

**Air valve piston return spring** (See Fig. 1)

This spring (30) must not be stretched or shortened. Its details are given in the Data Section under "Fuel System". If replaced, an exactly similar spring must be fitted. No washer is fitted below the spring inside the piston (9).

**Dismantling for cleaning** (See Fig. 1)

The following procedure can only be carried out with the carburettor off the engine:

1. Remove the six screws holding the float chamber to the carburettor main body, and remove the float chamber by drawing it down the jet bushing retaining screw. Because of the "O" ring (15) fit this can be rather difficult.
2. Remove the jet adjusting screw (17).
3. Remove the hydraulic damper (1) and the depression chamber cover (32).
4. Lift out the air valve piston, needle and diaphragm assembly.
5. Feed compressed air into the fuel feed hole (39) inside the float chamber and at the same time move the starter assembly over the whole range of its movement several times, with the travel stop (7) in its out position as shown in Fig. 3.

There is no need to remove the jet bush retaining screw (18) when cleaning only is required.

**Cleaning**

Fuel, or paraffin (kerosene), ONLY, should be used for cleaning the carburettor parts. NOTHING ELSE can be used. Certain cleaning and degreasing fluids will ruin the diaphragm and "O" rings.

The jet, and the space inside the jet bush retaining screw should be blown out with clean compressed air.

**Reassembly after cleaning** (See Figs. 13 and 14)

This is a reversal of the dismantling procedure. If necessary the float chamber joint (36) and "O" ring (47) should be renewed.

When refitting the diaphragm and air valve piston the locating lip on the diaphragm must fit in the corresponding locating recess in the carburettor body.

As the jet adjusting screw was removed it will be necessary to reset the slow running and check the synchronisation of the carburettors.

**Removal**

Remove the air cleaner assembly.

Disconnect fuel feed pipe.

Disconnect choke control and throttle operating cables.

Remove the carburettor flange fixing nuts and lift off both carburettors together.

The dismantling and cleaning procedure previously described or renewal of float chamber parts can be carried out without separating the carburettors.

If necessary release the throttle and starter assembly interconnection bolts and separate carburettors.

**Refitting**

Refitting the carburettors is a reversal of the removal procedure.

After refitting, the starter assemblies interconnection adjustment should be made, the throttles synchronised, and the slow running adjusted as described under ADJUSTMENTS.

Check that the air valve spindle is full of clean engine oil to ensure correct action of damper. See "Hydraulic damper" under SERVICING.