

CUT-OUT RELAY

Electrical Settings

Cut-in Voltage:—	12.6—13.4
Drop-off Voltage:—	9.3—11.2

Method of cut-in adjustment (See Fig. 12)

Checking and adjusting should be completed as rapidly as possible to avoid errors due to heating of the operating coil.

1. Connect a first-grade 0 to 20 moving-coil voltmeter between control box terminal "D" and a good earthing point.

A convenient method of making this connection is to withdraw the ignition warning light feed from control box terminal "WL" and to clip the voltmeter lead of appropriate polarity to the small terminal blade thus exposed—this terminal being electrically common with terminal "D".

2. Start the engine and slowly increase its speed.
3. Observe the voltmeter pointer.

The voltage should rise steadily and then drop slightly at the instant of contact closure. The cut-in voltage is that which is indicated immediately before the pointer drops back and should occur between the limits given under the heading of Electrical Settings.

If the cut-in occurs outside those limits, an adjustment must be made.

In this event reduce engine speed to below cut-in value and continue as follows:—

4. Remove the control box cover.
5. Using the correct tool, turn the cut-out relay adjustment cam a small amount in the appropriate direction, turning the tool clockwise to raise the setting or anti-clockwise to lower it.
6. Repeat the above checking procedure until the correct setting is obtained.
7. Switch off the engine, restore the original connections and refit the cover.

Method of drop-off adjustment

1. Withdraw the cables from control box terminal blades "B".

If the ignition switch is fed from terminal "B" it will be necessary to join the ignition and battery feeds together with a suitable "jumper lead", to enable the engine to be started.

2. Connect a first-grade 0 to 20 moving coil voltmeter between control box terminal "B" and earth.
3. Start the engine and run up to approximately 3000 r.p.m.
4. Slowly decelerate and observe the voltmeter pointer. Opening of the contacts, indicated by the voltmeter pointer dropping to zero, should occur between the limits given under the heading of Electrical Settings. If the drop-off occurs outside these limits, an adjustment must be made. In this event, continue as follows:—
5. Stop the engine and remove the control box cover.
6. Adjust the drop-off voltage by carefully bending the fixed contact bracket. Reducing the contact gap will raise the drop-off voltage; increasing the gap will lower the drop-off voltage.

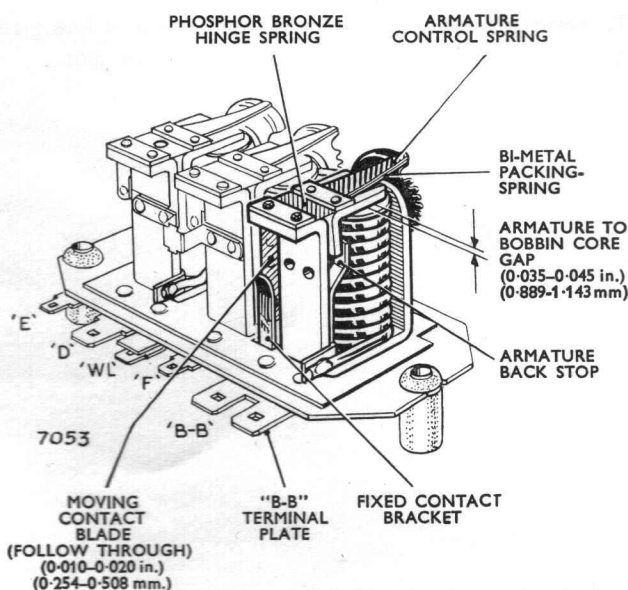


Fig. 13. Air gap (or mechanical settings) of cut-out relay