

# Instructions for Type L-60 Electrical Interlock for Size 5 Starters and Type GPA-5 Contactors



I.L. 15829-8

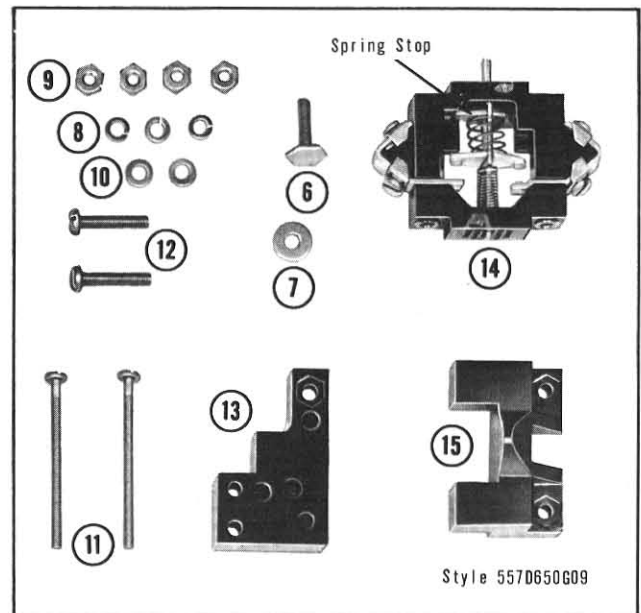
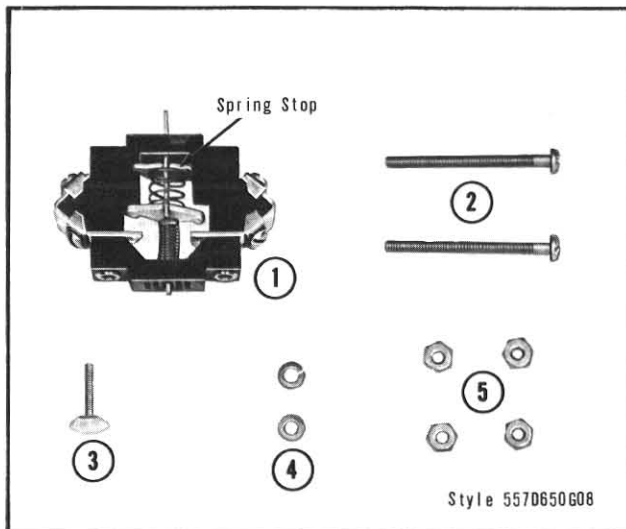


Figure 1 Component Parts of Type L-60, Electrical Interlock Kits.

1-Contact Unit 2-Screws 3-Conical Adjustment Screw 4-Washers 5-Nuts 6-Conical Adjusting Screw 7-Washer 8-Lock Washers 9-Nuts 10-Washers 11-Screws 12-Operating Arm Screws 13-Operating Arm 14-Contact Assembly 15-Molded Support

## Description

Westinghouse Type L-60 Electrical Interlock is an auxiliary contacting device applicable to the size 5 Linestarters and Type GPA-5 Contactors. The Interlock will carry and rupture non-inductive alternating currents of 5 amperes at 600 volts, or direct currents up to 1 ampere at a maximum of 50 volt-amperes.

The Type L-60 Interlock is available in two assemblies:

Style No. 557D650G08 - Interlock complete with all hardware for mounting in the left hand or right hand "inboard" position. This style should be ordered for the "first" or "second" interlock to be mounted on the contactor. (Figs. 1, 2 & 3)

Style No. 557D650G09 - Interlock complete with hardware, operating arm and support for installing in the left or right hand "out-board" position. Order this style for the "third" or "fourth" interlock to be mounted on the contactor. (Figs. 1, 2 & 3)

## Installation - INBOARD Interlocks ("First" and "Second")

Before installing the interlock, be sure that the parts are set to produce the desired contacting action. If conversion is necessary, follow instruction in Fig. 4. To convert a normally-closed interlock to a normally-open interlock, reverse the procedure in Fig. 4.

1. Install assembled contact unit (1) on the contactor base and secure it with screws

(2) and two nuts (5). See Figs. 1, 2. Arc box and moving cross bar of contactor may be temporarily removed to facilitate this operation by taking out the four screws (A). (Fig. 2).

2. Mount conical adjusting screw (3) on projecting arm of the contactor crossbar with one flat washer and one lock washer (4) and two nuts (5). Flat washer to bear against molded material.

3. If the interlock is a normally-open device, adjust conical screw (3) to produce 1/8 inch overtravel of the slide bar after the contacts meet. If the interlock is a

normally-closed device, adjust to produce 3/16 inch separation of the contacts. Lock the conical screw securely. Do not extend the conical screw for extra travel as it will interfere with the contact unit and cause the contactor to become noisy and will also prevent the magnet of the contactor from seating.

#### Installation - OUTBOARD Interlocks ("Third" and "Fourth")

1. Check contact action of interlock as outlined in Installation-Inboard Interlock (above).

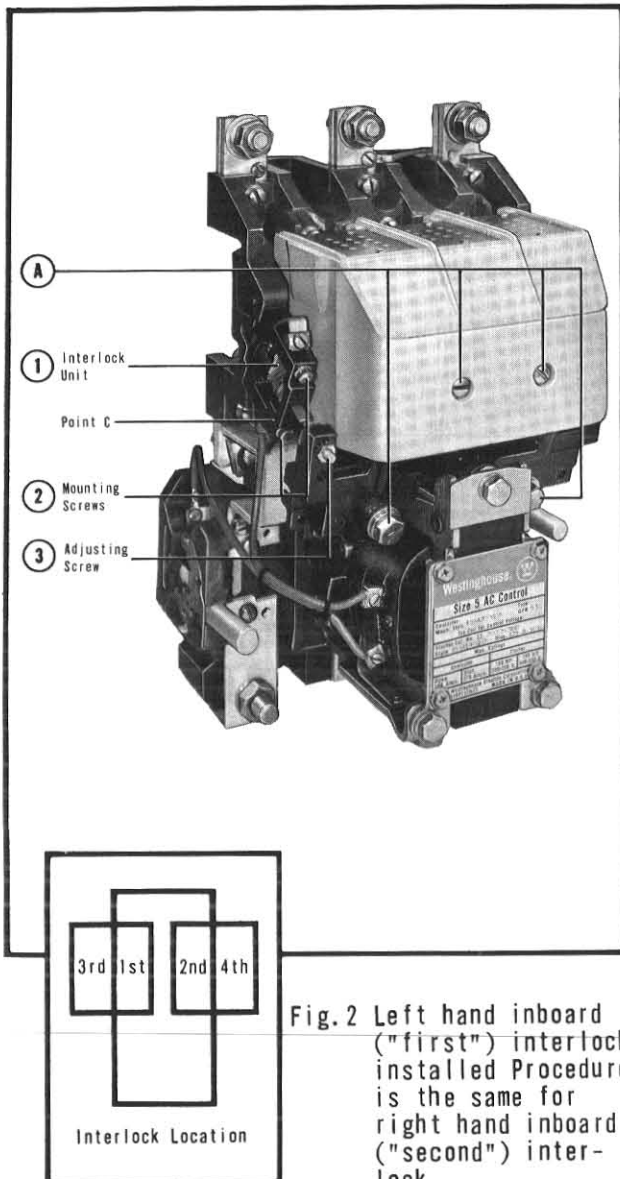


Fig. 2 Left hand inboard ("first") interlock installed. Procedure is the same for right hand inboard ("second") interlock.

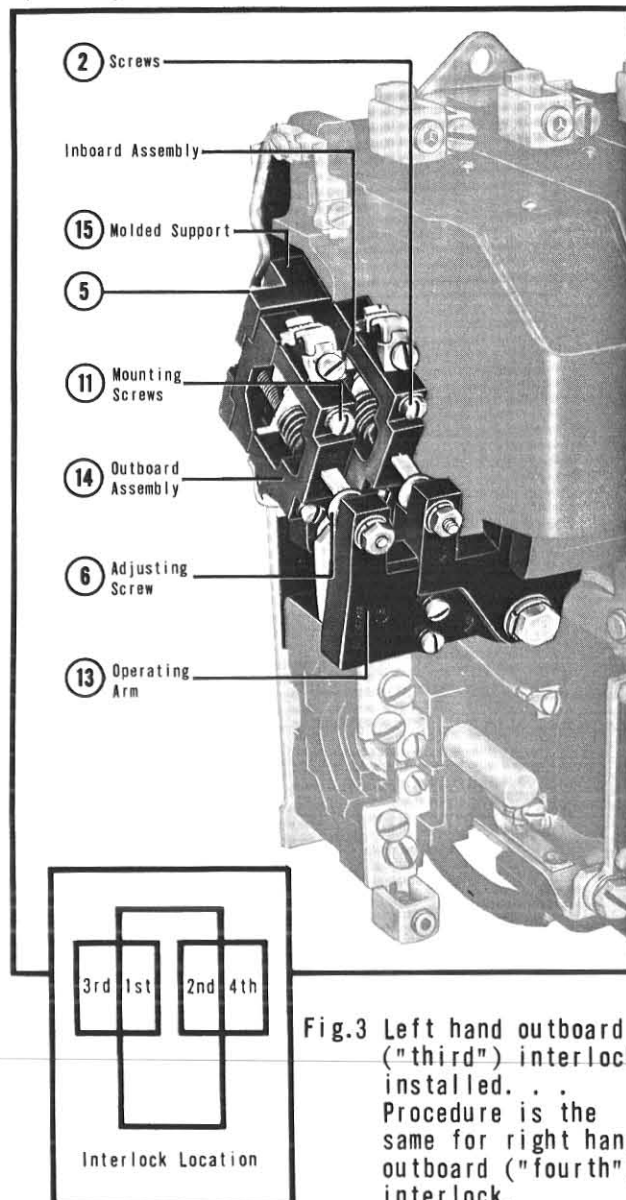


Fig. 3 Left hand outboard ("third") interlock installed. . . . Procedure is the same for right hand outboard ("fourth") interlock.

2. Remove nuts (5) from inboard interlock mounting screws (2) and in their place locate the molded support (15) and secure it and the inboard interlock by tightening screws (2). See Figs. 1 and 2. Save nuts (5) for later use.

3. Mount the outboard interlock contact assembly (14) on the support (15) and secure it by screws (11) and two nuts (5) previously removed from inboard interlock. See Fig. 3.

4. Fasten the operating arm (13) on the moving crossbar of the contactor with screws (12) and two nuts (9), two washers (8) and two washers (10). Make sure flat washer bears against molded surface of arm (13). Install the conical adjusting screw (6) with two nuts (9) and washer (7) and (8), with wide flat washer bearing against molded material.

5. Adjust the conical screw as outlined in step 3. Installation-Inboard Interlock (above).

### Conversion

Type L-60 Interlocks can easily be converted from a normally-open to a normally-closed device, or vice versa, without adding or removing any parts. See Fig. 4.

### Maintenance

Keep all moving parts free from dirt or hindrance to their movement.

The silver contacts will not need dressing throughout their normal life.

Replace entire interlock if parts become severely worn.

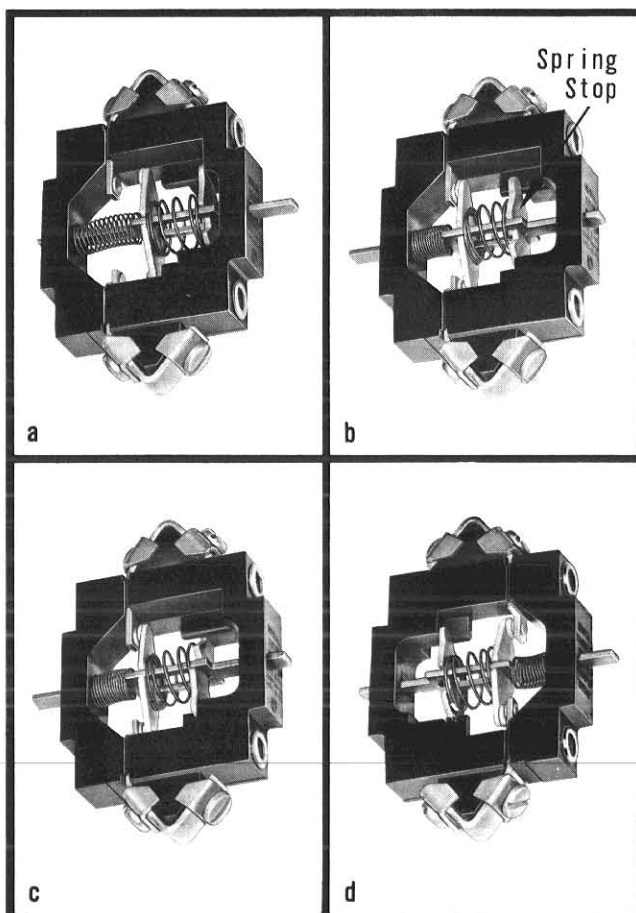


Fig. 4 Converting a Normally-Open Interlock to a Normally-Closed operation.

- a. Before conversion. Contacts are normally open. Note "Norm. Open" marking.
- b. Push spring stop forward past shoulders of molded interlock frame and rotate clockwise until spring stop clears molded shoulders.
- c. Release spring stop so that it is now on the opposite side of shoulders from original position.
- d. Turn interlock over so that "Norm. Closed" marking is as shown. Interlock is now ready for mounting as a normally-closed unit.

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