

MOUNTING AND ALIGNING APPARATUS
"LE" TO "REC" (LEVERS THRU RECEPTACLES)

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1. GENERAL

R-4300

Wrench Set, Small Nut and Bolt
Cutter, Diagonal, W-Notch

1.1 Scope of Section

1.11 This section covers the requirements and methods for mounting and aligning apparatus classified alphabetically from "LE" to "REC" inclusive.

1.12 The requirements covered in this section should be followed except as modified by applicable specifications and drawings.

1.2 General Information Pertaining to Arrangement of Tools, Precautions, Verification, Specifications, Drawings and Figures, and Associated Information

1.21 Refer to Section 52 for information pertaining to the above subjects.

2. INSTALLING EQUIPMENT

2.1 Tools

2.11 In addition to tools supplied in the general kits, the tools listed below may be required for the operations covered by this section.

2.12 Additional Tools

ED-63343-01 Brackets, Maintenance (See Note 1)

R-6854 Screwdriver, 3-1/2"

3. LEVERS, KEY

3.1 Mount 6, 14, 23 and similar type key levers so that the code marking is toward the front or right, or toward the bottom. This will locate the levers of one way operated keys so that they actuate from the vertical position towards or to the right of the operator and of 2 way operated keys so that the outer contacts are closed by actuating the key toward or to the right of the operator.

3.11 Keys equipped with a 6A or similar type key lever shall be operated when the lever is in the extreme rear position (refer to Figure 1), i.e., all normally closed contacts shall be open and all normally open contacts shall be closed.

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- 3.12 The normal (unoperated) position of key is that position in which the hard rubber plunger of key is resting against the key frame with all normally open contacts open, and all normally closed contacts closed.

- 3.13 Cut key lever plunger (refer to Figure 1) to length to fit panel on which key lever is mounted. With one end of the plunger resting against the key plunger rod, there shall be a "just perceptible" clearance between other end and cam with key lever in normal position. Before cutting plunger, place key lever in position with lever in normal position to determine the length to cut the plunger. Cut off plunger with R-6433 Diagonal Cutter at flat end and file flat again. If key lever plunger sticks, clean it. Avoid using any lubricant.

- 3.14 The key lever cam and its plunger shall work freely in their bearings and when key lever is returned to normal with key in place, the key plunger shall return to normal with a snap.

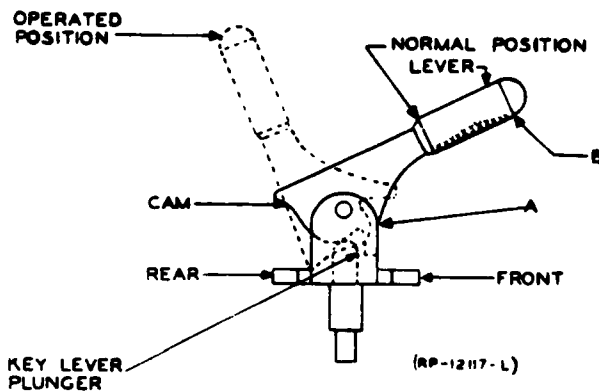


FIG. 1 MOUNTING TYPE 6A KEY LEVERS
(PAR. 3.11, 3.13)

4. LISTS, TERMINAL ASSIGNMENT

- 4.1 For DPTS in step-by-step offices, hang one set, when specified, on the end guard adjacent to the DPTS.
- 4.2 Terminal assignment lists are not furnished for other than step-by-step equipment except on additions.
- 4.21 On additions locate lists similar to existing lists.

- 4.3 Refer to Job Clerical Handbook (Installer's Requisitions) for information on correcting existing terminal assignment lists and for obtaining copies of modified lists.

5. METERS

- 5.1 Refer to the paragraph in Section 52A that covers Mounting Serially Numbered Apparatus.

6. MOUNTINGS, APPARATUS

- 6.1 The 5A and 5B apparatus mountings are used to mount the banks of the 206 and similar type selectors in order to reduce the general noise level in the switch room and to prevent transmission of selector vibrations and noise to adjacent circuits. They should be provided only when specified on the equipment drawing.

7. MOUNTINGS, JACK

- 7.1 Mount 1, 19 and similar type jack mountings, used for 49 and 92 type jacks, so that the tip and ring springs of the jack will be under the plug.
- 7.2 Mount jack mountings used for 141, 275 and similar type jacks, with the metal mounting under the jacks for strips 1/2" thick, and above the jacks for strips more than 1/2" thick, unless otherwise specified.
- 7.3 A method for mounting individually mounted jacks in congested locations is shown in Figure 2.

8. MOUNTINGS, LAMP SOCKET

- 8.1 Mount strip type lamp socket mountings as follows:
- 8.11 Those having hard rubber frames with the nut side of the lamp socket upward.
- 8.12 Those having metal frames with horizontal flanges, with the horizontal flange of the face plate downward.
- 8.13 Those having metal frames without a flange on the face plate, are marked "TOP" on one side and should be mounted accordingly.

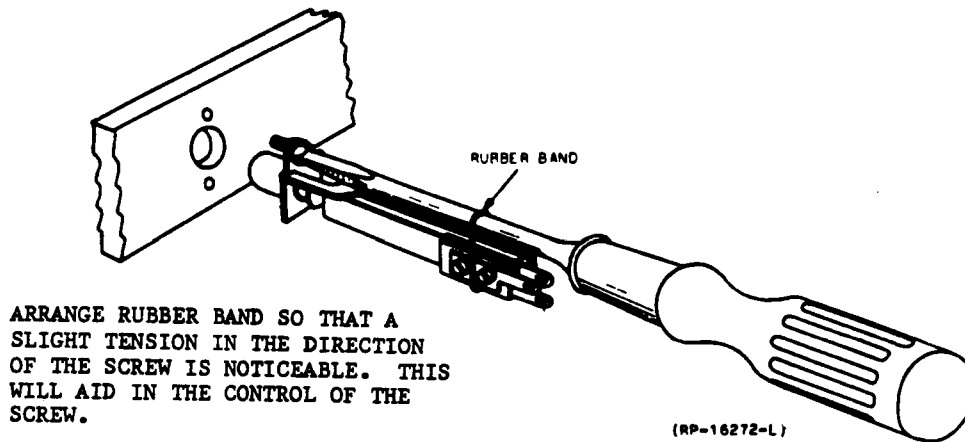


FIG. 2 METHOD FOR MOUNTING INDIVIDUALLY MOUNTED JACKS
(PAR. 7.3)

9. MOUNTINGS, PROTECTOR

- 9.1 The R-2697 Right Angle Ratchet Screwdriver, contained in Kit No. 43, may be used to mount the 50D Protector Mounting to the Protector Strip on ED-61866-70 Dry Battery Cabinet Assemblies where space limitations cause difficulty in using the usual tools.

10. NETWORKS

- 10.1 The 184A network should be mounted with the bracket securely fastened under the upper mounting screw of the relay on the wiring side of the plate with the network in a vertical position. When mounted in a group on one mounting plate they should be aligned as covered in Section 52.
- 10.2 When mounting 181D or similar types of networks, care should be taken that not too much tension is applied to the mounting studs at the time the nuts are tightened. Excessive tightening of the nuts may loosen the covers or break the soldered joints between the covers and the case.

11. PLATES, DUMMY MOUNTING

- 11.1 Where regular plates are not furnished coded or piece-part mounting plates should be used, as required, for apparatus blanks or dummy mounting plates, or for support of unequipped cable forms in accordance with Handbook 9 covering Protecting and Supporting Unequipped Wiring.

12. PLATES, MOUNTING

- 12.1 Individual mounting plates fastened with mounting clips should be level within 1/16".

12.11

1/32" Separators: Except as otherwise covered herein, mounting plates fastened by means of clips should be separated from one another by means of 1/32" mounting plate separators as shown in Figure 3. The separator may be placed at either the top or bottom of the mounting plate except that, where the adjacent plates are of different thicknesses the separator should be placed over the thinner plate.

12.12

1/8" Separators: Where a drilled type mounting plate is located adjacent to a punched-type plate having a common cover, a 1/8" separator, as shown in Figure 4 should be used between the two plates where space permits. Adjust the equipment when necessary to allow for this space. When separators are used, the mounting plates should be supported by four single mounting clips instead of two double clips.

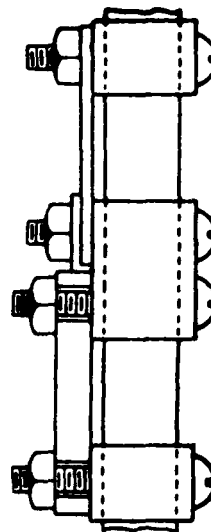
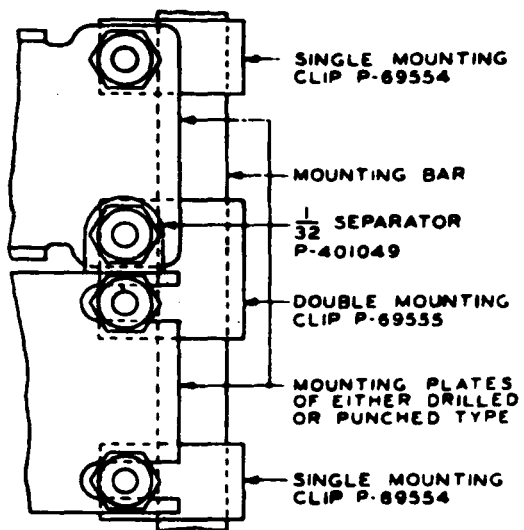
12.2

Channel type mounting plates shall be assembled so that the apparatus will be between the flanges of the plate on the front side of the frames, unless otherwise specified on the drawings or other job papers.

13. PLATES, NUMBER

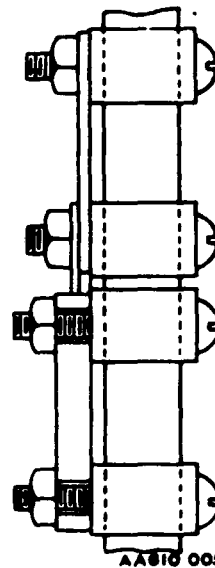
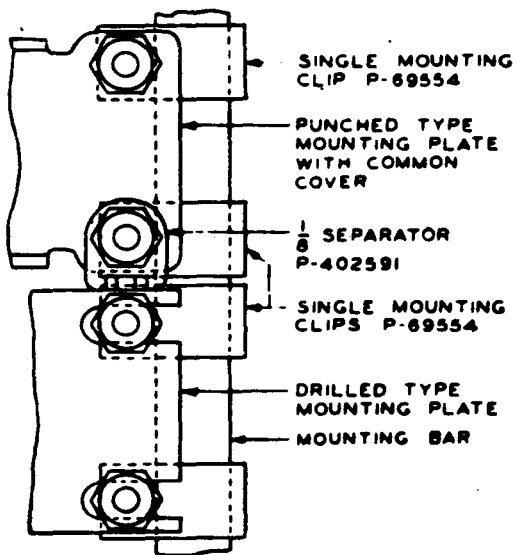
13.1

Mount flush type number plates, flush within approximately .010" either way with the surfaces in which they appear. Paper discs cut to approximately the size of the number plate may be used to block up the plate where necessary to meet the requirement.



RP-16376-M

FIG. 3 MOUNTING PLATE SEPARATIONS FOR $\frac{1}{32}$ " SEPARATION
(PAR. 12.11) (BSP 800-610-154 FIG. 17)



RP-16377-M

FIG. 4 MOUNTING PLATE SEPARATIONS FOR $\frac{1}{8}$ " SEPARATIONS
(PAR. 12.12) (BSP 800-610-154 FIG. 18)

13.2 Old types of 153A and 153B number plates made of metal and having elongated holes should be mounted so that they do not come in contact with the designation strips of the jack mounting which they serve to identify.

13.3 Refer to Section 30H of Handbook 30 for information on mounting 140, 141, 142 and 143 type number plates.

14. PLUGS

14.1 The front row of plugs and lamp sockets in subscriber switchboard positions should be associated with the calling cords and the rear row with the answering cords.

14.2 The color of plug shells is listed in job information.

15. POSTS, FUSE

15.1 Number 5 and 6 type fuse posts should be mounted so that the flat surface of the soldering lug will be parallel to the long axis of the panel in order to facilitate strapping between the posts.

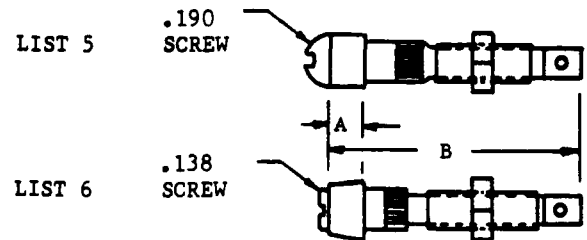
15.2 When fuses of different voltages or current characteristics are grouped on the same panel, two sets of fuse posts and associated alarm studs should be omitted between groups.

15.3 When fuses of different capacities but the same voltage and current characteristics are grouped on the same panel, one set of fuse posts and associated alarm studs should be omitted between groups where space is available.

15.4 In cases where there are no spare fuse positions on a fuse panel which can be used to separate fuses of different capacities or voltages, indicate the

separation, with brackets as covered in Handbook 39, Section 16. Under these conditions the information on the drawings will supersede the requirements. Where fuse posts have been omitted it will not be necessary to install apparatus blanks in the empty drillings.

15.5 The following table is provided to aid the installer in identification of List 5 and 6 type fuse posts.



CODE NO.	DIMENSIONS (INCHES)	
	A	B
5A	1/4	2
5C	1/4	2-3/4
5D	13/64	2
5E	1/4	1-5/8
5F	13/64	1-5/8
6B	1/4	2
6C	1/4	1-5/8
6D	13/64	2-3/4
6E	13/64	1-5/8
6F	13/64	2

16. RECEPTACLES - MALLORY

16.1 Unless otherwise indicated in supplementary information, mount Mallory receptacles so that the locating pin of the plug will be at the top.

→ Indicates new or changed information.

[Vertical lines at side of paragraphs indicates requirements.

Engineering Planning Manager
(Installation)

Reason for Reissue:
Update BSP issue.