#### 07.2-190 Cleaning, adjusting carburetor

### Testing and adjusting values

Float needle valve	2.25
Sealing ring for float needle valve	1.5 mm
Float level (ball pushed in)	16–17 mm

## Oil type/filling capacity

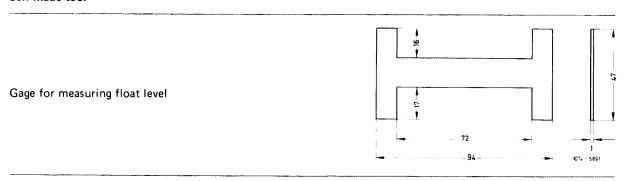
### Model 115

Oil for air piston dashpot	Viscosity SAE	Engine oil <sup>1</sup> ) <sup>2</sup> ) specified for season
	Filling capacity	approx. 60 cc

### Model 123

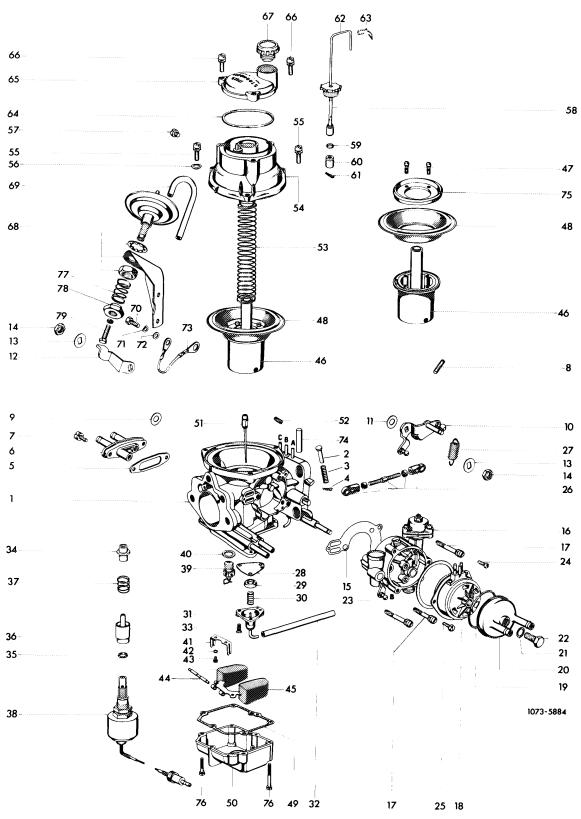
Carburetor version		With <b>red</b> plug in closing cover	With <b>yellow</b> plug in closing cover
Oil for air piston dashpot	Viscosity SAE	Summer operation engine oil <sup>1</sup> ) Winter operation ATF <sup>3</sup> )	Throughout the year ATF <sup>3</sup> )
	Filling capacity	approx. 60 cc <sup>3</sup> )	

### Self-made tool



Refer to specifications for service products sheet 224 page 1.
 During extended, cold periods below -20 °C ATF (refer to specifications for service products sheet 236.2 and 236.4).
 Refer to specifications for service products sheet 236.2 and 236.4.

# A. Stromberg carburetor 175 CDT in model 115



Vacuum connection for vacuum governor, on USA version for switchover valve:

a Ignition switchover b Throttle valve lift

Vacuum connection

for ignition adjustment in direction of advance (for USA version closed, if installed)

C Vacuum connection

for EGR (USA version only)

Carburetor housing

3 Compression spring

4 Locking spring

Gasket

Coolant connection cover

Fillister head screw

8 Idle speed adjusting screw

Spring washer

10 Throttle valve lever (regulation)

11

Spring washer
Throttle valve lever (rpm increase) 12

Lockwasher 13

Hex. nut

15 Gasket for choke housing

16 Choke housing

Fillister head screw 17

18 Choke cover 19 Rubber gasket

20 21 22 Coolant connection cover Aluminum sealing ring

Hex. head screw Insulating gasket Hex. head screw

Hex. head screw Choke connecting rod (complete) 57

Draw spring
Diaphragm for fuel return valve

23 24 25 26 27 28 29 30 31 32 Spring retainer Compression spring Valve cover

Vacuum hose 33 Countersunk screw 34

Guide bushing for fuel nozzle (pressed in)

35 36

Rubber sealing ring 67
Temperature-controlled compen- 68 sating element with fuel nozzle

37 Compression spring 38 Idle speed shutoff valve

39 40 Float needle valve Sealing ring Holder for float shaft

41 42

Snap ring Fillister head screw 43

44 Float shaft 45 Float 46

Air piston Fillister head screw 47 48

Air piston diaphragm Gasket for float chamber

Float chamber

Nozzle needle 51 52 Stud for fastening nozzle needle

53 Compression spring Carburetor cover 55 Fillister head screw

Washer 56

Cylinder head screw Dashpot for air piston

59 Washer

Dashpot piston Locking spring Capillary tube Spring clamp 61 62 63 64 Rubber sealing ring

Closing cover 66 Fillister head screw

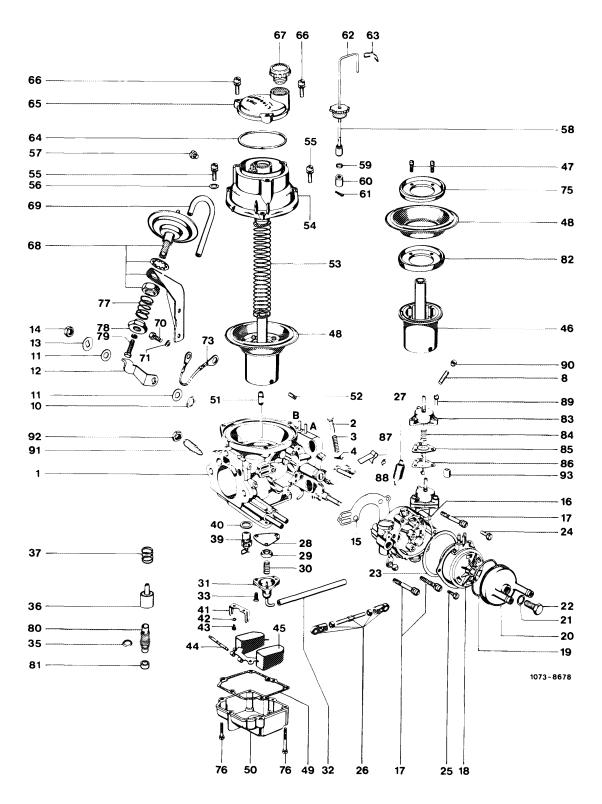
Closing plug Vacuum control unit with fastening

elements Vacuum hose 70 Hex. head screw Snap ring Washer 71

72 Grounding cable
Rubber closing cap 73 75

Holding disk Fillister head screw Compression spring 78 Adjusting nut Pressure screw

# B. Stromberg carburetor 175 CDTU in model 123



Vacuum connection for preheating of intake air (blue colored ring)

В Vacuum connection for ignition timing in direction of advance (red colored ring)

Carburetor housing

Tickler

Compression spring

3

Locking spring Idle speed adjusting screw

Sealing ring

Spring washer Throttle valve lever (rpm increase) 12

Lock washer 13

14

Hex. nut Gasket for choke housing 15

Choke housing 16

Fillister head screw 18 Choke cover

19 20 Rubber gasket

Coolant connection cover 21 Aluminum sealing ring Hex. head screw

22 23 24 Insulating gasket Hex. head screw Hex. head screw 25

26 Choke connecting rod (complete)

Draw spring
Diaphragm for fuel return valve 28

29 Spring retainer Compression spring

Valve cover 31 32 33 Vacuum hose Countersunk screw Rubber sealing ring

Temperature-controlled compen-

sating element with fuel nozzle 37 Compression spring Float needle valve 39

Sealing ring Holder for float shaft 40 41 42 Snap ring

43 Fillister head screw

44 45 Float shaft Float Air piston 46

47 Fillister head screw 48 Air piston diaphragm 49 Gasket for float chamber

50 Float chamber

51 52 Nozzle needle Stud for fastening nozzle

needle

53 Compression spring 54 55 56 57 Carburetor cover Fillister head screw Washer Fillister head screw

Dashpot for air piston

59 Washer Dashpot piston 60 61 Locking spring Capillary tube

Spring clamp 63 Rubber sealing ring Closing cover 64 65 Fillister head screw 66

Closing plug

68 Vacuum control unit with fastening elements

69 Vacuum hose Hex. head screw 70 71 Snap ring 73 75 Grounding cable Holding disk 76 77 78 Fillister head screw Compression spring Adjusting nut Compression screw

80 Fuel adjusting screw 81 Protective cap 82 Supporting ring Pulldown cover 83 84 85

Compression spring Pulldown diaphragm with rod

86 Gasket 87 Drag lever Fuse Fillister head screw 88 89

90

Fuse cap Circulating air adjusting screw

Counternut 93 Dust sleeve

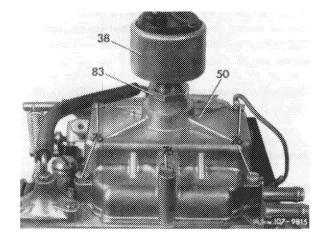
### Cleaning

- 1 Remove carburetor (07.2-194).
- 2 Clean carburetor well externally.

3 Remove float chamber.

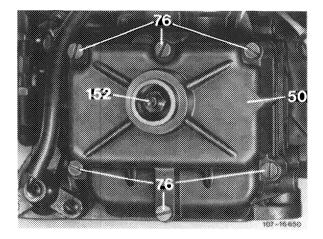
For this purpose, on model 115, loosen hex. nut (83) and unscrew idle speed shutoff valve (38).

Unscrew fillister head screws (76) and remove float chamber (50).

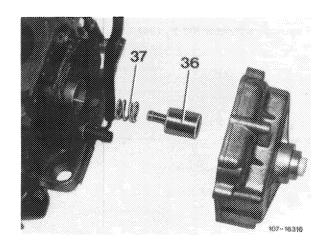


For this purpose, on **model 123**, unscrew fuel adjusting screw (152).

Unscrew fillister head screws (76) and remove float chamber (50).



- 4 Remove temperature-controlled compensating element with fuel jet (36) and compression spring (37).
- 5 Clean float chamber and temperature-controlled compensating element with fuel jet.

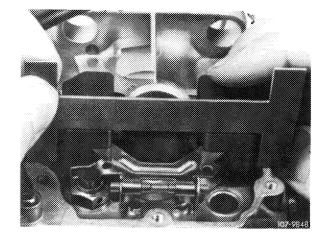


#### Adjustment

6 Measure float level and adjust, if required.

Carefully push float down until spring-loaded ball of float needle valve (39) is completely pushed in.

Check float level with measuring gage or slide gage at highest points of float.



If a correction of float level is required, check first whether sealing ring (173) under float needle valve (39) has the specified thickness of 1.5 mm. Renew sealing ring, if required.

Then correct float level with float removed by bending lug (arrow).

### Bending device

Bending toward float needle valve = increasing float level

Bending away from float needle valve = reducing float level

### Attention!

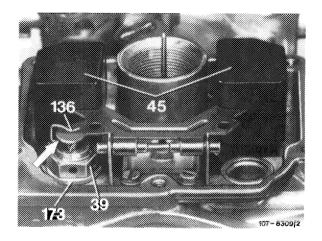
When bending lug, make sure that lug pushes vertically on float needle. The two solid floats should be horizontally in relation to measuring gage. Re-align, if required.

7 Attach float chamber in vice versa sequence of item 3 and 4.

#### Attention!

During assembly, renew gasket float chamber. Check rubber sealing ring in temperature-controlled compensating element and for idle speed shutoff valve (model 115) as well as in fuel adjusting screw (model 123), renew if required.

8 Install carburetor (07.2-194).



9 Check dashpot oil level in supply tank and correct, if required.

For this purpose, unscrew closing plug. The dashpot oil should reach up to lower threaded edge (arrow) of filler hole.

10 Adjust idle speed (07.2–100), adjust choke (07.2–125).

