

PIECE-PART DATA AND REPLACEMENT PROCEDURES

SIGNALS - 34, 39, AND 41 TYPES

AND

ASSOCIATED SIGNAL MOUNTINGS

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of 34-, 39-, and 41-type signals. It also covers approved procedures for replacing these parts.

1.02 Part 2 of this section covers the piece-part numbers and the corresponding names of the parts which it is practical to replace in the field in the maintenance of these signals. 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.

1.03 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.

1.04 Before making any replacements on the apparatus covered herein, remove the circuit from service.

2. PIECE-PART DATA

2.01 The figures included in this part show the various piece parts in their proper relation to other parts of the signal. 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. When these names differ from those in general use in the field, the latter names, in some cases, are shown in parentheses.

2.02 When ordering parts for replacement purposes, give both the piece-part number and the name of the part, for example, P-81367 screw. Do not refer to the BSP number or to any information shown in parentheses following the piece-part number.

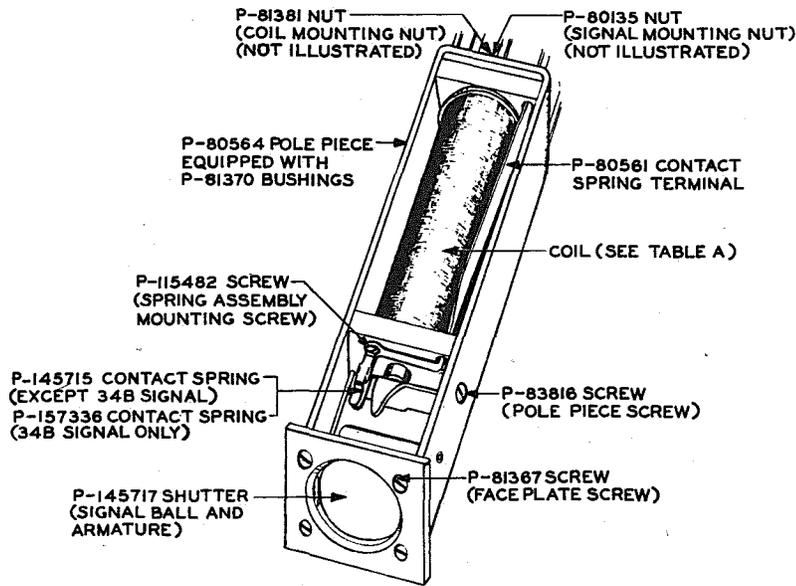


Fig. 1 - 34- and 39-type Signals

TABLE A

When ordering coils specify the P number followed by the word "Coil."

Signal Code	Coil						
34A	P-126655	34D	P-126658	34G	P-126661	39B	P-132469
34B	P-132471	34E	P-126659	34H	P-126662	39C	P-132467
34C	P-126657	34F	P-126660	39A	P-132468		

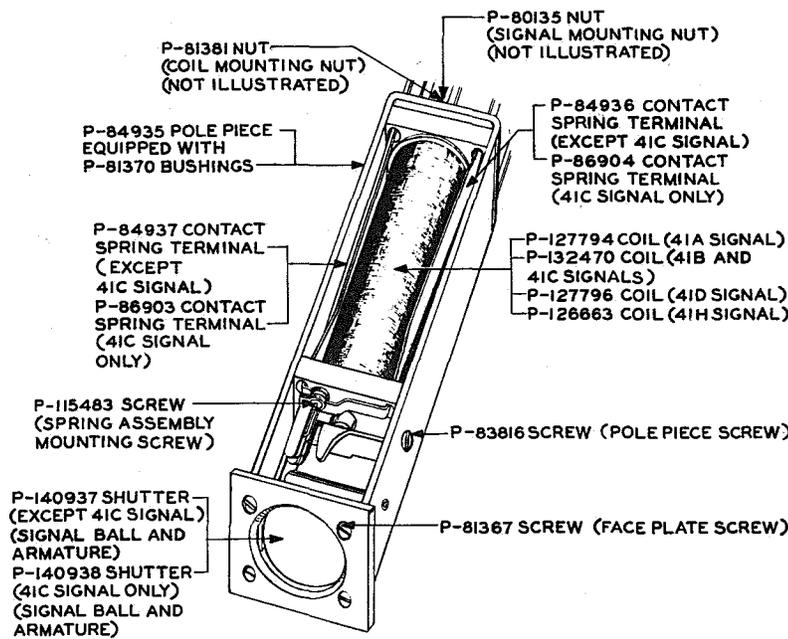
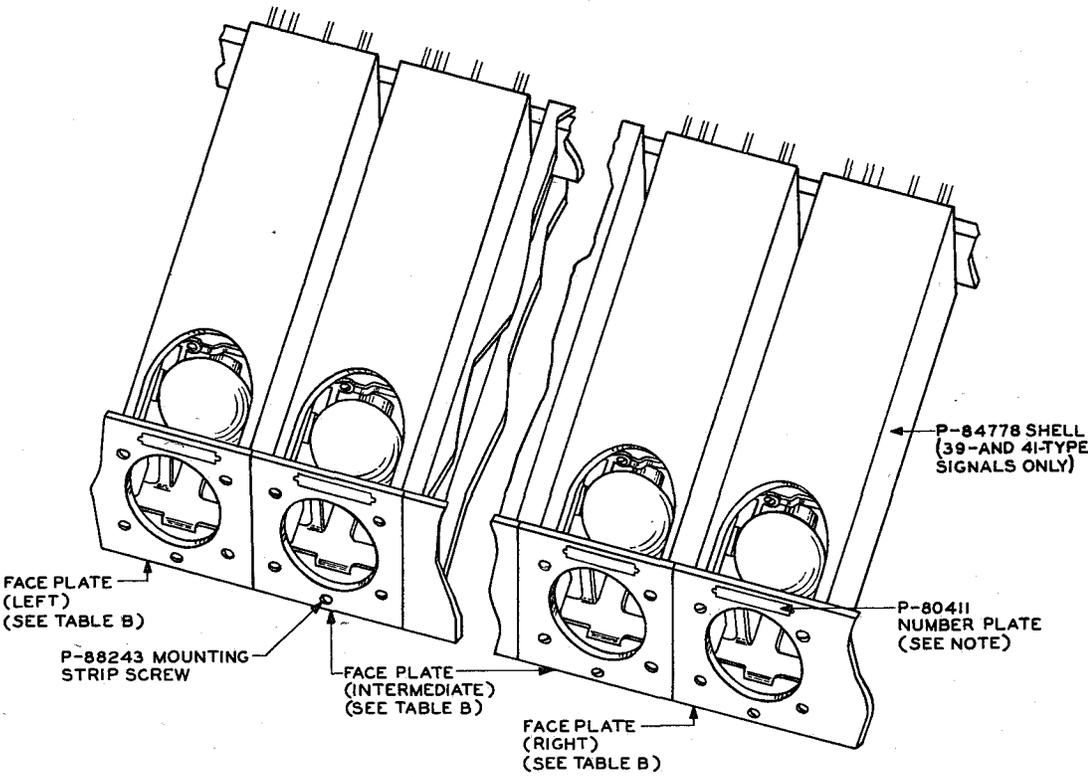


Fig. 2 - 41-type Signals



NOTE- FOR MOUNTINGS EQUIPPED WITH 41-TYPE SIGNALS NUMBER PLATES P-135137 (VERMILLION), P-135138 (WHITE), AND P-135139 (GREEN) MAY BE ORDERED.

Fig. 3 - Faceplates and Associated Parts for Signal Mountings, and Shell for 39- and 41-type Signals

TABLE B

When ordering faceplates, specify the P number followed by the word "Faceplate."

Signal Mounting Code	Faceplate (Left)	Faceplate (Intermediate)	Faceplate (Right)
30	P-80578	P-80568	P-80579
31	-	P-80569	-
32	P-80572	P-80566	P-80573
33	P-80574	P-80568	P-80575
34	P-80580	P-80566	P-80581
42	P-80578	P-80568	P-80579
44	P-80576	P-80567	P-80577
49	P-80580	P-80566	P-80581
53	P-84439	P-84436	P-84440
54	P-84438	P-84436	P-84437
56	P-80640	P-80568	P-80641
60	P-84783	P-80568	P-84784
61	P-80580	P-80566	P-80581
62	-	P-85743	-
68	P-80572	P-80566	P-80573
69	P-87674	P-87680	P-87675
70	-	P-88533	-
71	-	P-88533	-
72	-	P-88533	-
73	-	P-88533	-
74	-	P-88533	-
96	P-80574	P-80568	P-80575
97	P-131509	P-80568	P-131510

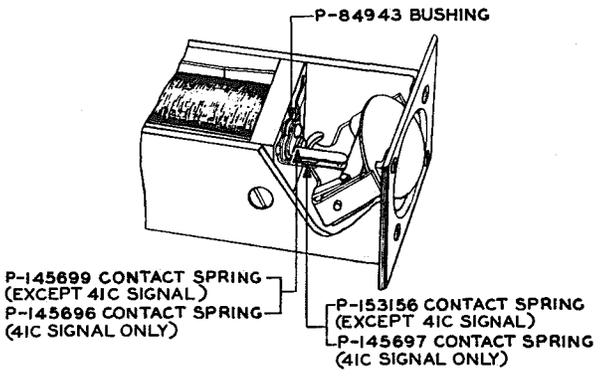


Fig. 4 - Contact Spring Assembly on 41-type Signals

3. REPLACEMENT PROCEDURES3.01 List of Tools

<u>Code or Spec No.</u>	<u>Description</u>
102	3/8-inch Hex. Single-end Socket Wrench
KS-6854	Screwdriver
R-2315	Lettering and Numbering Set
-	3-inch Cabinet Screwdriver

3.02 No replacement procedures are specified for screws or other parts where the replacement consists of a simple operation.

3.03 After making any replacement of parts of a 34-, 39-, or 41-type signal, the part or parts replaced shall meet the readjust requirements involved as specified in Section A438.253. Other parts whose adjustments may have been directly disturbed shall be checked to the readjust requirements, and an over-all operation check shall be made of the signal before restoring the circuit to service.

3.04 In replacing parts of these signals, it will be necessary to remove the signal from its mounting. To remove and remount the signal, proceed as follows.

(a) Removing Signal: Tag and disconnect the leads from the terminals. Remove the signal mounting nut using the No. 102 socket wrench. Remove the mounting strip screw from the faceplate with the KS-6854 screwdriver and withdraw the signal from the mounting. Remove the shell if provided.

(b) Mounting Signal: If the signal is provided with a shell, first slide the signal into the shell. While holding the signal ball and armature operated, position the signal in the mounting with the front part of the signal resting on the mounting strip at the front. Securely tighten the mounting strip screw, using the KS-6854 screwdriver. Securely tighten the signal mounting nut with the No. 102 socket wrench. Connect and solder the leads to the proper terminals.

3.05 Shell: To replace the shell, remove the signal and shell from the mounting as covered in 3.04(a). Substitute the

new shell and remount the signal as covered in 3.04(b).

3.06 Faceplates and Number Plates: To replace a faceplate or number plate, remove the faceplate and mounting strip screws with the KS-6854 screwdriver, and remove the faceplate from the mounting strip. Place the faceplate face down on a flat surface, and using the screwdriver, pry up the two small tabs on the number plate. Remove the number plate from the faceplate. Substitute new parts as required. Mount the number plate on the faceplate and the faceplate on the signal and mounting strip. When a number plate bearing a designation is replaced, note the designation and stamp it on the new number plate with 1/8-inch characters in white ink, using the R-2315 lettering and numbering set.

3.07 Signal Ball and Armature: To replace the signal ball and armature, remove the signal from the mounting as covered in 3.04. Remove the faceplate screws using the KS-6854 screwdriver and remove the faceplate. Remove the pole-piece screws with the 3-inch cabinet screwdriver. Slightly spread the pole piece and remove the signal ball and armature. Position the new part in the pole piece, mount the faceplate on the pole piece, and securely tighten the faceplate screws. Then securely tighten the pole-piece screws.

3.08 Contact Springs, Contact Spring Terminals, and Associated Bushing: To replace a contact spring, contact spring terminal, or the associated bushing, proceed as follows. Remove the faceplate and signal ball and armature as covered in 3.07. Remove the spring assembly mounting screw, using the KS-6854 screwdriver. Substitute new parts as required. Reassemble the parts in the reverse order of removal, align the parts to meet the requirements covered in Section A438.253, and securely tighten the spring assembly mounting screw. Remount the other parts of the signal as covered in 3.07.

3.09 Coil and Pole Piece: To replace the coil or pole piece, proceed as follows. Remove the faceplate and signal ball and armature as covered in 3.07. Using the No. 102 socket wrench, remove the coil mounting nut and remove the coil from the pole piece. Substitute the new pole-piece if required. If the coil is to be replaced, transfer the spring assembly to the new coil following a procedure similar to that covered in 3.08. Remount the parts in the reverse order of removal.