

Change: Model 180 c added.

Model 180 b, 180 c

A. General

The engines of models 180 b and 180 c are provided with a Solex Downdraft Carburetor 34 PJCB. Carburetor 34 PJCB has a suction canal dia. of 34 mm.

The starter mechanism, the idle system and the main carburetion system are the same as for the downdraft carburetor 32 PJCB (up to now installed in model 180 a). For model 180 c the mixing tube holder is provided with a polyamide ball, which prevents the fuel in the float housing from flowing back when the vehicle is heavily braked and thereby prevents stalling of the engine, in addition, model 180 c is provided with a float needle valve having a cut-off tip.

The acceleration pump used for carburetor 34 PJCB is a so-called "neutral" pump (carburetor 32 PJCB has a strengtning or enriching pump). With a neutral acceleration pump the engine is able to take in additional fuel by way of the injection tube (15) and bore (17) from the pump system at partial load and at full load, depending on the vacuum in the air horn, without operating the accelerating pump (Fig. 07-0/10 c).

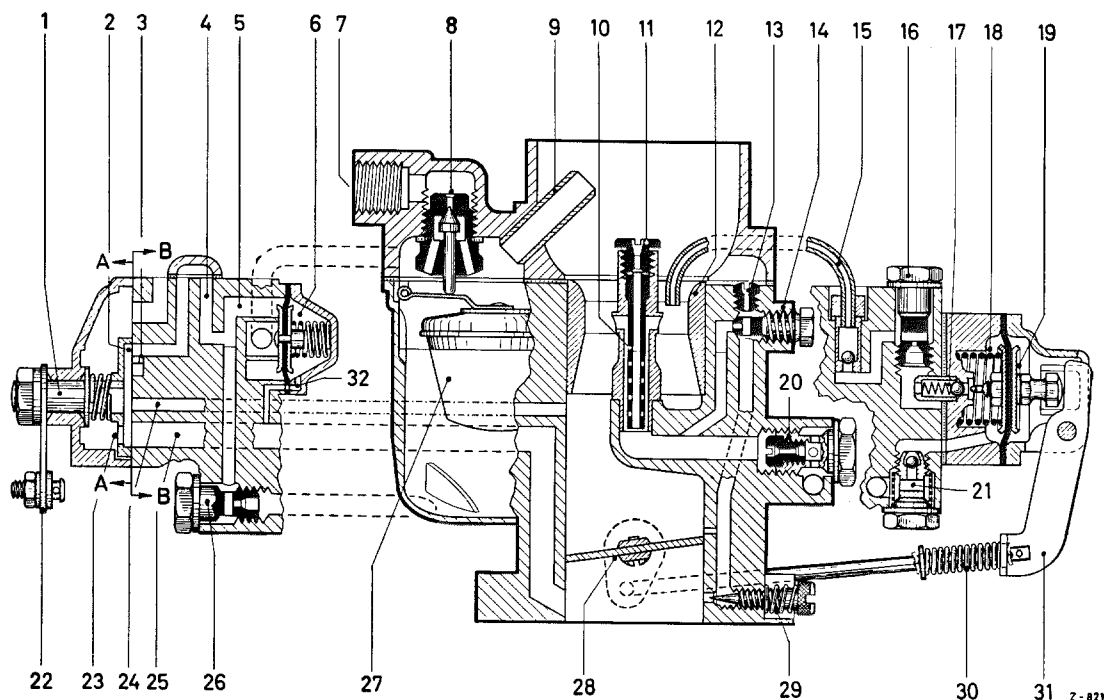


Fig. 07-0/10 c

Solex Carburetor 34 PJCB

- | | |
|---|---|
| 1 Starter rotary slide valve | 17 Bore |
| 2 Graded intake bore in starter flange for fuel canal (4) | 18 Diaphragm spring |
| 3 Graded intake bore in starter flange for fuel slot | 19 Pump diaphragm |
| 4 Fuel canal to starting 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 Connection rod with pressure spring |
| 15 Injection tube | 31 Pump arm |
| 16 Pump jet | 32 Vacuum canal for starter air valve |

B. Technical Specifications of Solex Downdraft Carburetor Model 34 PJCB

Carburetor	Model 180 b	Model 180 c
Air horn "K"	28	
Main jet "Gg"	0150	0145
Air correction jet "a"	195	180
Mixing tube "s"	1	49
Mixing tube holder (reserve) ¹⁾	5.5	
Idle fuel jet "g"	55	
Idle air jet "u"	1.3	
Accelerating pump	No. 72 (neutral)	
Injection amount cc/stroke	1.0-1.2	0.7-1.0
Pump jet "Gp"	50	80
Injection tube	high (0.5 graded)	
Pump Diaphragm plate dia. mm	22	
Position of cotter pins in connecting rod to accelerating pump (Fig. 07-0/10 d)	"c" and "e"	"b" and "e"
Starter fuel jet "Gs"	180	
Starter air bore in starter rotary slide valve	5.5	4
Float needle valve	2.0 ²⁾	
Float weighth (float of nylon) g	5.7	
Fuel level mm	16-18	
Angle of inclination of throttle valve	8°	
By-pass bore mm ϕ	1.2/1.2	
Stabilizing hole	1.5	

¹⁾ Model 180 c with polyamide ball valve.

²⁾ Model 180 c with float needle valve having cut-off tip.

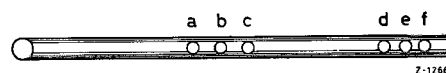


Fig. 07-0/10 d

Connecting rod of
accelerating pump