

LUCAS WORKSHOP INSTRUCTIONS

MAGNETO MODEL RF4

REVISED TIMING INSTRUCTIONS

Superseding para. (j) (i), (ii) and (iii), page 7

(i) MODELS NOT FITTED WITH AN IMPULSE STARTER

Magnetic Timing

Remove the distributor cover, contact breaker housing, rotor moulding, cam fixing screw and cam.

Turn the magnet rotor so that the trailing edges of the pole tips are approximately 5° in advance of the stator pole tips. Take care not to alter this setting.

Refit the contact breaker housing, and set the contact breaker base plate in the position giving maximum advance. Whilst taking care not to turn the magnet rotor, place the contact breaker cam on the tapered end of the shaft and turn the cam in the normal direction of rotation until the contacts are just beginning to separate. Lock the cam in this position by refitting the cam fixing screw. This screw must be really tight.

Distributor Timing

Turn the rotor until the contact breaker contacts are just beginning to separate. Take care not to alter this setting during the following procedure.

Remove the contact breaker housing, and with the aid of a distributor cover from which the centre portion has been cut away, engage the rotor moulding with the distributor driving gear so that the leading edge of the rotor electrode is between one-third and two-thirds across fixed electrode No. 1. Refit the contact breaker housing.

After a magneto has been timed for No. 1 cylinder during manufacture, a distinctive mark is made on the support plate and a corresponding mark made on the rotor moulding. Replacement mouldings should likewise be marked after timing.

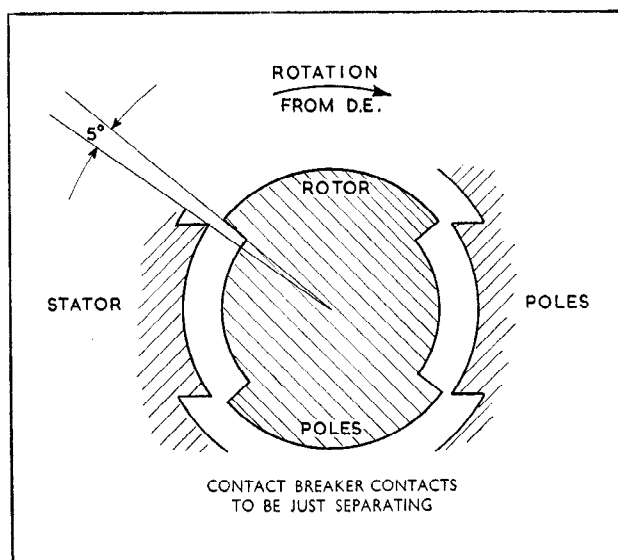


Fig. 1

Position of rotor for correct magnetic timing

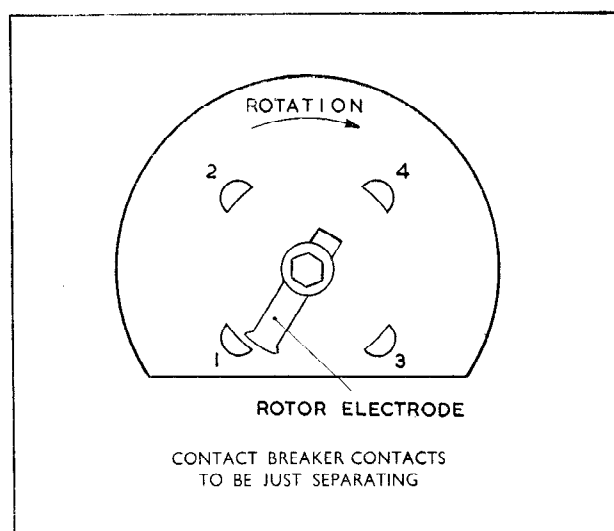


Fig. 2

Position of rotor electrode for correct distributor timing

Continued Overleaf



LUCAS WORKSHOP INSTRUCTIONS

(ii) MODELS FITTED WITH AN IMPULSE STARTER

In order to ensure a correct relationship between the impulse starter and the advanced sparking point of No. 1 cylinder, timing (magnetic and distributor) is carried out with respect to the impulse starter driving dogs and not, as is usual, with respect to the pole tips.

The recommended procedure is as follows:

Set the contact breaker base plate in the position giving maximum advance. Remove the distributor cover, contact breaker housing, rotor moulding, cam fixing screw and cam.

Turn the impulse starter in the normal direction of rotation until the driving dogs are horizontal, and then turn it backwards for 30° .

With the aid of a distributor cover from which the centre has been removed, engage the rotor moulding with the distributor driving gear so that the leading edge of the rotor electrode is between one-third and two-thirds across fixed electrode No. 1. Refit the contact breaker housing.

Whilst taking care not to turn the rotor, place the contact breaker cam on the tapered end of the shaft and turn the cam in the normal direction of rotation until the contacts are just beginning to separate. Secure the cam in this position by refitting the cam fixing screw. This screw must be really tight.

After a magneto has been timed for No. 1 cylinder during manufacture, a distinctive mark is made on the support plate and a corresponding mark made on the rotor moulding. Replacement mouldings should likewise be marked after timing.

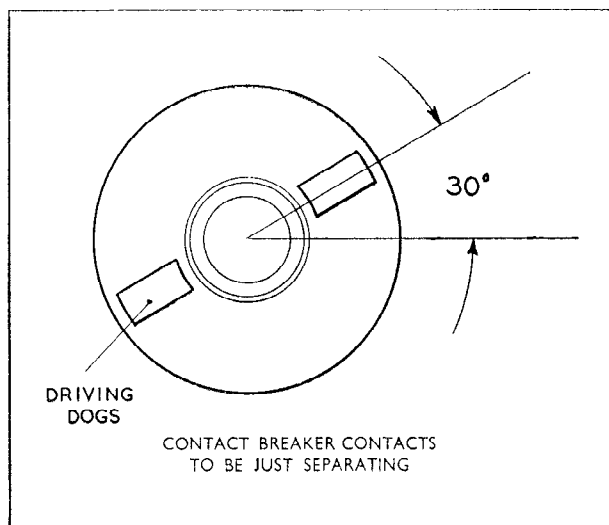


Fig. 3

Position of impulse starter driving dogs for correct timing

