconnect the rear turn signal connectors.

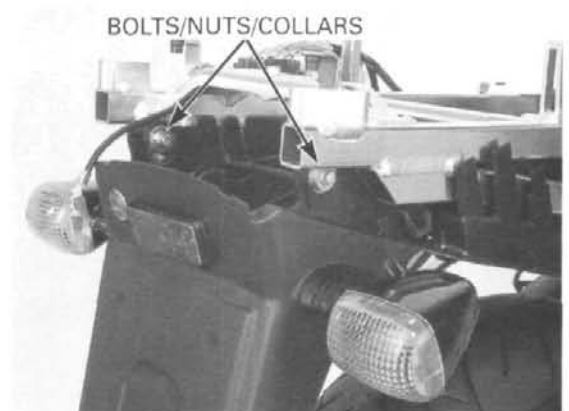
Unhook the seat lock cable from the cable stay.



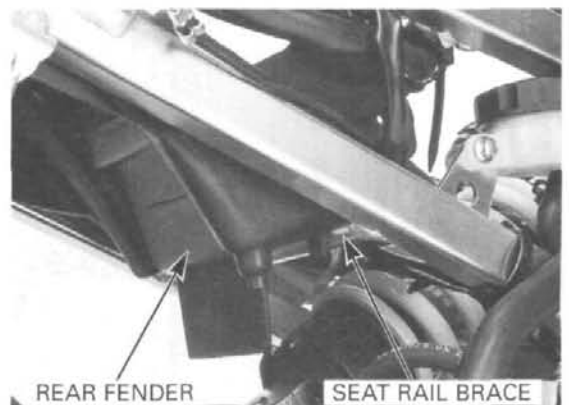
Remove the fuel cut relay and engine stop relay from the rear fender bosses.  
Release the rear sub-harness from the rear fender wire guides.



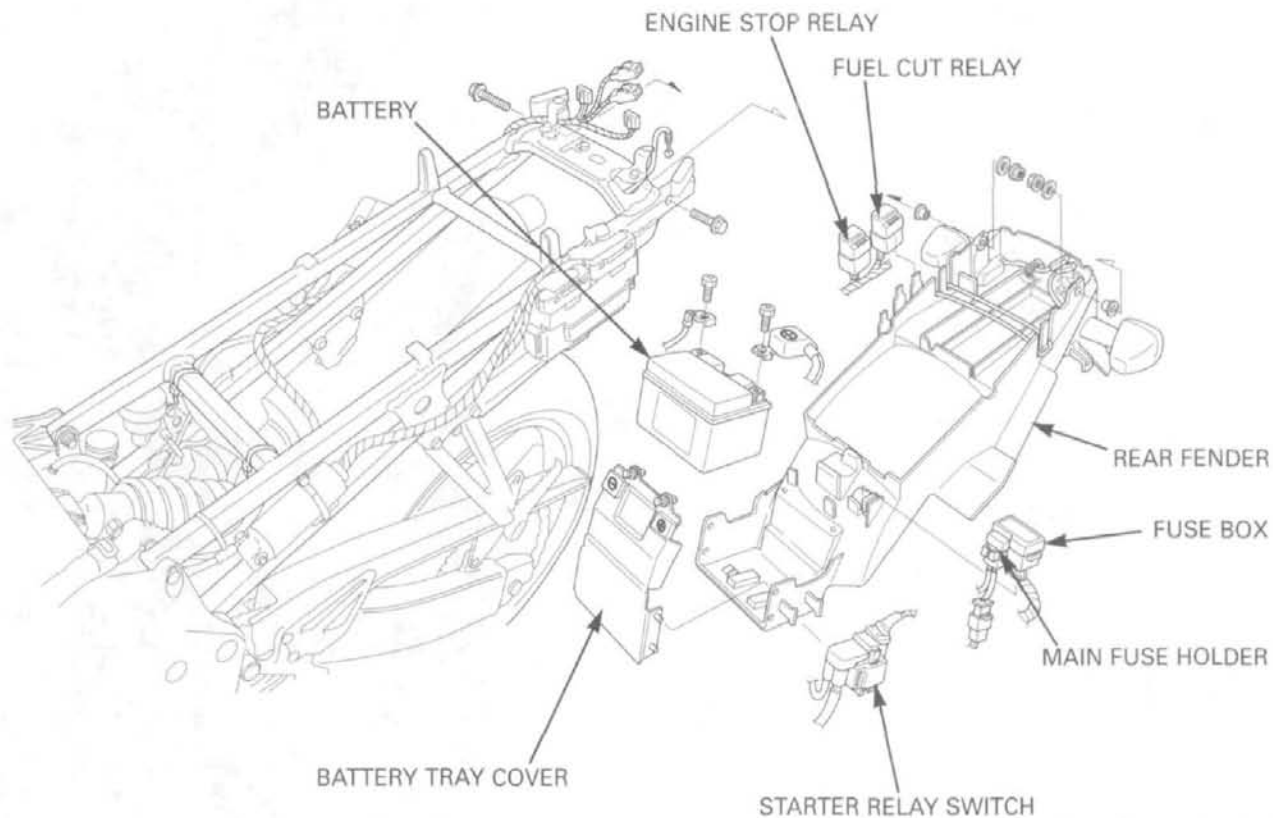
Remove the two rear fender mounting bolts, nuts and collars.



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



### INSTALLATION



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

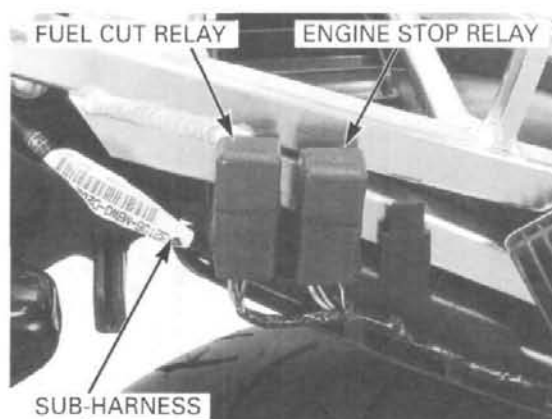
Install the rear fender aligning its lower groove with the seat rail brace.



Install the rear fender mounting collars, bolts and nuts, tighten the nuts securely.



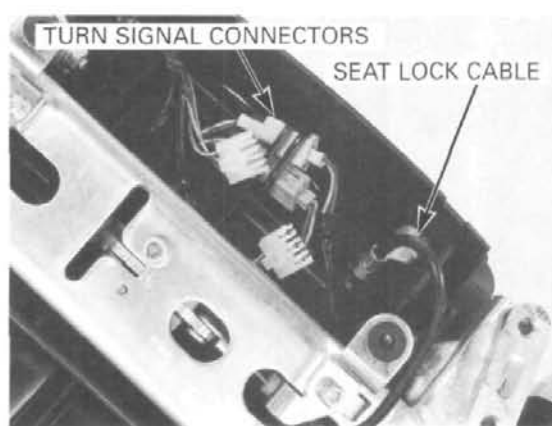
Route the rear sub-harness properly and install it into the rear fender wire guides. Install the fuel cut relay and engine stop relay onto the rear fender bosses.



Connect the rear turn signal connectors and clamp it.

Connect the seat lock cable to the cable stay.

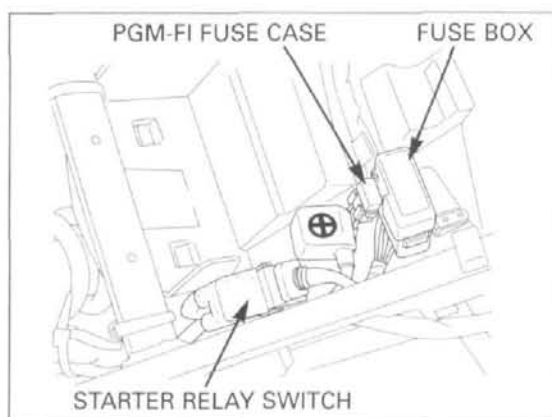
Install the removed parts in the reverse order of removal.



Install the starter relay switch to the rear fender boss.

Install the PGM-FI fuse case and fuse box.

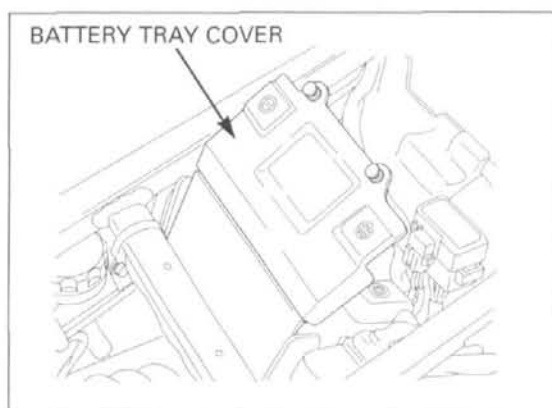
Install the shock absorber reservoir to the seat rail (page 14-9).



Install the battery tray cover bosses to the rear fender holes.

Install the following:

- Battery (page 16-5)
- Rear cowl (page 2-5)

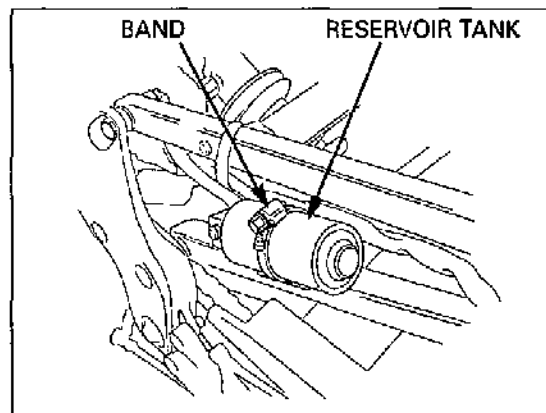


## **SEAT RAIL ('01 – '03)**

### **REMOVAL**

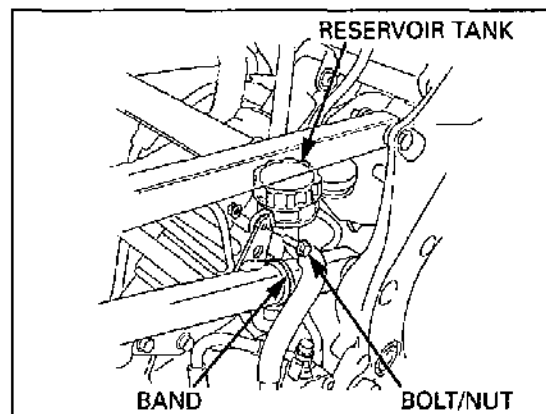
Remove the rear fender (page 2-15).

Loosen the rear shock absorber reservoir tank band and remove the reservoir tank from the seat rail.



Remove the brake light switch wire band.

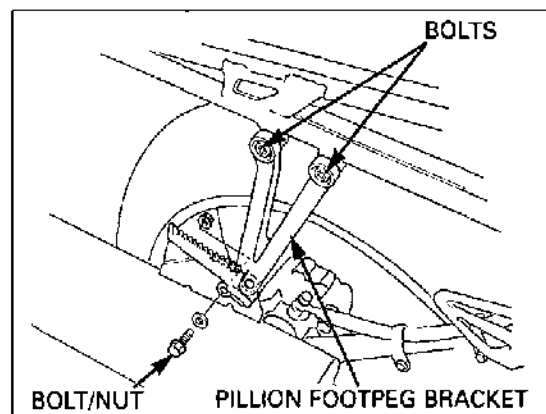
Remove the bolt/nut and rear brake reservoir tank from the seat rail.



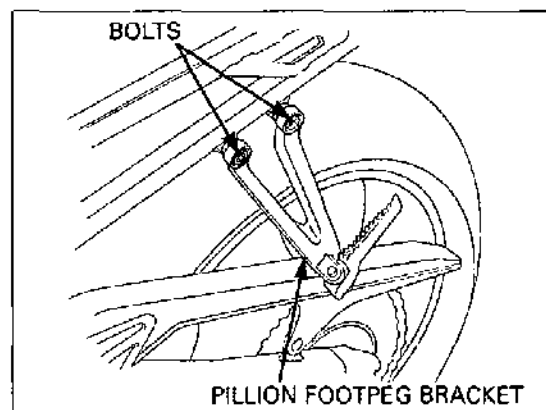
Remove the regulator/rectifier (page 16-9).

Remove the muffler mounting bolt/nut.

Remove the bolts and right pillion footpeg bracket.

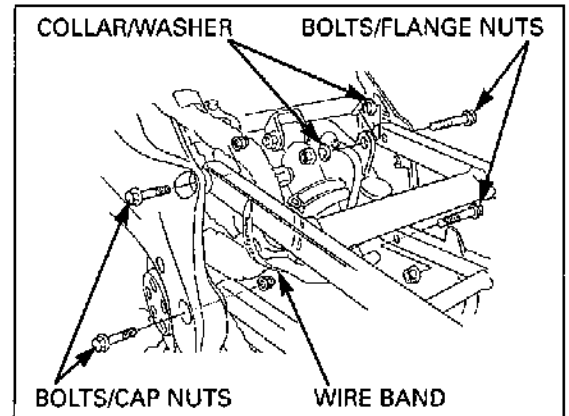


Remove the bolts and left pillion footpeg bracket.

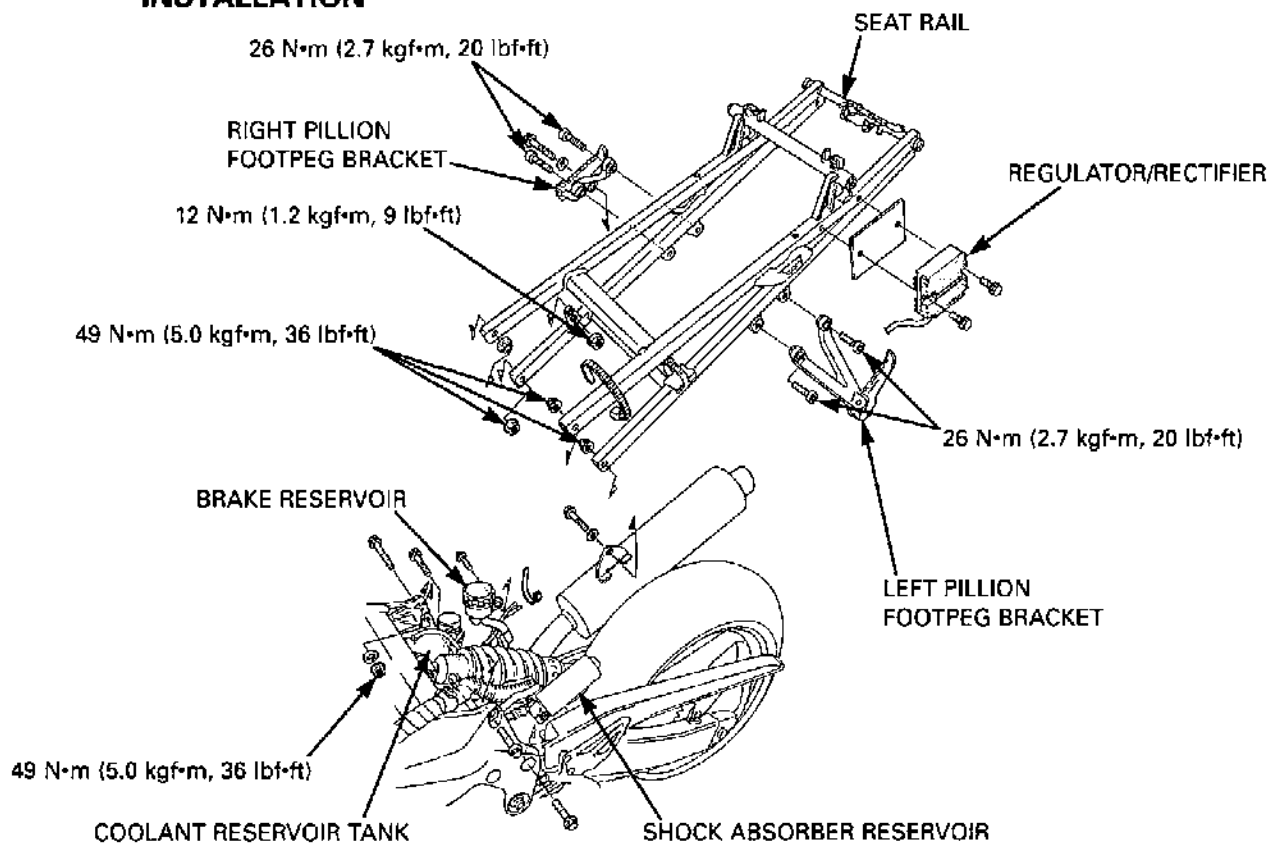


Remove the main wire harness band.

Remove the seat rail mounting bolts/nuts, coolant reservoir tank mounting collar/washer and seat rail.



## INSTALLATION



Install the seat rail onto the frame.

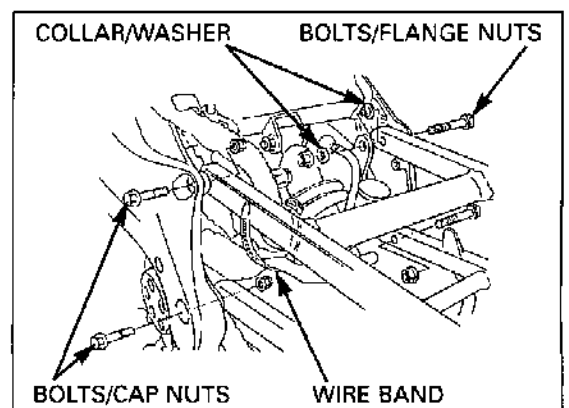
*Install the cap nuts onto the left seat rail mount.*

Set the coolant reservoir tank, collar and washer to the right upper mount, then install the mounting bolts and nuts.

Hold the mounting bolts and tighten the nuts to the specified torque.

**TORQUE: 49 N·m (5.0 kgf·m, 36 lbf·ft)**

Secure the main wire harness with the wire band.

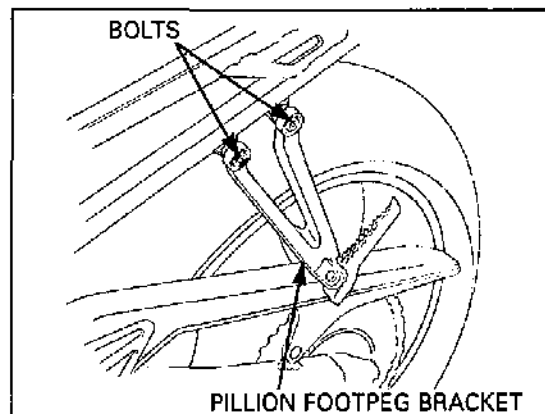




## FRAME/BODY PANELS/EXHAUST SYSTEM

Install the left pillion footpeg bracket and tighten the bolts to the specified torque.

**TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)**

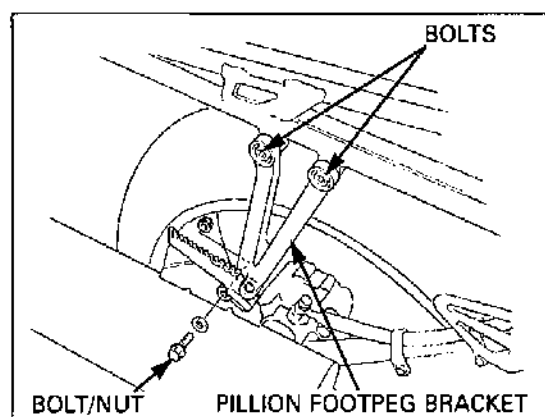


Install the left pillion footpeg bracket and tighten the bolts to the specified torque.

**TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)**

Install the muffler mounting bolt, washer and nut, and tighten the nut securely.

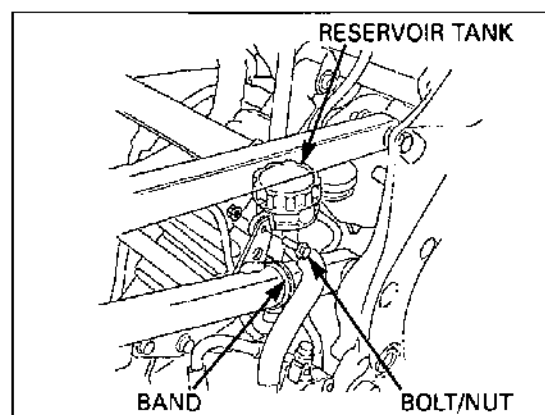
Install the regulator/rectifier (page 16-9).



Route the rear brake reservoir hose properly, install and tighten the bolt/nut to the specified torque.

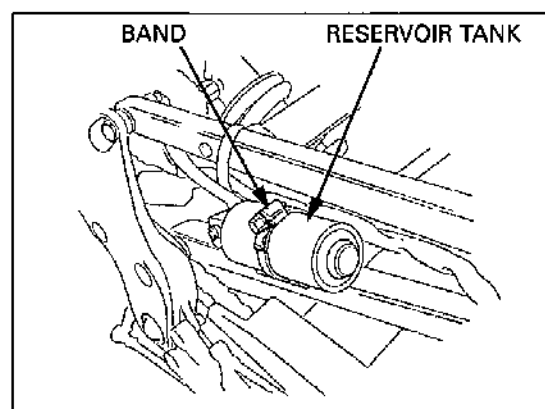
**TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)**

Clamp the rear brake light switch wire with the wire band.



Install the rear shock absorber reservoir with its compression adjuster facing out. Tighten the band screw securely.

Install the removed parts in the reverse order of removal.

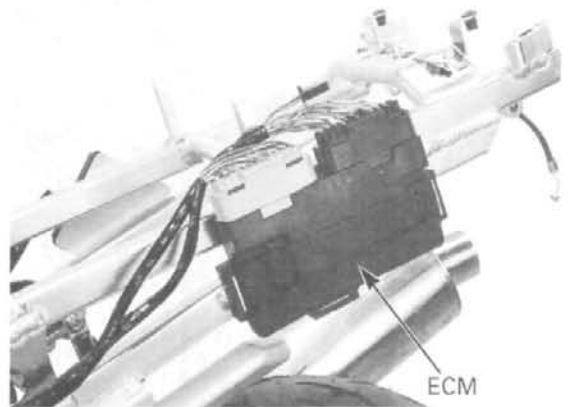


## SEAT RAIL (After '03)

### REMOVAL

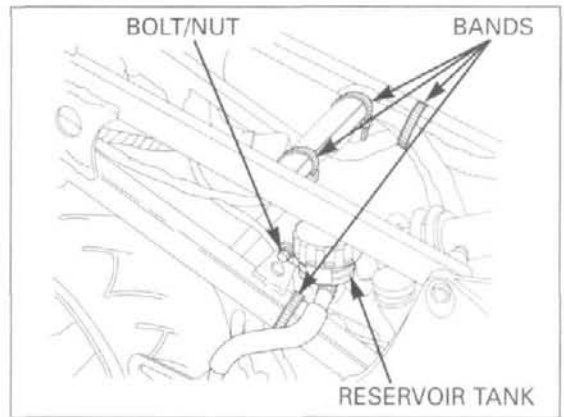
Remove the rear fender (page 2-18).

Remove the ECM from the seat rail.



Remove the main wire harness and rear sub-harness bands.

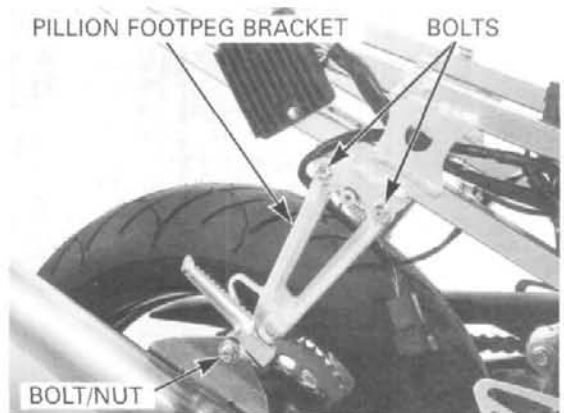
Remove the bolt/nut and rear brake reservoir tank from the seat rail.



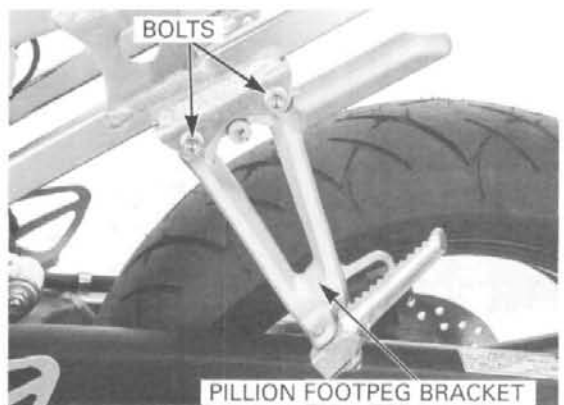
Remove the regulator/rectifier (page 16-9).

Remove the muffler mounting bolt/nut.

Remove the bolts and right pillion footpeg bracket.

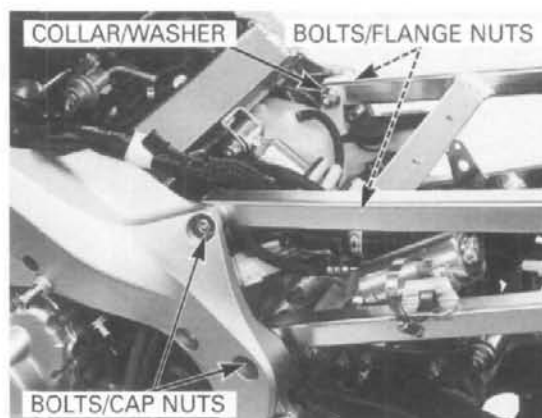


Remove the bolts and left pillion footpeg bracket.

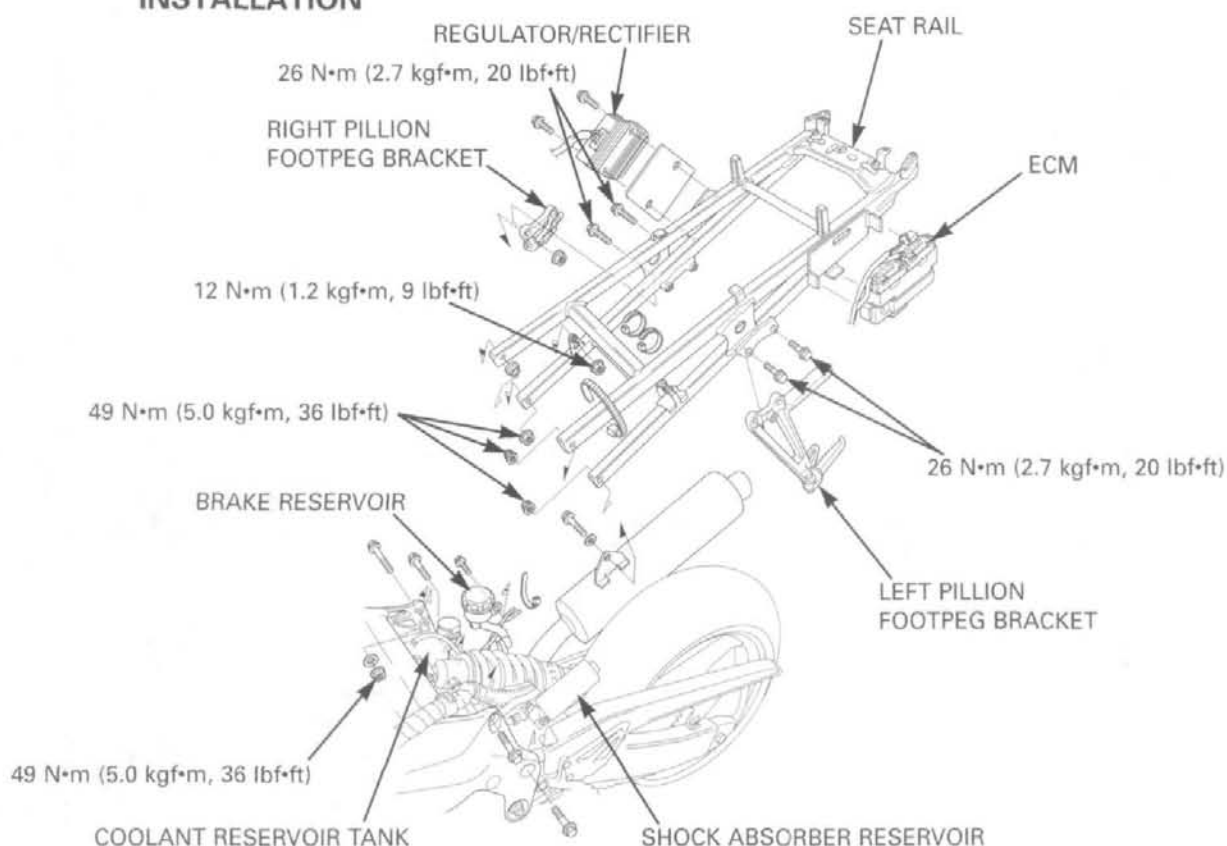


## FRAME/BODY PANELS/EXHAUST SYSTEM

Remove the seat rail mounting bolts/nuts, coolant reservoir tank mounting collar/washer and seat rail.



### INSTALLATION

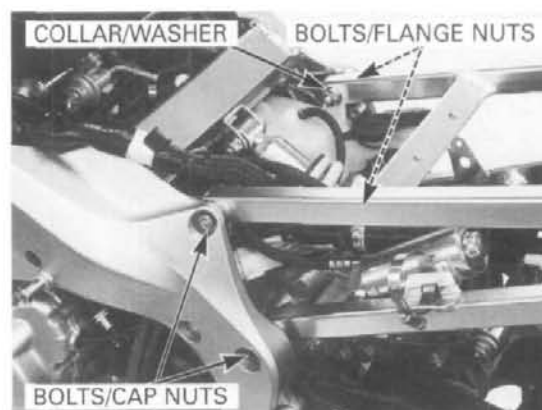


Install the seat rail to the frame.

Set the coolant reservoir tank, collar and washer to the right upper mount, then install the mounting bolts and nuts.

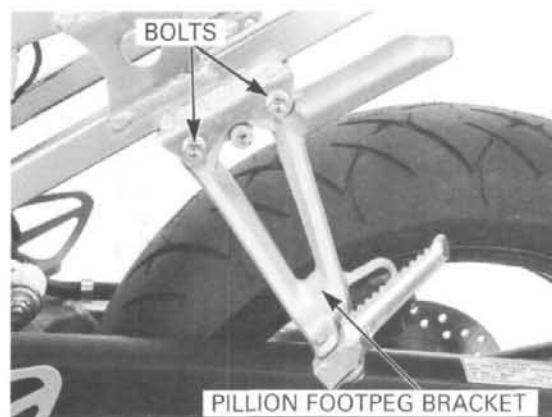
Hold the mounting bolts and tighten the nuts to the specified torque.

**TORQUE:** 49 N·m (5.0 kgf·m, 36 lbf·ft)



Install the left pillion footpeg bracket and tighten the bolts to the specified torque.

**TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)**

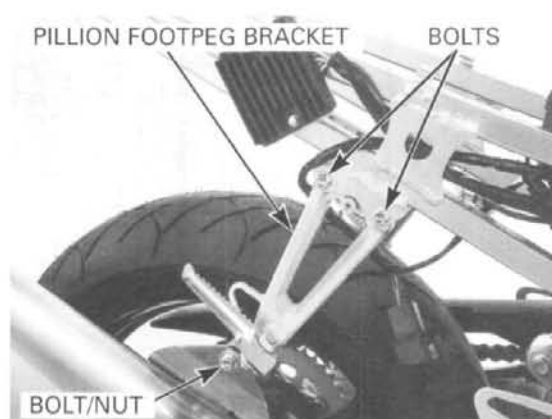


Install the right pillion footpeg bracket and tighten the bolts to the specified torque.

**TORQUE: 26 N·m (2.7 kgf·m, 20 lbf·ft)**

Install the muffler mounting bolt, washer and nut, tighten the nut securely.

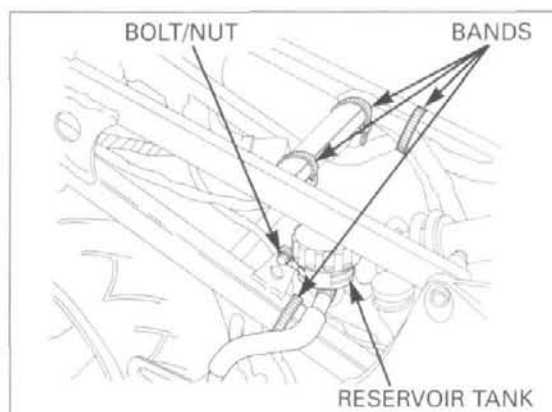
Install the regulator/rectifier (page 16-10).



Route the rear brake reservoir hose properly, install and tighten the bolt/nut to the specified torque.

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

Clamp the main wire harness and rear sub-harness with wire bands.



Install the ECM (page 5-85).

Install the removed parts in the reverse order of removal.



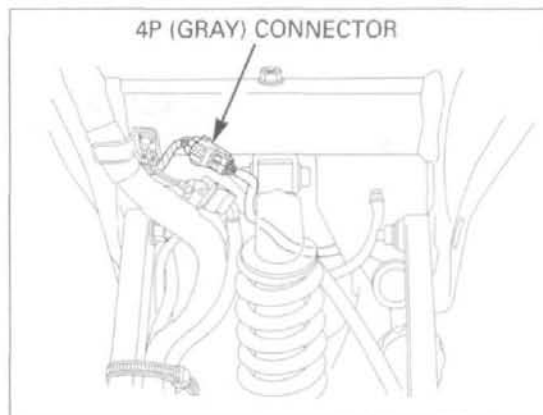
## MUFFLER/EXHAUST PIPE

### REMOVAL

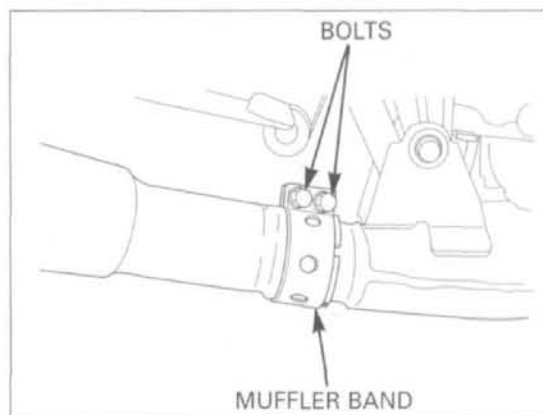
Remove the lower cowl and inner half cowl (page 2-6).

*California type  
only:*

Disconnect the O<sub>2</sub> sensor 4P (Gray) connector.  
Remove the O<sub>2</sub> sensor wire from the frame.

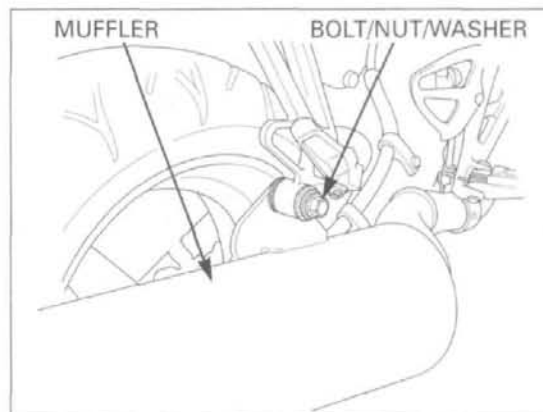


Loosen the muffler band bolts.

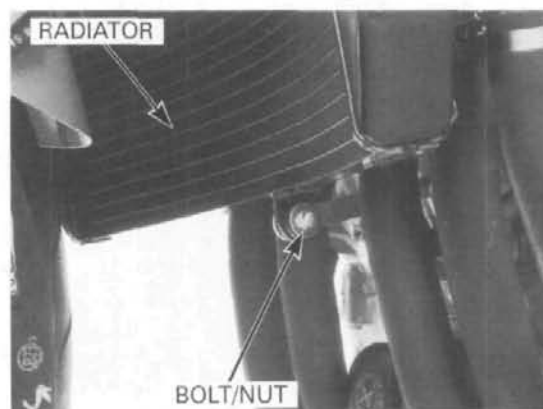


Remove the muffler mounting bolt/nut and washer, then remove the muffler.

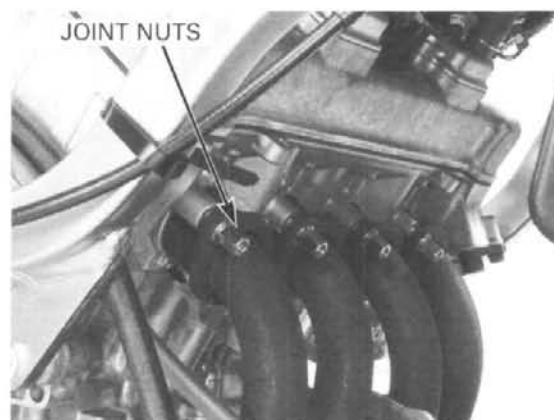
Remove the gasket.



Remove the radiator lower mounting bolt/nut, then move the radiator forward.



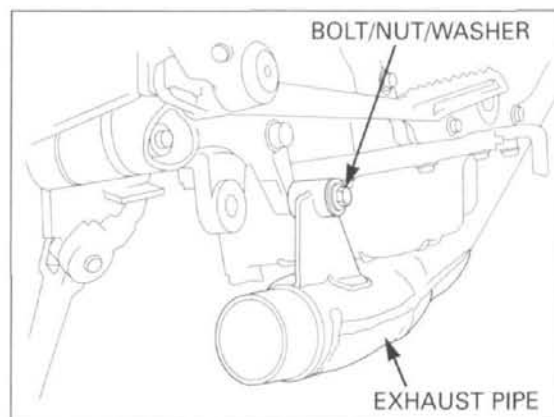
Remove the exhaust pipe joint nuts.



Remove the following:

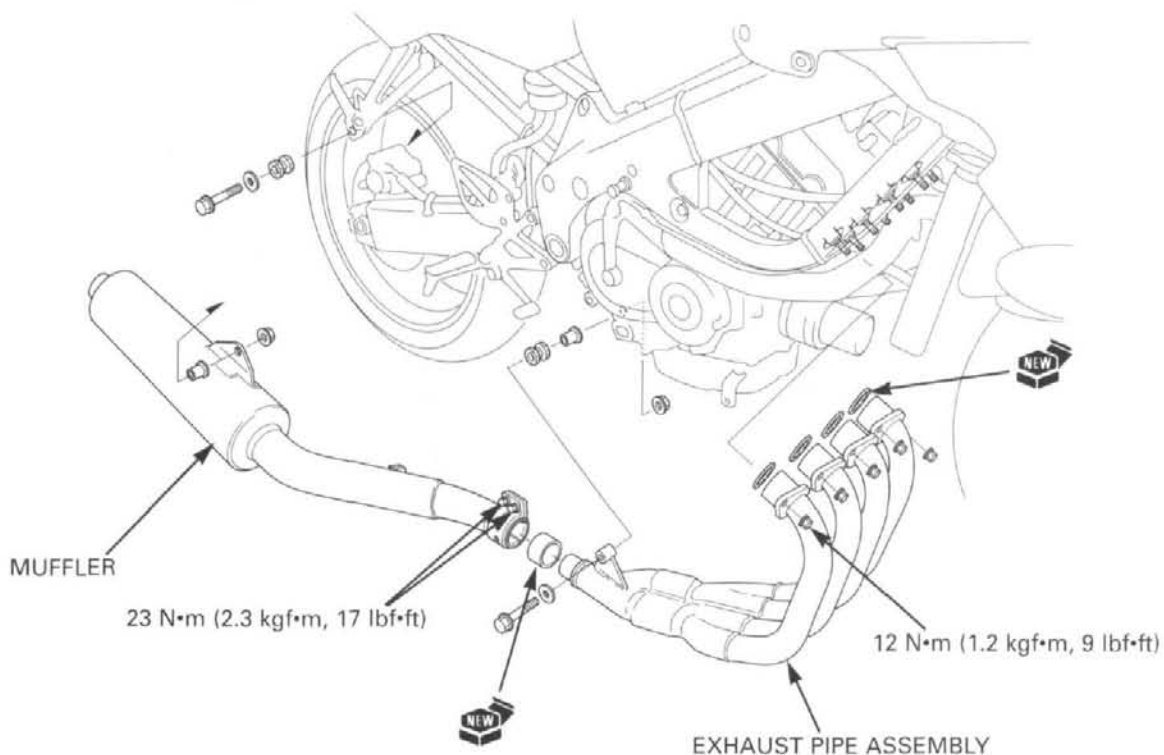
- Exhaust pipe mounting bolt/nut
- Washer
- Exhaust pipe
- Exhaust pipe gaskets

Remove the collar and mounting rubbers from the exhaust pipe bracket.



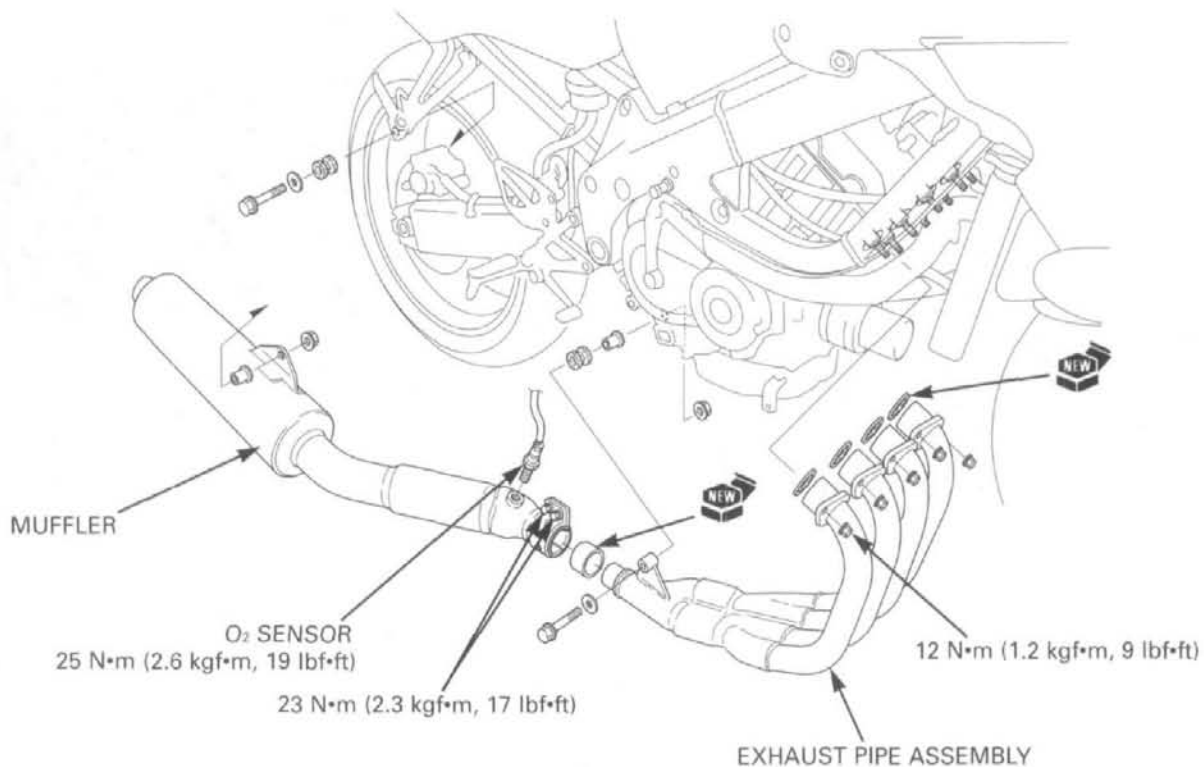
## INSTALLATION

Except California type:



## FRAME/BODY PANELS/EXHAUST SYSTEM

California type:



*Always replace the exhaust pipe gaskets with new ones.*

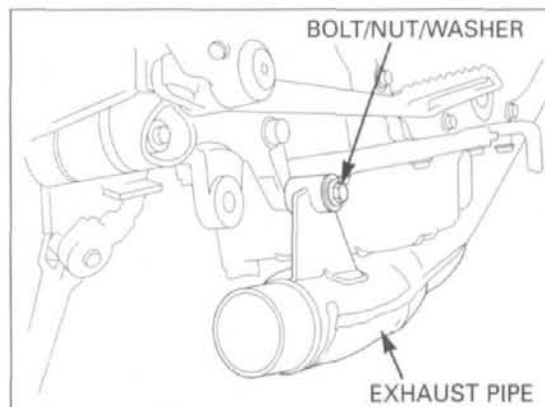
Install the new exhaust pipe gaskets onto the exhaust ports of the cylinder head.



Install the mounting rubbers and collar into the exhaust pipe mounting bracket.

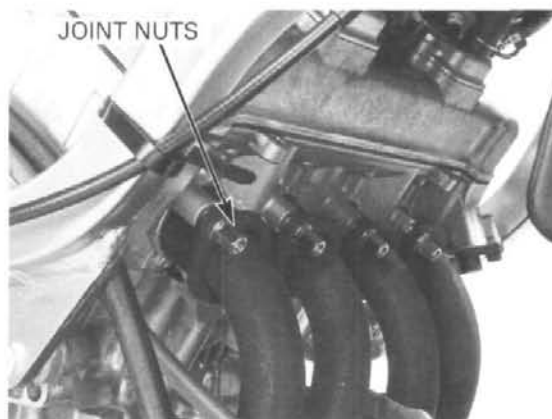
*Install the washer, bolt and nut properly.*

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

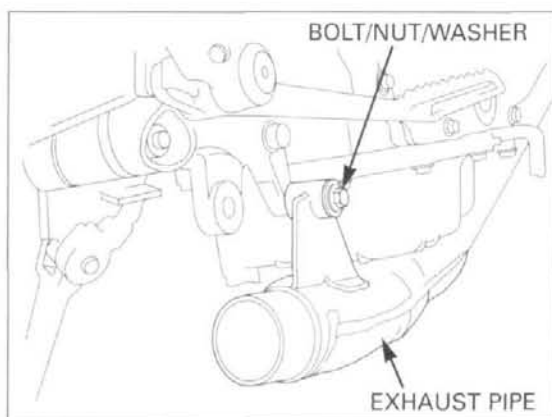


Tighten the exhaust pipe joint nuts to the specified torque.

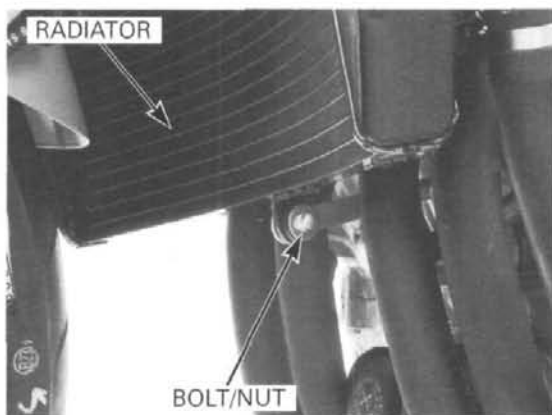
**TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)**



Tighten the exhaust pipe mounting bolt/nut.

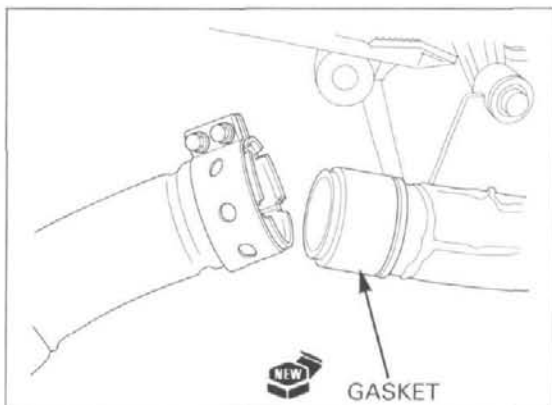


Install the radiator lower mounting bolt/nut and tighten the nut.



Install the new gasket onto the exhaust pipe as shown.

Install the muffler.



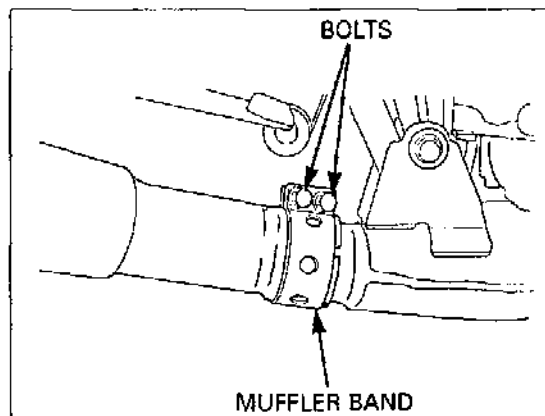


## FRAME/BODY PANELS/EXHAUST SYSTEM

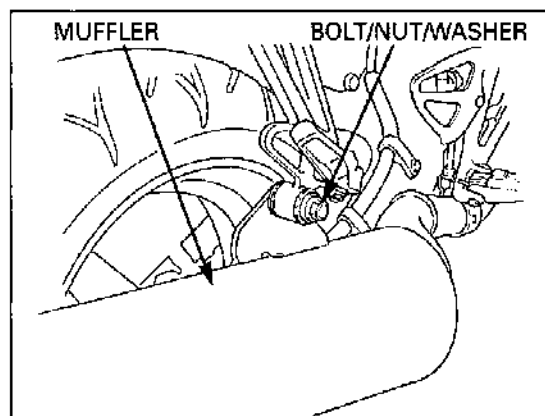
Temporarily install the muffler mounting bolt/nut.

Tighten the band band bolts to the specified torque.

**TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)**



Tighten the muffler mounting bolt/nut securely.



*California type  
only:*

Route the O<sub>2</sub> sensor wire into the frame.  
Connect the O<sub>2</sub> sensor 4P (Gray) connector.

Install the inner half cowl and lower cowl (page 2-8).

