

SOLENOID MODEL 15S

1. DESCRIPTION

Solenoid model 15S has been developed for general fitment to M418 and M45 machines.

Electrically, model 15S is identical to model 14S (described in Part C, Section 2 of this Manual) except that it is fitted with one pair of contacts only.

2. SERVICING

(a) Current Check of Solenoid Windings

This is carried out exactly as described for model 14S (see page 7 in Part C, Section 2) except that, when checking the closing winding, the 4-volt supply must be connected between terminal 'STA' and the 'Lucar' terminal.

(b) Contact Replacement

If, as an alternative to replacing the solenoid completely, it is required to renew the contact assembly only, proceed as follows:

- (i) Withdraw the screws which secure the moulded base assembly to the solenoid body.
- (ii) Remove all nuts and washers from main terminal 'STA'.
- (iii) Unsolder the wires connected to the 'Lucar' terminal and withdraw the base moulding from the body leaving terminal bolt 'STA' attached to one end of the pull-in winding. In production this connexion is made by hot-pressing the wire to the terminal bolt, the wire being looped between the solenoid body and bolt. Using long-nosed pliers grip the exposed portion of the pull-in winding as close as possible to the junction with the bolt. Twist the bolt until the joint is broken. Silver-solder the replacement terminal bolt to the pull-in winding using 'Easi-flo No. 2' or an equivalent solder. (Use asbestos sheeting to protect the solenoid body if this is liable to be exposed to excessive heat).

Clean off any excessive flux deposit which may remain on the bolt after the joint is made.

Fig. 1 shows the solenoid, before and after replacement of the terminal bolt.

- (iv) Replace the second terminal bolt and moving contact assembly and re-assemble the base moulding to the solenoid body.

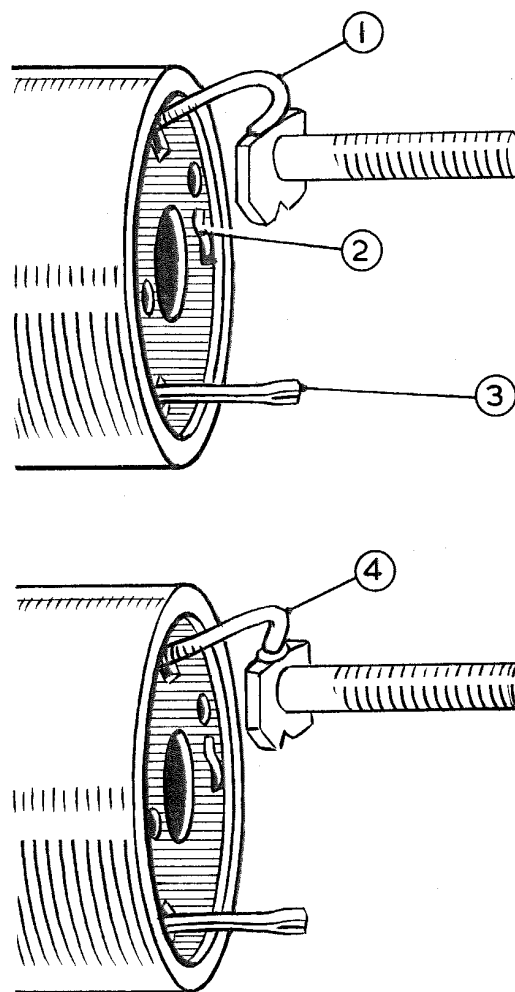


Fig. 1 Fixed contact replacement

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| 1 Existing contact welded to pull-in winding | 3 Wires normally soldered to 'Lucar' terminal |
| 2 Earthed end of hold-on winding | 4 Replacement contact silver-soldered to pull-in winding |