

Anti-freeze Unit (Air/hyd Models)

ANTI-FREEZE UNIT**Description**

The brake anti-freeze equipment — or alcohol evaporator — permits vapourised alcohol to circulate in the air system to safeguard against the possibility of condensate freezing within the system.

The equipment comprises a reservoir for containing the methyl alcohol; the reservoir cover which houses the inlet breather; and an air line connection to the compressor inlet.

Operation

When the compressor is operating a partial vacuum is created at the compressor inlet port which, in turn, creates a partial vacuum in the alcohol reservoir.

This vacuum sucks air into the reservoir through the inlet breather and through the inlet pipe to the bottom of the reservoir.

The air bubbles up through the alcohol and, carrying alcohol in the form of vapour, is drawn to the compressor inlet port and air system.

To Remove

Raise and support the cab grille panel, unscrew the container and disconnect the air line at the evaporator cover.

Release the three nuts and washers and remove the cover.

To Dismantle

Release the circlip and remove the outer perforated plate, breather, inner perforated plate and dished seat.

Remove the filler plug and carefully unscrew the tub from the cover.

Inspection and Overhaul

Renew filler plug and cover gaskets.

Clean breather in cleaning solvent.

Check tube and air drilling in cover for blockage.

To Re-assemble

Locate gaskets on filler plug and inside cover.

Locate the dished seat in the cover with the dished face outwards. Locate a perforated plate over the seat and pack the breather into the cover.

Locate the other perforated plate over the breather and secure with the circlip. Carefully refit the tube and do not overtighten.

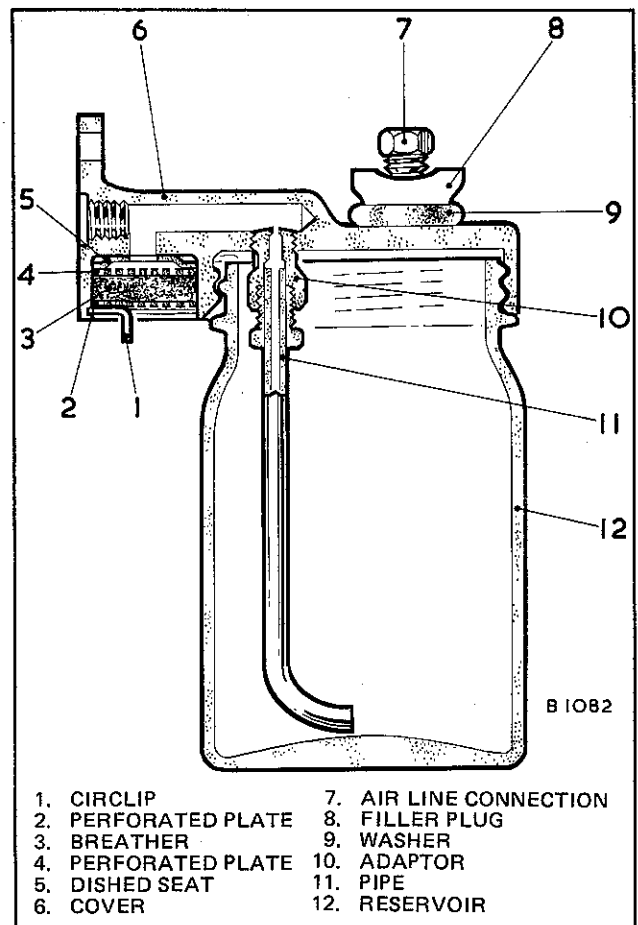


Fig. 1 Anti-freeze unit

To Refit

Locate the cover on the studs and secure with the three nuts and washers. Refit the container to the cover and reconnect the air union.

Fill up the container to the correct level and refit the filler plug.