

Anti-freeze Unit (Air/Hyd.)

## 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; a reservoir cover which houses the inlet filter; 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 filter 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

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

### Inspection and Overhaul

Renew cover seal.

Clean filter.

Check tube and air drilling in cover for blockage.

### To Re-assemble

Locate seal inside cover.

### 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.

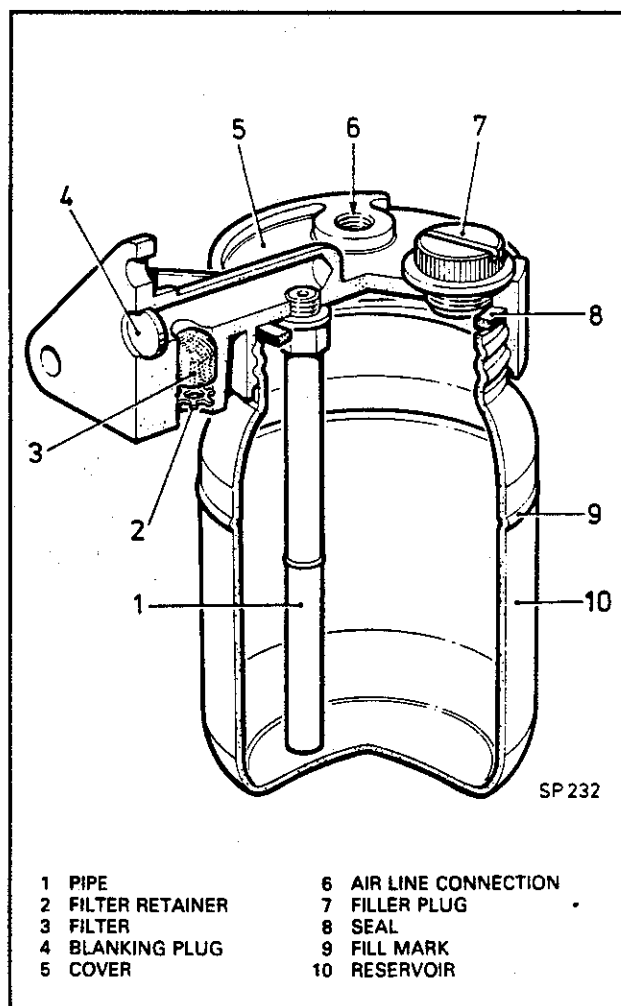


Fig. 1 Anti-freeze unit