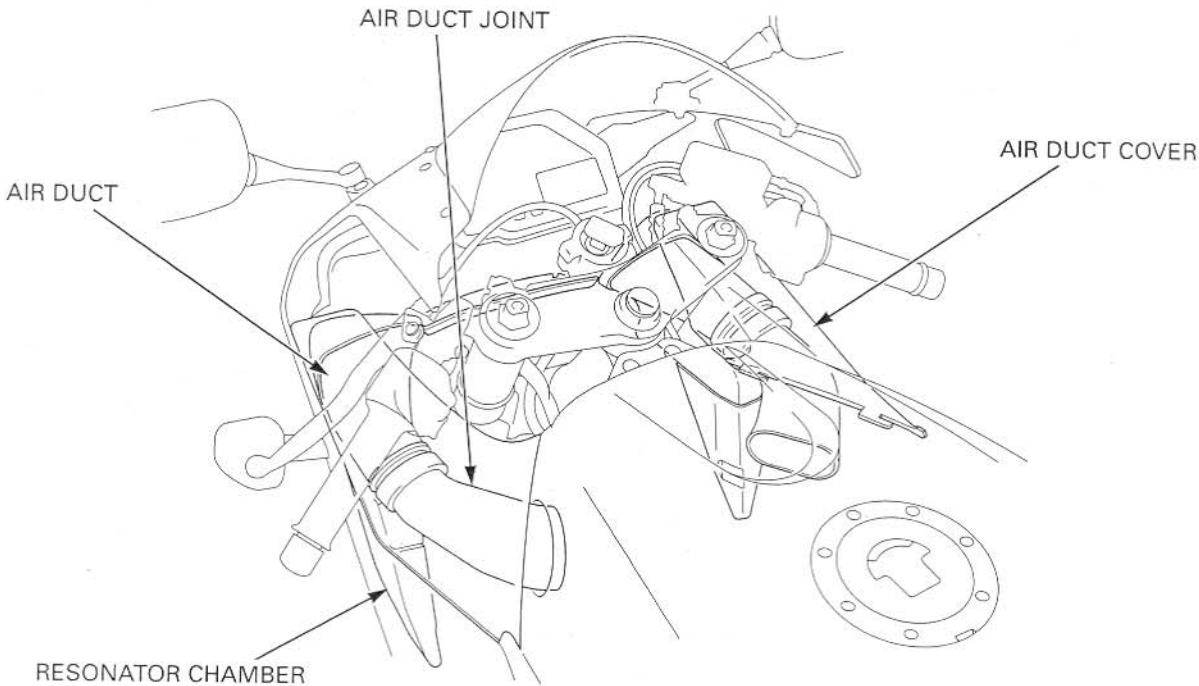
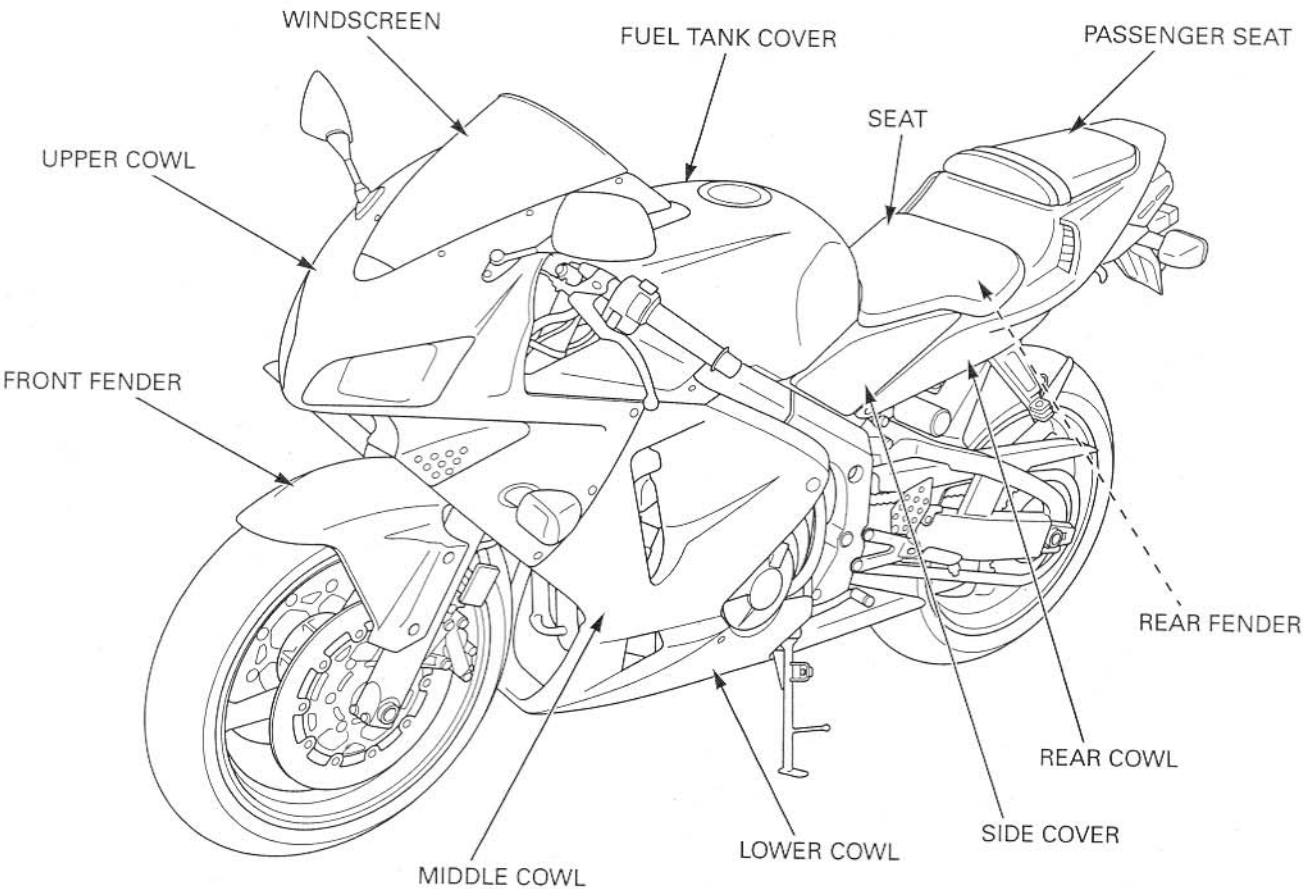


3. FRAME/BODY PANELS/EXHAUST SYSTEM

BODY PANEL LOCATIONS	3-2	AIR DUCT COVERS	3-9
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TROUBLESHOOTING	3-3	FUEL TANK COVER.....	3-15
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PASSENGER SEAT.....	3-4	REAR FENDER	3-16
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BODY PANEL LOCATIONS



SERVICE INFORMATION

GENERAL

- This section covers removal and installation of the body panels, exhaust system and seat rail.
- 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 with a new one 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.
- Always inspect the exhaust system for leaks after installation.

TORQUE VALUES

Lower cowl-to-middle cowl pan screw	1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)
Middle cowl-to-upper cowl pan screw	1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)
Windscreen setting screw	0.5 N·m (0.05 kgf·m, 0.4 lbf·ft)
Front brake hose clamp bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)
Front brake hose 3-way joint bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)
Rear brake reservoir mounting bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)
Seat rail upper mounting flange nut	54 N·m (5.5 kgf·m, 40 lbf·ft)
Seat rail lower mounting flange bolt	44 N·m (4.5 kgf·m, 33 lbf·ft)
Seat rail brace socket bolt	26 N·m (2.7 kgf·m, 20 lbf·ft)
Seat rail assembly flange nut	30 N·m (3.1 kgf·m, 22 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 bracket socket bolt	26 N·m (2.7 kgf·m, 20 lbf·ft)
O ₂ sensor (California type only)	25 N·m (2.6 kgf·m, 19 lbf·ft)

TROUBLESHOOTING

Excessive exhaust noise

- Broken exhaust system
- Exhaust gas leak

Poor performance

- Deformed exhaust system
- Exhaust gas leak
- Clogged muffler

FRAME/BODY PANELS/EXHAUST SYSTEM

SEAT

REMOVAL

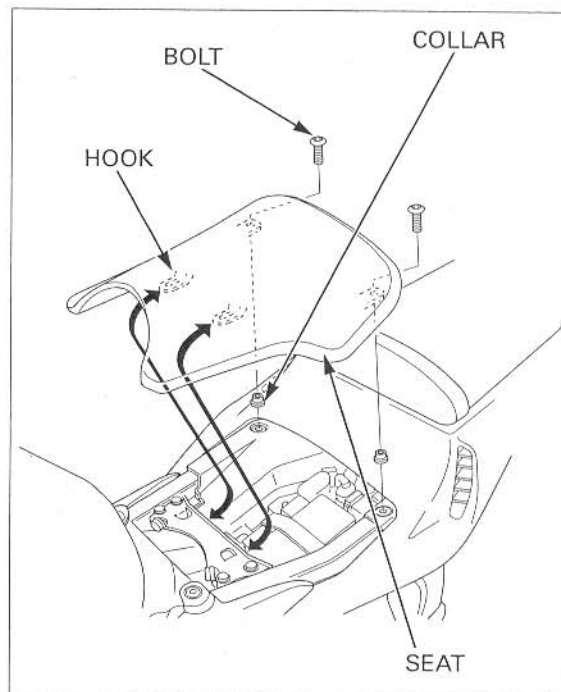
Remove the two seat mounting bolts and collars.

Remove the seat by pulling it backward.

INSTALLATION

Install the seat hooks under the fuel tank rear bracket.

Install the collars and seat mounting bolts.



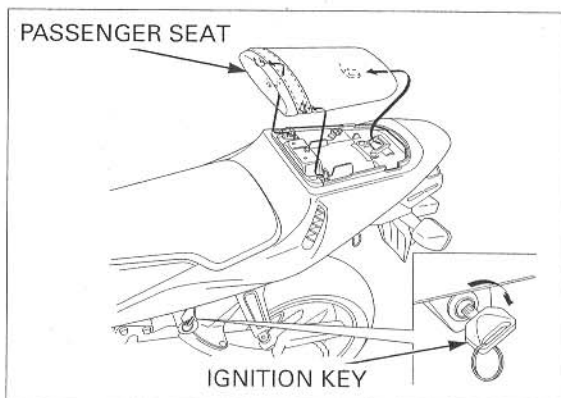
PASSENGER SEAT

REMOVAL/INSTALLATION

Unhook the passenger seat lock using the ignition key.

Remove the passenger seat by pulling it forward.

Install the passenger seat in the reverse order of removal.



SIDE COVERS

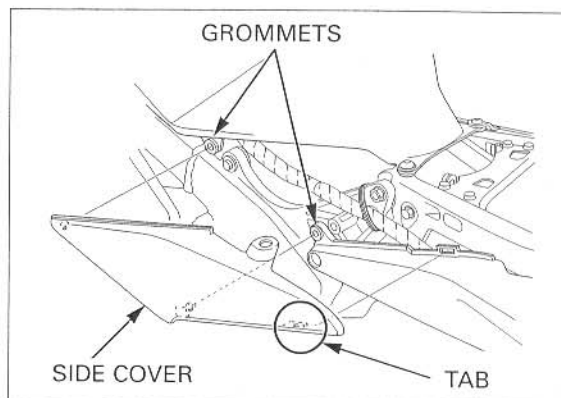
REMOVAL/INSTALLATION

Remove the seat (page 3-4).

Be careful not to damage tab and groove.

Remove the side cover by carefully releasing the bosses from the grommets and slide it forward.

Install the side cover in the reverse order of removal.



REAR COWL

REMOVAL

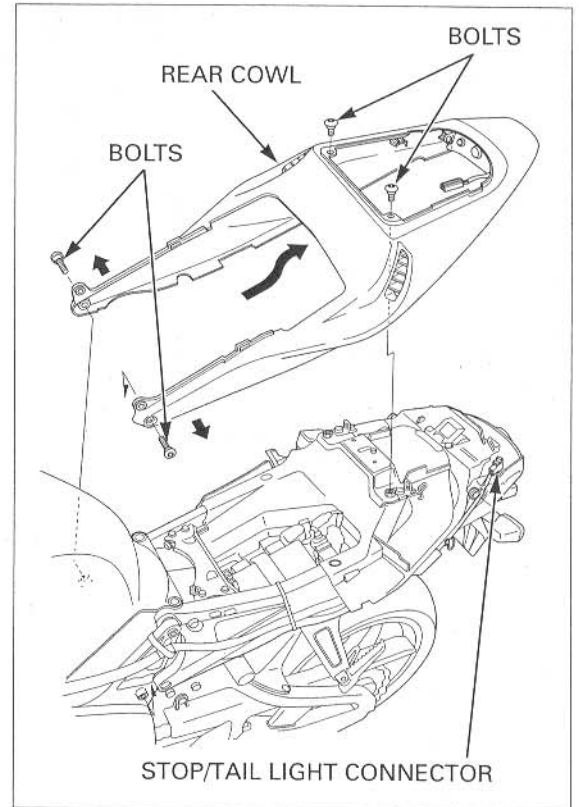
Remove the following:

- Seat (page 3-4)
- Passenger seat (page 3-4)
- Side covers (page 3-4)

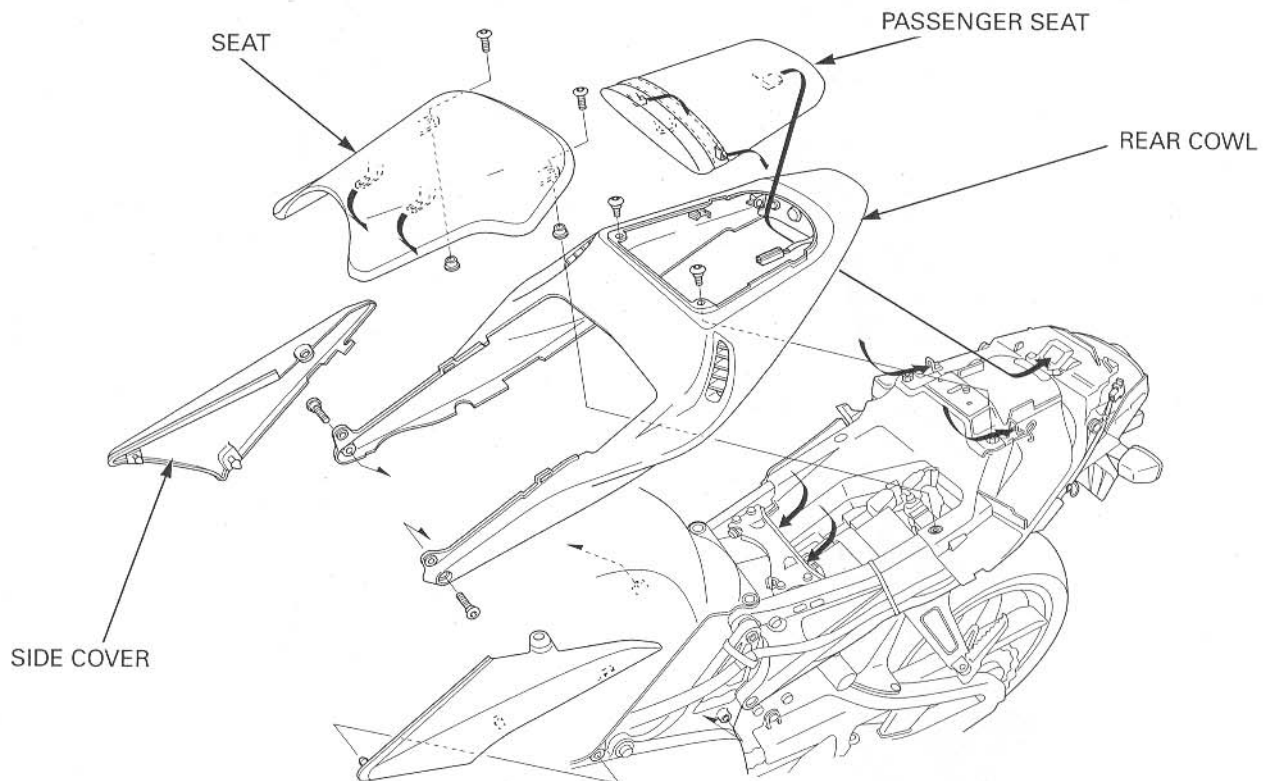
Remove the four bolts.

Disconnect the stop/tail light connector.

Carefully pull both out sides of the rear cowl, then remove it backward.



INSTALLATION

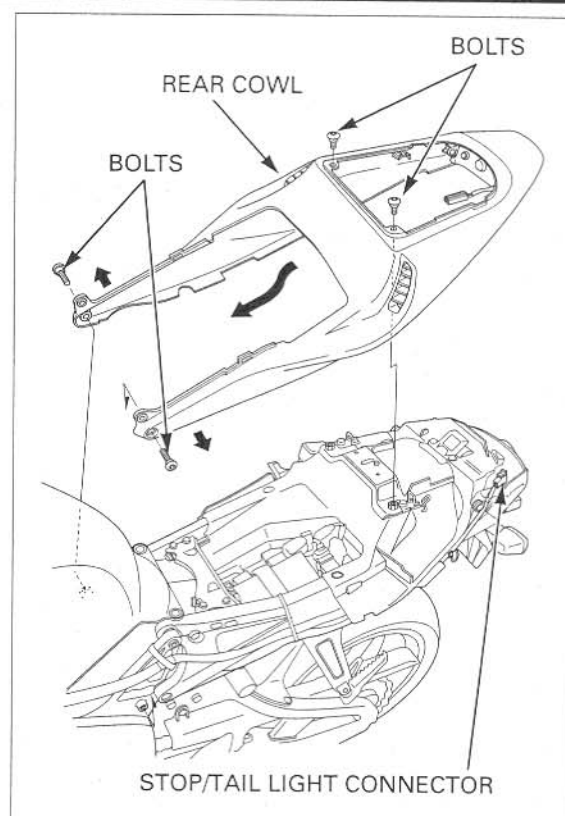


FRAME/BODY PANELS/EXHAUST SYSTEM

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

Install the rear cowl over the seat rail being careful not to damage the wire harness. Connect the stop/tail light connector.

Install the removed parts in the reverse order of removal.



LOWER COWLS

Be careful not to damage the tabs and grooves.

REMOVAL/INSTALLATION

Remove the five trim clips and bolt from the bottom of the lower cowl.

Remove the lower cowl-to-middle cowl pan screws. Remove the lower cowl mounting bolts and then remove the lower cowl by sliding them backward.

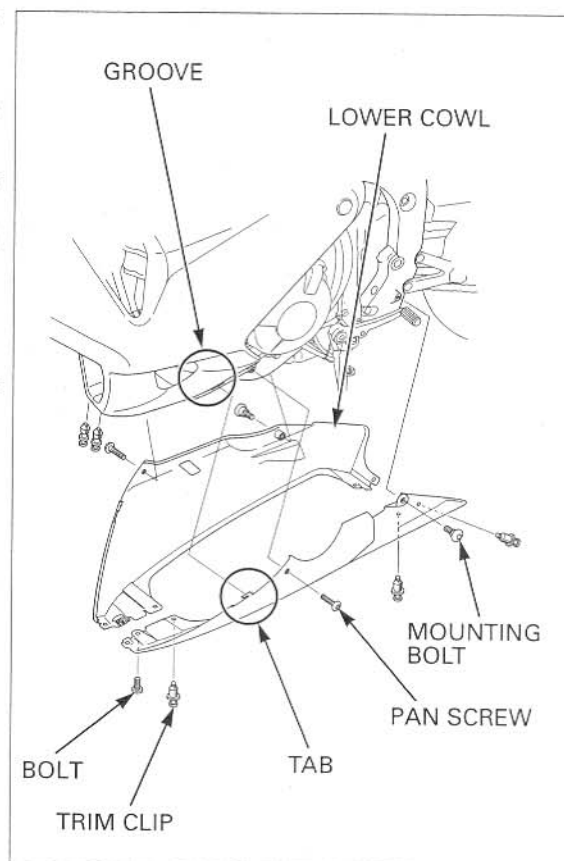
Install the lower cowl by aligning the tabs of the lower cowl with the grooves of the middle cowl.

Install and tighten the lower cowl-to-middle cowl pan screws to the specified torque.

TORQUE: 1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)

Install the lower cowl mounting bolts.

Install the five trim clips and bolt from the bottom of the lower cowl.



FRAME/BODY PANELS/EXHAUST SYSTEM

California type: Remove the seven trim clips and bolt from the bottom of the lower cowl.

Remove the lower cowl-to-middle cowl pan screws. Remove the lower cowl mounting bolts and then remove the lower cowl by sliding them backward.

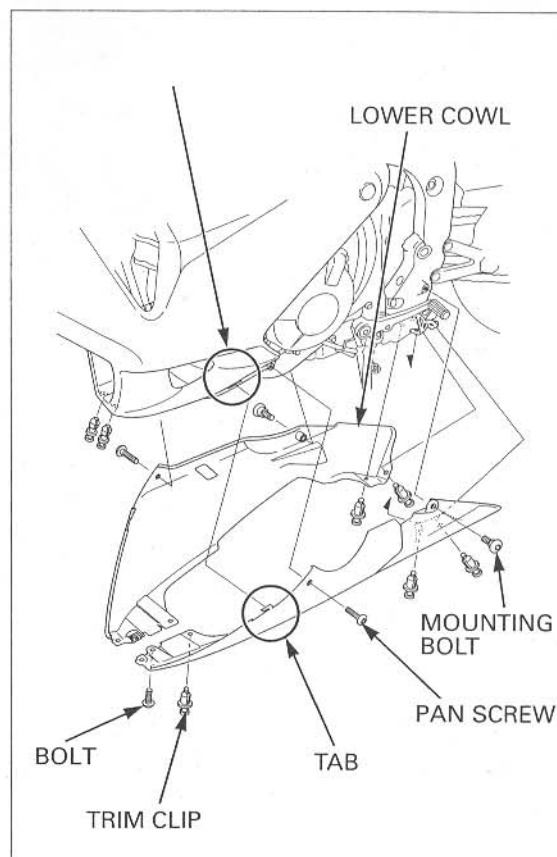
Install the lower cowl by aligning the tabs of the lower cowl with the grooves of the middle cowl.

Install and tighten the lower cowl-to-middle cowl pan screws to the specified torque.

TORQUE: 1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)

Install the lower cowl mounting bolts.

Install the seven trim clips and bolt from the bottom of the lower cowl.

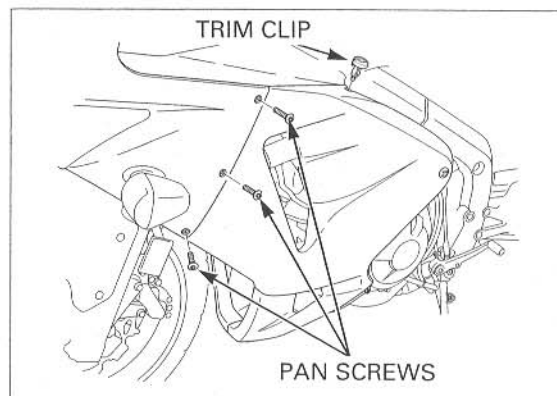


MIDDLE COWLS

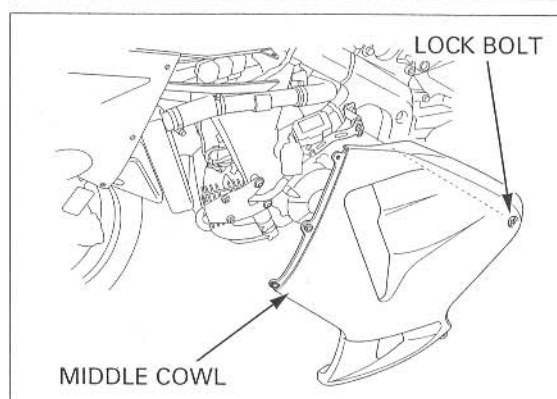
REMOVAL

Remove the lower cowl (page 3-6).

Remove the middle cowl-to-upper cowl pan screws and trim clip.



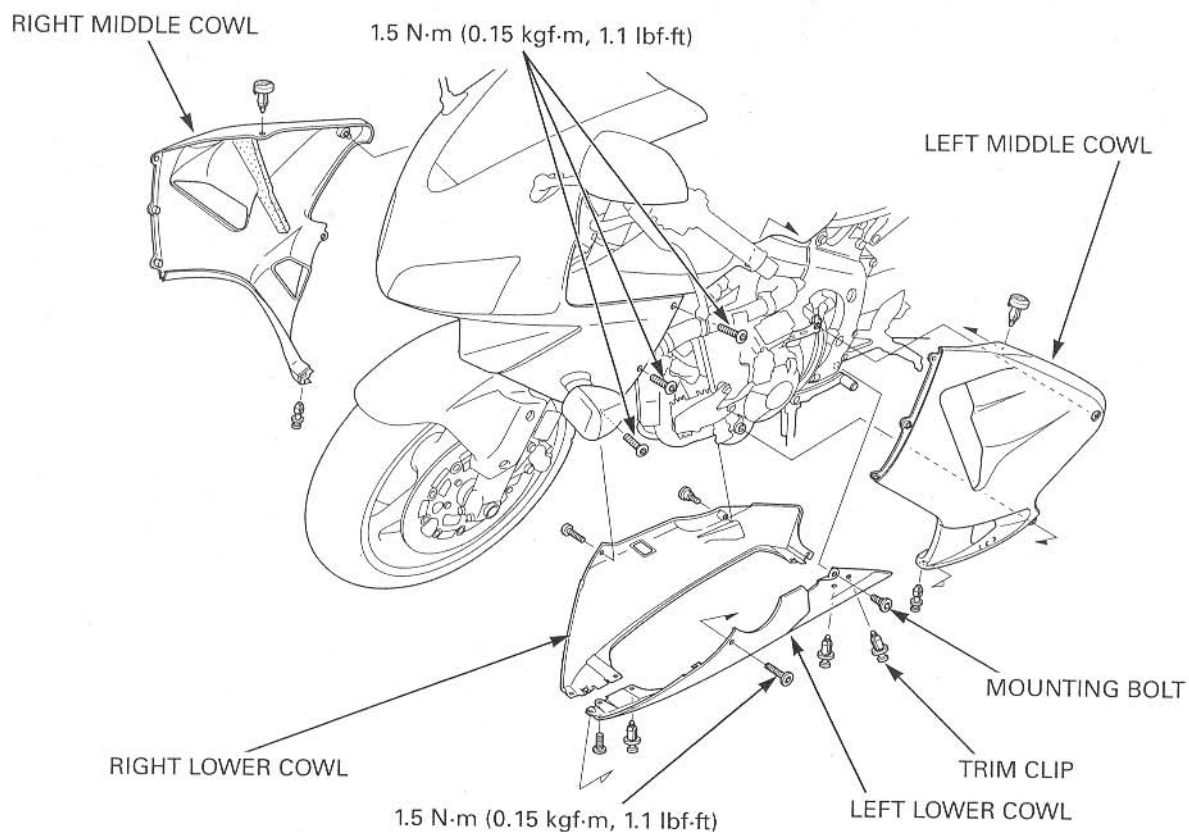
Unlock the lock bolt by turning it counterclockwise and remove the middle cowl.



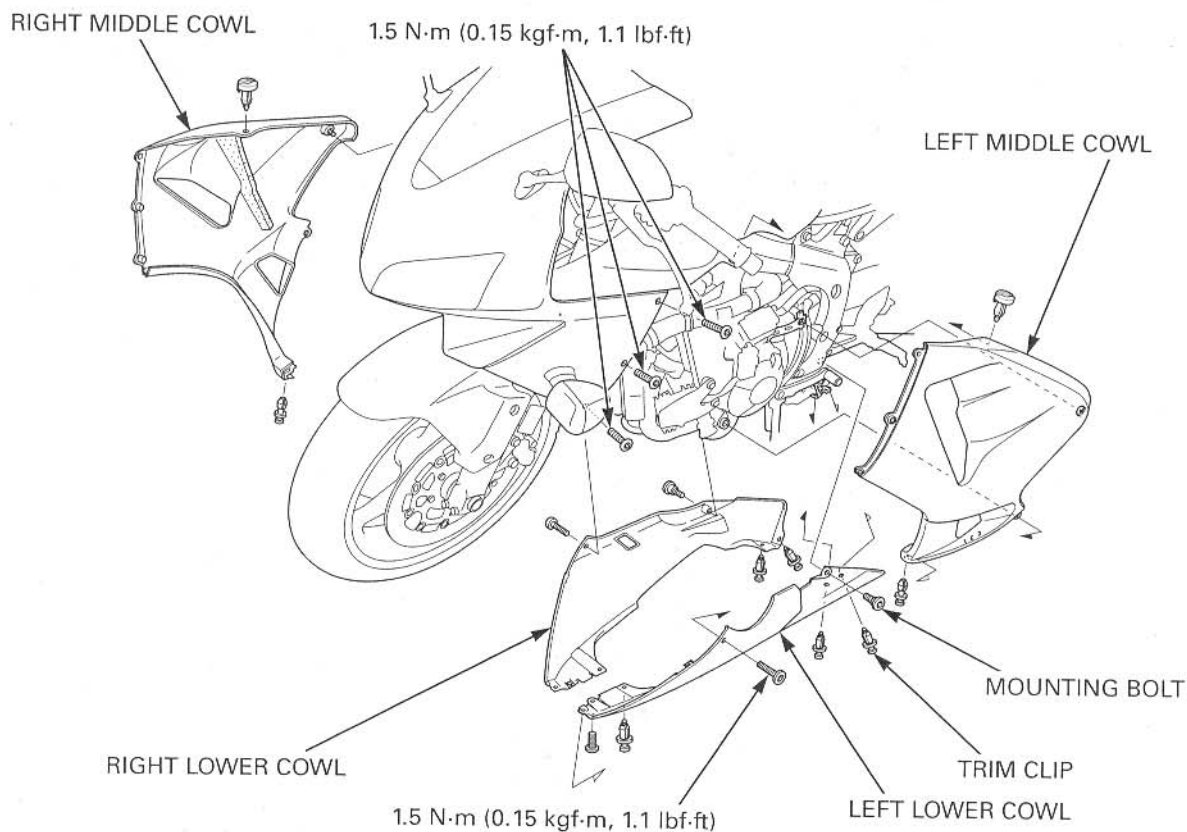
FRAME/BODY PANELS/EXHAUST SYSTEM

INSTALLATION

Except California type:



California type:

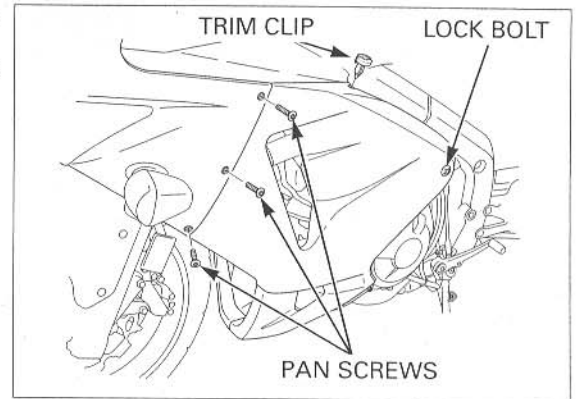


Install the middle cowl and lock the lock bolt by turning it clockwise.
Tighten the upper cowl-to-middle cowl pan screws to the specified torque.

TORQUE: 1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)

Install the trim clip.

Install the lower cowls (page 3-6).



AIR DUCT COVERS

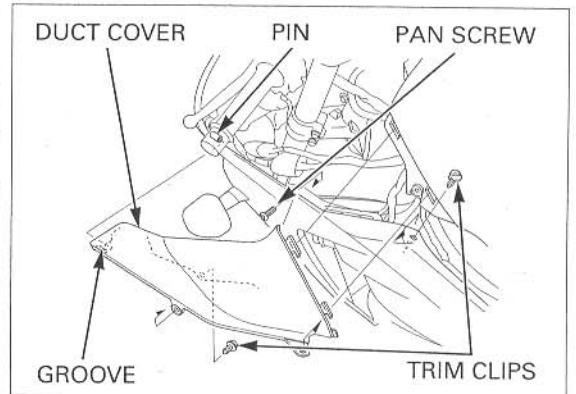
REMOVAL/INSTALLATION

Remove the upper cowl-to-middle cowl pan screw and the two trim clips.

Be careful not to damage the tabs and grooves.

Release the groove of the air duct cover from the pin of the upper cowl and unhook the tabs of the duct cover from the fuel tank cover, then remove the air duct cover.

Install the air duct cover of the reverse order of removal.



UPPER COWL

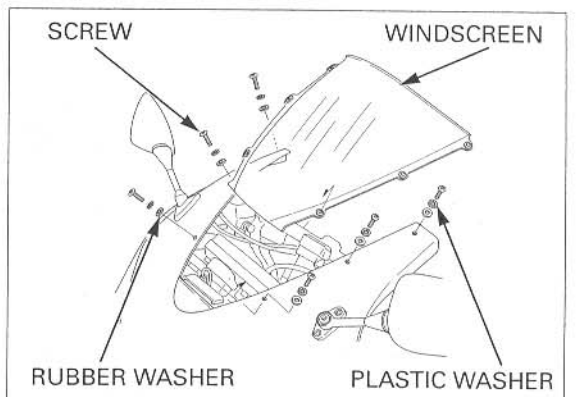
REMOVAL

Remove the following:

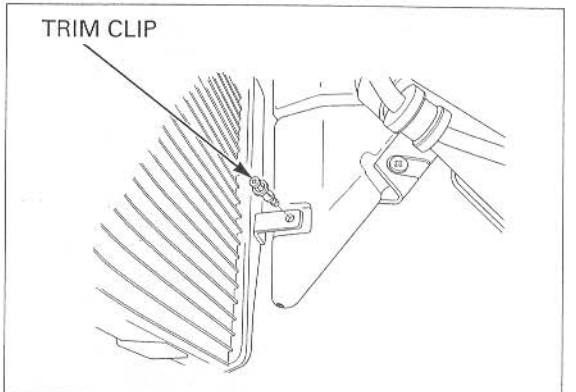
- Lower cowls (page 3-6)
- Middle cowls (page 3-7)
- Air duct covers (page 3-9)

It is not necessary to remove the windscreen in order to remove the upper cowl.

Remove the screws, plastic and rubber washers, then remove the windscreen.

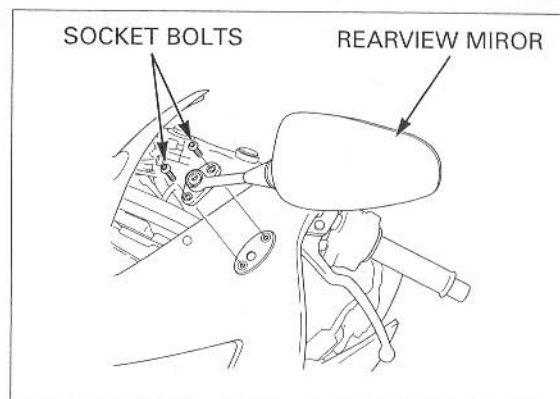


Remove the two trim clips and resonator chambers from the radiator.



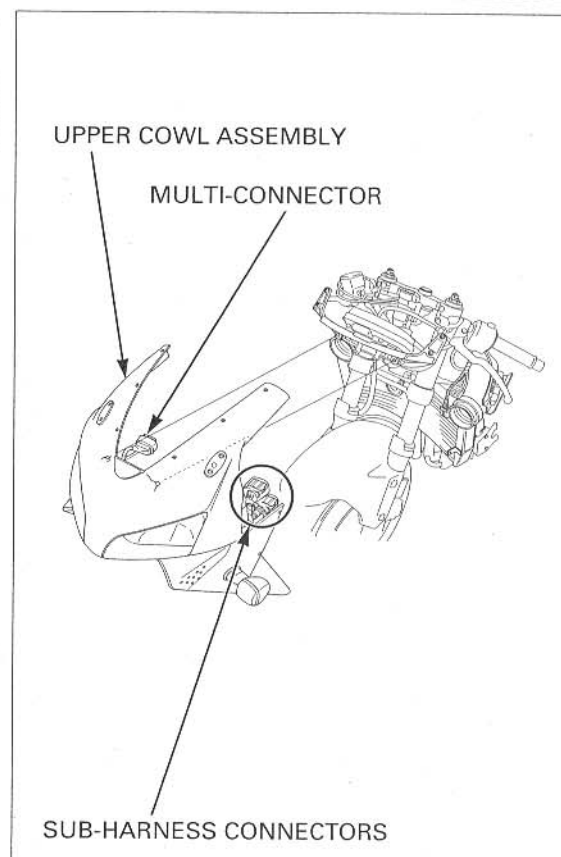
FRAME/BODY PANELS/EXHAUST SYSTEM

Remove the rearview mirror mounting socket bolts and rearview mirrors.



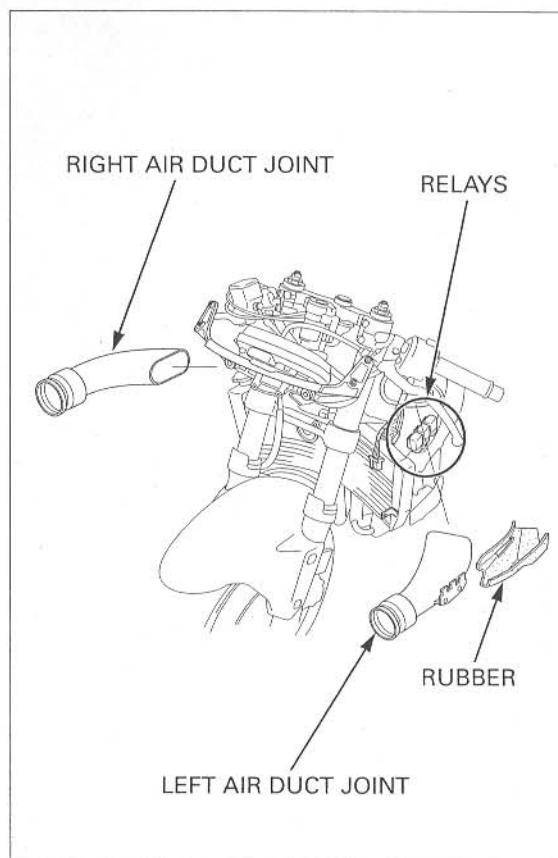
Disconnect the front sub-harness connectors, combination meter multi-connector.

Release the upper cowl off the rearview mirror bolt hole studs and bosses of the upper cowl from the meter stay grommets, then remove the upper cowl assembly.



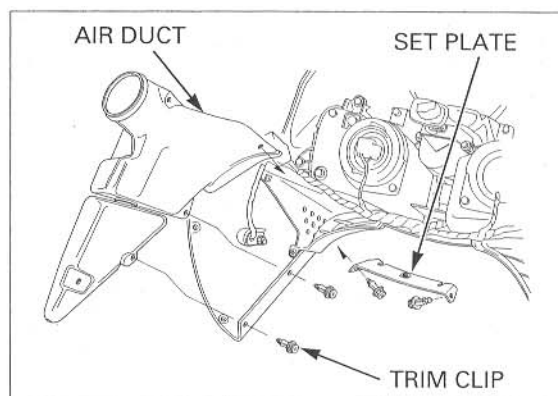
Remove the relays and rubber from the left air duct joint.

Remove the air duct joints from the air cleaner housing.

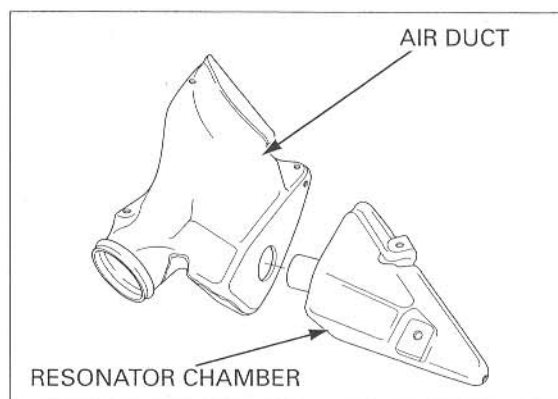


DISASSEMBLY/ASSEMBLY

Remove the trim clips, air ducts and set plate from the upper cowl.



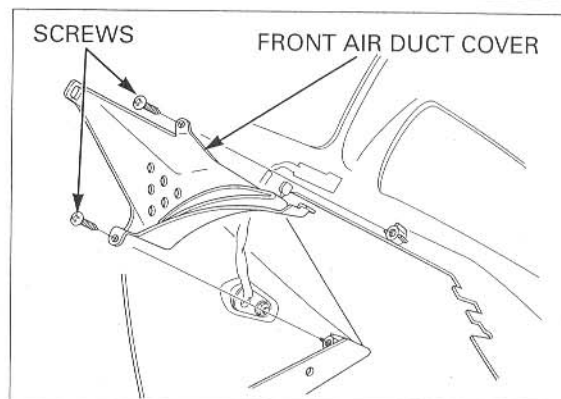
Remove the resonator chamber from the air duct.



FRAME/BODY PANELS/EXHAUST SYSTEM

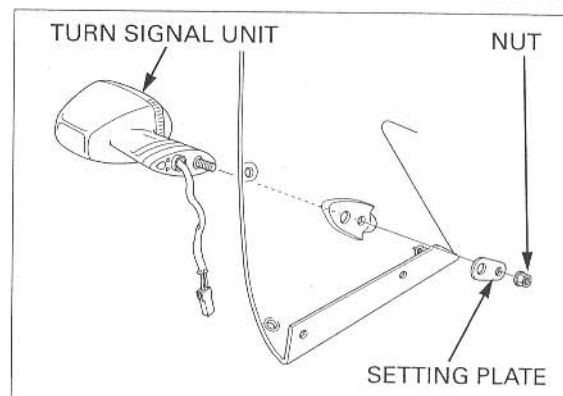
Remove the head light unit from the upper cowl (page 20-6).

Remove the screws and front air duct covers from the upper cowl.

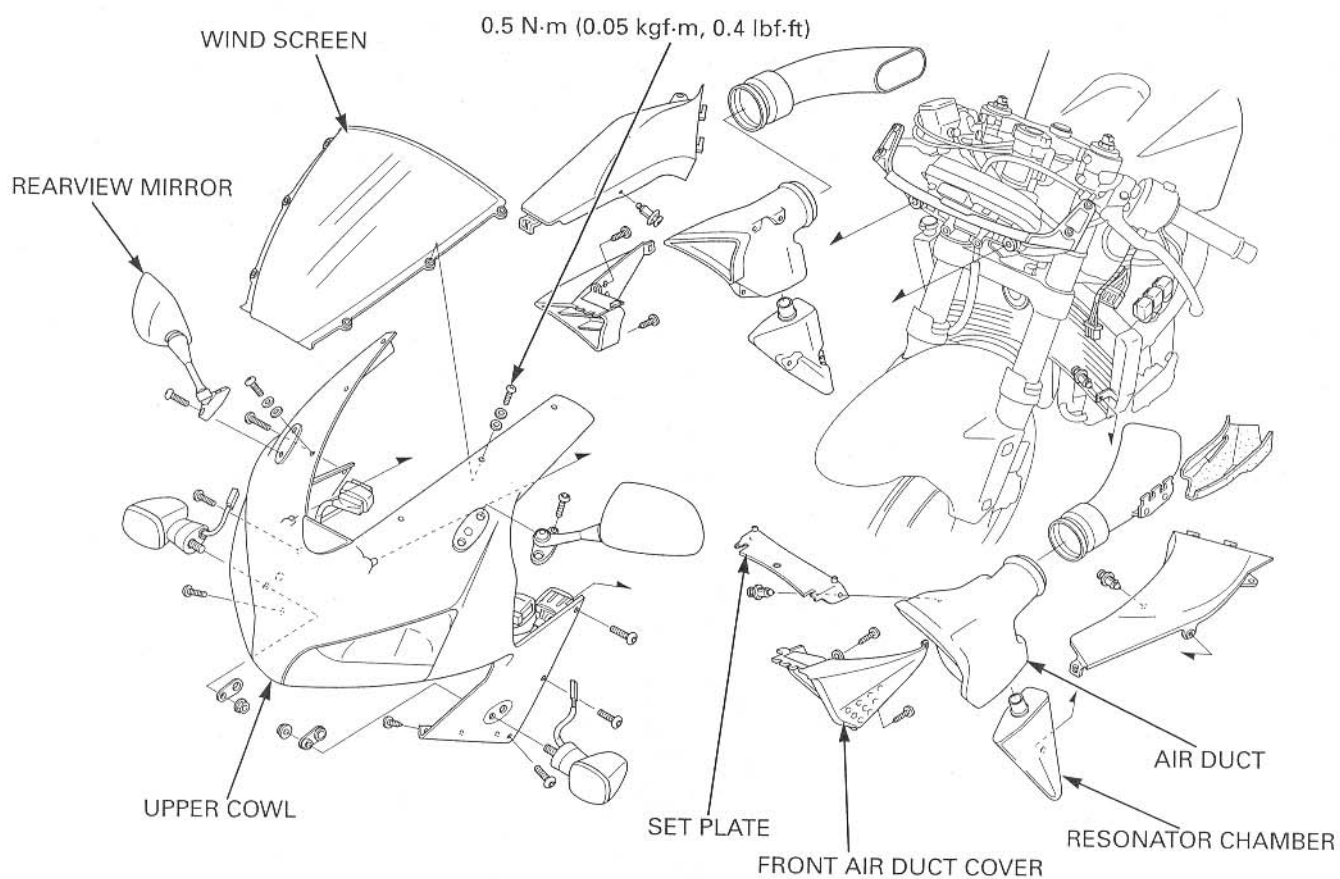


Remove the nuts and setting plates, then remove the front turn signal units.

Assembly is in the reverse order of disassembly.



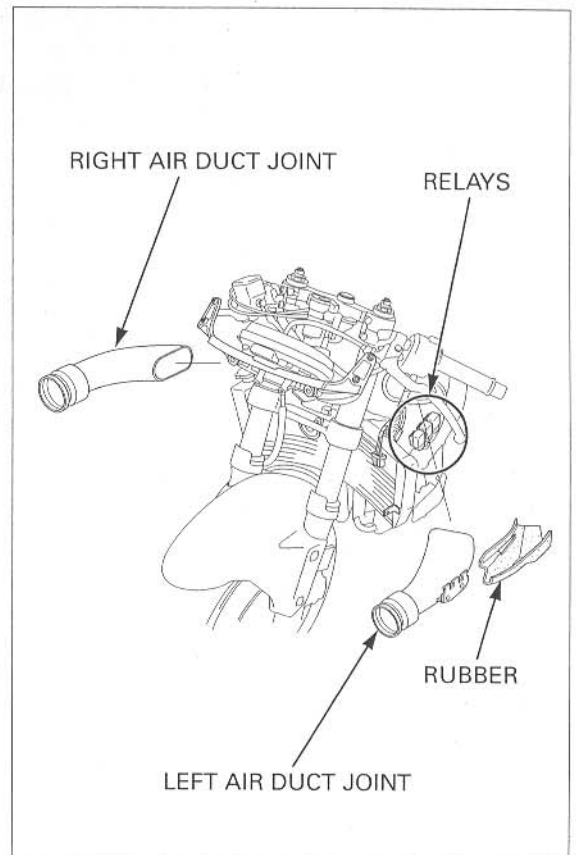
INSTALLATION



FRAME/BODY PANELS/EXHAUST SYSTEM

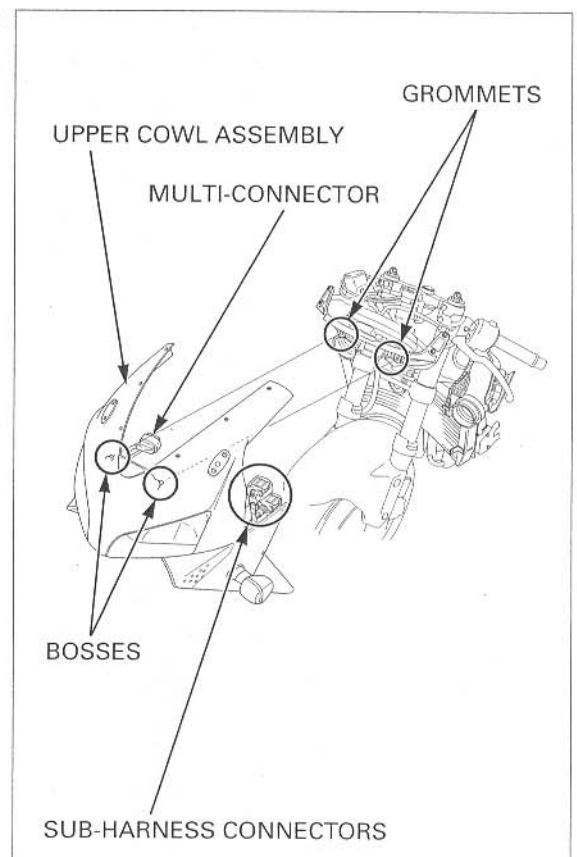
Install the air duct joints into the air cleaner housing.

Install the rubber and relays onto the left air duct joint.



Connect the front sub-harness connectors, combination meter multi-connector.

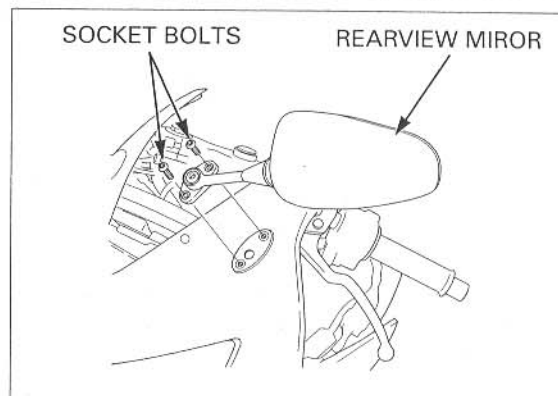
Install the upper cowl, aligning the bosses with the grommets on the meter stay.



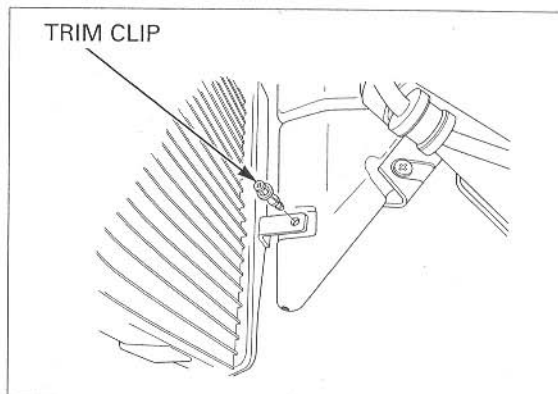
FRAME/BODY PANELS/EXHAUST SYSTEM

Align the rearview mirror bolt hole studs of upper cowl with the rearview mirror stay.

Install the rearview mirror and tighten the socket bolts securely.



Install the trim clips and resonator chambers onto the radiator.

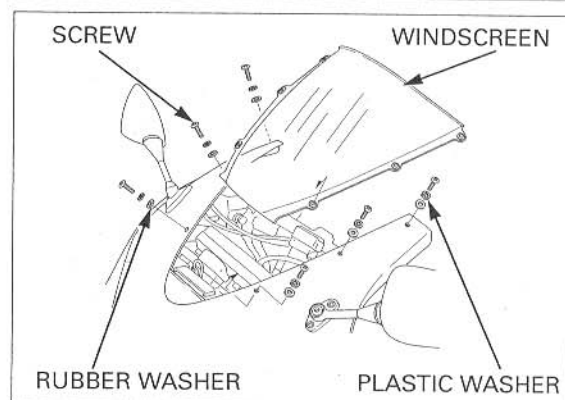


Install the windscreen, then install the rubber and plastic washers and screws. Tighten the screws to the specified torque.

TORQUE: 0.5 N·m (0.05 kgf·m, 0.4 lbf·ft)

Install the following:

- Air duct covers (page 3-9)
- Middle cowls (page 3-7)
- Lower cowls (page 3-6)



FUEL TANK COVER

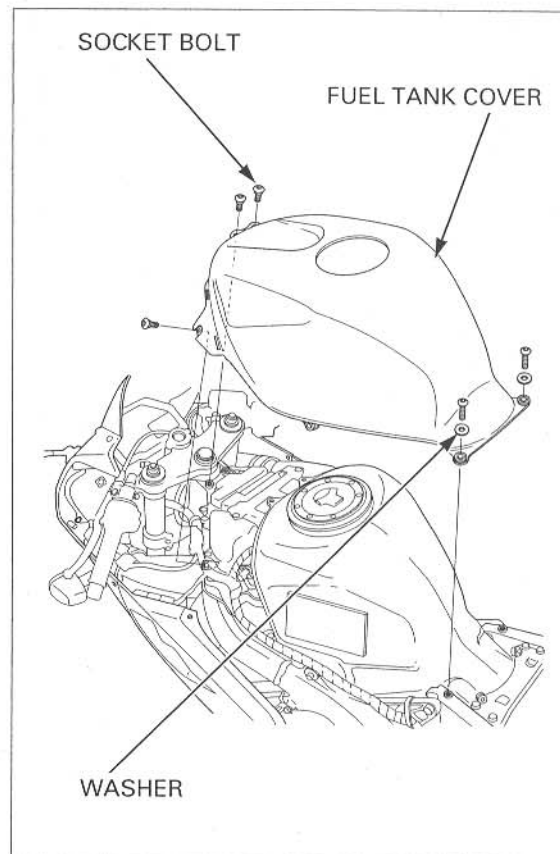
REMOVAL/INSTALLATION

Remove the following:

- Seat (page 3-4)
- Side covers (page 3-4)
- Air duct covers (page 3-9)

Remove the six socket bolts, washers and fuel tank cover.

Install the fuel tank cover in the reverse order of removal.

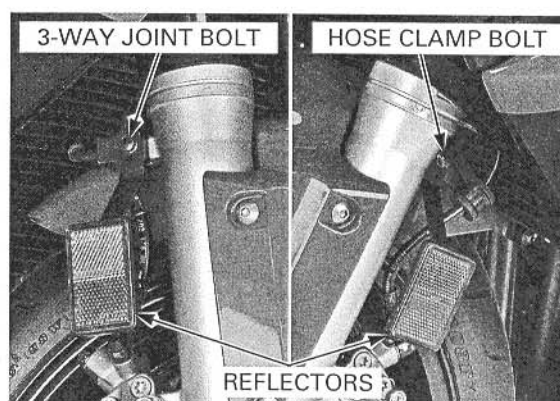


FRONT FENDER

REMOVAL/INSTALLATION

Remove the fork protectors (page 14-19).

Remove the front brake hose 3-way joint bolt, hose clamp bolt and reflectors.

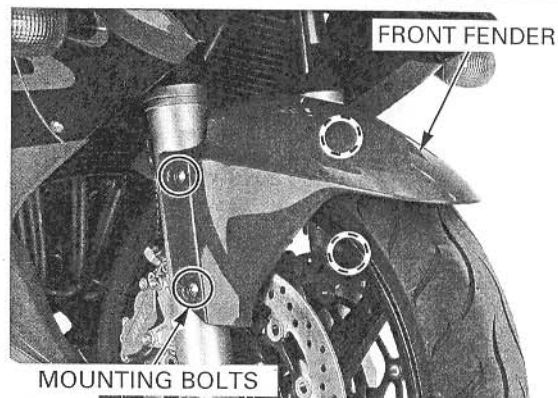


FRAME/BODY PANELS/EXHAUST SYSTEM

Remove the socket bolts and front fender from the forks.

NOTE:

Pull the front fender up, above the sliders and then pull it forward between the fork tubes.



Install the front fender in the reverse order of removal.

TORQUE:

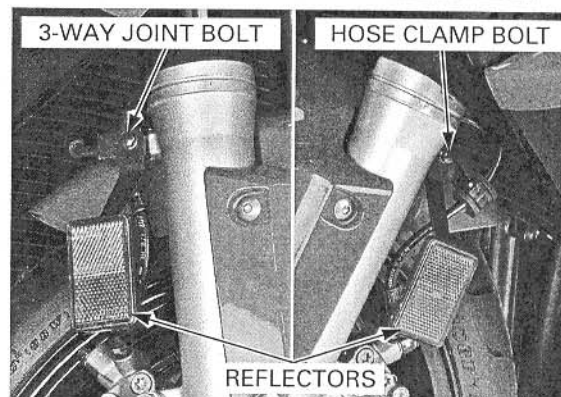
Front brake hose clamp bolt:

12 N·m (1.2 kgf·m, 9 lbf·ft)

Front brake hose 3-way joint bolt:

12 N·m (1.2 kgf·m, 9 lbf·ft)

Install the fork protectors (page 14-26).



REAR FENDER

REMOVAL

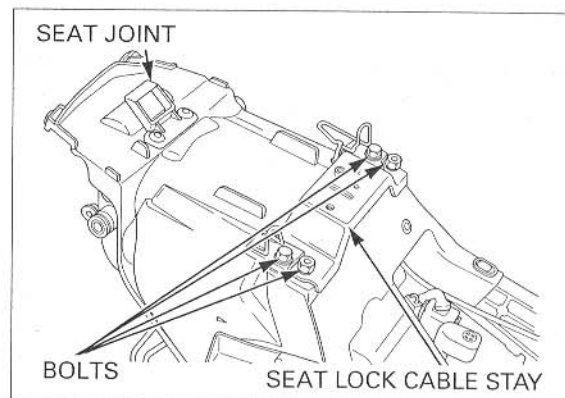
Remove the following:

- Rear cowl (page 3-5)
- Battery (page 17-5)
- Muffler (page 3-20)

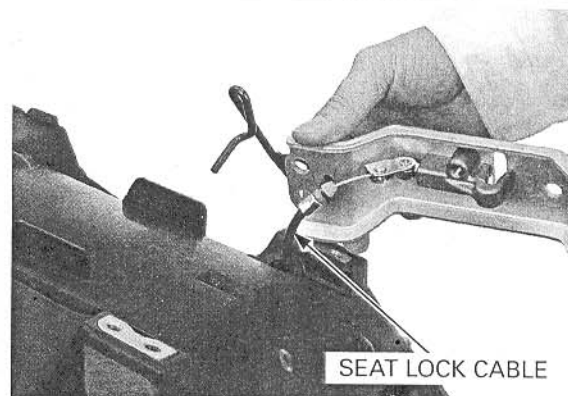
Lift and support the fuel tank (page 6-61).

Remove the bolts and passenger seat joint.

Remove the four bolts and seat lock cable stay.



Disconnect the seat lock cable from the cable stay.

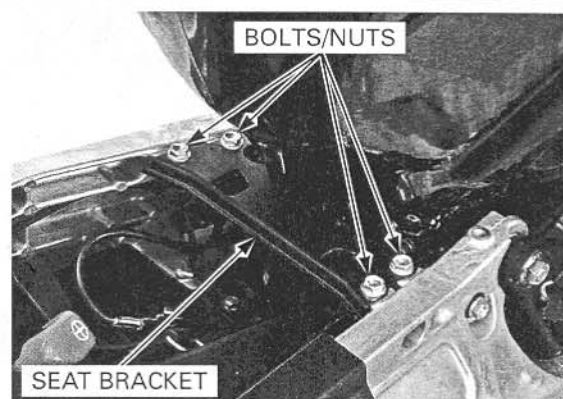


FRAME/BODY PANELS/EXHAUST SYSTEM

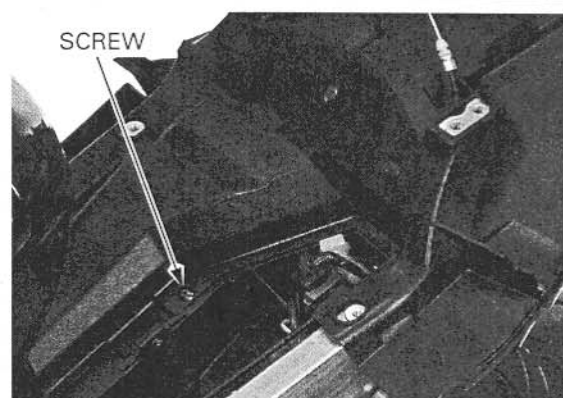
Remove the bolts/nuts and seat bracket.

NOTE:

After removing the seat bracket, be careful the angle of the fuel tank.



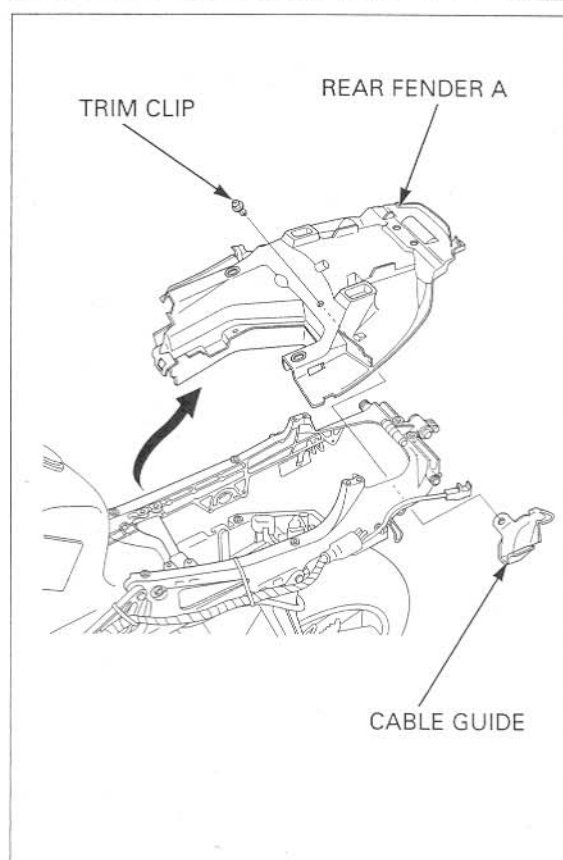
Remove the screw from the rear fender.



Remove the trim clip.

Unhook the rear fender A from the seat rail brace, then remove the rear fender A by pulling up and back.

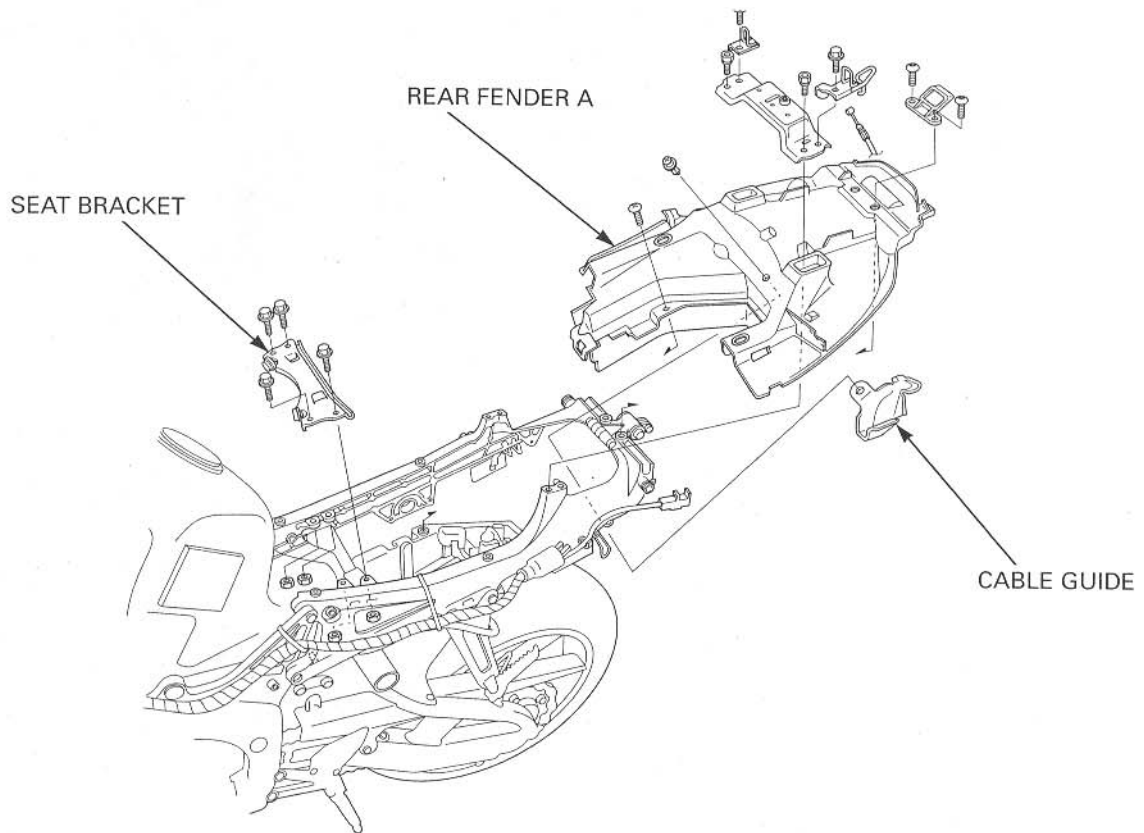
Remove the seat lock cable guide.



FRAME/BODY PANELS/EXHAUST SYSTEM

INSTALLATION

Installation is in the reverse order of removal.



SEAT RAIL

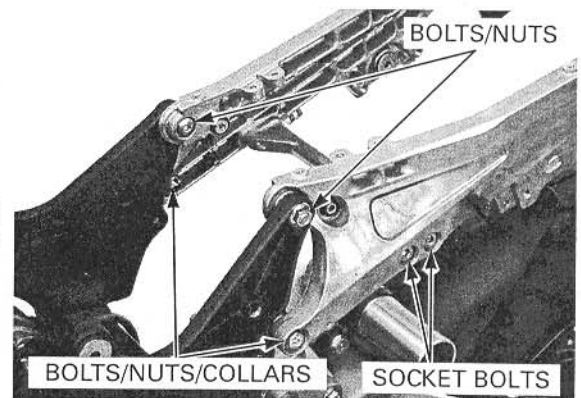
REMOVAL

Remove the following:

- Muffler (page 3-20)
- Rear fender (page 3-16)
- Fuel tank (page 6-61)
- Battery tray (page 17-7)

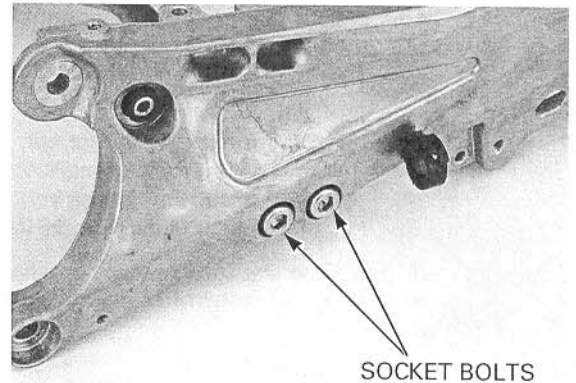
Loosen the four seat rail brace socket bolts.

Remove the seat rail upper mounting bolts/nuts and lower mounting bolts/collars/nuts, then remove the seat rail.



DISASSEMBLY/ASSEMBLY

Remove the four seat rail brace socket bolts and seat rail brace.

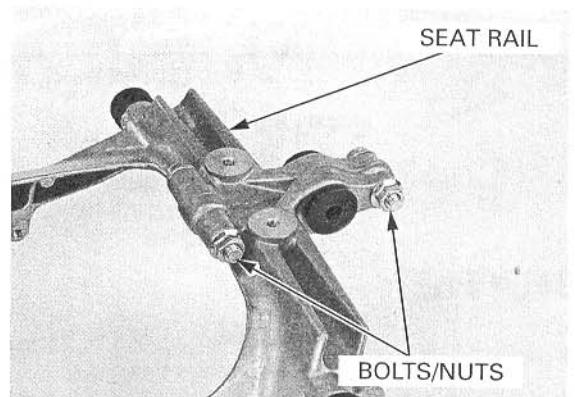


SOCKET BOLTS

Remove the seat rail assembly flange bolts/nuts and separate the seat rails.

Replace the seat rail as an assembly.

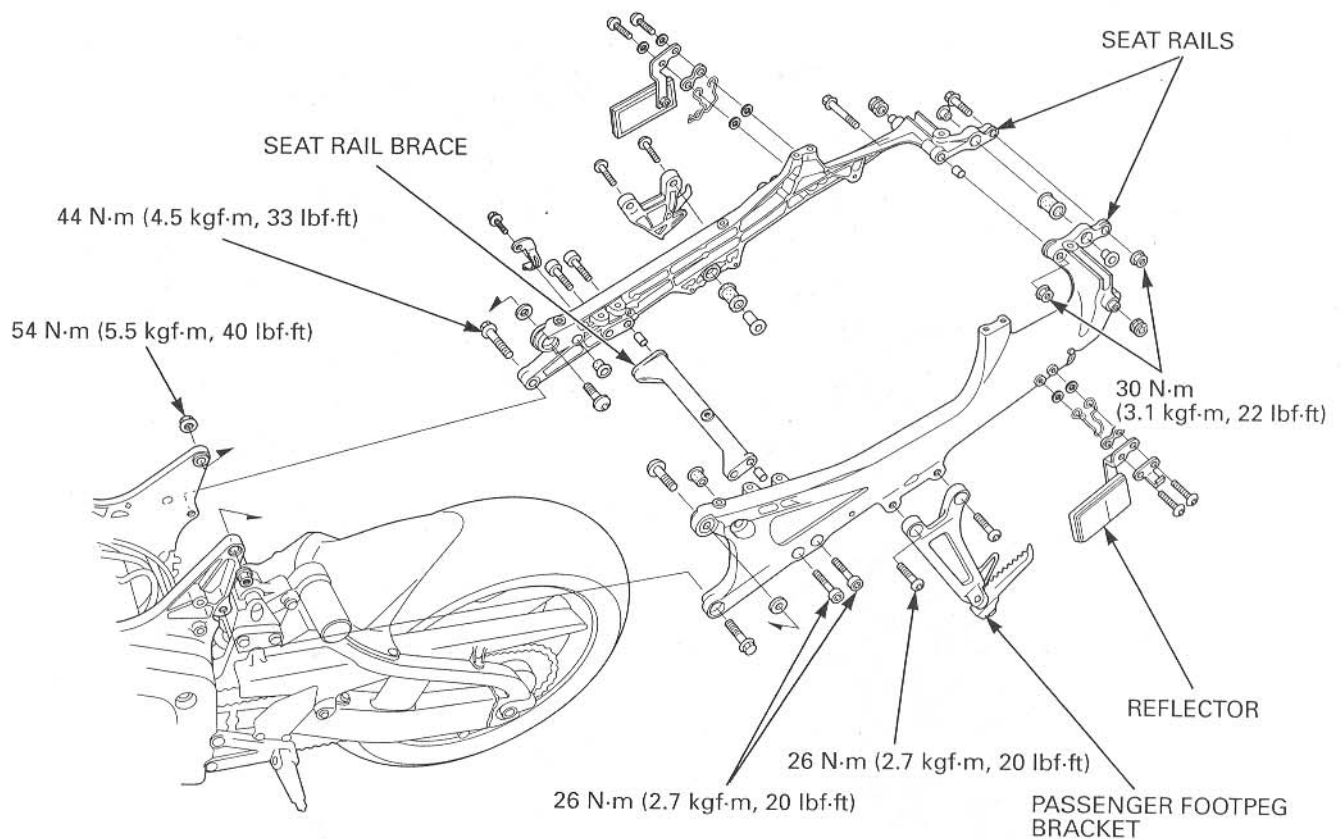
Assemble the seat rail by installing the seat rail assembly flange bolt/nut and seat rail brace socket bolts temporary.



SEAT RAIL

BOLTS/NUTS

INSTALLATION



FRAME/BODY PANELS/EXHAUST SYSTEM

Install the seat rail to the frame.

Install the upper mounting bolts/nuts and lower mounting bolts/collars/nuts.

Tighten the bolts and nuts to the specified torque.

TORQUE:

Upper mounting flange nut:

54 N·m (5.5 kgf·m, 40 lbf·ft)

Lower mounting flange bolt:

44 N·m (4.5 kgf·m, 36 lbf·ft)

Tighten the four seat rail brace socket bolts and seat rail assembly flange nuts to the specified torque.

TORQUE:

Seat rail brace socket bolt:

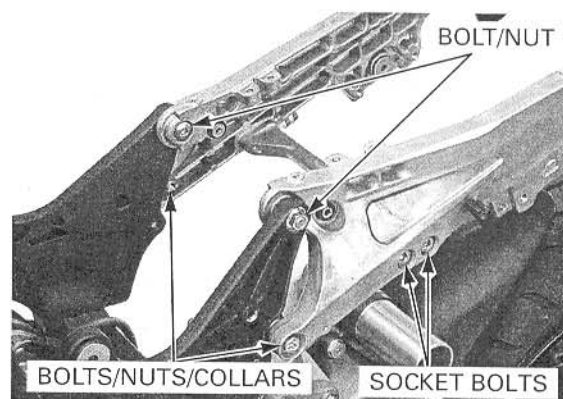
26 N·m (2.7 kgf·m, 20 lbf·ft)

Seat rail assembly flange nut:

30 N·m (3.1 kgf·m, 22 lbf·ft)

Install the following:

- Battery tray (page 17-7)
- Fuel tank (page 6-61)
- Rear fender (page 3-18)
- Muffler (page 3-22)



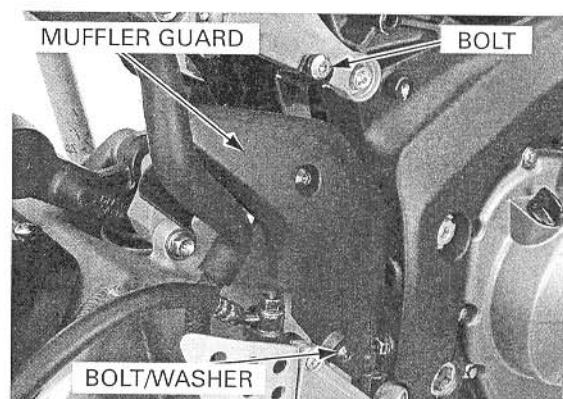
MUFFLER

REMOVAL

Remove the following:

- Lower cowls (page 3-6)
- Rear cowl (page 3-5)

Remove the two bolts, washer and muffler guard.

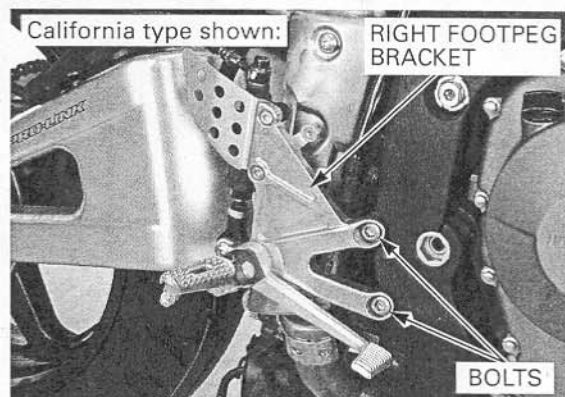


Remove the bolt and rear brake reservoir tank.



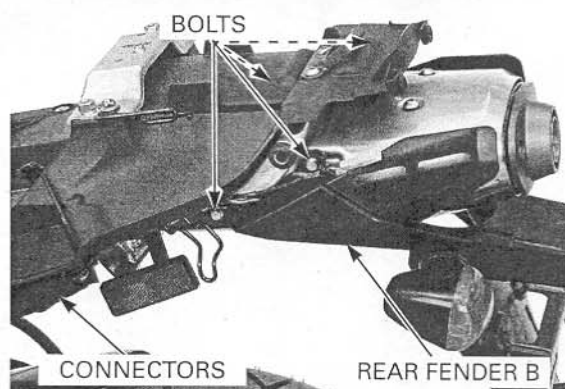
FRAME/BODY PANELS/EXHAUST SYSTEM

Remove the socket bolts and right footpeg bracket.

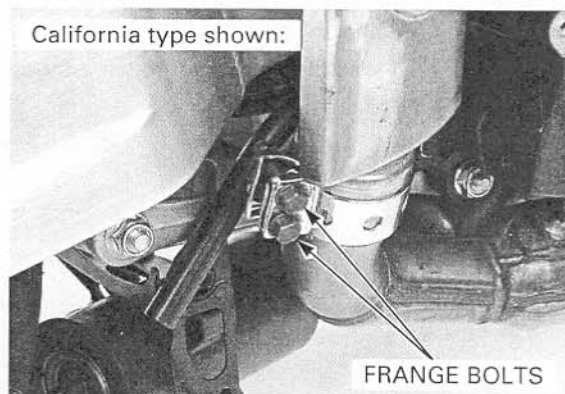


Disconnect the turn signal light and license light connectors.

Remove the four bolts and rear fender B.



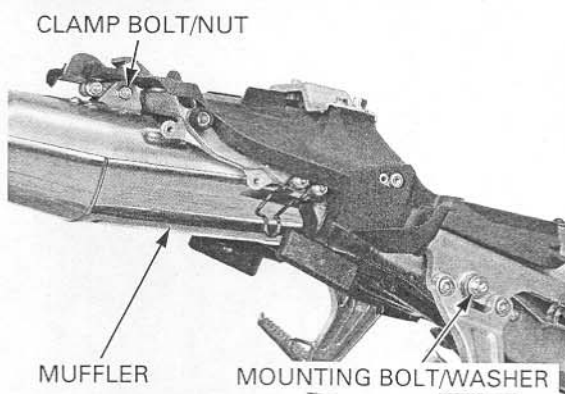
Loosen the muffler band flange bolts.



Remove the muffler mounting bolt and washer.

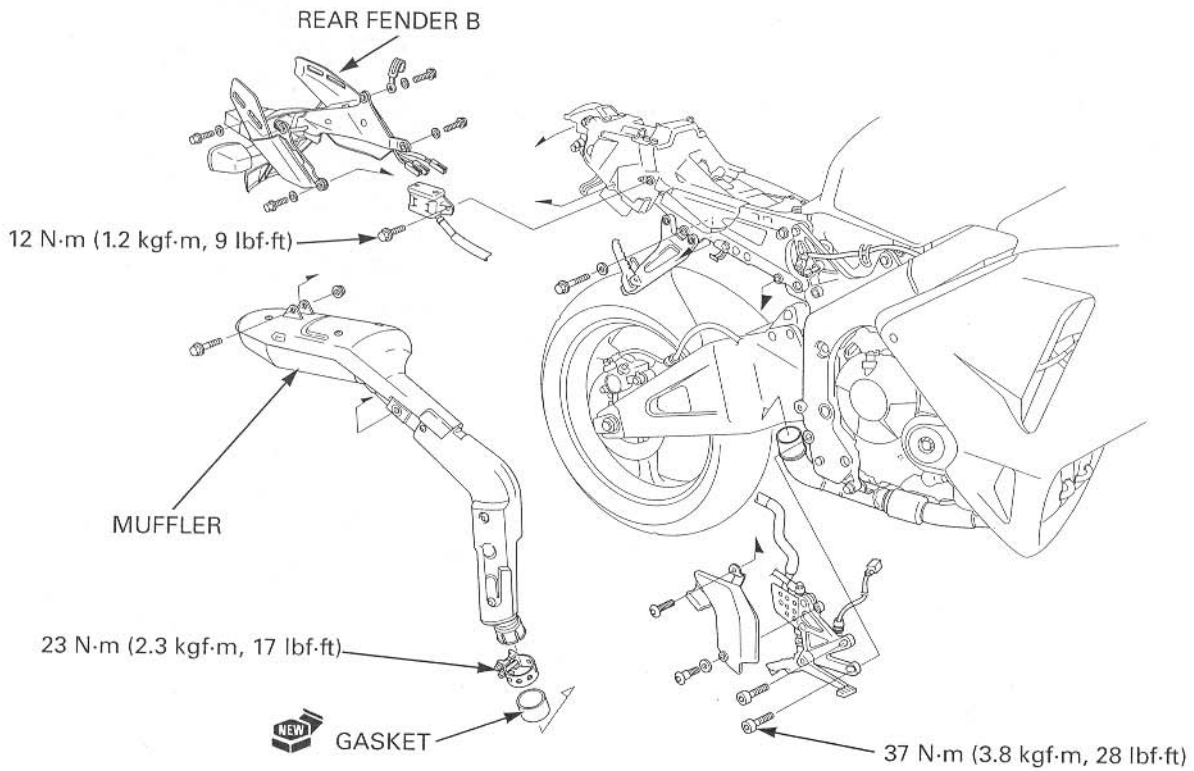
Remove the muffler clamp bolt and nut.

Remove the muffler from the exhaust pipe.

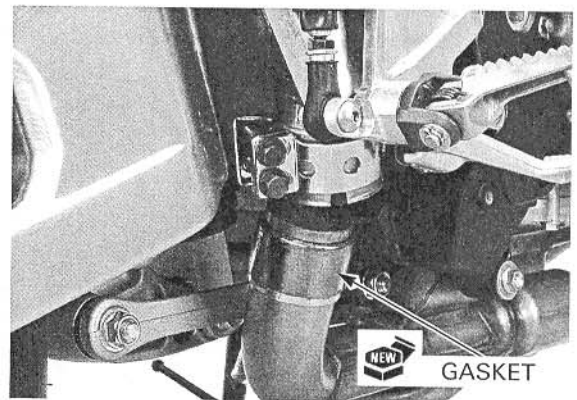


FRAME/BODY PANELS/EXHAUST SYSTEM

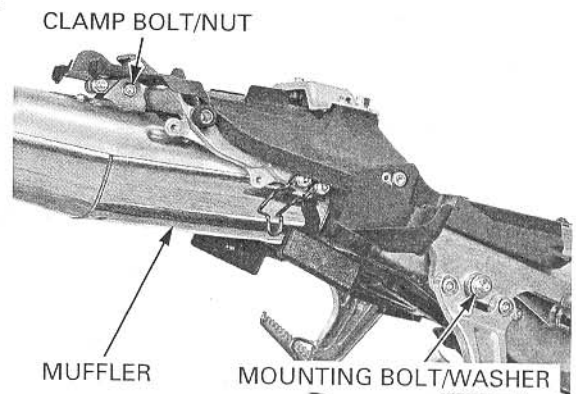
INSTALLATION



Install a new gasket onto the exhaust pipe.
Install the muffler to the exhaust pipe.



Tighten the muffler mounting bolt/washer and muffler clamp bolt/nut.

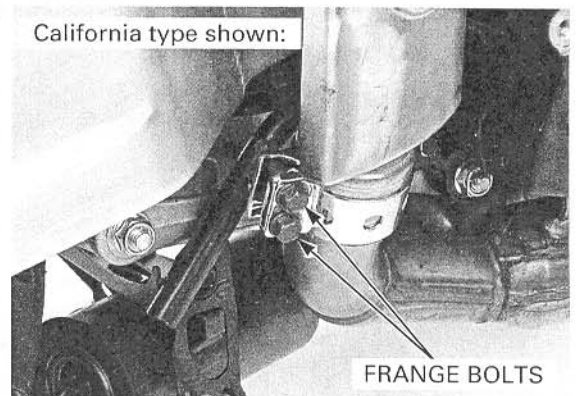


FRAME/BODY PANELS/EXHAUST SYSTEM

Tighten the muffler band flange bolts to the specified torque.

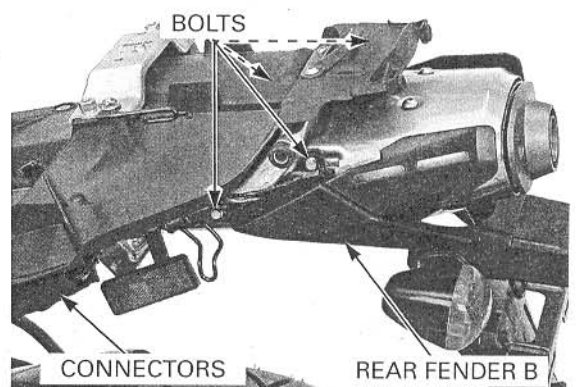
TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)

California type shown:



Install the rear fender B and four bolts.

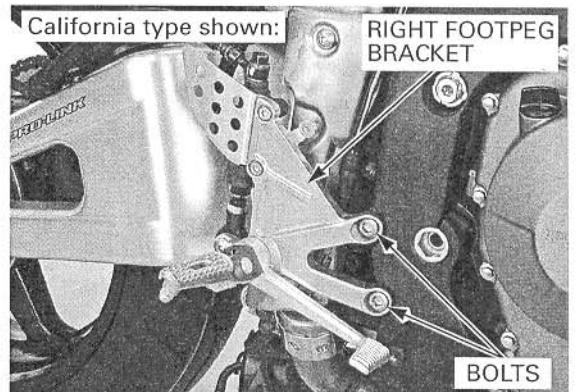
Connect the turn signal light and license light connectors.



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

TORQUE: 37 N·m (3.8 kgf·m, 28 lbf·ft)

California type shown:



Install the rear brake reservoir tank and tighten the bolt to the specified torque.

TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)

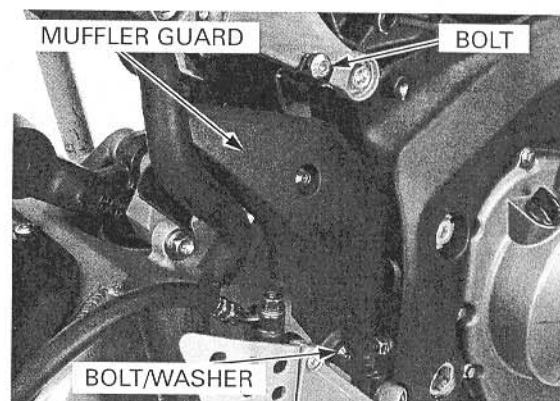


FRAME/BODY PANELS/EXHAUST SYSTEM

Install the muffler guard, washer and two bolts.

Install the following:

- Rear cowl (page 3-5)
- Lower cowls (page 3-6)



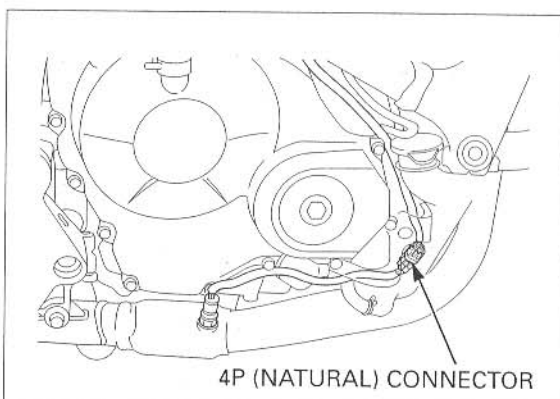
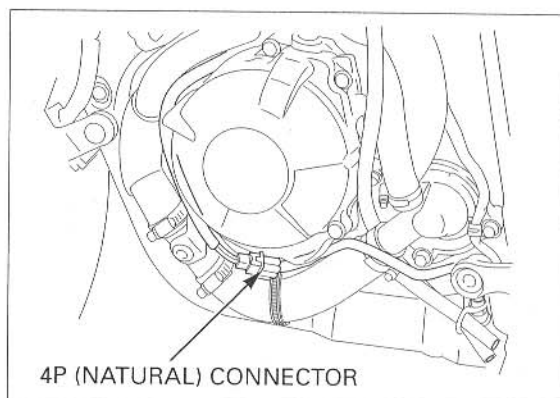
EXHAUST PIPE

REMOVAL

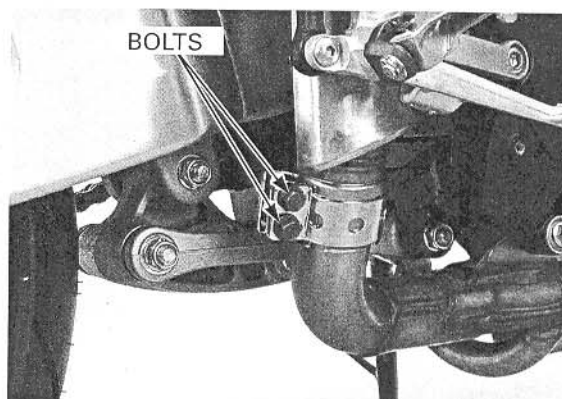
Remove the following:

- Lower cowls (page 3-6)
- Middle cowls (page 3-7)

California type only: Disconnect the O₂ sensor 4P (Natural) connectors.

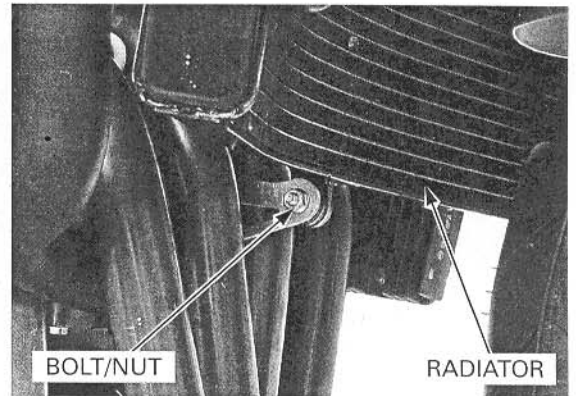


Loosen the muffler band flange bolts.

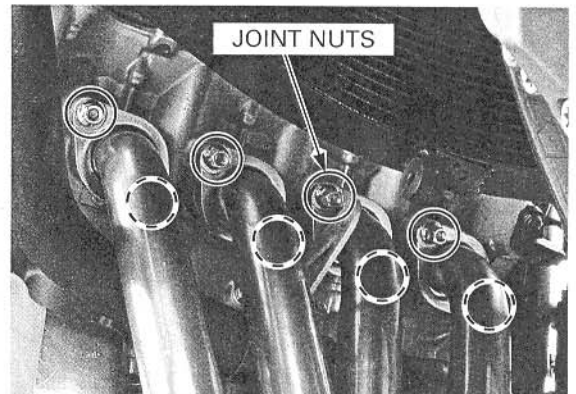


FRAME/BODY PANELS/EXHAUST SYSTEM

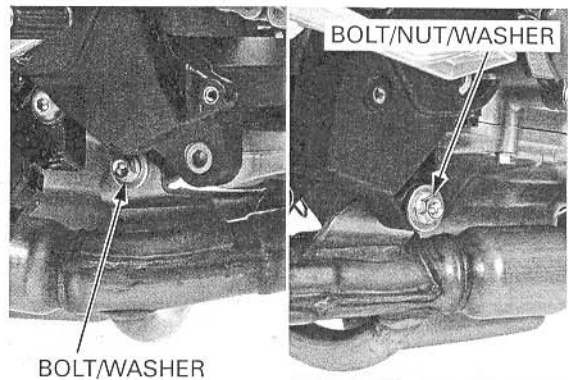
Remove the radiator lower mounting bolt/nut, then move the radiator forward.



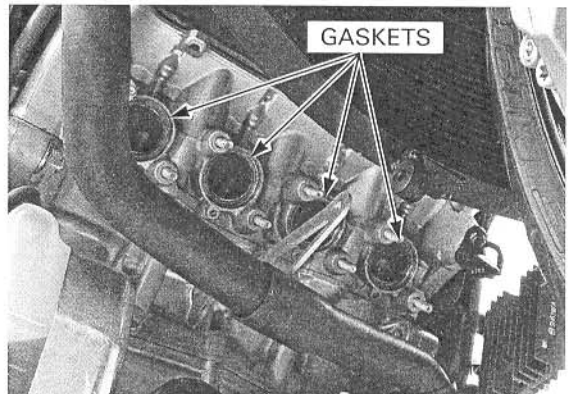
Remove the exhaust pipe joint nuts.



Remove the bolts/nut/washers and exhaust pipe.



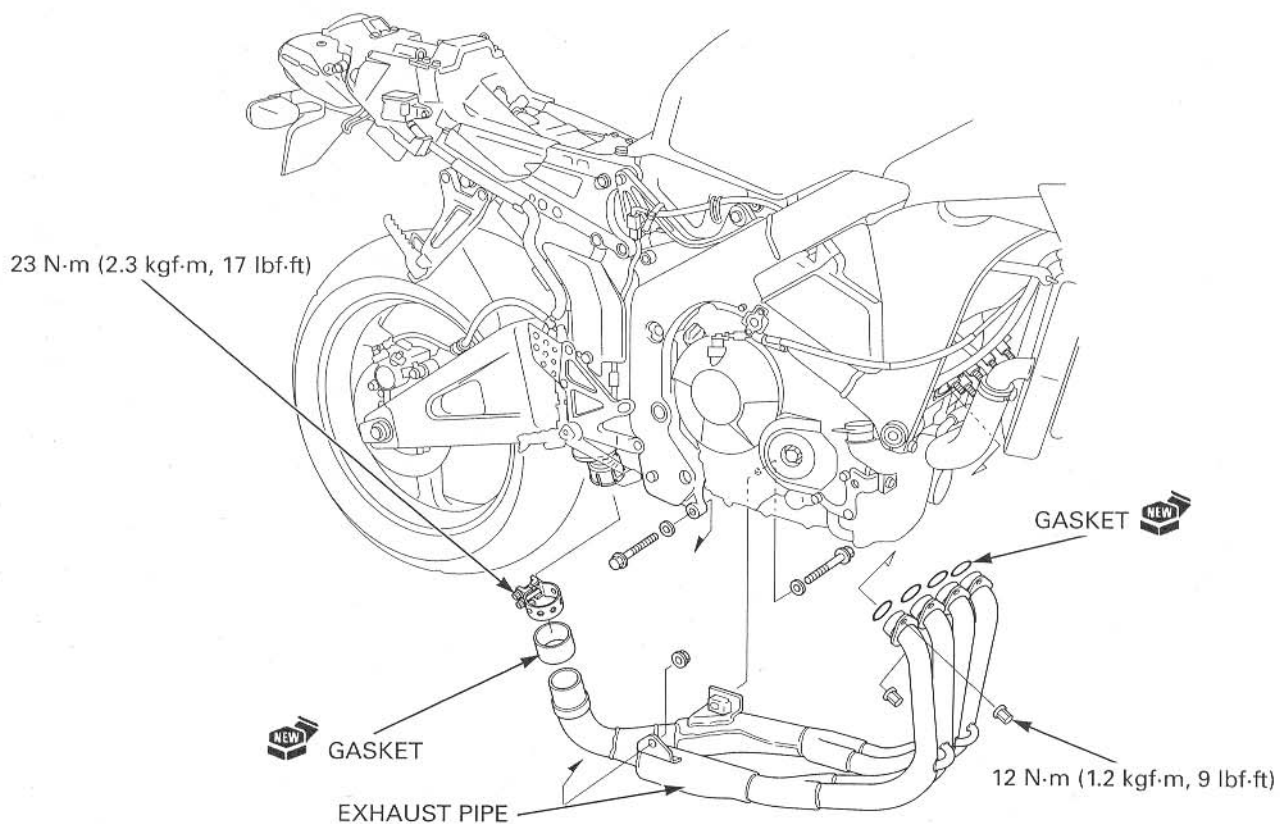
Remove the exhaust pipe gaskets.



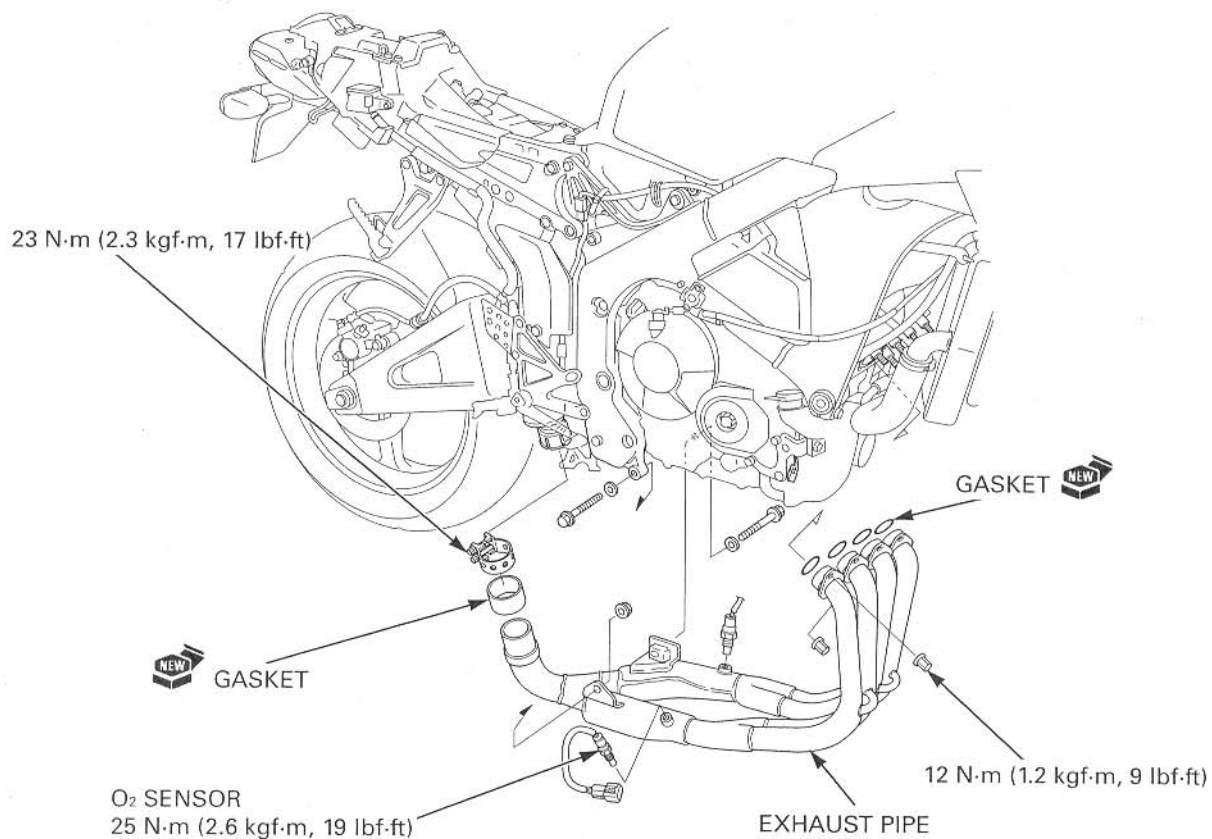
FRAME/BODY PANELS/EXHAUST SYSTEM

INSTALLATION

Except California type:



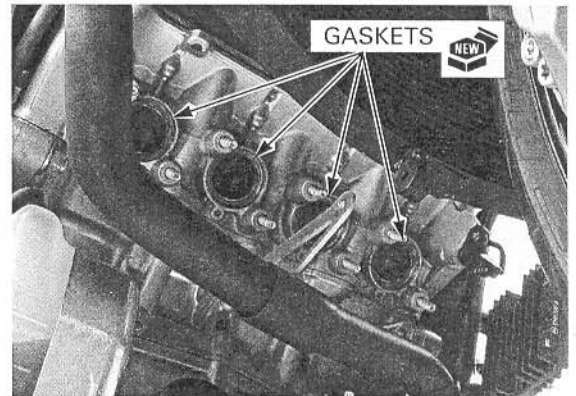
California type:



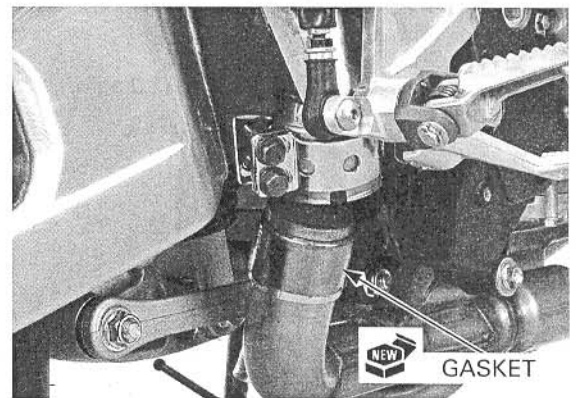
FRAME/BODY PANELS/EXHAUST SYSTEM

Always replace the exhaust pipe gaskets with new ones.

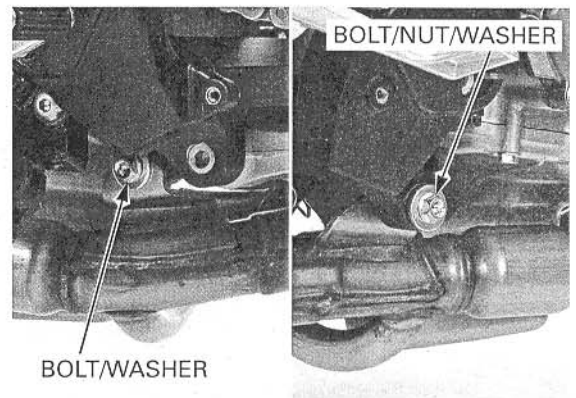
Install a new exhaust pipe gaskets onto the exhaust ports of the cylinder head.



Install a new gasket onto the exhaust pipe and install the exhaust pipe into the muffler.

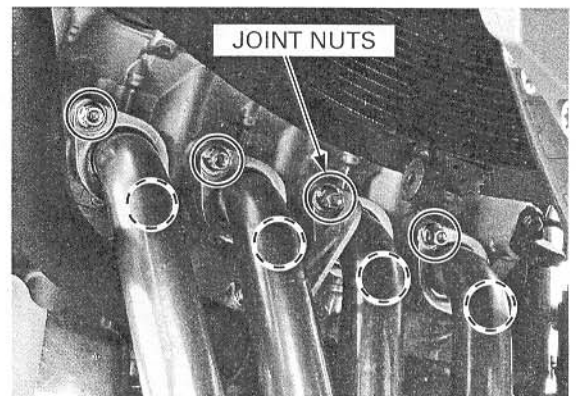


Temporarily install the exhaust pipe joint nuts, and mounting bolts/nut/washers.



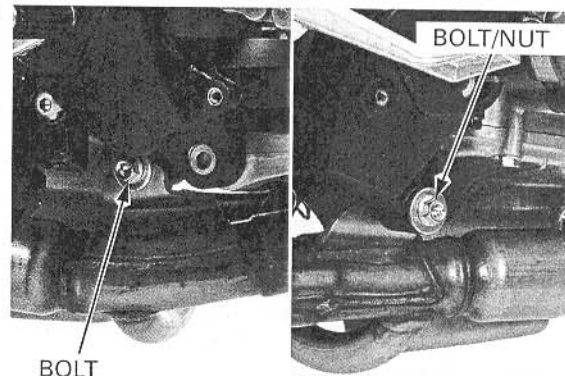
1. Tighten the exhaust pipe joint nuts to the specified torque.

TORQUE: 12 N·m (1.2 kgf·m, 9 lbf·ft)



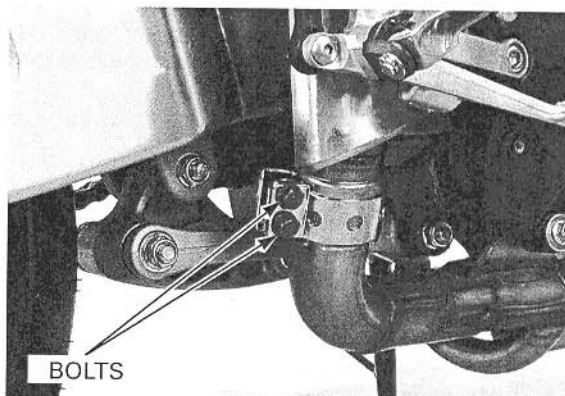
FRAME/BODY PANELS/EXHAUST SYSTEM

2. Tighten the exhaust pipe mounting bolts/nut securely.

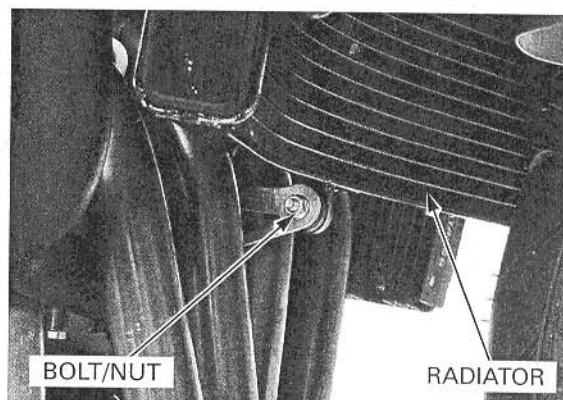


3. Tighten the muffler band flange bolts to the specified torque.

TORQUE: 23 N·m (2.3 kgf·m, 17 lbf·ft)



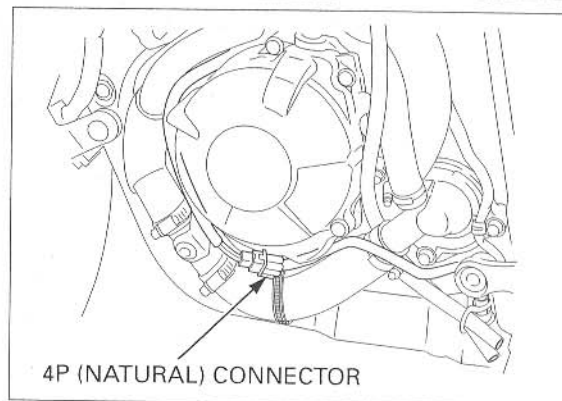
Install the radiator lower mounting bolt/nut and tighten the nut.



California type only: Route the O₂ sensor wire into the frame.
Connect the O₂ sensor 4P (Natural) connectors.

Install the following:

- Upper cowl (page 3-12)
- Middle cowls (page 3-8)
- Lower cowls (page 3-6)



FRAME/BODY PANELS/EXHAUST SYSTEM

