

2.1 FUEL TANK

SEDAN & STATION WAGON

REMOVE

CAUTION: Ensure that there are no naked flames or other sources of ignition in the vicinity.

1. Place vehicle on jack stands and drain the tank by syphoning out the fuel through the fuel filler opening using a commercially available fuel syphoning device.

NOTE: Beware of distorting the fuel filler pipe deflector.

2. Depressurise the rail, as described in [Section 6C1](#) (V6 engine) or [Section 6C2](#) (V8 engine), POWERTRAIN MANAGEMENT - SERVICE OPERATIONS in the VS Series Service Manual.
3. Remove filler neck stone guard under the right hand fender, refer Fig. 8A-6.
4. Disconnect the fuel line between the fuel gauge tank unit and the fuel feed pipe.
5. Disconnect the fuel return line from tank connection.
6. Disconnect tank vent hoses at filler neck.
7. Check for kinks in hoses and replace if necessary.

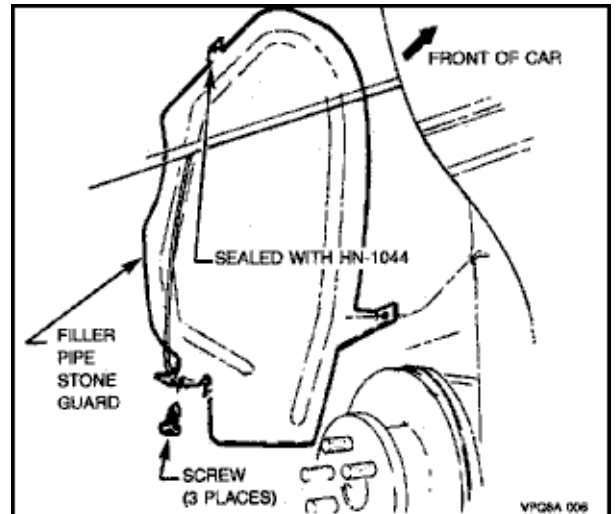


Figure 8A-6

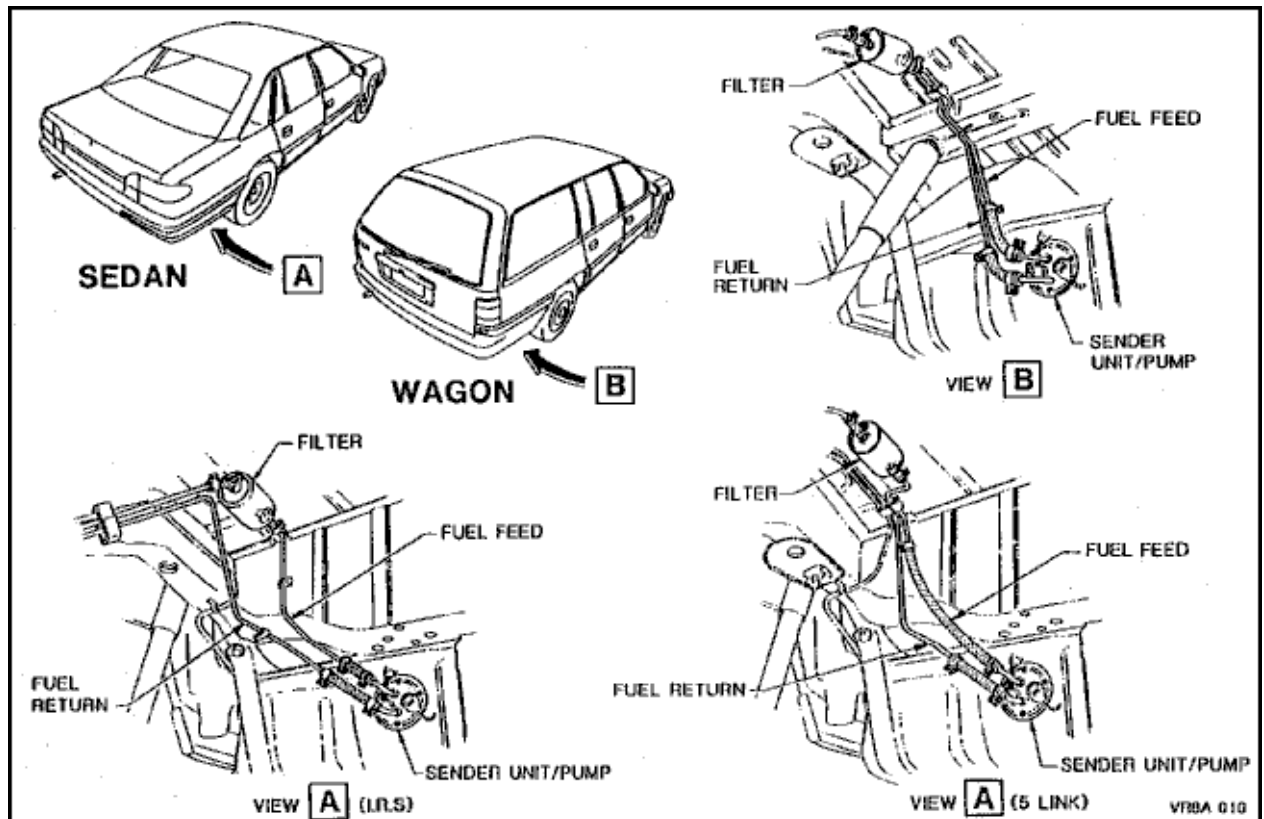


Figure 8A-7

7. Disconnect electrical connectors from fuel gauge tank unit.

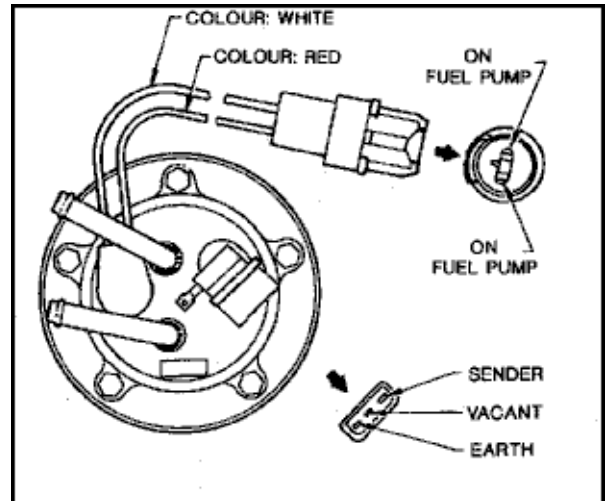


Figure 8A-8

8. Disconnect the fuel tank to canister vapour hose from vapour pipe at front of tank.
9. Support fuel tank with a suitable jack.

NOTE: Locate a block of wood between the jack and tank to prevent damage to tank.

10. Remove the bolts and nut securing the fuel tank straps to the body, and lower tank.

NOTE: On sedan models, lower the tank slightly so that the vent hoses that are routed through the side frame are disconnected from the tank, before removing the tank.

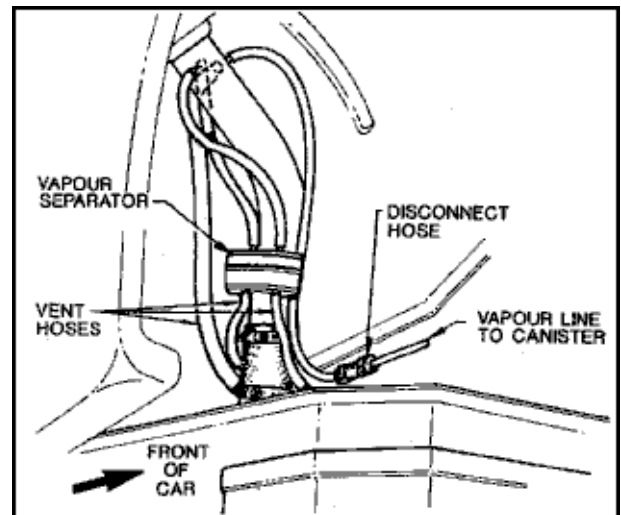


Figure 8A-9

REINSTALL

Installation of the fuel tank is the reverse of removal procedures, noting the following points.

1. Lubricate upper end of filler tube with petroleum jelly to assist when installing the filler neck through neck seal.
2. Check vapour and vent hoses for crimping or damage before installing fuel filler pipe stone guard.

FUEL TANK STRAP ATTACHING BOLTS/NUTS

15-25 Nm

3. Install strap attaching bolts and nut and tighten to the correct torque specification.
4. Before starting vehicle, carry out fuel system leak test, refer [Section 6C1](#) (V6 engine) or [Section 6C2](#) (V8 engine), POWERTRAIN MANAGEMENT - SERVICE OPERATIONS in the VS Series Service Manual.

STATESMAN & CAPRICE

Service operations for Statesman & Caprice Models FUEL TANK, carry over in general from Sedan & Station Wagon Models unless otherwise stated in the following paragraphs.

Service operations for the 'AC' fuel filter are covered in [Section 6C1](#) (V6 engine) or [Section 6C2](#) (V8 engine), POWERTRAIN MANAGEMENT - SERVICE OPERATIONS in the VS Series Service Manual.

REMOVE

CAUTION: Ensure that there are no naked flames or other sources of ignition in the vicinity.

1. Remove fuel filler cap and drain tank by syphoning out fuel through fuel filler opening using a commercially available fuel syphoning device.

NOTE: Take care not to distort the fuel filler pipe deflector.

2. Using a floor jack under centre of differential carrier, jack up rear of vehicle, then place safety stands under rear jacking points. Refer to [Section OA, GENERAL INFORMATION](#) in the VS Series Service Manual for location of jacking points.
3. Remove filler pipe stone guard under right hand fender.

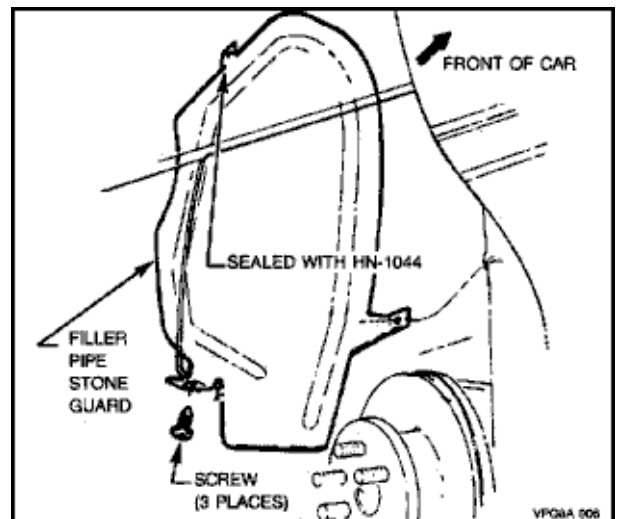


Figure 8A-10

4. Squeeze together top ends of stone guard cap to disengage cap from stone guard. Rotate cap anticlockwise so that opening in cap faces downward. Lift cap up from fuel gauge tank unit and remove.

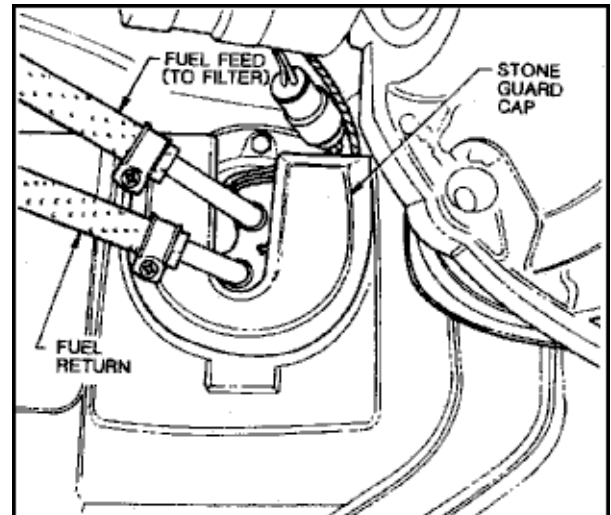


Figure 8A-11

5. Disconnect fuel hose from fuel gauge sender unit.
 6. Disconnect wiring harness connectors from sender unit and fuel pump terminals.
- Disconnect harness from retainer.

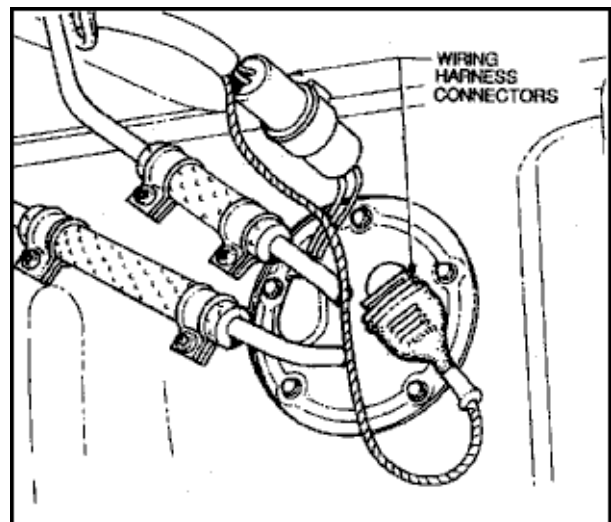


Figure 8A-12

7. Disconnect fuel return line from tank unit pipe connection.

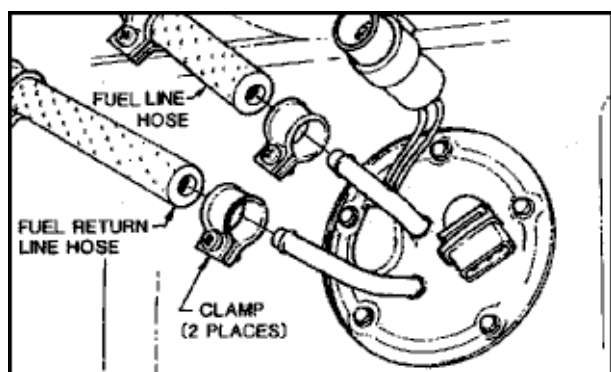


Figure 8A-13

8. Disconnect tank vent hoses at filler pipe and base of vapour separator.

Disconnect fuel vapour hose from pipe leading to evaporative emission control canister.

9. Release strap securing hoses to filler pipe.
10. Support fuel tank with a suitable jack.

NOTE: Locate a block of wood between the jack and tank to prevent damage to tank.

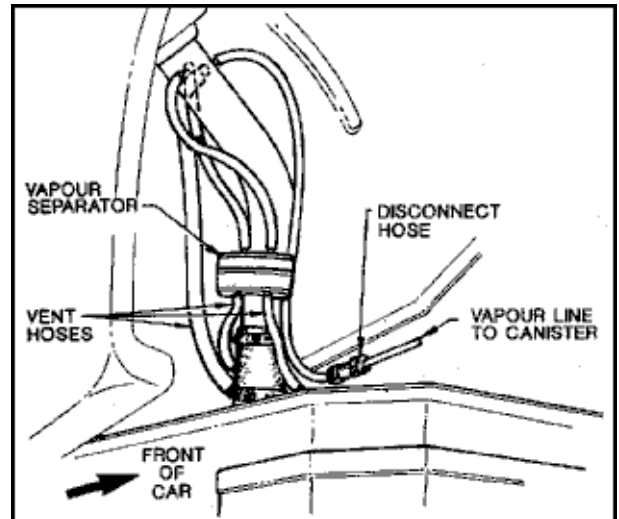


Figure 8A-14

11. Remove bolts and nut securing fuel tank straps to vehicle underbody and remove stone guard.

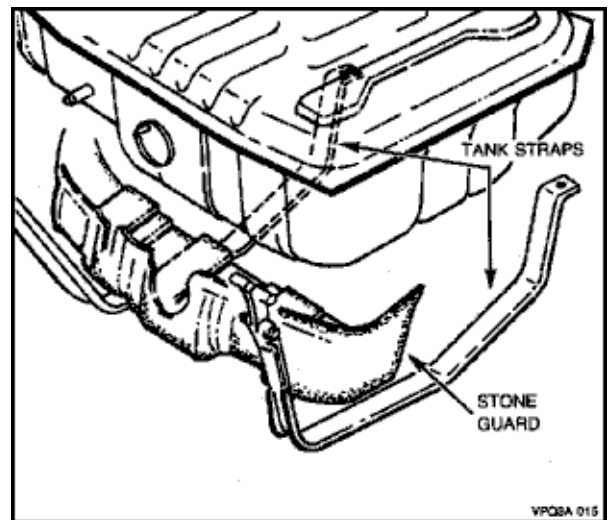


Figure 8A-15

12. Lower tank slightly on jack so as to disengage filler pipe neck from neck seal and so that vent hoses that are routed through side frame can be pulled through.

Continue to lower jack and remove tank.

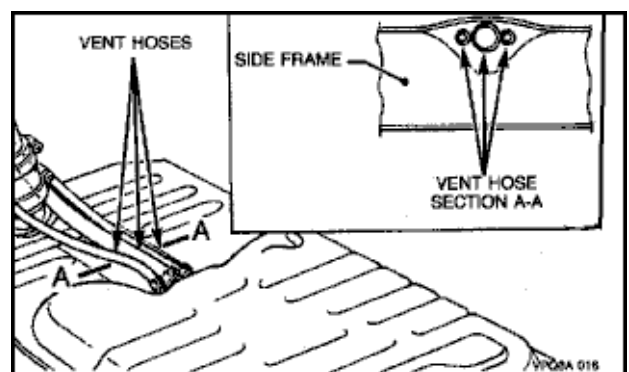


Figure 8A-16

REINSTALL

Reinstallation of the fuel tank is the reverse of removal procedures, noting the following points.

1. Check vapour and vent hoses for crimping or damage, replace as necessary.
2. Lubricate upper end of filler pipe with petroleum jelly to assist when installing filler pipe through neck seal.
3. Before installing vent hoses to filler pipe and vapour separator, blow through each hose to check for restriction due to kinking. If restriction is felt, lower tank and check vent hose routing.

FUEL TANK STRAP ATTACHING BOLTS/NUTS

15-25 Nm

4. Tighten tank strap attaching bolts and nut to the correct torque specification.
5. Ensure that plastic inline screen filter is installed into fuel return line tank pipe before installing return line hose.
6. Before starting vehicle, carry out fuel system leak test, refer [Section 6C1](#) (V6 engine) or [Section 6C2](#) (V8 engine), POWERTRAIN MANAGEMENT - SERVICE OPERATIONS in the VS Series Service Manual.

UTILITY

REMOVE

CAUTION: Ensure that there are no naked flames or other sources of ignition in the vicinity.

1. Depressurise the rail, as described in [Section 6C1](#) (V6 engine) or [Section 6C2](#) (V8 engine), POWERTRAIN MANAGEMENT - SERVICE OPERATIONS in the VS Series Service Manual.
2. Disconnect the negative cable from the battery terminal.
3. Drain the entire contents of the fuel tank by syphoning the fuel through the filler aperture.
4. Remove the front tonneau floor, refer [Section 1A5 LOAD COMPARTMENT AND ENDGATE](#) in the VR Series Service Manual.
5. Remove the right side front, access cover from the load compartment.

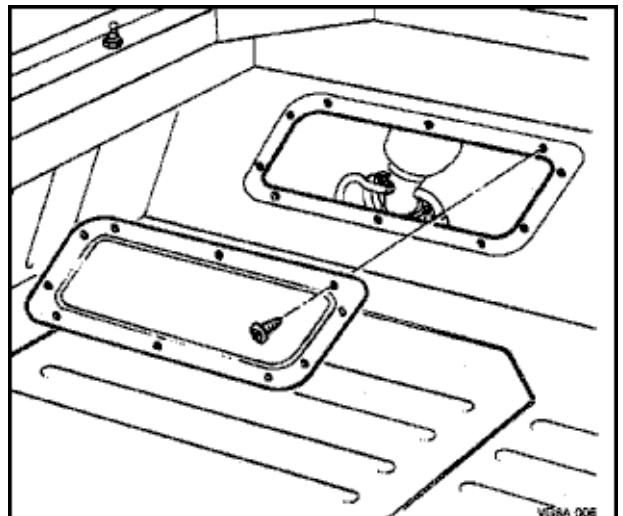


Figure 8A-17

6. Slide the right side seat fully forward, then remove the access covers behind the seat.

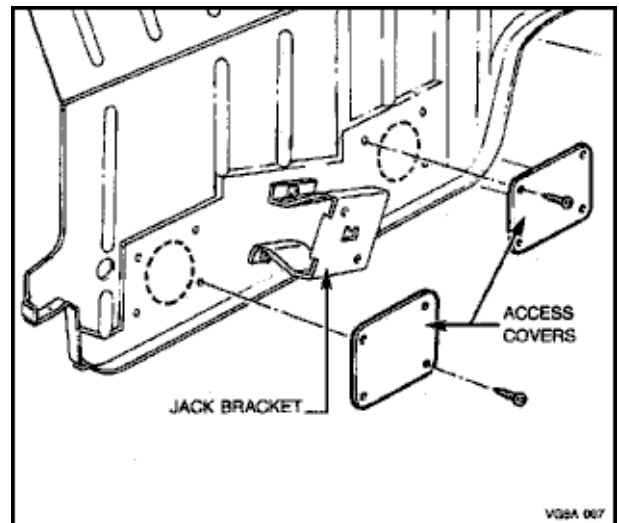


Figure 8A-18

7. Disconnect wiring harness connectors from the fuel gauge tank unit and fuel pump connectors.

NOTE: As an alternative, the wiring harness connectors can be disconnected after step 11.

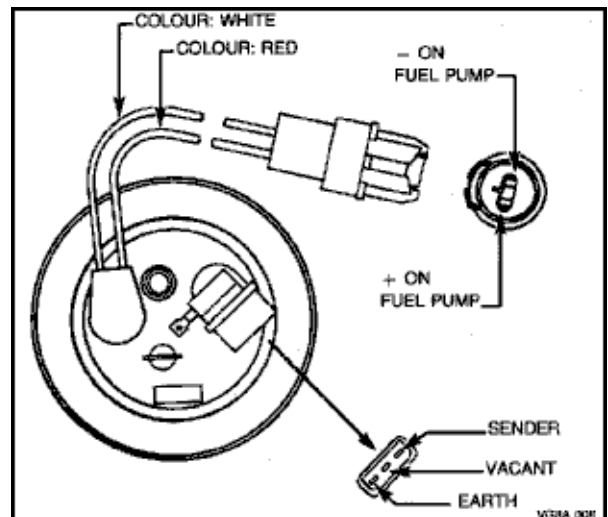


Figure 8A-19

8. Tag and disconnect the fuel feed and return hoses from the unions located at the front of the fuel tank.
9. Tag and disconnect the vent pipes from the top of the fuel tank.

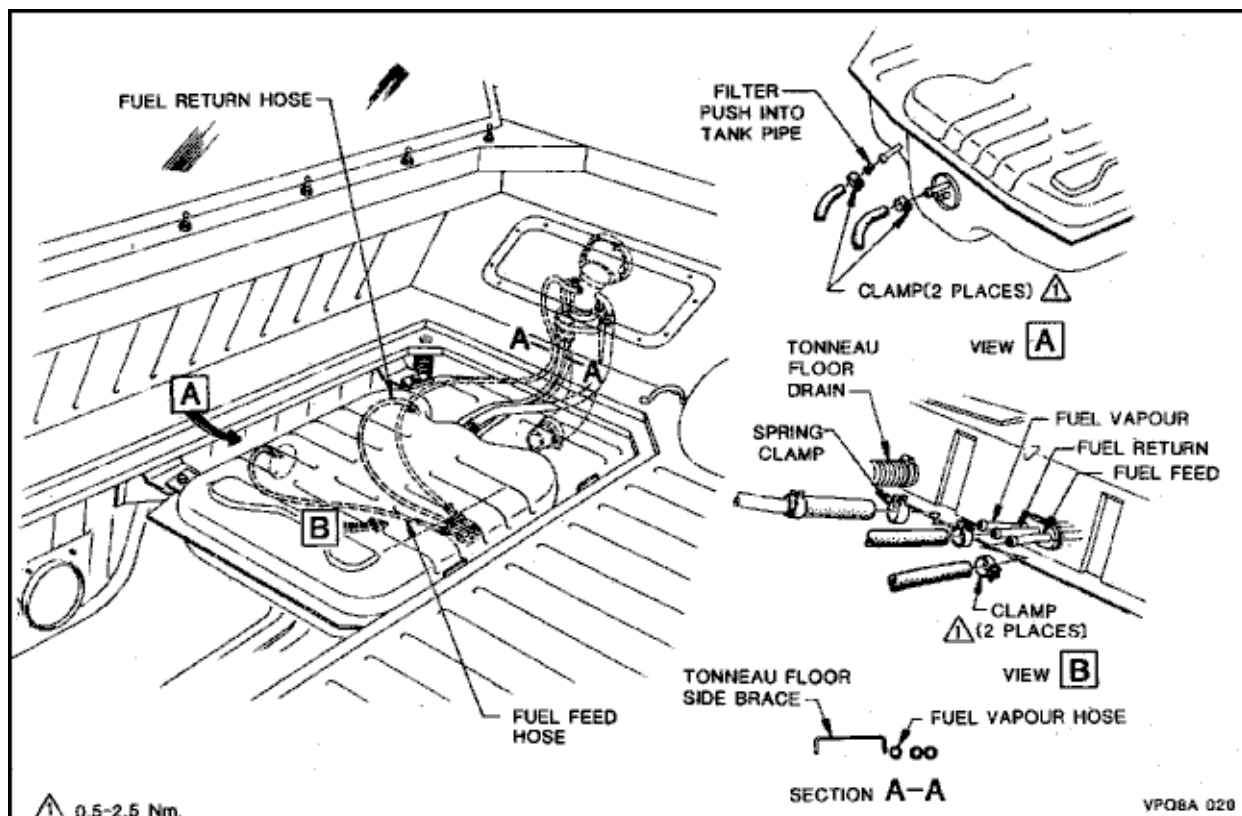


Figure 8A-20

10. Loosen the clamp around the flexible filler coupling and push coupling down the filler neck. Loosen vapour separator to flexible filler coupling clamp and pull vapour separator and clamps from coupling.
11. Remove the four bolts and clamps retaining the fuel tank, then remove the tank manipulating the flexible coupling past the inner quarter panel.

CAUTION: Fuel vapour remains in the tank even when completely empty, seal the openings in the fuel tank using a suitable plastic plug, and avoid all sources of ignition.

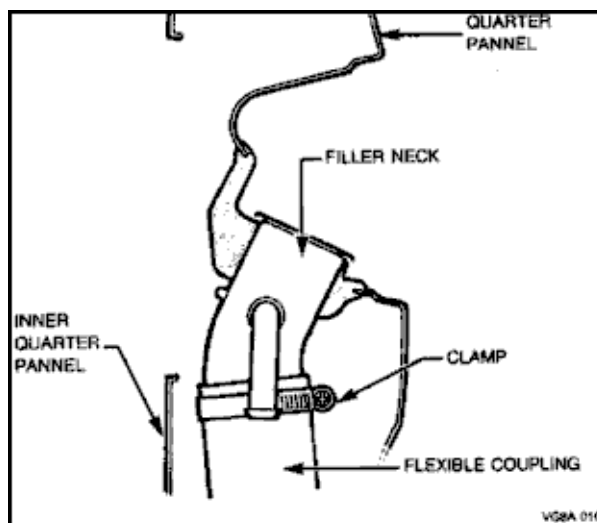


Figure 8A-21

REINSTALL

The installation procedure for the fuel tank is the reverse of the Removal procedure, note the following:

- a. Apply a bead of sealant (Holden's Specification HN1005) around the perimeter of the access covers and tonneau floor before installation.

- b. The connections for the fuel tank vent pipes are shown in Fig. 8A-22.
- c. Torque the fuel tank clamp bolts to 35 - 65 Nm.

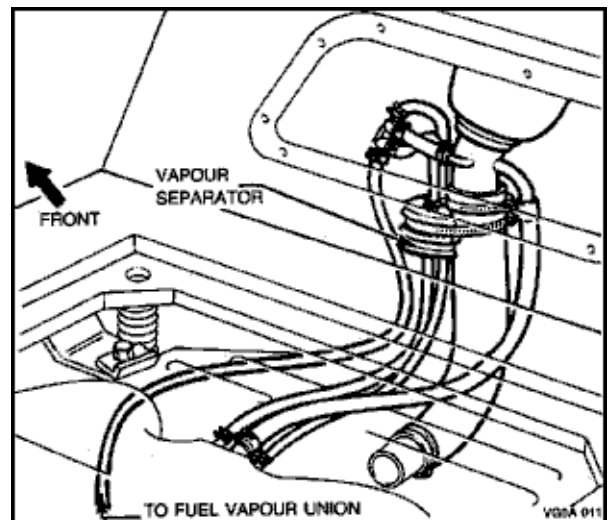


Figure 8A-22