Removal and Installation of Bedplate—Cleaning of Carburetor

## Removal of Bedplate

**1** Remove carburetor cover (113). Force closing cap (75) off (Fig. 07—3/1).

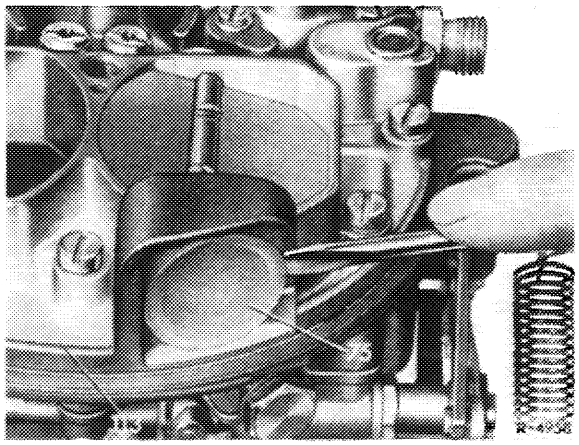


Fig. 07—3/1

75 Closing cap
113 Carburetor cover

Pull off locking ring (123) and disconnect starter connecting rod (74) (Fig. 07—3/2).

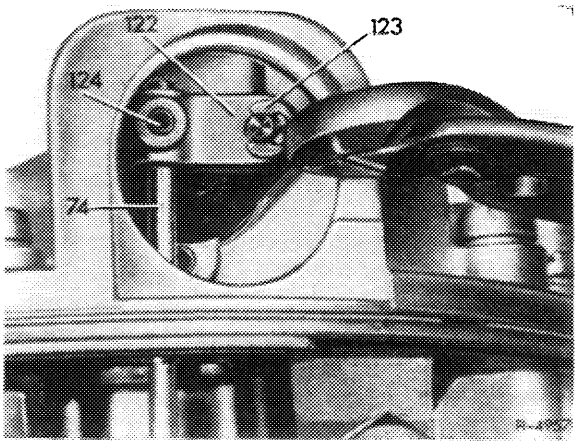



Fig. 07—3/2

74 Starter connecting rod
122 Articulated member
123 Locking ring
124 Hexagon socket screw

Loosen slotted screw (124a) on starter connecting rod (74) of earlier version of carburetor cover (Fig. 07—3/3).

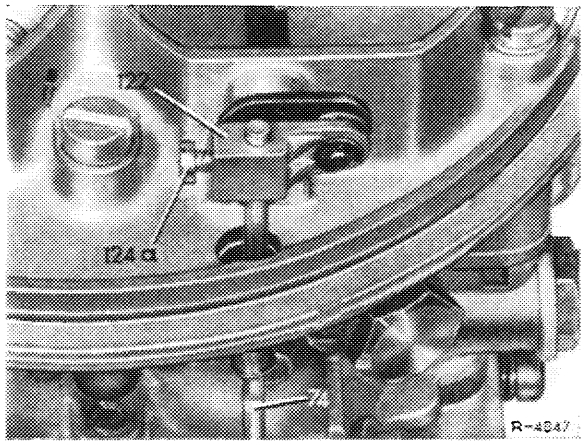



Fig. 07—3/3

1st Version of Carburetor Cover

74 Starter connecting rod
122 Articulated member
124a Slotted screw

Then unscrew the 9 cheesehead screws (120) from carburetor cover (Fig. 07—3/4).

**Caution!** The center fastening screw is countersunk in the tapped hole for the air filter attachment.

Force carburetor cover with screw driver at pertinent point and remove (Fig. 07—3/5 and 6).

**2** Unscrew the three cheesehead screws (107) from bedplate (77) and remove bedplate (Fig. 07—3/7).

**3** Actuate piston of accelerator pump and check pump intake valve (95) for float housing for leaks (Fig. 07—3/10). Remove pump piston (102) from bedplate (Fig. 07—3/8).

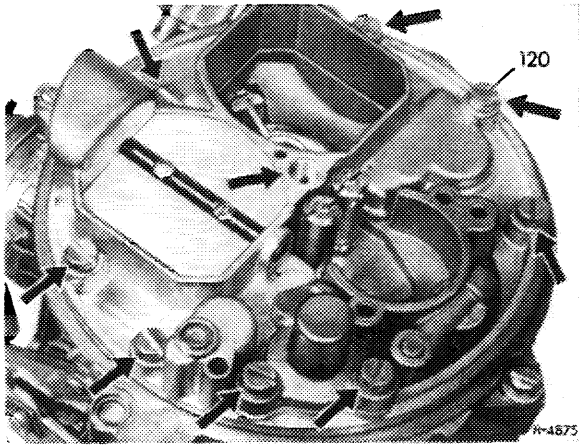



Fig. 07–3/4
120 Cheesehead screws

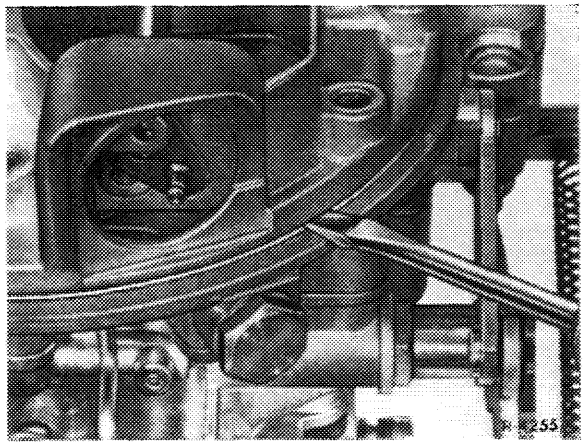


Fig. 07–3/5

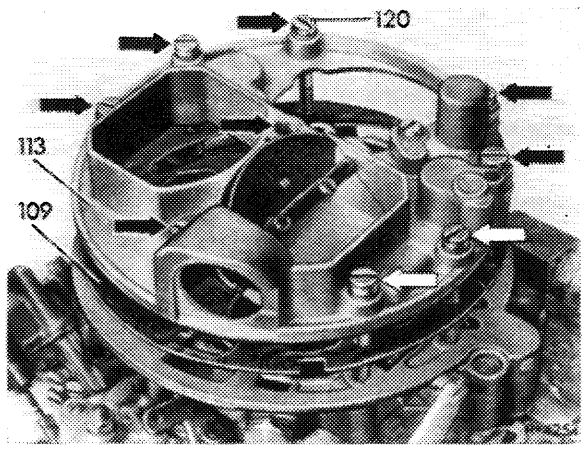



Fig. 07–3/6

109 Seal
113 Carburetor cover
120 Cheesehead screws

**4** Unscrew air correction jets of Stage I (89) and of Stage II (92). Turn bedplate around and shake

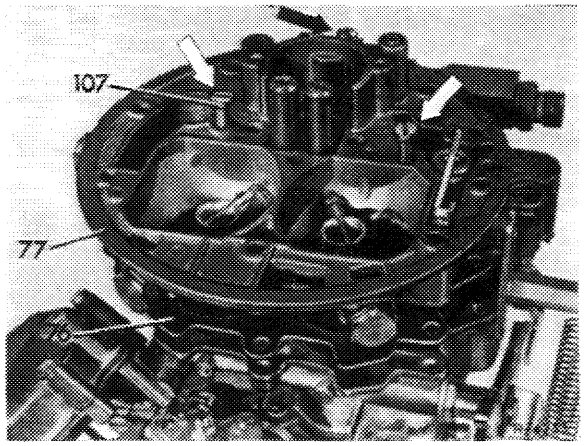



Fig. 07–3/7

76 Seal
77 Bedplate
107 Cheesehead screws

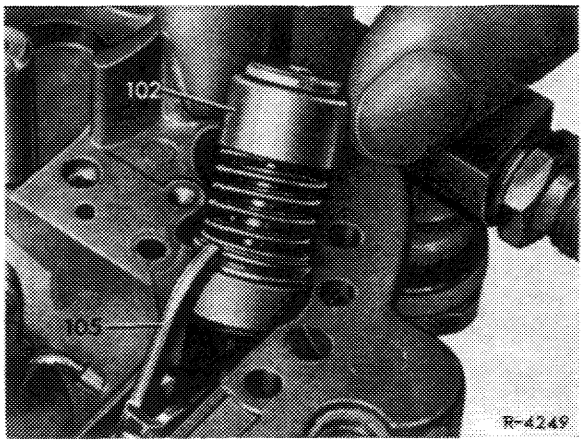



Fig. 07–3/8

102 Pump piston
105 Inner pump lever

idling speed fuel jet (93), as well as the mixing tubes of Stage I (88) and Stage II (91) into the open hand (Fig. 07–3/9).

**Note:** If the mixing tubes or the idling speed fuel jets are too tight in bedplate, pull out with a pointed piece of wood. Never use metal for such a purpose.

**5** Unscrew main jets of Stage I (87) and of Stage II (90), transition jet (94) from Stage I to II, pump intake valve (95) and pump pressure valve (97) (Fig. 07–3/10).

**6** Unscrew fastening screw (85) of float holder (84) and remove holder with float (82). Watch out for float shaft (Fig. 07–3/11).

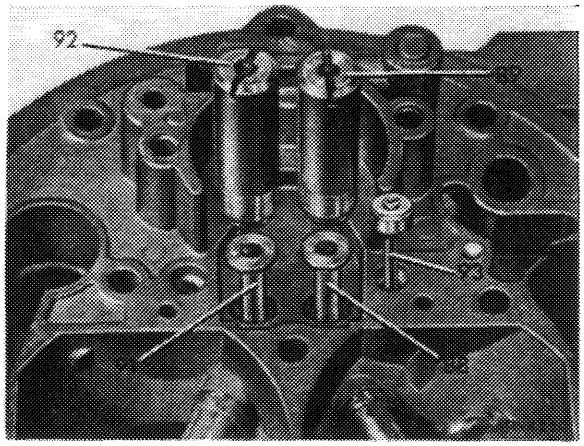



Fig. 07–3/9

88 Mixing tube Stage I
89 Air correction jet Stage I (USA version)
91 Mixing tube Stage II
92 Air correction nozzle Stage II (USA version)
93 Idling speed fuel jet

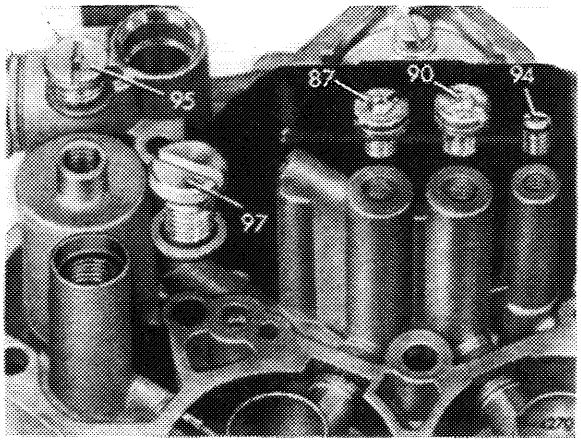



Fig. 07–3/10

87 Main jet Stage I
90 Main jet Stage II
94 Transition jet
95 Pump intake valve
97 Pump pressure valve

**7** Unscrew float needle valve (80). Watch out for sealing ring (81) (Fig. 07–3/12).

**8** Remove float housing venting valve. Check seat of venting valve in bedplate for damage.

**Installation**

**9** Clean all jets, valves, the bedplate and the holes in the bedplate with fuel and blow-out with compressed air.

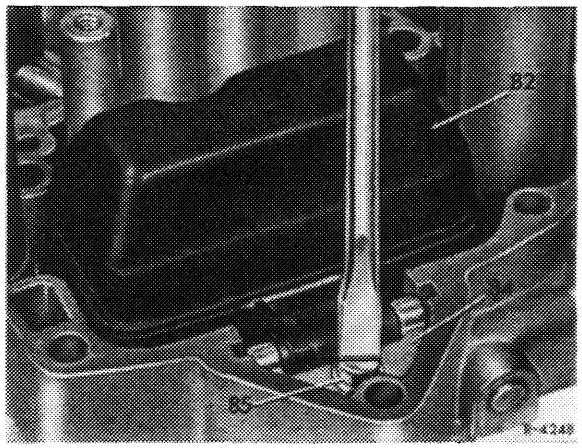



Fig. 07–3/11

82 Float
84 Float holder
85 Cheesehead screw

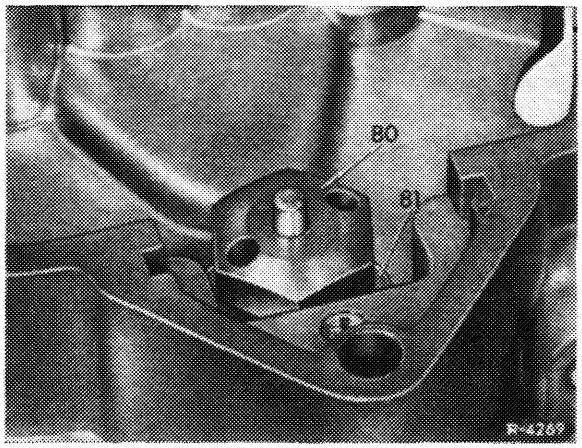



Fig. 07–3/12

80 Float needle valve
81 Sealing ring

**Note:** Never use a needle or wire for cleaning the jets, since this will damage or widen the calibrated holes.

**10** Check suction and pressure valves by shaking whether the balls in the valves are loose.

**11** Install jets, mixing tubes, valves and floats.

**Caution!** Do not confuse jets and mixing tubes (for carburetor line-up refer to Job No. 07–0).

**12** Check float level. Measure distance between float (82) and top edge of bedplate (77) without seal (Fig. 07–3/13).

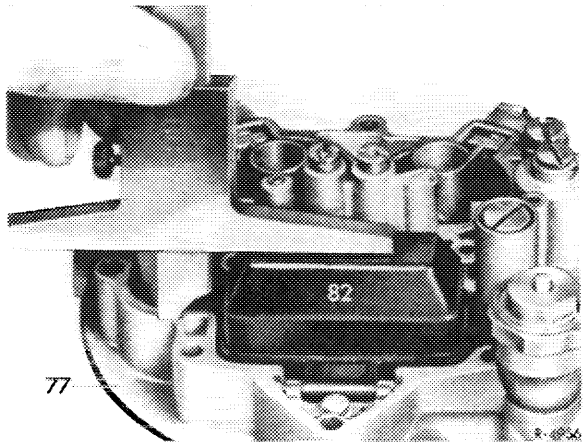



Fig. 07–3/13

77 Bedplate 82 Float

The distance should be 21–23 mm. If the distance must be corrected, place pertinent sealing ring under float needle valve.
**Note:** Copper sealing rings are available 0.5, 1.0, 1.5, and 2.0 mm thick.

**13** Check leather sleeve of pump piston for cracks or other damage. When the sleeve is damaged, the entire pump piston must be replaced. Make sleeve elastic by knedding and invert once or twice to provide again sufficient initial tension (Fig. 07–3/14). Insert pump piston into bedplate.

**14** Clean float housing, blow all holes with compressed air.

**15** Check vacuum system for actuating throttle valve of Stage II. For this purpose, push vacuum diaphragm on actuating rod upwards and keep control holes in venturis (arrows in Fig. 07–3/15) closed, release diaphragm rod. When the system is leakproof, the diaphragm should not relax.

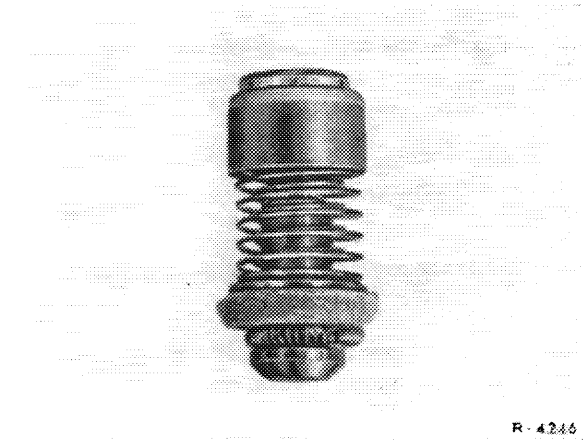



Fig. 07–3/14

Pump piston

**16** Place new seal (76) on float housing and make sure that the holes and ducts are not covered by the seal (arrows in Fig. 07–3/15).

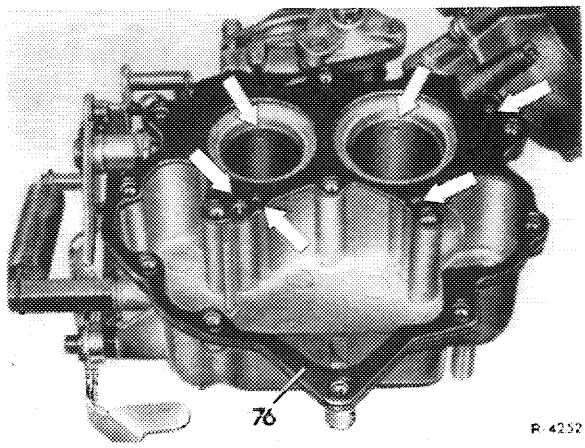



Fig. 07–3/15

76 Seal

**17** Fill clean fuel into float housing.

**18** Mount bedplate.

**19** Check accelerator pump.

**a) Checking of injected fuel quantity:**

Actuate pump lever several times. If the pump piston and the pump valves have been tested and are in order, a steady fuel jet should be ejected from injection pipe. If not, replace injection pipe. For this purpose, move injection pipe (2) back and forth with pliers and pull out of bedplate (Fig. 07–3/16).

Insert new injection pipe into bedplate by applying light blows with a dull screw driver against the brass sleeve (3) (Fig. 07–3/17).

Measure amount of fuel injected. For this purpose, unscrew pressure screw (100) for preatomizer (99) and remove preatomizer (Fig. 07–3/18).

Change: Paragraph c corrected

Insert measuring vessel (1) and operate actuating lever slowly, 2–3 s/stroke (Fig. 07–3/19).

Measure amount of injected fuel several times.

**b) Adjustment of injected fuel quantity:**

If the amount of the injected fuel must be corrected, bend inner pump lever (105) on pertinent bending point as required (Fig. 07–3/20 arrow).

**c) Checking direction of jet:**

The jet should hit the wall of the venturi 10–15 mm below the upper edge of the float housing (Fig. 07–3/21).

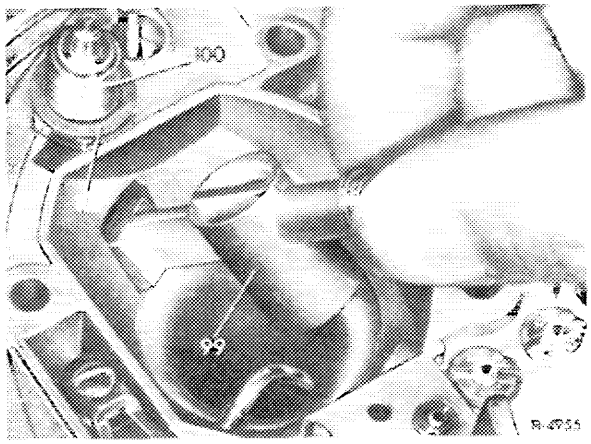



Fig. 07–3/18

99 Preatomizer
100 Pressure screw
101 Sealing ring

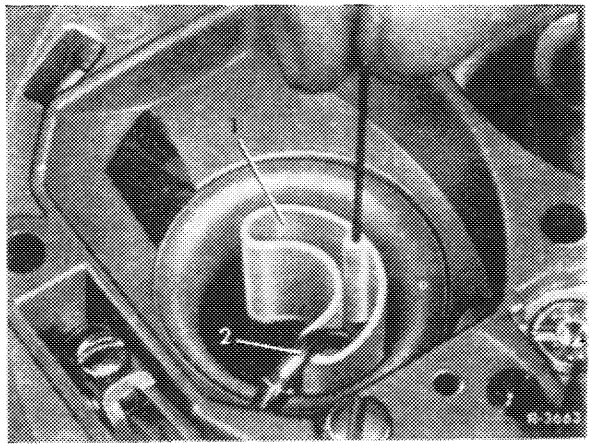



Fig. 07–3/19

1 Measuring vessel
111 589 17 21 00
2 Injection pipe

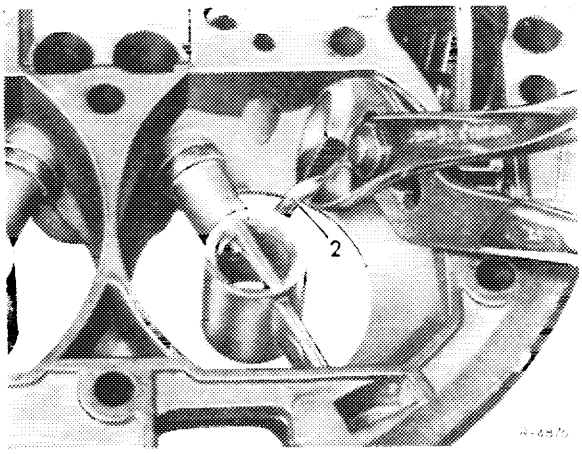



Fig. 07–3/16

2 Injection pipe

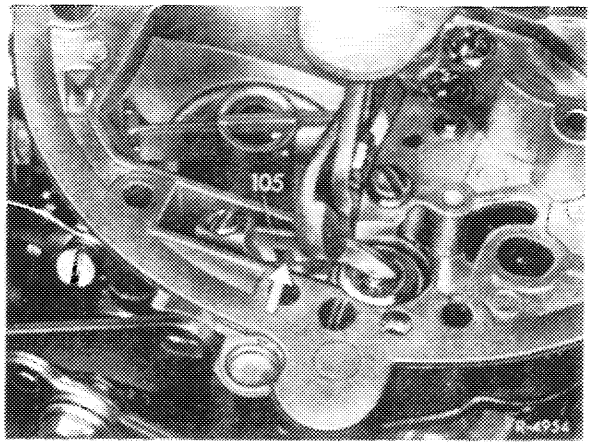



Fig. 07–3/20

105 Pump lever

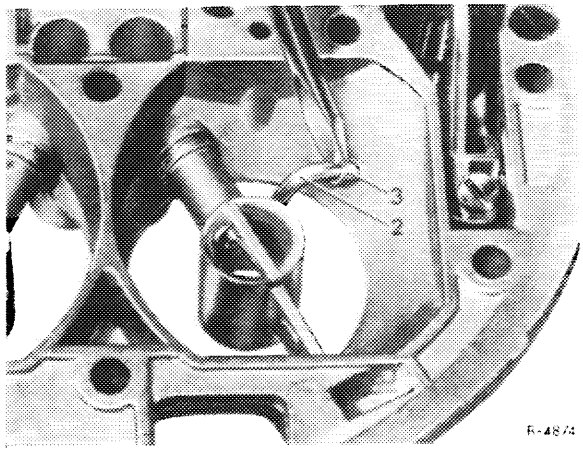



Fig. 07–3/17

2 Injection pipe
3 Brass sleeve

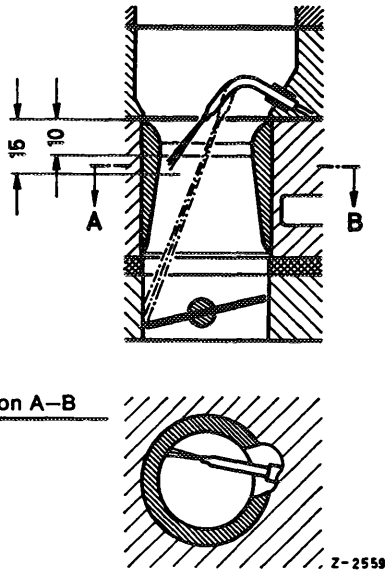
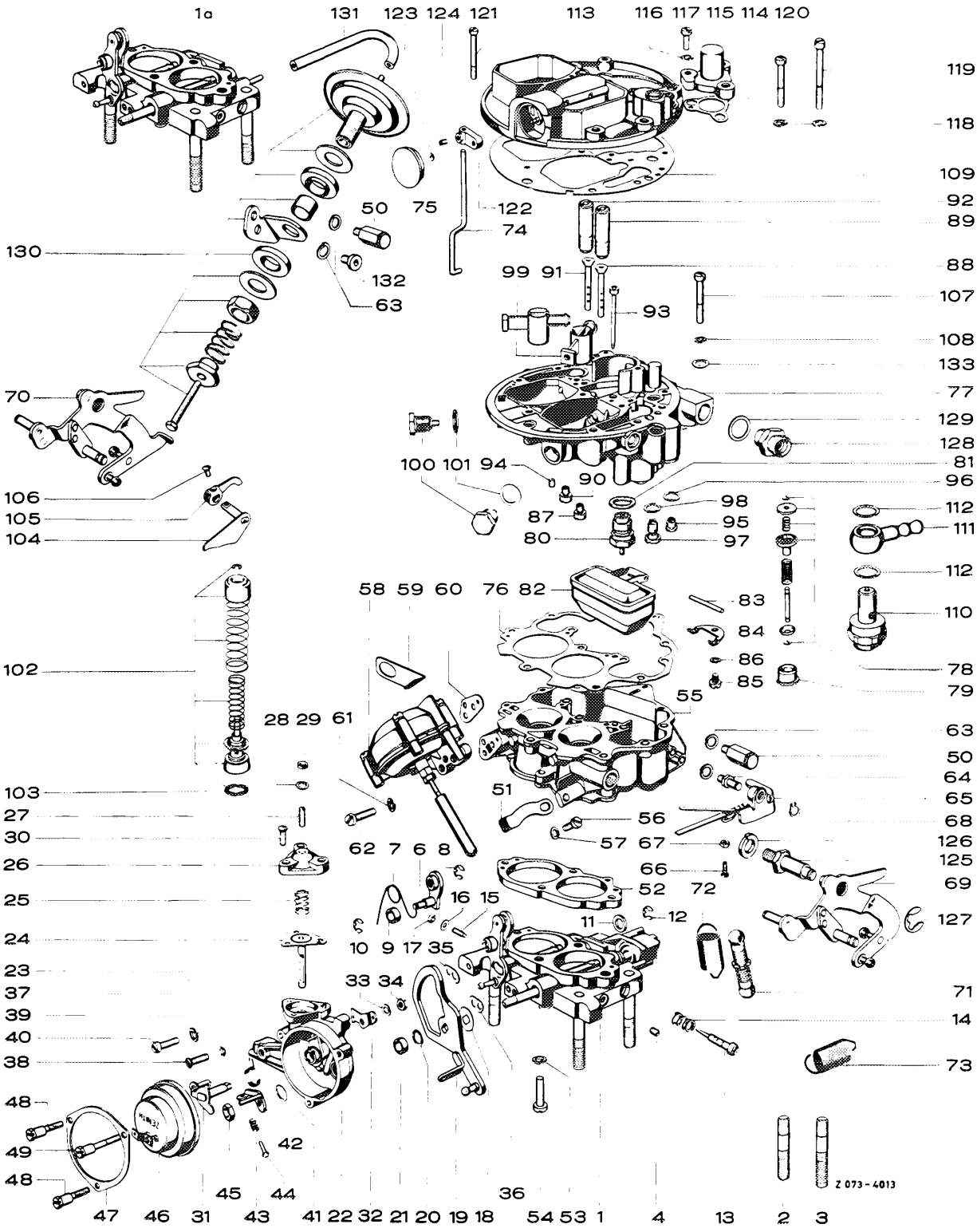



Fig. 07–3/21

**Note:** For vehicles with manual transmission the fuel jet may spray directly into the throttle valve gap for immediate (harder) acceleration (Fig. 07–3/21).

**20** Place new carburetor cover seal on jet body and also make sure that the seal does not cover any bores of the ducts. Mount carburetor cover.

1 Throttle valve section manual transmission
1a Throttle valve section automatic transmission
2 Set screw
3 Set screw
4 Grub screw
6 Articulated lever
7 Restoring spring
8 Lock washer
9 Roller
10 Lock washer
11 Washer
12 Lock washer
13 Idling speed mixture regulating screw
14 Compression spring
15 Adjusting screw
16 Spring washer
17 Hex. nut
18 Washer
19 Throttle lever compl.
20 Lock washer
21 Spacer bushing
22 Starter body
23 Restoring spring
24 Diaphragm
25 Compression spring
26 Valve cover
27 Grub screw
28 Sealing ring
29 Hex. nut
30 Countersunk oval head screw
31 Driving lever
32 Transmission lever
33 Snap ring
34 Hex. nut
35 Seal
36 Seal
37 Toothed washer
38 Countersunk screw
39 Snap ring
40 Cheesehead screw
41 Lock washer
42 Stop lever
43 Compression spring
44 Stop screw
45 Hex. nut
46 Starter cover
47 Holding ring
48 Hex. screw
49 Hex. screw
50 Screw bolt
51 Link plate
52 Insulating flange
53 Snap ring
54 Cheesehead screw
55 Float housing
56 Cheesehead screw
57 Snap ring
58 Vacuum box
59 Cable holder
60 Seal
61 Snap ring
62 Cheesehead screw
63 Snap ring
64 Bearing pin
65 Actuating lever
66 Cheesehead screw
67 Hex. nut
68 Clamping ring
69 Actuating lever
70 Actuating lever
71 Connecting rod
72 Pull spring
73 Pull spring
74 Connecting rod
75 Closing cap
76 Seal
77 Bedplate
78 Venting valve
79 Bushing
80 Float needle valve
81 Sealing ring
82 Float
83 Float shaft
84 Holder
85 Cheesehead screw
86 Snap ring
87 Main jet (Stage I)
88 Mixing tube (Stage I)
89 Air correction jet (Stage I)
90 Main jet (Stage II)
91 Mixing tube (Stage II)
92 Air correction jet (Stage II)
93 Idling speed jet complete (Stage I)
94 Transition jet (Stage II)
95 Pump suction valve
96 Sealing ring
97 Pump pressure valve
98 Sealing ring
99 Preatomizer
100 Pressure screw
101 Sealing ring
102 Pump piston
103 Annular spring
104 Pump lever
105 Pump lever
106 Countersunk oval head screw
107 Cheesehead screw
108 Snap ring
109 Seal
110 Fuel return valve
111 Hose coupling
112 Sealing ring
113 Carburetor cover
114 Seal
115 Cover
116 Snap ring
117 Cheesehead screw
118 Snap ring
119 Cheesehead screw
120 Cheesehead screw
121 Cheesehead screw
122 Articulated member
123 Lock washer
124 Stud
125 Bearing pin
126 Snap ring
127 Lock washer
128 Screw connection
129 Sealing ring
130 Vacuum regulator
131 Rubber hose
132 Cheesehead screw
133 Snap ring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