

2. FRAME/BODY PANELS/EXHAUST SYSTEM

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SERVICE INFORMATION

GENERAL

▲WARNING

- *Gasoline is extremely flammable and is explosive under certain conditions. KEEP OUT OF REACH OF CHILDREN.*
- *Serious burns may result if the exhaust system is not allowed to cool before components are removed or serviced.*

- 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, fuel tank and exhaust system.
- Always replace the exhaust pipe gasket when removing the exhaust pipe from the engine.
- Always inspect the exhaust system for leaks after installation.

TORQUE VALUES

Exhaust pipe joint nut	12 N·m (1.2 kgf·m , 9 lbf·ft)
Muffler band bolt	23 N·m (2.3 kgf·m , 17 lbf·ft)
Seat cowl screw	2 N·m (0.2 kgf·m , 1.4 lbf·ft)
Front inner fairing screw	2 N·m (0.2 kgf·m , 1.4 lbf·ft)
Front fairing-to-side fairing bolt	2 N·m (0.2 kgf·m , 1.4 lbf·ft)
Passenger footpeg bracket bolt	26 N·m (2.7 kgf·m , 20 lbf·ft)
Seat rail mounting bolt	49 N·m (5.0 kgf·m , 36 lbf·ft)

TROUBLESHOOTING

Excessive exhaust noise

- Broken exhaust system
- Exhaust gas leaks

Poor performance

- Deformed exhaust system
- Exhaust gas leaks
- Clogged muffler

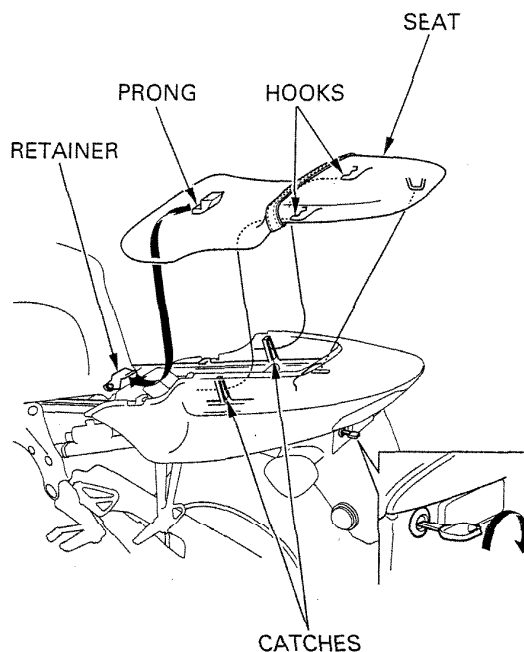
SEAT

REMOVAL

Unlock the seat with the ignition key.
Pull the seat back and remove it.

INSTALLATION

Install the seat by inserting the prong into the retainer on the fuel tank and the hooks into the catches on the frame.
Push the seat forward, then down to lock it.



SEAT COWL

Remove the seat.

Remove the two socket bolts.
Remove the two screws.
Remove the two trim clips.
Disconnect the taillight connectors.

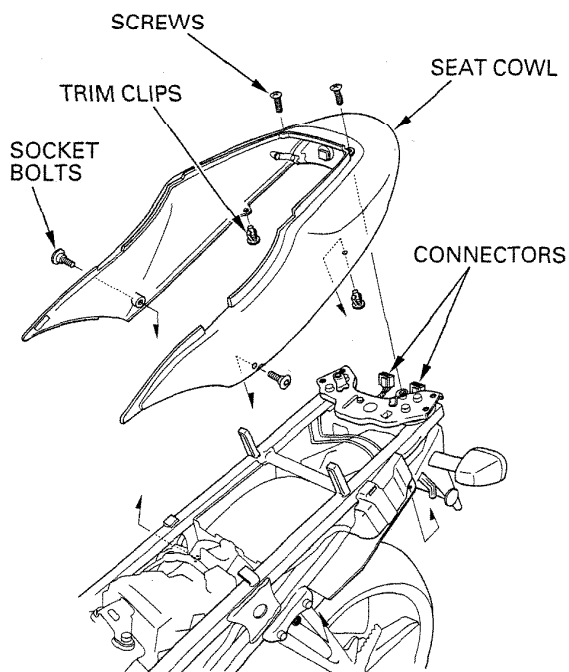
Pull the seat cowl back out of the frame while opening the front portion of it.

Installation is in the reverse order of removal.

NOTE:

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

TORQUE: Screw: 2 N·m (0.2 kgf·m , 1.4 lbf·ft)



FUEL TANK

▲WARNING

Gasoline is extremely flammable and is explosive under certain conditions. KEEP OUT OF REACH OF CHILDREN.

Remove the seat (page 2-2).

Remove the duct cover socket bolts.

Remove the air duct covers by releasing the cover tab from the instrument panel and the side fairing boss from the cover grommet.

Remove the two 6 mm tank mounting bolts and washers.

Remove the two collars from the mounting rubbers.

Do not raise more than necessary to avoid damaging the mounting rubbers and tank.

Raise the front portion of the fuel tank and support it with the eyelet wrench in the tool kit by setting it between the end of the shock absorber and the recess of the tank bottom properly as shown.

Turn the fuel valve OFF and disconnect the following.

- fuel tube
- drain tube
- breather tube (California: No. 1 tube)
- fuel level sensor connectors.

Remove the eyelet wrench and rest the fuel tank on the frame.

Remove the two 8 mm mounting bolts and seat retainer.

Remove the fuel tank.

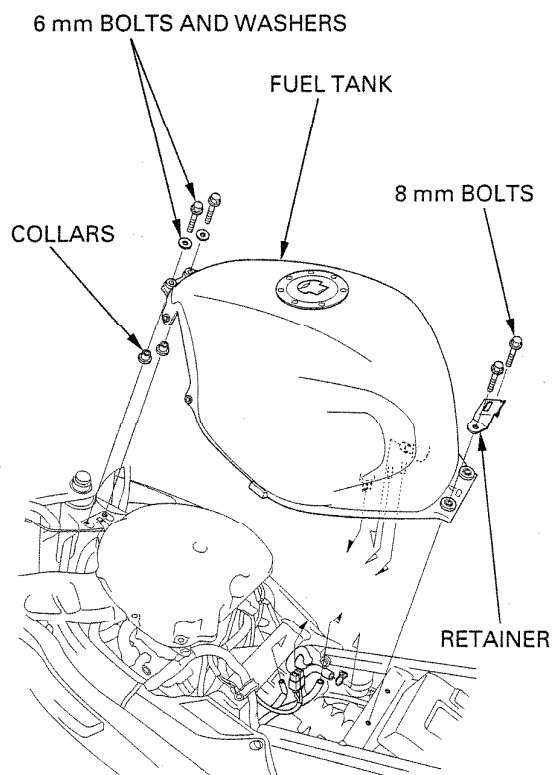
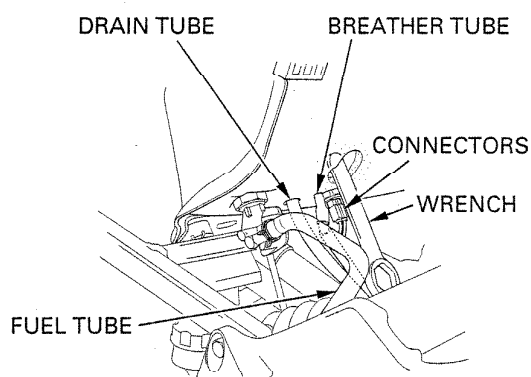
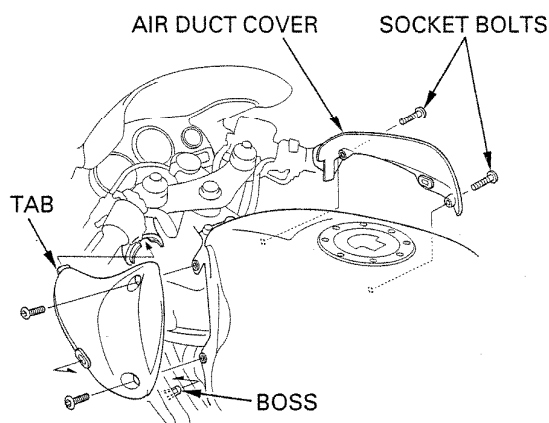
Install the removed parts in the reverse order of removal.

NOTE:

- When tightening the tank mounting fasteners, loosely install all mounting bolts and tighten the 6 mm bolts first, then the 8 mm bolts securely.
- Be careful not to dislodge the rubber nuts in the fuel tank when tightening the duct cover bolts.

TORQUE :

Duct cover bolt: 2 N·m (0.2 kgf·m , 1.4 lbf·ft)



SIDE FAIRING

Remove the following:

- three trim clips
- two screws
- six socket bolts.

Release the boss from the duct cover grommet and remove the side cowl.

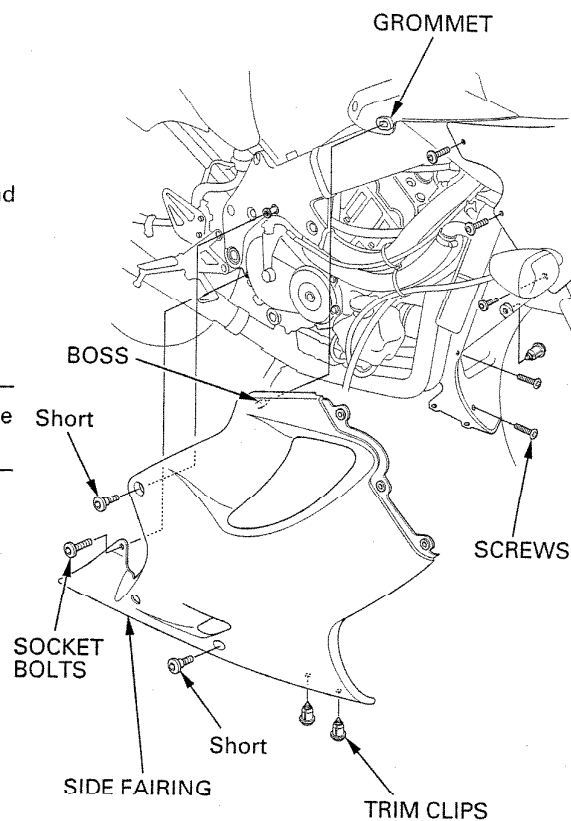
Left side fairing only: Remove the fuel tank drain and breather tubes.

Installation is in the reverse order of removal.

NOTE:

Be careful not to dislodge the rubber nuts in the side fairing when tightening the front side bolts.

TORQUE: Socket bolt (Three bolts on front side):
2 N·m (0.2 kgf·m, 1.4 lbf·ft)



FRONT INNER FAIRING

Remove the following:

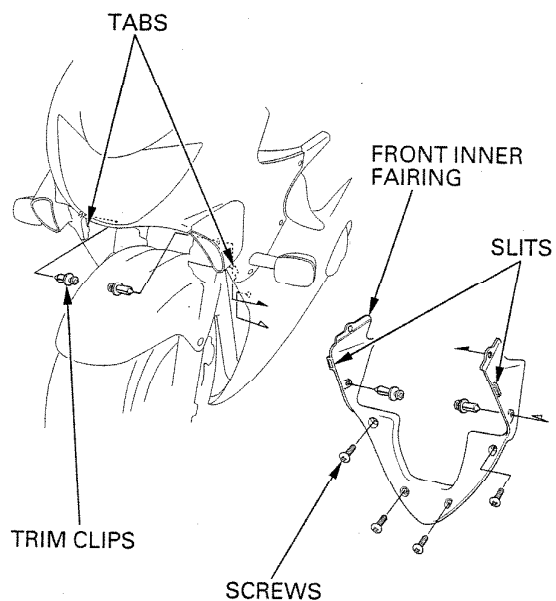
- four trim clips
- four screws
- inner fairing by releasing front fairing tabs from inner fairing slits.

Installation is in the reverse order of removal.

NOTE:

Make sure that the mating areas are aligned properly before tightening the fasteners.

TORQUE: Screw: 2 N·m (0.2 kgf·m, 1.4 lbf·ft)



FRONT FAIRING

Remove the socket bolts and the rearview mirrors.

Remove the trim clip from the instrument panel.
Remove the six screws and two nuts.
Remove the instrument panels.

Release the air vent hose (California: No. 8) from the hose clip and disconnect it from the 3-way hose joint.

Be careful not to scratch the front fairing and fender.

Remove the two trim clips and six socket bolts.
Remove the front fairing off the rearview mirror bolt hole studs and rest it on the front fender.
Disconnect the headlight and turn signal connectors.

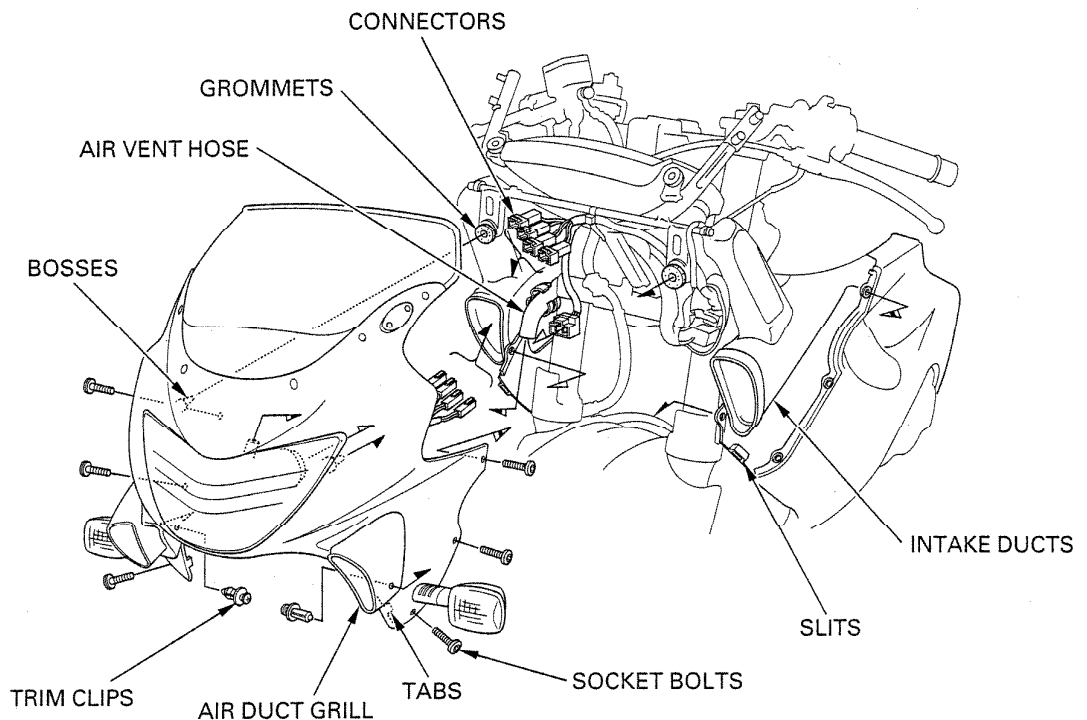
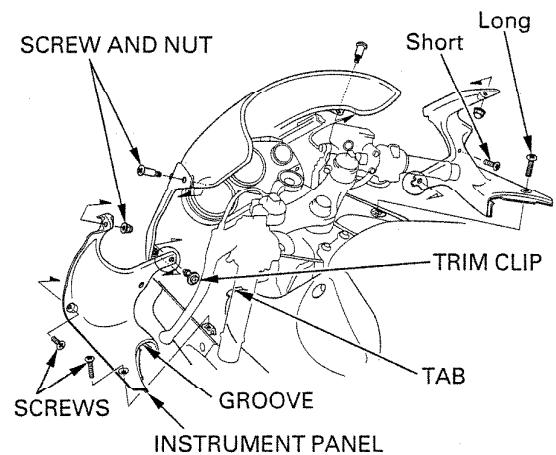
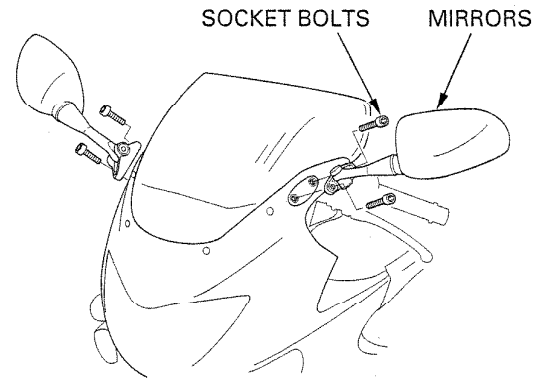
Installation is in the reverse order of removal.

NOTE:

- Install the front fairing air duct grill over the air intake ducts and the bosses into the fairing stay grommets and align the front fairing tabs with the inner fairing slits.
- When tightening the fairing socket bolts, be careful not to dislodge the rubber nuts in the side fairing.
- When installing the instrument panel, align the groove with the tab of the duct cover.

TORQUE :

Fairing socket bolt: 2 N·m (0.2 kgf·m , 1.4 lbf·ft)



FRAME/BODY PANELS/EXHAUST SYSTEM

WINDSHIELD

Remove the rearview mirrors (page 2-5).

Remove the following:

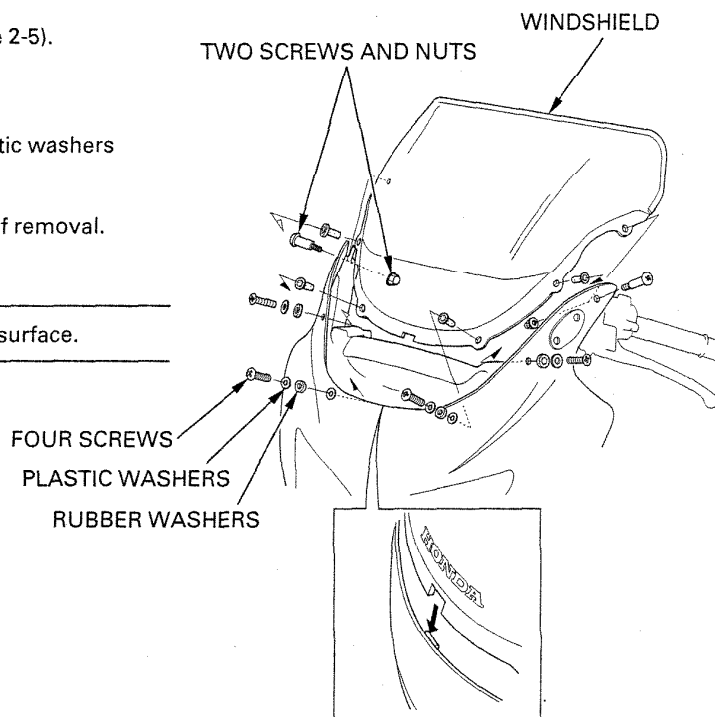
- two screws and nuts
- four screws with rubber and plastic washers
- windshield

Align the groove in the windshield with the lug on the front fairing.

Installation is in the reverse order of removal.

NOTE:

Be careful not to scratch the shield surface.



DIRECT AIR INTAKE DUCT

Remove the duct cover (page 2-3).

Remove the instrument panel (page 2-5).

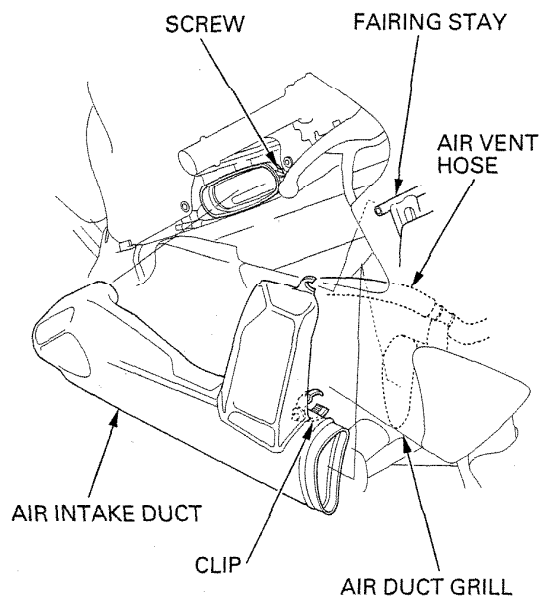
Loosen the connecting tube band screw.

Right duct: Remove the outer air vent hose (California: No. 8) from the duct by releasing the hose clip.

Left duct: Remove the wire harness from the duct.

Remove the air intake duct from the air duct grill of the front fairing and the front fairing stay.

Installation is in the reverse order of removal.



EXHAUST SYSTEM

▲WARNING

Do not service the exhaust system while it is hot.

CAUTION:

Be careful not to damage the radiator fins.

REMOVAL

MUFFLER

Loosen the muffler band bolts.
Remove the mounting bolt, washer and nut.
Remove the muffler from the exhaust pipe.
Remove the muffler gasket.

EXHAUST PIPE

Remove the radiator from the frame without disconnecting the water hoses (as described in spark plug removal procedure, page 3-6).
Remove the radiator air guide rubber from the cylinder head.

Remove the exhaust pipe joint nuts.
Remove the mounting bolt, washer and nut, and the exhaust pipe.
Remove the exhaust pipe joint gaskets.

INSTALLATION

EXHAUST PIPE

If the joint stud bolts are loose, tighten them. Be sure to verify the distance from top of stud to the cylinder head surface as shown.

Install new joint gaskets into the exhaust ports.
Set the exhaust pipe onto the engine by aligning the exhaust flanges with the cylinder head studs, then install the joint nuts and the mounting bolt/washer and nut.
Tighten the joint nuts.

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

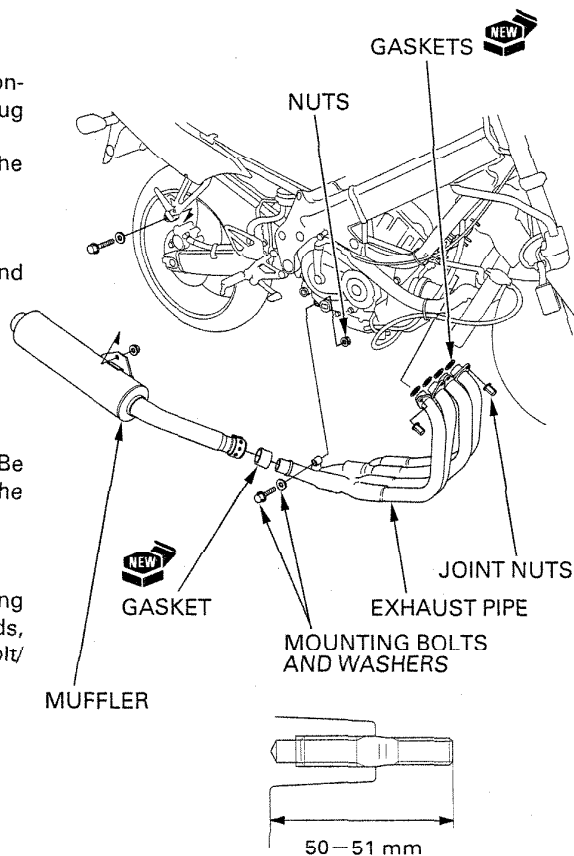
Tighten the mounting bolt.

MUFFLER

Install a new muffler gasket and the muffler over the exhaust pipe.
Install the mounting bolt/washer and nut, and tighten it.
Tighten the muffler band bolts.

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

Install the air guide rubber into the cylinder head and the radiator onto the frame if the exhaust pipe is removed (page 3-6).
Install the side fairing and front inner fairing (page 2-4).



REAR FENDER/SEAT RAIL

REMOVAL

Remove the seat cowl (page 2-2).

Remove the battery (page 16-4).

Disconnect the following:

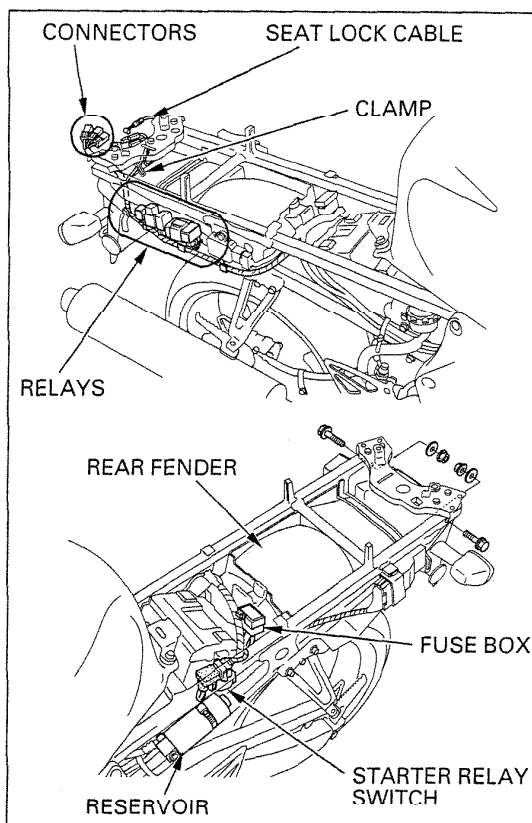
- turn signal and license light connectors (release the clamp).
- seat lock cable from seat catch on cross member

Remove the following:

- fuel cut-off relay
- turn signal relay
- fuel pump transfer relay
- air vent control solenoid valve relay (49 state/Canada only)
- fuse box by releasing the tab on reverse side of fender
- rear shock absorber reservoir by loosening band screw
- starter relay switch

Remove the fender mounting nuts, washers and bolts.

Slide the rear fender rearward, then remove the mounting collars (between the seat rail and fender) and remove the fender from the seat rail.



Remove the fuel tank (page 2-3).

Remove the following:

- wire harness bands
- ignition control module (ICM)
- bolts and regulator/rectifier
- bolts, collars and fuel pump

Secure the reservoir so that it remains upright.

Remove the nuts, bolts, washer and the passenger footpeg brackets.

Remove the four mounting nuts, bolts and seat rail.

INSTALLATION

Route the wire harnesses, cable and hose properly (page 1-18).

Installation is in the reverse order of removal.

TORQUE:

Seat rail mounting: 49 N·m (5.0 kgf·m, 36 lbf·ft)

Footpeg bracket: 26 N·m (2.7 kgf·m, 20 lbf·ft)

