

dd) Continuous Run Test

The distributor should be subjected to a continuous run test under working conditions. The test should be of a quarter of an hour's duration and should be made at a rated voltage at the ignition coil of 12 V, a spark distance of 7 mm and a speed (distributor speed) of $n = 500$ r.p.m.

ee) Maximum Speed Test

The distributor should be checked with the maximum speed (distributor speed) of $n = 3000$ r.p.m. and with a spark distance of 7 mm. There must be no misfiring.

Suppressed distributors should be checked in the same way as **unsuppressed** distributors, that is to say, without suppressors.

If, when this test is made, misfiring occurs, this may be due to any of the following defects:

Dirty contact breaker points or contact gap too large,

Contact pressure too weak,

Battery voltage too low,

Electrodes of flash-over distributor badly burnt away,

Defective condenser or bad condenser connection (excessive arcing),

Ignition coil defective.

ff) Starting Output Test

At a speed of $n = 100$ r.p.m. (distributor speed), a battery voltage of 8 Volts and with a spark distance of 9 mm, the ignition spark must jump over to the spark drawer without misfiring for a test period of a half-a-minute. It is absolutely necessary for the contacts and the spark drawers to be in perfect condition when this test is made.

C. Removal and Installation of Contact Breaker Points

Removal:

1. Remove the distributor cap.
2. Take off the rotor arm.
3. Slacken the terminal nut (1) of terminal 1, slacken the lock nut and pull out the cable (2) to the contact breaker lever (Fig. 15—23/3).
4. Remove the lockwire (5) at the pivot pin for the contact breaker lever and also the washer (4).
5. Unscrew the fixing screw (3) for the contact holder.
6. Unscrew the cheese-head screw (8), paying attention to the lock washer.

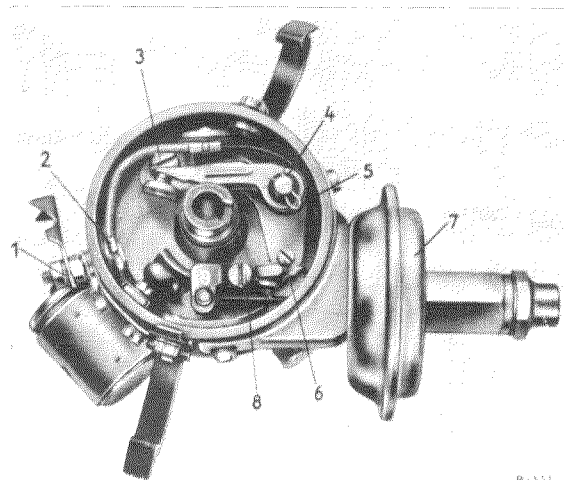


Fig. 15 — 23/3

1 Hexagon nut
2 Connecting cable
3 Fixing screw
4 Washer
5 Lockwire

6 Eccentric bolt
7 Automatic vacuum control
8 Cheese-head screw
9 Angle bracket with bolt

7. Push the angle bracket (9) with bolt to one side and take out the contact lever with the contact holder. Pay attention to the eccentric bolt (6) in the contact holder.

Installation:

8. When installing the contact holder carrier, make sure to put in the eccentric bolt (6) correctly.

9. Screw in the cheese-head screw (8), taking care not to forget the ground cable from the automatic vacuum control and the lock washer.

10. The remainder of the installation procedure is the reverse of the removal procedure.

11. Adjust the contact gap to 0.4 — 0.5 mm. (For further details see Job No. 01 — 3, Section D.)

D. Removal and Installation of Automatic Vacuum Control

Removal:

1. Remove the distributor cap.
2. Unscrew the cheese-head screw (8) (see Fig. 15 — 23/3), paying attention to the lock washer.
3. Take out the angle bracket (9) with bolt (see Fig. 15 — 23/3).
4. Remove the cheese-head screws for fixing the automatic vacuum control to the housing of the distributor, paying attention to the two lock washers, and then remove the automatic vacuum control.

Installation:

5. Installation is the reverse of the removal procedure.

Note: When screwing in the cheese-head screw (8), do not forget the ground cable from the automatic vacuum control and the lock washer (see Fig. 15 — 23/3).

E. Removal and Installation of Distributor Coupling

Removal:

1. Fix the distributor by the distributor collar in a vise (use aluminum jaws).
2. Knock out the dowel pin of the coupling with a suitable drift.
3. Take the coupling off the shaft, paying attention to the fiber washer and the compensating washer.
4. Take the snap ring off the lower part of the coupling with a screwdriver. The coupling can now be taken apart.

Installation:

5. Installation is the reverse of the removal

procedure. Attention should be paid to the following points:

- a) Compensating washers, which are placed between the coupling and the distributor collar in order to maintain the permissible end play of 0.1 — 0.2 mm of the distributor drive shaft, are available in two thicknesses:

Part. No. 000 158 00 52 0.1 mm thick

Part. No. 000 158 04 52 0.2 mm thick

The measurement is taken with the dowel pin pressed in.

- b) Make sure that the fiber washer is on the distributor collar side and that the compensating washers (steel washers) are on the coupling side.