

1. VERNIER SCALE
2. VERNIER ADJUSTMENT
3. DISTRIBUTOR CLAMP BOLT

Fig. 14. Distributor clamp bolt and vernier adjustment

This will ensure that the correct ignition timing is obtained each time the contact breaker points are cleaned and correctly adjusted.

As the contact breaker point gap decreases through gradual wear of the moving point heel, the ignition timing becomes retarded. .004 in. (10 mm) reduction of contact breaker point gap retards the ignition by approximately 2° of crankshaft movement. This is equal to half a division on the vernier control, which is enough to reduce engine performance noticeably.

Static ignition settings and contact breaker gaps are given in the Data Section under "Ignition System".

To check ignition timing

Fig. 15 shows the fixed T.D.C. pointer above the crankshaft pulley and the T.D.C. groove on the crankshaft pulley opposite to each other.

Rotate the engine in its running direction until the groove on the crankshaft pulley is the required distance before the fixed pointer above the pulley.

This distance which is given in the Data Section under "Ignition", corresponds to the number of degrees advance before T.D.C.

Set the vernier control to the midway position (2 divisions showing on scale).

Remove the distributor cap and connect a 12v. bulb between the L.T. terminal of the distributor and a good

earth. With the battery connected and the ignition switched on, this bulb will light when the contact breaker points open.

Switch on the ignition.

Slacken the distributor clamp screw. If the bulb is alight rotate the body of the distributor anti-clockwise until the bulb goes out.

Apply light finger pressure to the rotor in a clockwise direction, turn the distributor body clockwise until the bulb just lights.

Tighten the distributor clamp screw.

Check the setting by turning the crankshaft two revolutions clockwise until the bulb again lights, observing the relative position of the pointer and groove in crankshaft pulley.

The groove on the crankshaft pulley must be the required distance before the fixed pointer. This distance is given in the Data Section under "Ignition". Switch off ignition, remove bulb, and refit all parts.

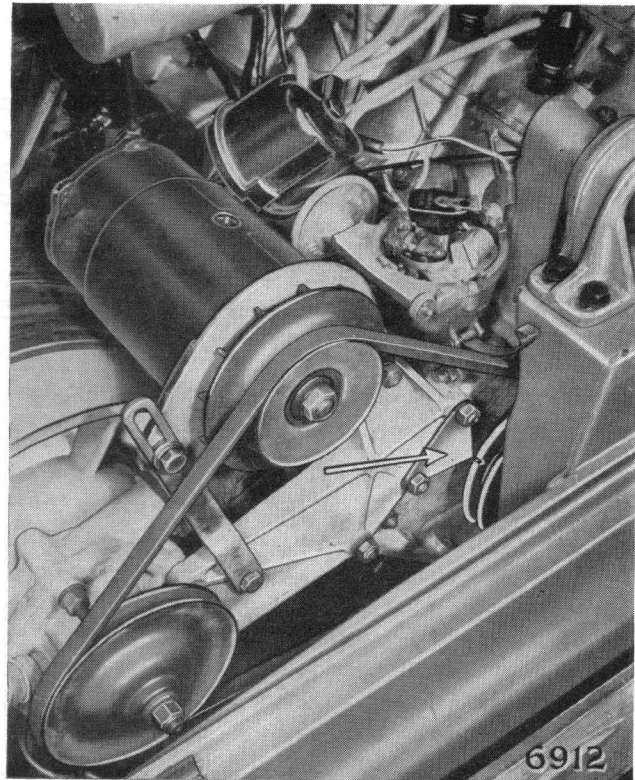


Fig. 15. Engine top dead centre pointer and crankshaft pulley marking—see arrow