FASTENING FRAMES AT TOP OF FRAME
SHEET METAL BOX TYPE

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1. GENERAL

1.1 Scope

1.11 This section covers requirements and information for fastening the tops of sheet metal box type frames to auxiliary framing as well as for isolated frames or frames extending more than 2'-6" beyond auxiliary framing.

2. FASTENING FRAMES TO AUXILIARY FRAMING

2.1 Sheet metal box type frames shall be attached to the auxiliary framing by means of details shown in Figures 6G or 6J. Where the auxiliary framing crosses at frame junctions as shown in Figure 6G, the hollow pads (P-30A012) connecting the frames to the auxiliary framing shall be placed so as to permit free passage for cabling entering the ends of the frame. When the auxiliary framing is offset a short distance from the junction of the frames (approximately 1 inch), so that the frames cannot be fastened as per Figure 6G, they may be fastened in a manner similar to that shown in Figure 16C.

2.11 Note that in Figure 6G, a P-30A015 Bracket is required when the frame is fastened to the auxiliary framing at the frame junctions, but is not required if the frame is fastened to the auxiliary framing at other than frame junctions. In the case of incomplete lineups, the P-30A015 Bracket and associated parts per Figure 6G shall be installed at the growing end of the lineup only if the last frame upright contains power feeders.

2.12 When necessary to fasten frames to the auxiliary framing as shown in Figure 6G, and the P-30A012 Pad interferes with the power cables and the P-31A330 Clamp Assembly used for supporting the power cables, move the pad toward the center of the bay keeping the other parts of the assembly fixed until the pad clears the P-31A330 Clamp Assembly. This may cause the pad to extend slightly beyond the P-30A015 Bracket which is permissible.

3. ISOLATED OR EXTENDING 2'-6" BEYOND AUXILIARY FRAMING

3.1 In general, high type auxiliary framing should be used for the support of isolated frames. However, where a frame or lineup extends more than 2'-6" beyond the regular auxiliary framing bars or channels, the frame shall be attached to the cable rack with short pieces of framing as shown in Figures 16B or 16C. One such attachment is sufficient for frames supported at one end, either by other frames or auxiliary framing, while two are required for completely isolated frames.

3.11 Where short pieces of channel or framing bars are used for support of frames, the bars or channels should be cut so that the ends projecting to the outside of the cable rack stringers approximately $\pm$ 1/4" from the edges of the supporting saddle clips and the overhang at the P-30A012 Pad is approximately 1/2" $\pm$ 1/4". See Figure 16B. The necessity of cutting support channels fastened to bar-type cable rack has generally been eliminated by the standardization of precut channels. See Figures 16B and 16C.

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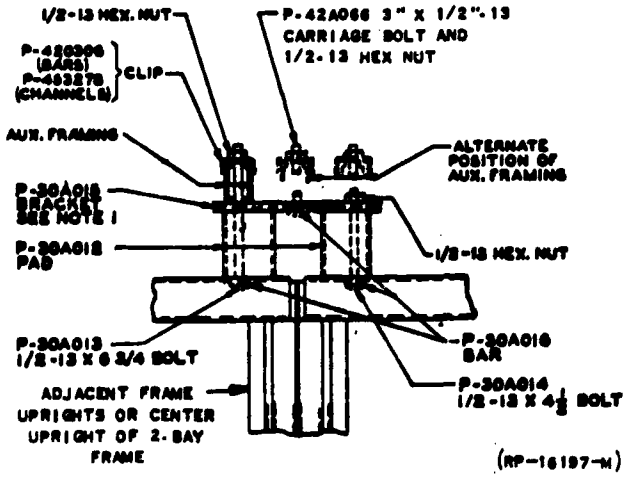
3.12 When frames are added to a lineup, the short pieces of channel or framing bars that support the end of the existing frame need not be removed.



NOTE:
1. WHEN AUXILIARY FRAMING IS FASTENED TO TOP MEMBERS AT OTHER THAN FRAME JUNCTIONS THE BRACKET P-30A015 WILL NOT BE REQUIRED AND THE PAD P-30A012 SHOULD BE CENTRALLY LOCATED UNDER THE AUXILIARY FRAMING PER FIGURE 6J.

FIG. 6G FASTENING ADJACENT FRAMES, WITH CHANNEL TOP MEMBERS, TO AUXILIARY FRAMING (PARS. 2.1, 2.11, and 2.12) (BSP 800-614-155, Fig. 6G)

3.2 Where frames are isolated only in the initial installation but will be in line with and adjacent to other frames in the ultimate, they should be supported by high-type auxiliary framing only so long as they are isolated. When the adjacent frames are installed, the high-type framing should be removed and low framing used for all of the frames.

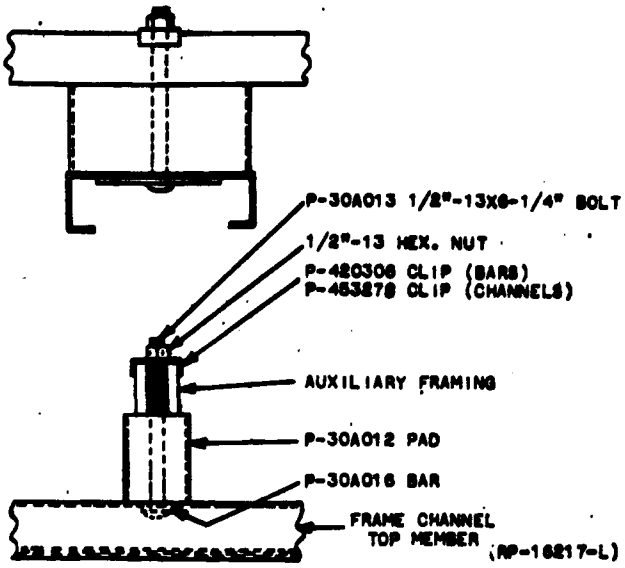


FIG. 6J FASTENING TOPS OF FRAMES HAVING CHANNEL TYPE TOP MEMBERS TO AUXILIARY FRAMING (PAR. 2.1)

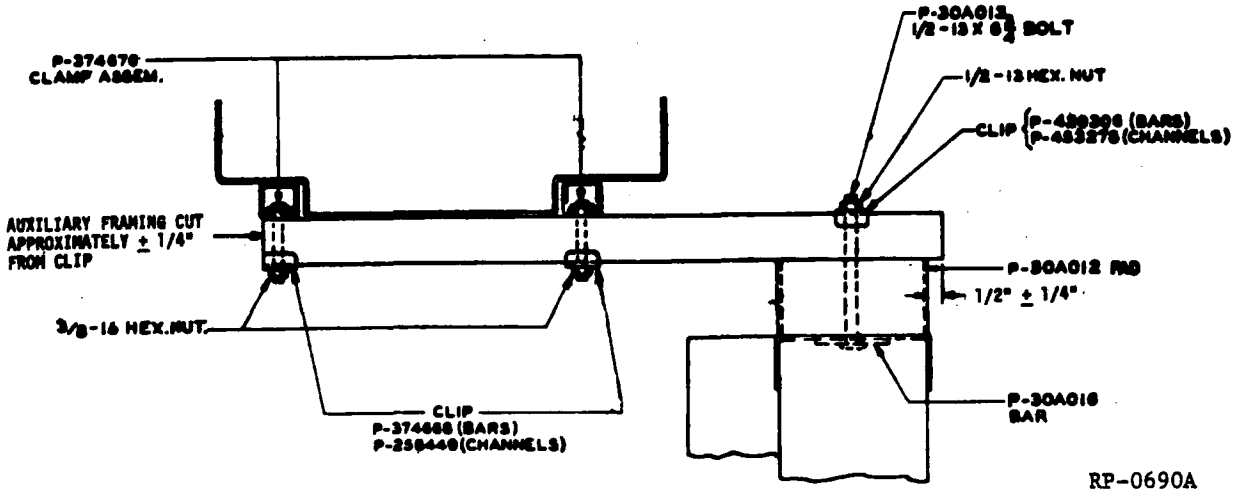


FIG. 16B ISOLATED NO. 5 CROSSBAR FRAME SUPPORTED FROM ONE CHANNEL-TYPE CABLE RACK - "A & M" ONLY (PARS. 3.1, 3.11) (BSP 800-614-155, Fig. 16B)

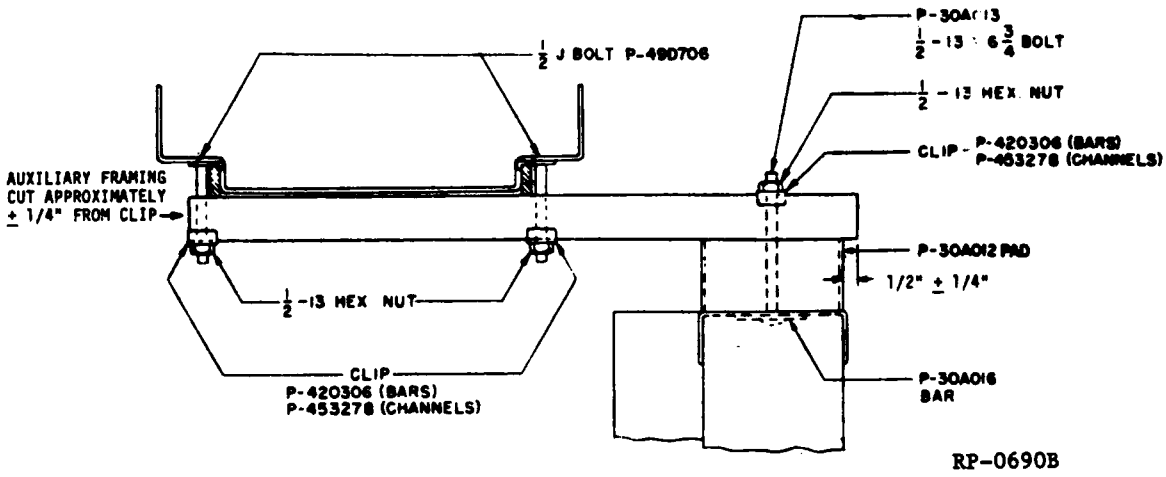


FIG. 16C ISOLATED NO. 5 CROSSBAR FRAME WITH CHANNEL TOP MEMBER SUPPORTED FROM BAR-TYPE CABLE RACK (PARS. 2.1, 3.1, 3.11)
(BSP 800-614-155, Fig. 16C)

4. VERIFICATION ITEMS

Brief Statement of Requirements		Reference	
		Par. No.	Fig. No.
4.1	Top Fastenings		
4.11	Frames properly attached to auxiliary framing	2.1	6G
4.12	Frames that extend more than 2'-6" beyond regular framing bars on channels	3.1, 3.11	16B, 16C

No arrows due to extensive changes.

Vertical lines at side of paragraphs indicate requirements.

Engineering Planning Manager
(Installation)

Reason for Reissue:
(1) To update BSP
(2) To update Figures