

## CONTROL RELAYS

### KS-15528 AND KS-15756

### REPLACEMENT PARTS AND PROCEDURES

#### 1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of the KS-15528 and KS-15756 Allied Control Company, Incorporated, control relays. It also covers approved procedures for replacing these parts.

1.02 Part 2 of this section covers the various parts which it is practicable to replace in the field in the maintenance of these relays. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Replacement Parts.

1.03 Part 3 of this section covers the approved procedures for the replacement of the parts covered in Part 2. This information is called Replacement Procedures.

#### 2. REPLACEMENT PARTS

2.01 The figures included in this part show the various replacement parts in their proper relation to other parts of the apparatus.

2.02 When ordering parts for replacement purposes, give the name of the part and the number as shown in the figures of this section, and also the nameplate data of the relay for which the part is ordered including the manufacturer's name, the rating in volts and amperes and the KS specification and list number. For example: One armature PO-5-1 for the 26-28 volts, 0.140 amperes, control relay KS-15756, List 1. Do not refer to the BSP number.

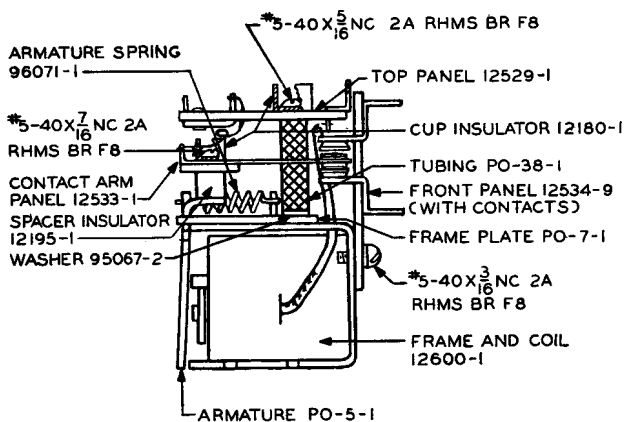


Fig. 1 - KS-15528 Relay

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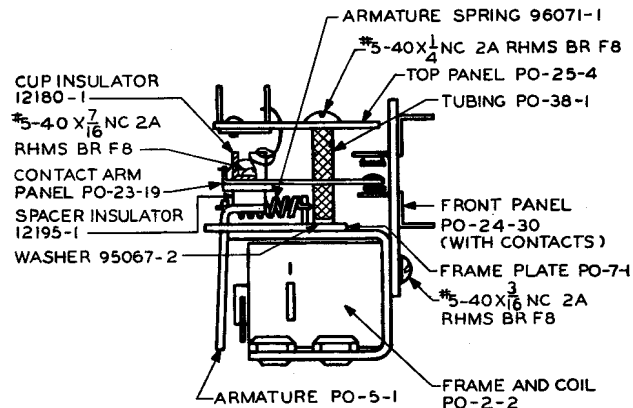


Fig. 2 - KS-15756 Relay

#### 3. REPLACEMENT PROCEDURES

##### 3.01 List of Tools and Materials

Code or Spec No.	Description
<u>Tools</u>	
220	3/16-inch Hex. Single-end Socket Wrench
TP-75503	Push Spring Hook
TP-75765	Pull Spring Hook
-	3-inch Cabinet Screwdriver
-	Soldering Copper

3.02 Before making any replacements be sure that service will be maintained by means of temporary wiring or in some other suitable manner. Remove the apparatus from service before making any replacement of parts.

3.03 Before making any of the replacements covered herein, tag and unsolder the wires and then remove the relay from the mounting. After making the necessary substitution of parts, remount the relay securely in place and reconnect the wires to the proper terminals soldering them in place.

3.04 After making any replacement of parts of a control relay, the part or parts

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replaced shall meet the readjust requirements involved, as specified in Section 040-670-701. Other parts whose adjustments may have been directly disturbed by the replacing operations shall be checked to the readjust requirements and an over-all operation check shall be made of the relay before restoring the circuit to service.

3.05 No replacement procedures are specified for nuts, washers, and other parts where the replacement consists of a simple operation.

3.06 Armature Spring: To replace an armature spring, unhook the outside end of the spring from the armature lug using the TP-75765 pull spring hook and then unhook the inside end of the spring from the frame plate lug using the TP-75503 push spring hook. Mount the new spring by following the reverse procedure.

3.07 Top Panel: To replace the top panel, unsolder the leads from the top panel terminals. Remove the screws using the 3-inch cabinet screwdriver. Mount the new top panel and insert and tighten the screws. Resolder the leads to the terminals.

3.08 Contact Arm Panel: To replace the contact arm panel, remove the top

panel, as covered in 3.07, except unsolder the leads from the contact arm terminals instead of from the top panel terminals. Remove the screws using the 3-inch cabinet screwdriver. Remove the insulators and contact arm. Mount the new contact arm panel in the reverse order. Resolder the leads.

3.09 Frame Plate and Armature: To replace the frame plate and armature, remove the top panel and contact arm panel, as covered in 3.07 and 3.08, except do not unsolder the leads. Remove the armature spring as covered in 3.06. Remove the tubing. Remove the posts using the No. 220 hexagon socket wrench. Substitute the necessary new parts. Reassemble the parts in the reverse order of removal.

3.10 Front Panel: To replace the front panel, remove the mounting screws with the screwdriver. Substitute a new front panel. Insert and tighten the mounting screws.

3.11 Frame and Coil: To replace the frame and coil, remove the front panel as covered in 3.10. Remove the frame plate and armature as covered in 3.09. Substitute a new frame and coil and remount the parts that were removed, in the reverse order.