

MOUNTING AND ALIGNING APPARATUS

"CO" (COILS THRU COVERS)

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1.	<u>GENERAL</u>	2.12	<u>Additional Tools</u>
1.1	<u>Scope of Section</u>	ED-63343-01	Brackets, Maintenance (See Note 1)
1.11	This section covers the requirements and methods for mounting and aligning apparatus classified alphabetically under "CO".	→ R-6854	Screw Driver, 3/4"
		→ R-4300	Wrench Set, Small Nut and Bolt
1.12	The requirements covered in this section should be followed except as modified by applicable specifications and drawings.	<u>NOTE 1:</u> Used to support equipment units mounted on double-sided or back-to-back duct type bays when performing work operation on the normally inaccessible side of the unit. Method of using the brackets is covered in BSP 065-125-801. (Brackets and BSP may be borrowed from the telephone company.)	
1.2	<u>General Information Pertaining to Arrangement of Tools, Precautions, Verification, Specifications, Drawings and Figures, and Associated Information</u>		
1.21	Refer to Section 52 for information pertaining to the above subjects.	3.	<u>COILS, HEAT</u>
2.	<u>INSTALLING EQUIPMENT</u>	3.1	Indicator alarm type heat coils should be installed in the same manner as indicator alarm type fuses as covered in Section 52 CU.
2.1	<u>Tools</u>	3.2	Place heat coils in the protector mounting so that the outer spring of the mounting does not rest on the soldered portion of the metal washer of the heat coil.
2.11	In addition to tools supplied in the general kits, the tools listed may be required for the operations covered by this section.		

CAUTION: 74E INDICATOR ALARM TYPE HEAT COILS ARE MOUNTED WITH THE SIDE MOUNTING SLOT FASTENED TO THE POTENTIAL SUPPLY SIDE OF THE CIRCUIT TO INSURE PROPER CONTACT BETWEEN THE ALARM BAR AND THE ALARM SPRING OF THE HEAT COIL. WHEN MOUNTING THIS TYPE HEAT COIL IN THE VERTICAL POSITION IN DOUBLE ROW TYPE FUSE PANELS, THE COIL SHOULD BE PUSHED UP AGAINST THE MOUNTING SCREW IN THE DISCHARGE POST AS FAR AS PRACTICABLE, AND HELD IN THIS POSITION UNTIL SCREWS ARE TIGHTENED.

- 3.3 If the coil is to be mounted in a horizontal position, it should be pushed toward the mounting screw as far as practicable and tightened. This procedure will eliminate the binding of the alarm spring against the potential supply bar and allow it to swing through its normal arc and make with the alarm bar.

4. COILS, INDUCTION

- 4.1 Unshielded induction coils, such as the 62, and similar types, should be located with sufficient separation from each other or from other unshielded coils such as the 49A repeating coil to avoid inductive interference between coils. Where the axes of adjacent coils are parallel, the minimum separation should be 1'-10" and where the axes are at right angles, the minimum separation should be 1'-8" measured from center to center.
- 4.2 Since the inductance of the 181 type induction coil, the 202 type repeating coil, or the 274 type retardation coil might be altered if improperly mounted, it is important that when any one of these coils is installed on a mounting plate less than 7/32" thick, washers (specified in stock list or furnished) be used under the mounting screws, as required; or shorter screws may be substituted so that they do not project into the coil more than 1/8" beyond the outside surface of the coil mounting plate.

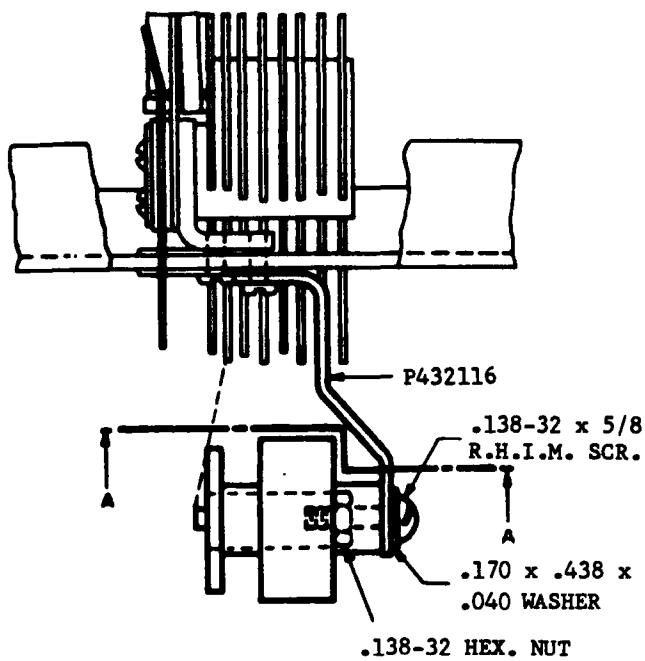
5. COILS, REPEATING

- 5.1 Unshielded repeating coils such as the 60 types should be located at least 8" apart measured from center to center, unless the axes of the cores are at right angles.
- 5.2 Redesigned 94 type repeating coils are furnished interchangeably with the old design. The new design is oval in shape while the old design is rectangular.
- 5.3 Avoid indiscriminate mixing of the old and new designs of 94 type repeating coils. Use either all of the old type or all of the new type in any one switchboard position or on any one relay rack mounted unit.
- 5.4 Mount 110A repeating coils when located on angle type mounting plates with the code marking toward the foot of the plate.

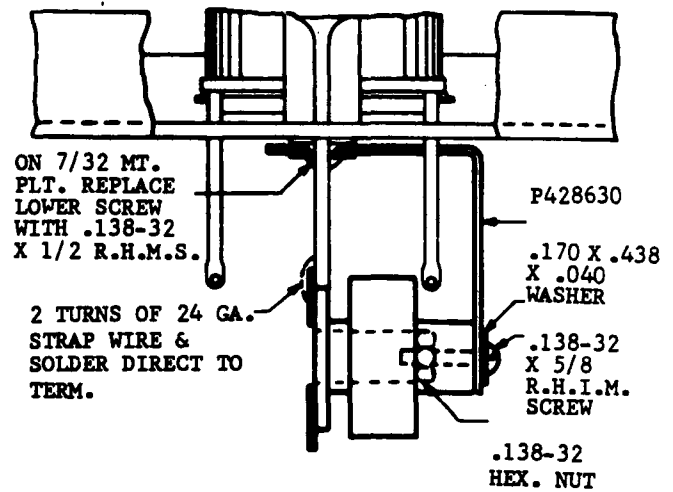
6. COILS, RETARDATION

NOTE: Unless otherwise specified, mount 46 and 47 type retardation coils in accordance with Paragraphs 6.1 to 6.6.

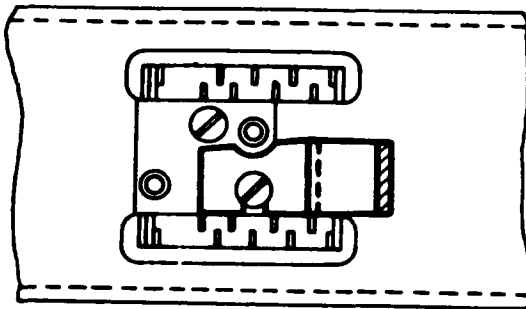
- 6.1 Mount 46A and similar (2 terminal) coils with code markings reading from bottom up.
- 6.2 Mount 46M and similar (4 terminal) coils with mounting lugs in a vertical position and with code markings reading from bottom up (at an angle).
- 6.3 Mount 47A and similar (2 terminal) coils with code markings at the right when viewed from the apparatus side.
- 6.4 Mount 47M and similar (4 terminal) coils as indicated on the coil. ("TOP" stamping.)
- 6.5 Mount 111 type retardation coils on mounting plates with heads of terminal assembly screws on right side of coil as viewed from the apparatus side of the plate.



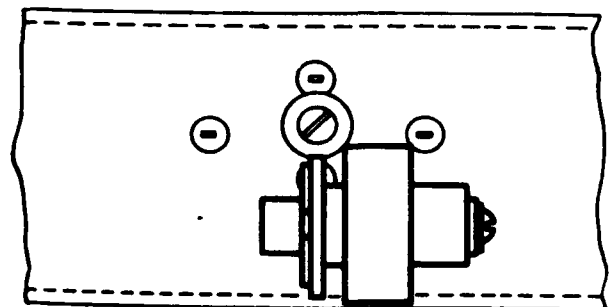
PLAN



PLAN



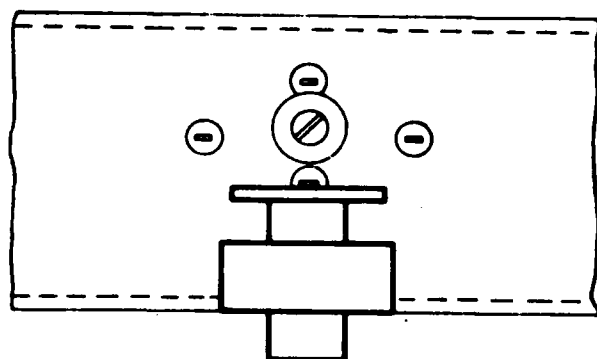
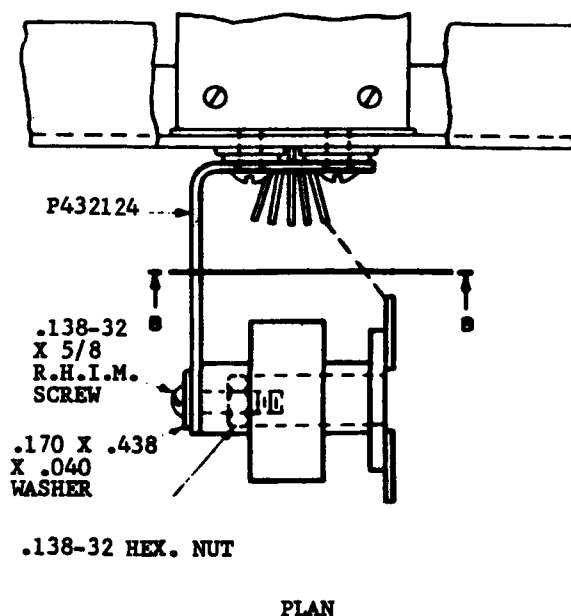
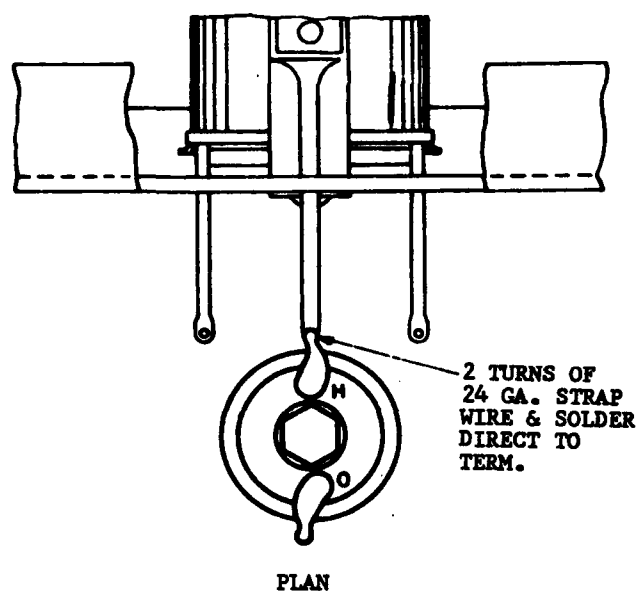
SECT A-A
METHOD OF MOUNTING 200 CL COIL IN REAR
OF U-, Y OR SIMILAR TYPE RELAYS



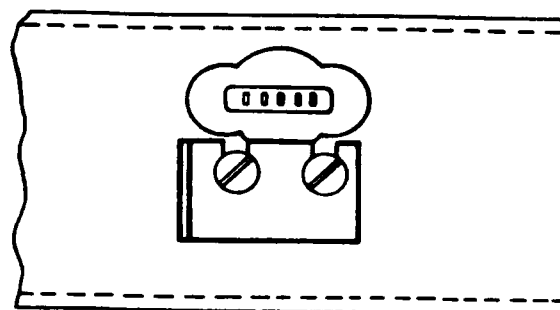
TERMINAL SIDE
METHOD OF MOUNTING 200 CL COIL ON REAR OF
207 A REL. BY MEANS OF BRKT. OTHERWISE
SAME AS FIGURE ABOVE EXCEPT AS NOTED

FIG. 1 MOUNTING 200-TYPE RETARDATION COILS IN REAR
OF U-, Y-, 207-, AND 280-TYPE RELAYS
(PAR. 6.6) (CONTINUED ON FOLLOWING PAGE)
(BSP 800-610-154 FIG. 10)

(RP-16159-M)



METHOD OF MOUNTING 200 CL COIL ON
"A" TERMINAL OF EXISTING 207A RELAY



METHOD OF MOUNTING 200 CL COIL IN REAR
OF U, Y OR SIMILAR TYPE RELAYS

(RP-16159-M)

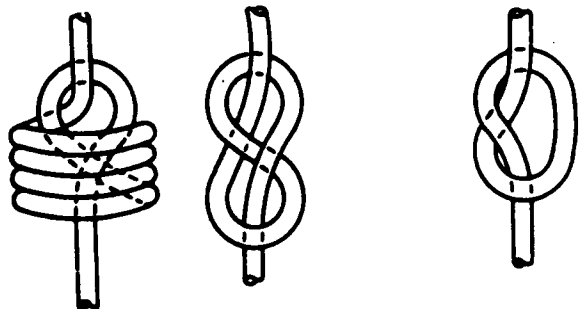
FIG. 1 MOUNTING 200-TYPE RETARDATION COILS IN REAR
OF U-, Y-, 207-, AND 280-TYPE RELAYS
(PAR. 6.6) (BSP 800-610-154 FIG. 10)

- 6.6 When 200 type retardation coils are installed in the rear of 207, 280 U, Y and similar type relays, they should be mounted as shown in Figure 1.

7. CORDS AND CORD WEIGHTS

- 7.1 Cords and cord weights to be used are specified in the stock list of the equipment drawings.
- 7.2 Slate colored cords will replace white cords and cords of either color may be used as furnished.
- 7.3 Place cord in proper hole in plug shelf, dropping the cord tips in one at a time and pushing them through by hooking one lug of each tip in the rear end of the preceding tip. Pull cords in from rear of section.
- 7.4 On cords equipped with metal links on stay band, after threading conductor tips through plug seat, allow link to go through hole in advance of end of stay band so as to prevent link wedging in hole. One loop of the link is fastened through the stay band hole and the other loop is used to slip over the cord hook.
- 7.5 Place proper cord weights on cords and place eyelet tip on cord hook and cord tips under cord fastener screws. Note that cord hooks are marked to indicate answering and calling cords. Unless otherwise specified, tip of cord is white, ring, blue and sleeve, red.
- 7.6 Hang cord weights as low as practicable but not closer than 1" from the base of switchboard or testboard sections. Where the weights come closer than 1" from the base of the section, shorten the cords by means of knots as shown in Figure 2 unless otherwise specified. The knots should be tied as near the cord hooks as practicable.

- 7.7 Refer to Section 52 CU for requirements and positioning 1A, 2A and 4A cushions on switchboard cords.



TO BE USED WHEN
CONSIDERABLE
TAKE-UP IS REQUIRED

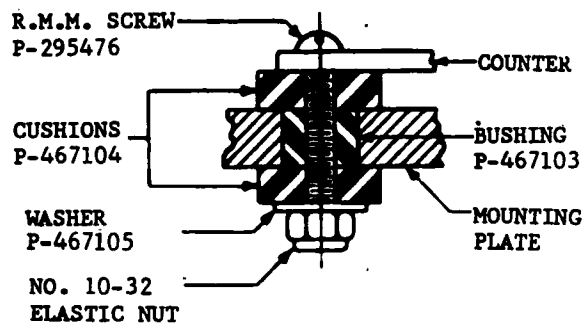
TO BE USED ONLY
WHEN SMALL AMOUNT
OF TAKE-UP IS REQUIRED

(RP-0283)

FIG 2 METHOD FOR TAKING UP SLACK IN CORDS
(PAR 7-6) (BSP 800-610-154 FIG. 7)

8. COUNTERS, MAGNETIC

- 8.1 Mount KS-7495 magnetic counters employing rubber cushions as shown in Figure 3.



(RP-0284)

FIG 3 METHOD FOR MOUNTING MAGNETIC COUNTER
KS-7495 (PAR 8.1)
(BSP 800-610-154 FIG. 11)

9. COVERS, COMMON CAN

- [9.1 Mount common can covers which have been stamped with lettering or numbering or with a dot (.) so that the lettering or numbering is right side up or so that the dot will be located in the upper left corner of the cover.

→ Indicates new or changed information

[Vertical lines at side of paragraphs indicate requirements.

Engineering Planning Manager
(Installation)

Reason for Reissue:
Update BSP Issue.