

RELAYS

A, AB, E, EA, F, H, M, R, T, 235, AND 236 TYPES
PIECE-PART DATA AND REPLACEMENT PROCEDURES

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of A-, AB-, E-, EA-, F-, H-, M-, R-, T-, 235- and 236-type relays. It also covers approved procedures for replacing these parts.

1.02 This section is reissued to revise the piece-part data, to add a procedure covering replacement of EA-type relays when the terminals interfere with the mounting plate, and to add a procedure covering lubrication of replacement latches on M-type relays. Detailed reasons for reissue will be found at the end of this section.

1.03 Part 2 of this section covers the piece-part numbers and the corresponding names of the parts which it is practicable to replace in the field in the maintenance of the relays covered by this section. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Piece-Part Data.

1.04 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. PIECE-PART DATA

2.01 The figures included in this part show the various piece parts in their proper relation to the other parts of the relay. The piece-part numbers of the various parts are given together with the names of the parts as listed by the Western Electric Company Merchandise Department. Where these names differ from those in general use in the field, the latter names, in some cases, are shown in parentheses.

2.02 Information regarding the paper armature stops for these relays is included in Section 040-014-811 covering relays involved.

2.03 Where necessary to counteract sticking between the armature and the adjusting nut P-466091, order the D-159461 backstop nut which has a loosely held insert in the face of the nut.

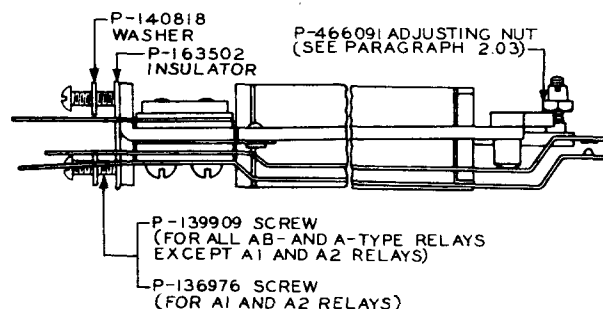


Fig. 1 - A- and AB-Type Relays

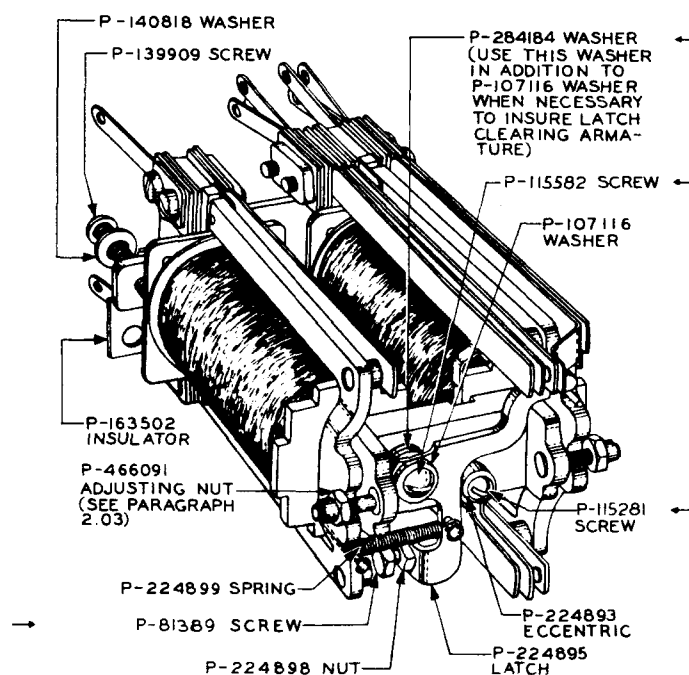


Fig. 2 - M-Type Relays

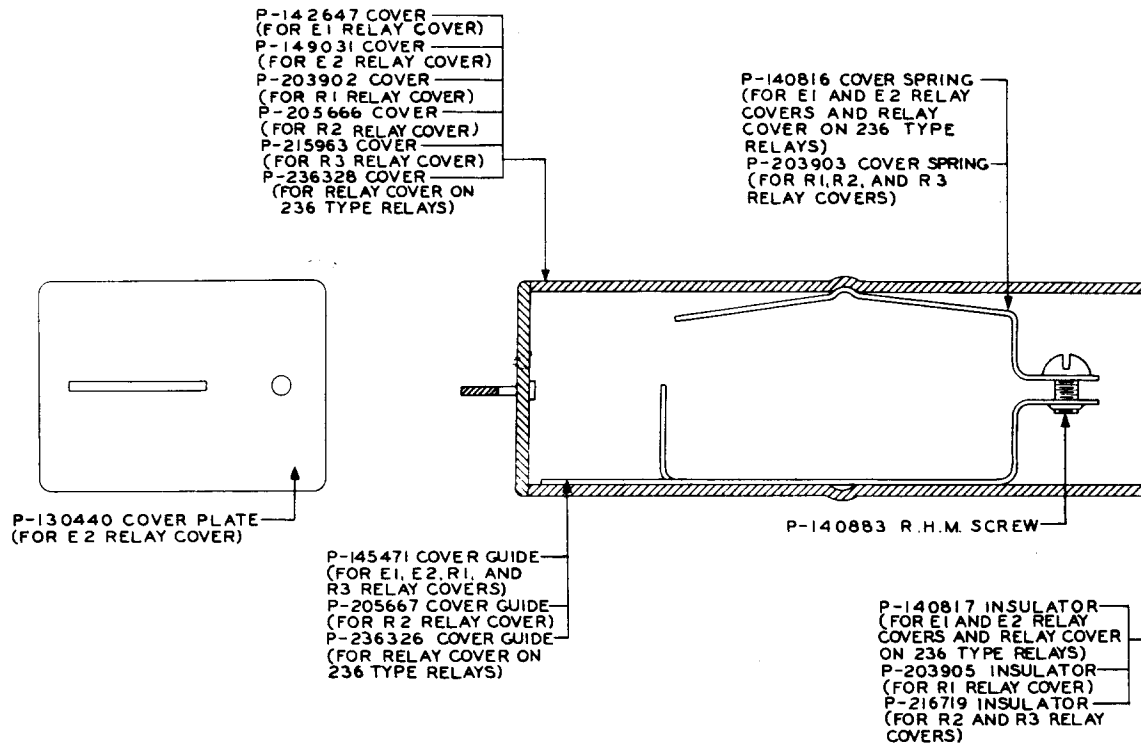


Fig. 3A - Cover

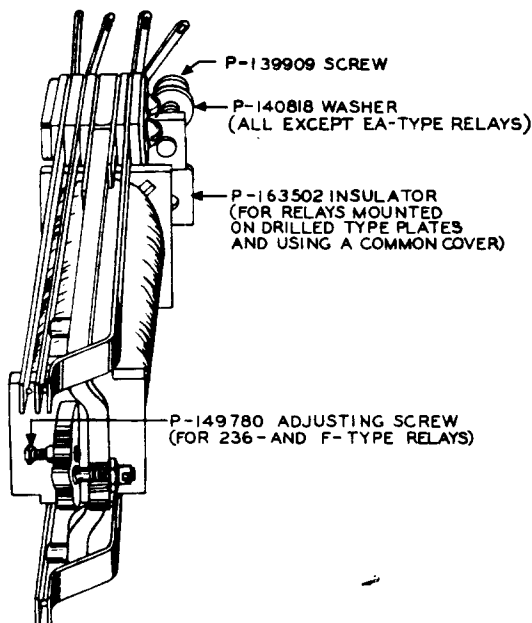


Fig. 3B - Mounting Parts and Adjusting Screw

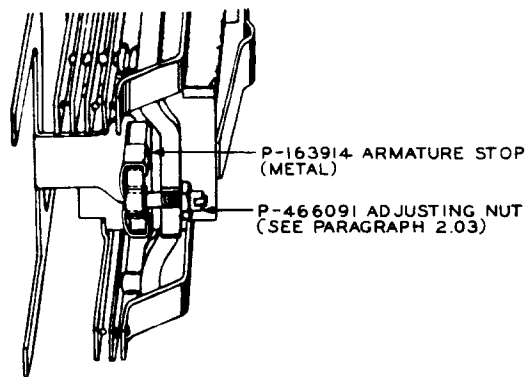


Fig. 3C - Armature Stop and Adjusting Nut

Fig. 3 - E-, EA-, F-, H-, R-, T-, and 236-Type Relays

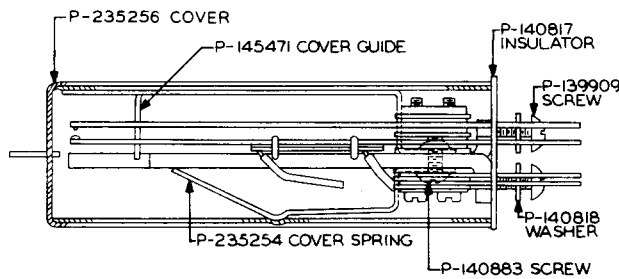


Fig. 4 - 235-Type Relays

2.04 When ordering parts for replacement purposes, give both the piece-part number and the name of the piece part. For example, P-466091 Adjusting Nut. Do not refer to the BSP number or to any information shown in parentheses following the piece-part number.

3. REPLACEMENT PROCEDURES

3.01 List of Tools

CODE OR SPEC NO.	DESCRIPTION	
388A (2 reqd)	3/16- and 1/4-Inch Hex. Open Double-End Offset Wrench	
KS-6015	Duckbill Pliers	←
KS-6854	Screwdriver	
—	4-Inch E Screwdriver (or the replaced 4-inch regular screwdriver)	↗

3.02 After making any replacement of parts of an A-, AB-, E-, EA-, F-, H-, M-, R-, T-, 235-, or 236-type relay, the part or parts replaced

shall meet the readjust requirements specified in the Division 040 section covering this apparatus. 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.

3.03 No replacement procedures are specified where the replacement consists of a simple operation.

3.04 If an EA-type relay having solder-type terminals is replaced with a relay having wire-wrap terminals in a position where a cover guide is located, and the wire-wrap terminals interfere with the mounting plate, it is permissible to bend or twist the terminals using the KS-6015 duckbill pliers until sufficient clearance is obtained. When bending a terminal, exercise care not to bend out of shape the portion of the terminal over which the wire-wrap tool fits. Any bending or twisting should be done near the pile-up.

3.05 After replacing the latch on M-type relays, lubricate the latch as specified in Section 040-516-811.

REASONS FOR REISSUE

1. To revise Fig. 2.
2. To revise the List of Tools (3.01).
3. To add a procedure covering replacement of EA-type relays (3.04).
4. To add a procedure covering lubrication of the replacement latch on M-type relays (3.05).