

## II. Double Downdraft Carburetor for Models 220 a and 219

### A. General

Models 220 a and 219 have a Solex double downdraft carburetor Type 32 PAATI. To all intents and purposes the double downdraft carburetor combines two separate carburetors in one housing. It has two 32 mm diameter suction canals each with its own main carburetion system and idle system. The accelerating pump and the starter mechanism, however, supply both suction canals of the carburetor together. The float chamber and the air intake occupy a central position (Fig. 07-0/11).

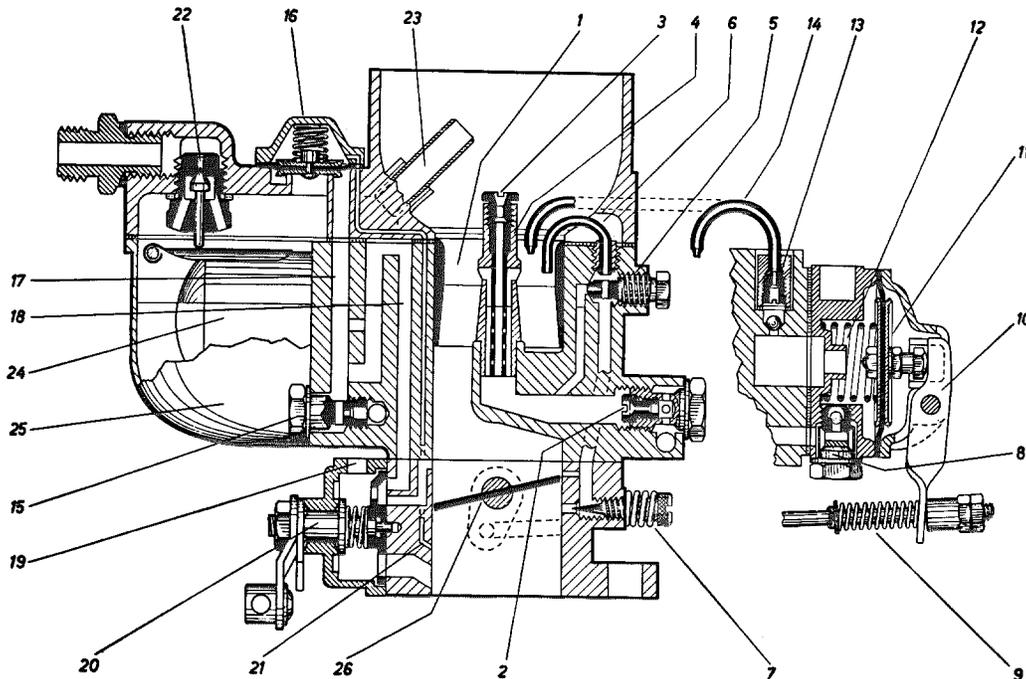


Fig. 07-0/11

Solex Carburetor Type 32 PAATI

- |  |  |
|--|--|
| 1 Air horn   | 14 Injection tube                                      |
| 2 Main jet plug with main jet                            | 15 Starter fuel jet                                    |
| 3 Air correction jet                                     | 16 Starter air valve                                   |
| 4 Mixing tube holder with mixing tube                    | 17 Air canal from starter air valve to fuel canal (18) |
| 5 Idle fuel jet  | 18 Fuel canal to starter system                        |
| 6 Idle suction tube                                      | 19 Starter air bore                                    |
| 7 Idle mixture adjustment screw                          | 20 Starter rotary slide valve                          |
| 8 Ball valve   | 21 Vacuum canal for starter air valve                  |
| 9 Connecting rod with pressure spring and adjusting nuts | 22 Float needle valve                                  |
| 10 Pump arm  | 23 Vent tube for float chamber                         |
| 11 Pump diaphragm  | 24 Float   |
| 12 Diaphragm spring                                      | 25 Float chamber                                       |
| 13 Fuel jet in injection tube                            | 26 Throttle valve                                      |

**Note:** a) Fig. 07-0/11 shows the 1<sup>st</sup> version carburetor without grey cast-iron flange on the throttle valve section. The 2<sup>nd</sup> version carburetor with grey cast-iron flange has been installed in Model 220 a as a standard part as from Engine End No. 4502815.

b) The new version of the carburetor for Model 219 (installed as a standard part as from Engine End Nos. 10-9501619 and 11-9500384) (as from Solex Carburetor No. 3 908 566) has idle air jets instead of the idle suction tubes shown above (for details see Section F).