TYPE L-27 ELECTRICAL INTERLOCK

FOR ALTERNATING AND DIRECT CURRENT SINGLE BREAK ONLY

INSTRUCTIONS

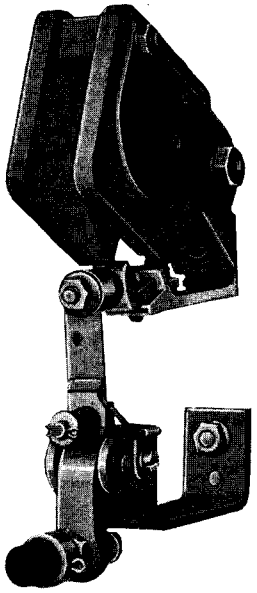

FIG. 1

Description

The Type L-27 electrical interlock is an auxiliary contacting device with blowout coil and arc shield. It is made up in the break interlock design only.

The interlock is used principally with the type CY-2 magnetic contactor which is used for synchronous motor panel, the interlock being mounted between the two upper poles of the contactor.

The moving contact member is provided with a graph-alloy tip, while the stationary contact is made from hard drawn copper.

Rating and Insulation:

The interlock is rated for 5 amperes continuous service and will successfully break 20 amperes on intermittent duty. It is insulated for 600 volts.

Operation:

The operation of the interlock is dependent upon the motion of some other moving member of the control unit, usually a contactor.

Contact Tips:

The stationary contact tip is a hard drawn copper section which is renewable. The moving contact tip is made of high graph-alloy mounted on a finger. The finger is held on a spring which gives flexibility and insures good contact pressure up to the maximum life of the tip. The moving tip is also renewable.

The interlock has been designed to operate with a slight wiping action on opening and closing. The wiping action insures a clean low resistance contact area.

Shunt:

The moving contact and its support is connected with a flexible braided copper cable which gives complete freedom to the moving contacts and has ample capacity to withstand the maximum current for which the interlock is rated.

Arc Shield:

The arc shield in moulded from a very durable heat resisting compound and is securely fastened to the iron pole pieces of the blow out coil. The pole pieces of the arc shield are hinged so that the complete arc shield may be easily raised by hand to make inspection and renewal of the stationary contact tips.

Maintenance

Bearing:

Do not use oil or other lubricant on the bearings. Oil collects dust and unless the parts are frequently cleaned, will cause the interlock to be sluggish on opening, thus causing excess arcing on the tips.

Contact Tips and Spring Pressure:

Use no oil or other lubricant on contacts. The contacts should give satisfactory results without much attention. The graph-alloy tips should be replaced when the maximum usefulness has been reached, in order that the spring pressure does not reach too low a value which results in excessive arcing and poor contact.

Contact Gap and Adjustments:

The operating lever is equipped with an insulated button. This lever can be adjusted to the apparatus to which it has been mounted to make it operate. The contact gap on the interlock should be set approximately $\frac{3}{16}$ to $\frac{1}{4}$" when it is in the open position.

In case the gap does not measure up to these dimensions, loosen up the lock nut on the stud of the operating lever and set to the minimum dimension when the tips are new. This will compensate for the wear on the graph-alloy tips and maintain a reasonable contact pressure after the gap has increased to the $\frac{1}{4}$" dimension.

Arc Shields:

The arc shields should always be down so that the arc is broken within the field of the blowout coil, otherwise the shield will not give satisfactory results.

Supersedes
RP-24050.6
Dated Aug., 1929

RENEWAL PARTS 24425*
INSTRUCTION LEAFLET 1744-A

EFFECTIVE DECEMBER, 1934 WESTINGHOUSE INDUSTRIAL MOTORS AND CONTROLLERS

TYPE L-27 ELECTRICAL INTERLOCK

FOR ALTERNATING AND DIRECT CURRENT SINGLE BREAK ONLY RENEWAL PARTS DATA

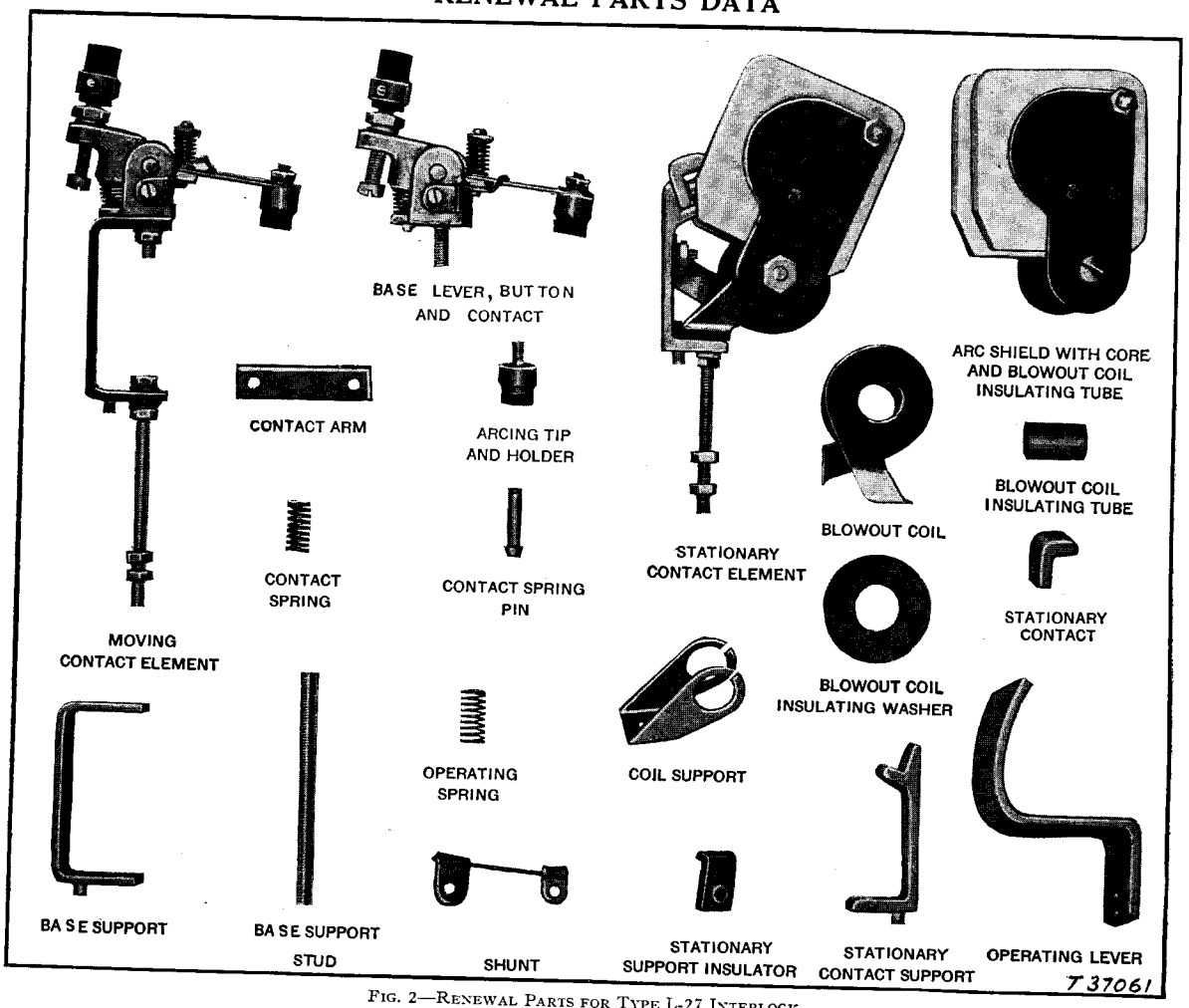

FIG. 2—RENEWAL PARTS FOR TYPE L-27 INTERLOCK

RECOMMENDED STOCK OF RENEWAL PARTS

Style Number of Interlock				490611
For Interlock in use up to and Including		1	5	
Name of Part	No. Per Interlock	Recommended for Stock		Style No. of Part
Moving Contact Element	1	0	0	490609
Base Lever Button and Contact	1	0	0	899292
Contact Arm	1	0	0	479947
Arcing Tip and Holder	1	1	2	705232
Contact Spring	1	0	1	420605
Contact Spring Pin	1	0	0	420604
Operating Spring	1	0	1	320781
Shunt	1	0	1	594931
†Hinge Pin	1	0	0	320777
Base Support	1	0	0	503492
Base Support Stud	1	0	0	386253
Stationary Contact Element	1	0	0	450325
Stationary Contact Support	1	0	0	432162
Stationary Support Insulator	1	0	1	450326
Stationary Contact	1	1	2	184665
†Contact Screw 190-32x½" Long Fil. Hd. B Mach. Screw	1	1	2	Std. Hdw.
Arc Shield	1	0	1	332357
Blowout Coil	1	0	0	505281
Blowout Coil Insulating Tube	1	0	0	272106
Blowout Coil Insulating Washer	2	0	0	332355
Coil Support	1	0	0	469250
**Operating Lever	1	0	0	**

Parts indented are incl uded in the part under which they are indented.
**Operating Lever is not part of interlock complete. When ordering specify Type of Contactor, Operating Lever is to be used on.
†Not listed on Illustration.

ORDERING INSTRUCTIONS

Name the part and give its style number. Give the complete name plate reading. State whether shipment is desired by express, freight or by parcel post. Send all orders or correspondence to nearest sales office of the company. Small orders should be combined so as to amount to a value of at least $1.00 net. Where the total of the sale is less than this, the material will be invoiced at $1.00.

WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY
East Pittsburgh Works
Printed in U.S.A.
East Pittsburgh, Pa.

*To be filed as Renewal Parts Data and as an Instruction Leaflet; for Instructions, see reverse side of this sheet.