

# Description of Carburetors

07-0

Job No.

## I. Downdraft Carburetor for Models 180, 180 a and 180 b

### Models 180 and 180 a

#### A. General

Models 180 and 180 a are equipped with a Solex downdraft carburetor Type 32 PICB. This carburetor has a suction canal with a diameter of 32 mm and a central air entry. The starter mechanism, the idle system, the main carburetion system as well as the accelerating pump work essentially on the same principles as the double-downdraft carburetor (Fig. 07-0/1).

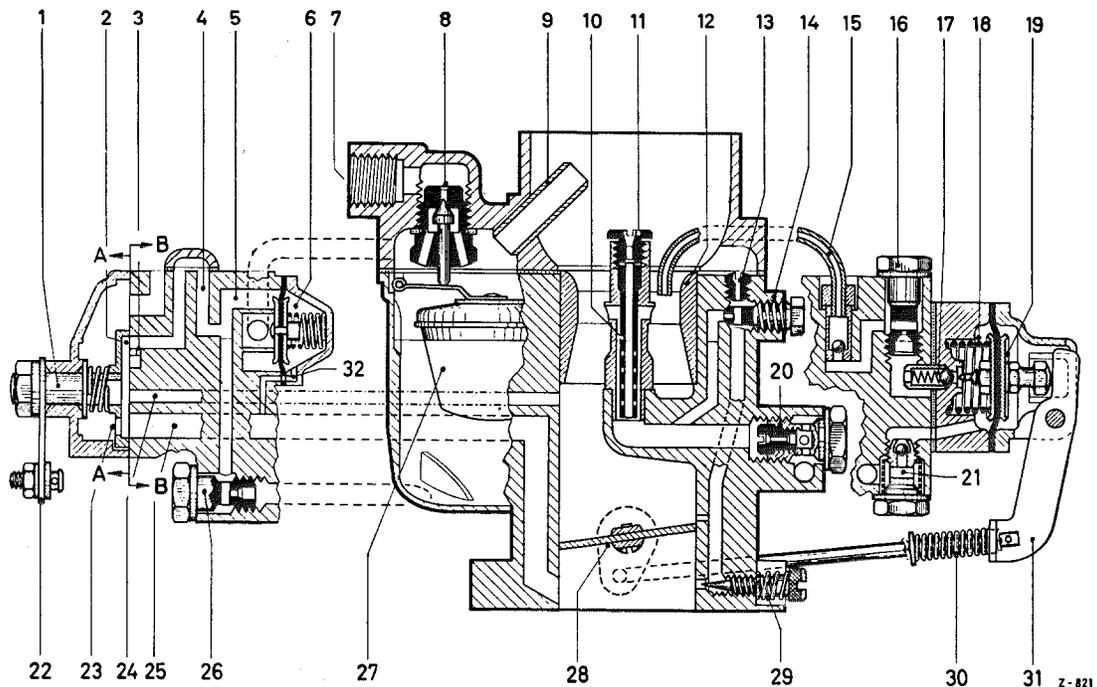


Fig. 07-0/1

#### Solex Carburetor Type 32 PICB

- |   |   |
|---|---|
| 1 Starter rotary slide valve                              | 17 Ball valve                                     |
| 2 Graded intake bore in starter flange for fuel canal (4) | 18 Diaphragm spring                               |
| 3 Graded intake bore in starter flange for fuel slot (39) | 19 Pump diaphragm                                 |
| 4 Fuel canal to starter system                            | 20 Main jet plug with main jet                    |
| 5 Air canal from starter air valve to fuel canal (4)      | 21 Ball valve                                     |
| 6 Starter air valve                                       | 22 Starter lever                                  |
| 7 Fuel-line connection in carburetor cover                | 23 Starter air bore in starter rotary slide valve |
| 8 Float needle valve                                      | 24 Additional air canal                           |
| 9 Vent tube for float chamber                             | 25 Starter mixture canal                          |
| 10 Mixing tube holder with mixing tube                    | 26 Starter fuel jet                               |
| 11 Air correction jet                                     | 27 Float  |
| 12 Air horn   | 28 Throttle valve                                 |
| 13 Idle air jet   | 29 Idle mixture adjustment screw                  |
| 14 Idle fuel jet  | 30 Connecting rod with pressure spring            |
| 15 Injection tube   | 31 Pump arm                                       |
| 16 Pump jet   | 32 Vacuum canal for starter air valve             |