

## 2.3 FUEL GAUGE TANK UNIT

### REMOVE

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.

**CAUTION:** Never drain or store fuel in an open container due to the possibility of fire or explosion.

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. On Sedan and Wagon Models, 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.

On Utility Models remove the fuel tank, Refer [2.1 FUEL TANK](#) - Utility Remove in this Section.

4. Where fitted, 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.

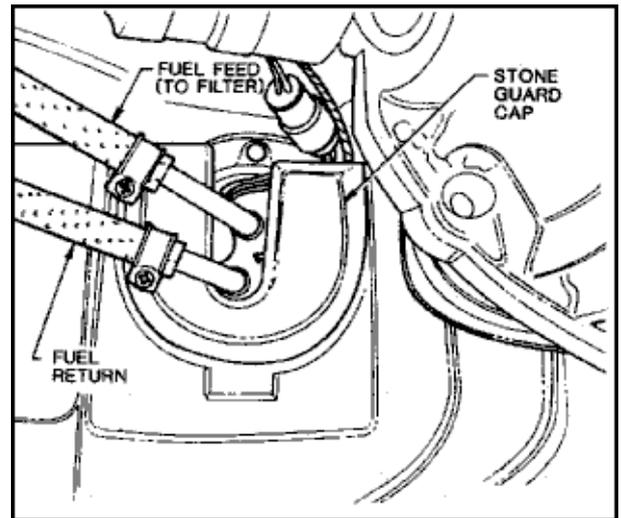


Figure 8A-29

5. Disconnect fuel line from fuel gauge sender unit.
6. Disconnect wiring harness connectors from sender unit and fuel pump terminals.

Disconnect harness from retainer.

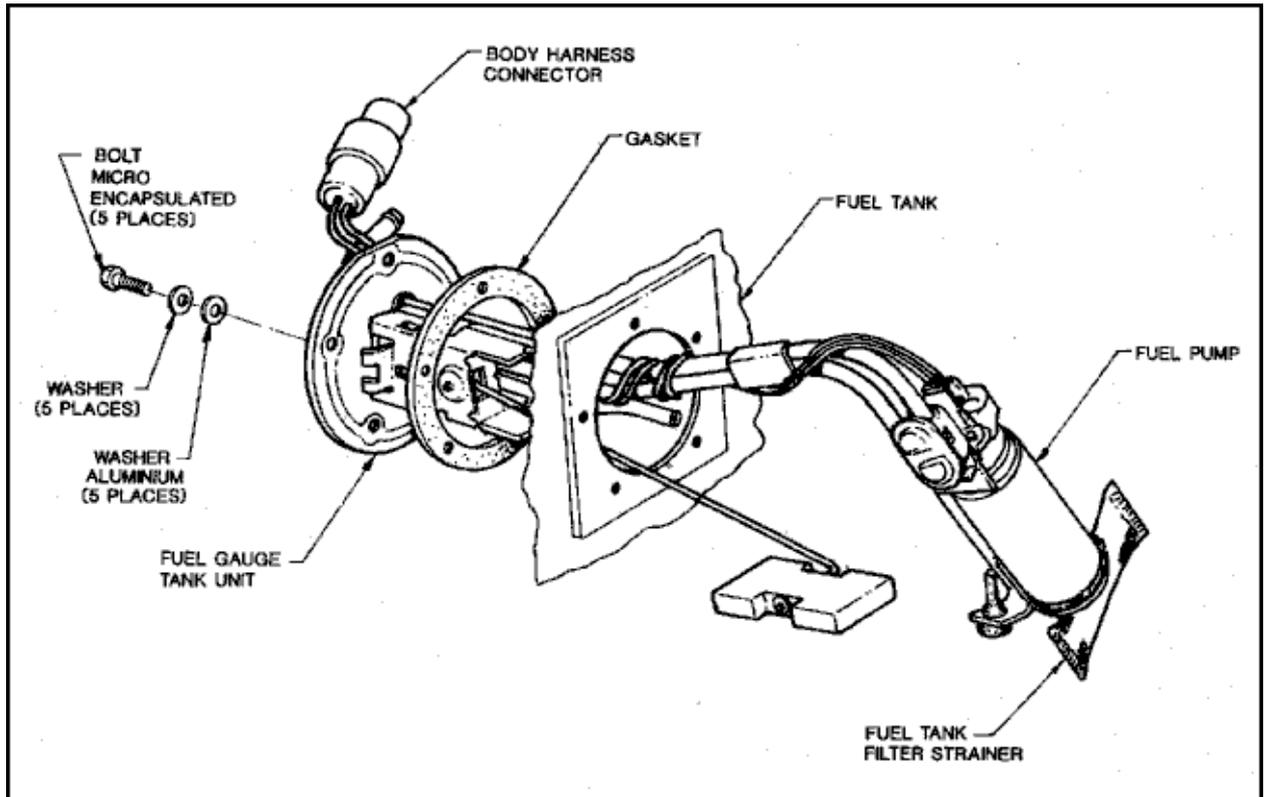


Figure 8A-30

7. Remove sender unit mount mounting bolts and sealing washers.
8. Pull out sender unit from fuel tank far enough to expose swirl pot return line to sender unit pipe 'quick connect'.
9. Insert quick connect releasing tool over sender unit pipe and into front of quick connect, engaging the two tangs of the tool with the mating recesses in the head of the quick connect.
10. Push tool into quick connect to release its locking mechanism and pull quick connect toward fuel sender unit slightly to help it release. Pull quick connect back from fuel sender unit to release return line and allow return line to go back into fuel tank.
11. Remove gauge unit and seal from fuel tank, lifting fuel pump filter from swirl pot.

NOTE: Care should be exercised during removal of the gauge unit from the tank so as not to damage the filter.

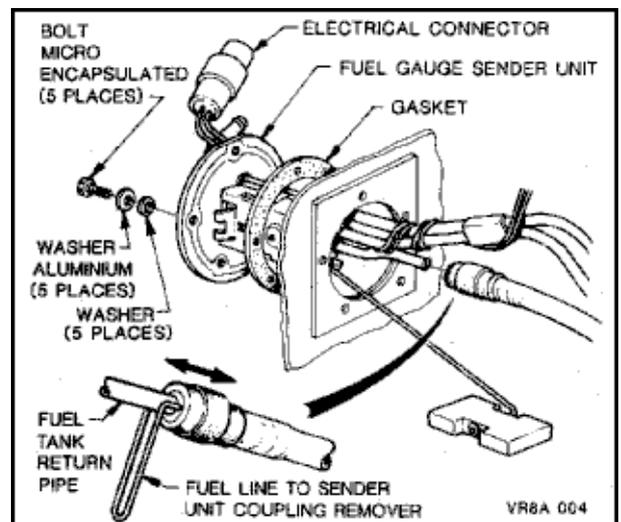


Figure 8A-31

## REINSTALL

1. Clean mating surfaces of sender unit and tank.
2. Install seal to fuel gauge sender unit.
3. Reach in through sender unit opening in fuel tank and pull out return line so that quick connect is outside opening. Ensure that return line is securely fitted into quick connect.
4. Carefully fit sender unit assembly into the tank, engaging quick connect securely onto sender unit pipe and that pump filter locates in the swirl pot.
5. Install NEW micro-encapsulated bolts with correct aluminium and fibre washers. DO NOT RE-USE OLD BOLTS

**FUEL GAUGE TANK UNIT  
MOUNTING BOLTS**

2.0-3.5 Nm

6. Tighten sender unit mounting bolts to the correct torque specification.

**NOTE:** This is important so as not to distort the fuel gauge tank unit assembly mounting plate and rubber gasket.

7. Remove safety stands and lower vehicle. Refill fuel tank and check for fuel leaks around sender unit.

**WARNING: EMPTY FUEL TANK  
CONTAINS A POTENTIALLY EXPLOSIVE  
MIXTURE OF FUEL VAPOUR AND AIR -  
DO NOT PERMIT NAKED FLAMES OR  
SPARKS IN THE VICINITY.**