

## TANKS, PIPES AND FILTERS

### FUEL TANKS

#### Description

The tank rests on two support brackets bolted to the right hand chassis side member. Two pivoted metal straps attached to the support brackets secure the tank in position.

The tank is of welded steel construction fitted with internal baffles to help reduce fuel surge when the vehicle is in motion.

Each tank has a filler pipe with a vented cap, and a fuel gauge tank unit mounted in the top of the tank incorporating the fuel feed pipe connection. An extra leak-off pipe connection is fitted for the diesel engine configuration. The fuel feed pipe connection has an internal vertical pipe with the inlet near to the bottom of the tank. A drain plug is fitted in the base of the tank.

#### To Remove

Disconnect the battery;

Clean and unscrew the drain plug and drain the fuel into a clean container.

Disconnect the two lucar connections.

Release the clamping clip to the fuel pipe elbow and detach the elbow from the tank unit. (One elbow for petrol vehicles and two elbows for diesel vehicles). Blank off elbow to prevent the ingress of foreign material.

Remove the locknut tensioning the tank straps, support the tank, swing both straps clear and lift away the tank. Remove felt packing from support brackets.

#### To Dismantle

##### Special Tool

Chrysler Tool No. CC 0026 Part No. 20279000  
Fuel tank unit remover/replacer

Using Special Tool CC 0026 unscrew tank unit locking ring a quarter turn and remove.

Withdraw the tank unit and gasket taking care not to damage the float, float arm or suction pipe.

#### Inspection and Overhaul

Thoroughly clean the exterior of the tank.

Clean the tank interior by pouring approximately 2 litres ( $\frac{1}{2}$  gallon) of fuel into the tank, whilst swirling the fuel from side to side open the drain plug and allow the fuel to drain away. Blow out the tank with compressed air.

Inspect the tank for splits and other damage.

Blow through the tank unit suction pipe to ensure that it is free from obstruction.

Ensure that the vent hole in the filler cap is free from obstruction.

Check the condition of the drain plug washer, renew as necessary.

#### To Re-assemble

Using a new gasket refit the tank unit ensuring that the unit locating tabs are correctly seated in the tank.

Fit the locking ring and secure using Special Tool CC 0026.

#### To Refit

Refitting is a reversal of the removal operation noting the following points.

Torque tighten the tank straps to the Data figure. Damage can be caused to the tank through over tightening.

Check that the fuel gauge is working.

All diesel engine fuel systems must be primed and vented after the system has been dismantled. For complete procedure see Section A 300 or A 400.

**WATER AND DIRT TRAP (DIESEL ENGINES)****Description**

The water and dirt trap is located on a bracket fitted to the right hand chassis side member. The glass bowl of the trap facilitates inspection.

**Operation**

Fuel is drawn into the trap where water and/or foreign matter gravitates to the lower part of the glass bowl. Fuel then passes through the gauze filter element, in the top of the unit, and on to the fuel lift pump.

**To Remove**

**CAUTION:** To prevent the siphoning effect which can occur when the fuel tank is three quarters or more full, disconnect the flexible fuel feed line from the tank unit located in the top of the tank.

Unscrew the knurled nut at the base of the trap, swing the stirrup to one side and remove the glass bowl, gauze retainer, gasket and filter gauze.

Disconnect the fuel pipes from the trap body. Blank off pipes to prevent the ingress of foreign material.

Remove the nuts and bolts securing the trap body to the bracket. Remove the trap body.

**Inspection**

Thoroughly clean the bowl, filter gauze and trap body, paying particular attention to the fuel passageways in the trap body.

Examine the glass bowl for damage.

Check the filter gauze and renew if damaged.

Renew the gasket between the bowl and trap body if necessary.

Check the trap body for damage, especially pipe union threads.

**To Refit**

Refitting is a reversal of the removal operation noting the following points.

Torque tighten the trap body bolts to the Data figure.

Prime the glass bowl with clean diesel fuel and refit, together with the filter gauze, gasket and gauze retainer, ensuring an airtight seal between bowl and trap body.

Prime and vent the fuel system as detailed in Section A 300 or A 400.

**IN LINE FILTER (RG 225 Engine)****Description**

A renewable paper element type filter is located on a bracket fitted to the right hand chassis side member adjacent to the fuel tank.

**To Remove**

**CAUTION:** To prevent the siphoning effect which can occur when the fuel tank is three quarters or more full, disconnect the flexible fuel feed line from the tank unit located in the top of the tank.

Unscrew the bottom container and remove the element from the filter body stub.

Disconnect the fuel lines from the filter body. Blank off pipes to prevent the ingress of foreign material.

Remove the nuts and bolts securing the filter body to the bracket.

Remove the filter body.

Remove the seal ring from the filter body.

**Inspection**

Thoroughly clean the filter body and container, paying particular attention to the fuel passageways in the filter body.

Check the filter body and container for damage.

## Tanks, Pipes and Filters

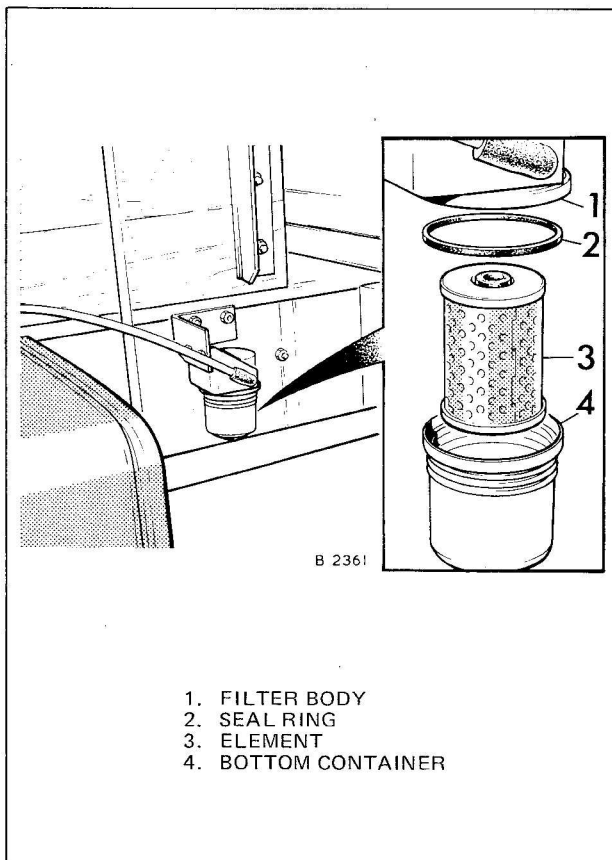


Fig. 1 In line filter (RG 225 Engine)

**To Refit**

Refitting is a reversal of the removal operation noting the following points.

Fit a new element and sealing ring.

Ensure an air tight seal between filter body and container.

**IN LINE FILTER (2 Litre Engine)****Description**

A disposable filter is located in the fuel line between lift pump and carburettor.

**To Remove and Refit**

Release the fuel pipe clamping clips and remove and discard filter.

Fit new filter and secure with fuel pipe clamping clips.

**FUEL PIPES****Inspection**

Clean and check all fuel pipes for damage and leaks especially at pipe unions. Check all pipe clips for security of attachment.