

0.190 Twin-choke carburettors on 1600 TI, 1800 TI, 2000 TI, 2000 CS

Special tool:

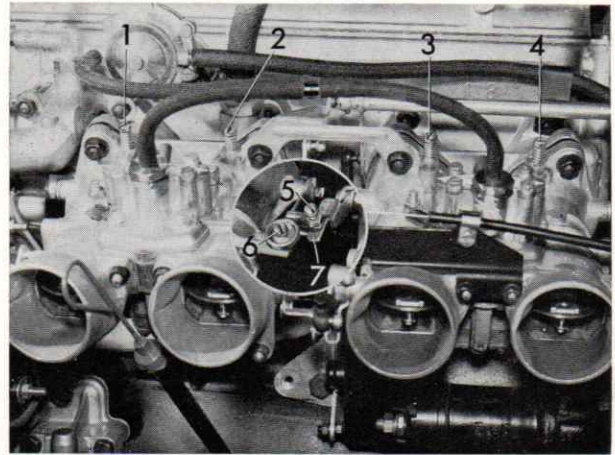
Level-measuring instrument BMW 6023, Synchrotester

a) Basic setting with engine stationary:

1. Detach the air filter housing from the wheel box (10 mm spanner).
2. Pull off the breather hose and lay it in the direction of the distributor.
3. Carefully tighten the idling mixture regulating screws (1-4) until they are fully home and then release by one half turn.
4. Loosen synchronising screw (5) and unscrew until no longer bearing upon the throttle lever (7).
5. Unscrew the idling stop screw (6) as far as it will go.
6. Screw in the synchronising screw (5) until it just comes into contact with throttle lever (7).
7. Screw in the idling stop screw (6) until the throttle flap lever is just contacted.
8. Give the idling stop screw (6) an additional two turns inward.

Fig. 141

141



b) Adjustment with engine running – synchronising

Warning: Correct ignition timing and valve adjustment are essential.

1. Start engine and adjust to run at about 1200 rpm.

Warning: All four carburettors must be adjusted to equal volume of air passage with the aid of the synchrotester; i. e. the reading on the lower mark of the riser tube sleeve must coincide on all four carburettor chokes.

2. Adjust the carburettor (2) of the second cylinder to coincide with the carburettor (3) of the third cylinder by means of the synchronising screw (5).

142

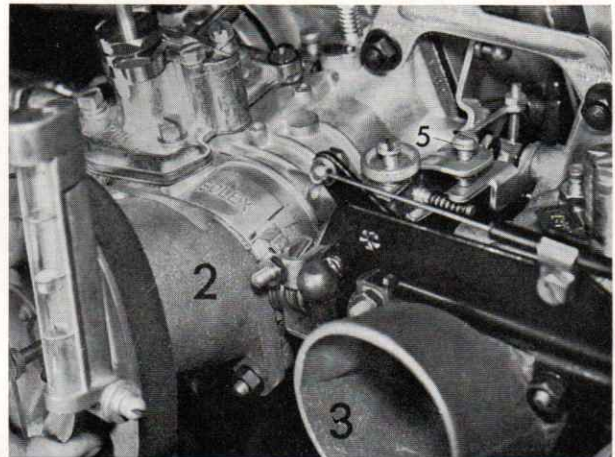
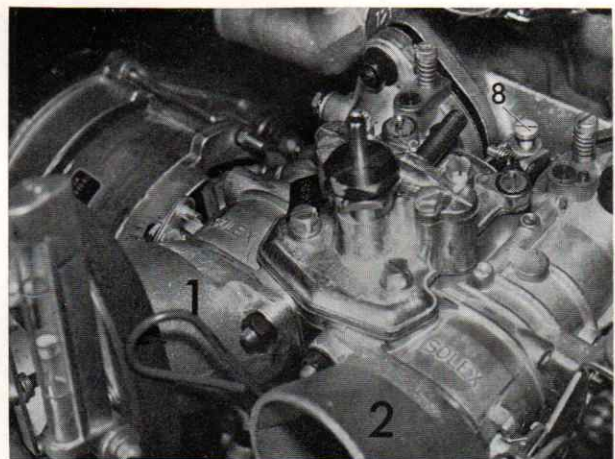


Fig. 142

3. Adjust carburettor (1) of the first cylinder to coincide with carburettor (2) of the second cylinder by means of adjusting screw (8).

Fig. 143

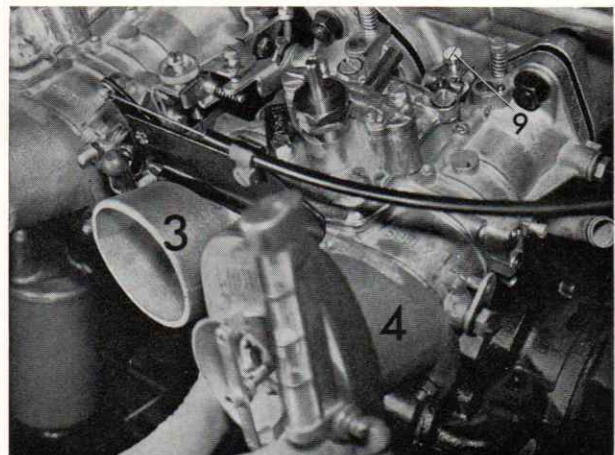
143



4. Adjust carburettor (4) of the fourth cylinder to coincide with carburettor (3) of the third cylinder by means of adjusting screw (9).

Fig. 144

144



5. Warm up the engine to normal operating temperature.
6. Adjust the engine to a speed of 1200 rpm with the idling adjustment screw (2).
7. Adjust the idling mixture by turning the regulating screw in or out.

Warning: The idling mixture has been correctly regulated when the engine reaches maximum idling speed.

8. Set engine idling to 800 ± 100 rpm.
9. Reset the idling mixture.