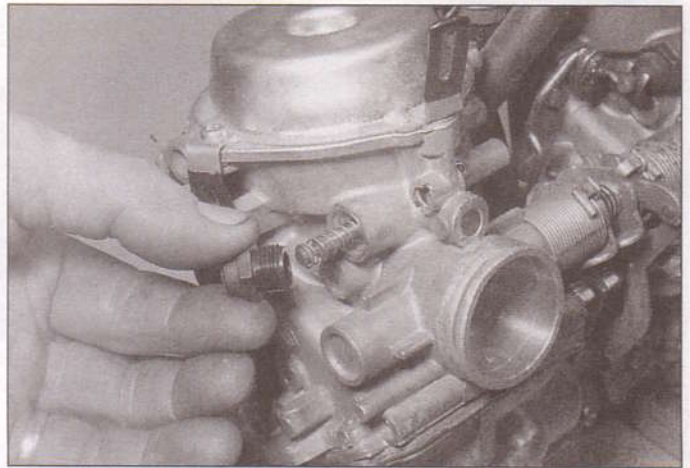


10.1a Fit the plunger and spring ...



10.1b ... and secure them with the nut

Fit the air duct assembly onto the carburettors, making sure the assembly locates correctly into the dowels and that each rubber flange locates correctly around the air pipes. This can be a tricky operation, but great care must be taken to ensure that the holes in each flange locate correctly around each pipe, as they can easily become distorted by the pipes as you fit them, resulting in the rubbers being damaged and air leaks occurring. If the assembly does not want to locate easily, lighten it down using the screws after installing the lockplates.

2 Install the air duct assembly lockplates, using new ones if required and install the screws (see illustration 9.3b). Tighten the screws evenly and a little at a time to ensure that the assembly is drawn down evenly and squarely onto the carburettors. Bend the tabs on the lockplates up onto the screws (see illustration 9.3a).

3 Install the carburettors (see Section 7).

10 Carburettors - reassembly and float height check



Warning: Refer to the precautions given in Section 1 before proceeding.

Note: When reassembling the carburettors, be sure to use new O-rings and seals. Do not overtighten the carburettor jets and screws as they are easily damaged.

1 Install the choke plunger and spring into the carburettor body and tighten the nut to secure it (see illustrations).

2 On VFR models, if completely removed, slide the choke linkage bar through the no. 1 carburettor (rear pair) and the no. 4 carburettor (front pair), then slide the spring onto the bar (see illustration 9.19a). Fit the arm onto its plunger, then slide the bar through the inner arm and into its bore in the other carburettor (see illustrations 9.19b and c).

3 Fit each choke linkage arm onto the outer

plungers (see illustration 8.13b). Align each arm on each plunger so that the freeplay between them is equidistant, so that each plunger opens simultaneously with the rest when the choke is activated, then tighten the clamp screws onto the bars (see illustration 8.13a).

3 On RVF models, fit the choke linkage bar return spring and inner plastic washers, then locate the bar, fit the outer plastic washers and secure the bar with the screws (see illustrations 8.14d, c, b and a).

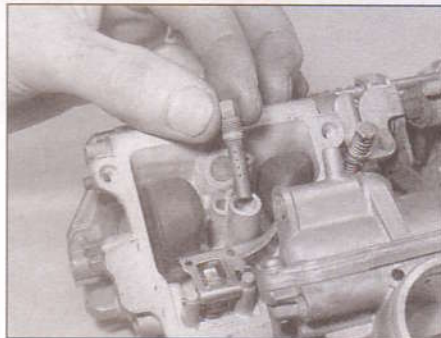
4 Install the pilot screw (if removed) along

with its spring, washer and O-ring, turning it in until it seats lightly (see illustration 8.12). Now, turn the screw out the number of turns previously recorded on disassembly.

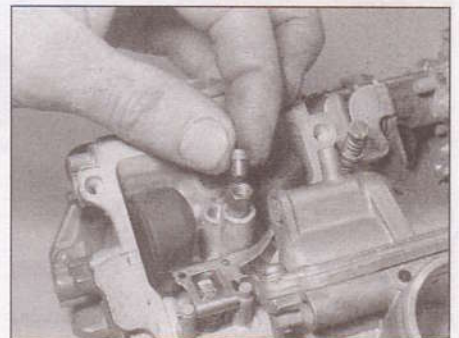
5 Install the needle jet holder into the carburettor (see illustration). Screw the main jet into the end of the needle jet holder (see illustration).

6 Install the pilot jet into the carburettor (see illustration).

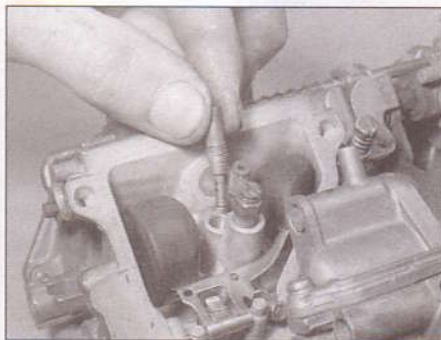
7 On VFR models, install the float needle valve seat and its sealing washer, making sure the filter is attached (see illustration).



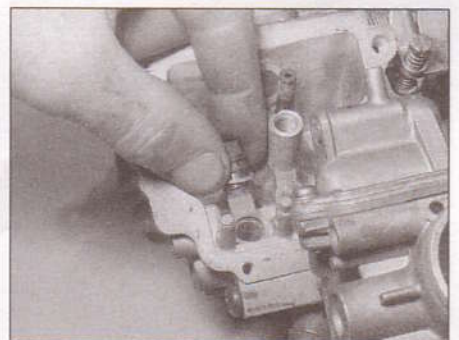
10.5a Install the needle jet holder ...



10.5b ... the main jet ...



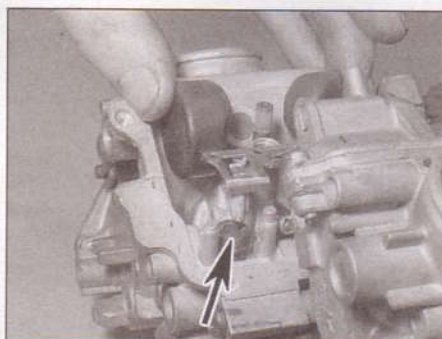
10.6 ... and the pilot jet



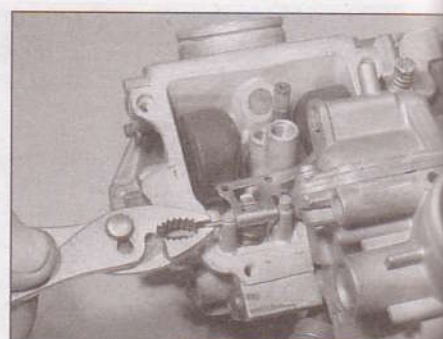
10.7 Install the needle valve seat, using a new sealing washer if required



10.8a Hook the needle valve onto the tab ...



10.8b ... then fit the float assembly, making sure the valve enters the seat (arrow) ...



10.8c ... and secure it with the pin

8 Hook the float needle valve onto the float tab, then position the float assembly in the carburettor and install the pin, making sure it is secure (see illustrations).

9 To check the float height, hold the carburettor so the float hangs down, then tilt it back until the needle valve is just seated, but not so far that the needle's spring-loaded tip is compressed. Measure the distance between the gasket face (with the gasket removed) and the bottom of the float with an accurate ruler (see illustration). The correct setting should be as given in the Specifications at the beginning of the

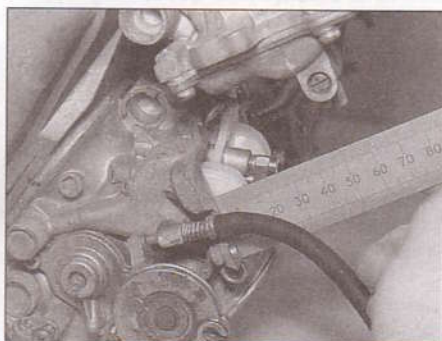
Chapter. If it is incorrect, adjust the float height by carefully bending the float tab a little at a time until the correct height is obtained. Repeat the procedure for all carburettors.

10 With the float height checked, fit a new rubber gasket onto the float chamber, making sure it is seated properly in its groove, and install the chamber onto the carburettor (see illustrations).

11 On VFR models, if removed, fit the washer onto the needle and insert the needle into the piston (see illustration). Fit the spring into the retainer then fit the retainer into the piston,

then push down on the needle retainer using a Phillips screwdriver and rotate it until its tab locks under the protrusion in the piston (see illustration).

12 On RVF models, fit the washer onto the needle and insert the needle into the piston (see illustration 10.11a). Fit a new O-ring into the groove in the needle holder. Fit the spring into the holder, then insert the holder into the centre of the piston and push it down until the O-ring is felt to locate in its groove in the piston (see illustration). Remove the bolt used on removal from the holder, if not already done.



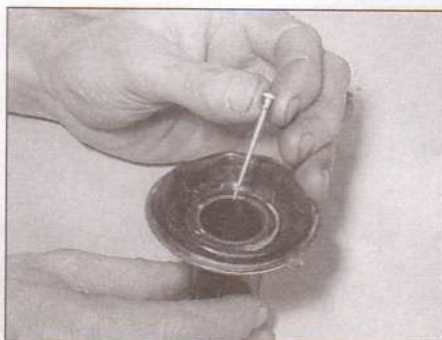
10.9 Measuring float height



10.10a Fit a new gasket into the groove ...



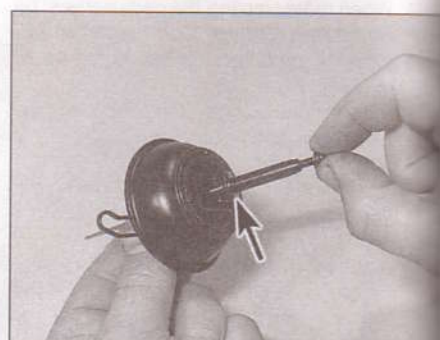
10.10b ... and install the float chamber



10.11a Fit the needle into the piston ...



10.11b ... and secure it with the retainer as described



10.12 Install the needle holder using a new O-ring (arrowed)