

General

This instruction sheet provides procedures for installing vertical troughs. Vertical troughs mount on the frame uprights and are used to manage cabling routed along the sides of bay frames. Vertical troughs are used with the DSX-1/1C Systems (*Bantam Plus*[™], 800- and 900-Series), and the Digital Interconnect and Cross-Connect Interface Systems (DIXI-1 and DIXI-3).

Vertical troughs are also supplied with certain ED-6C157-31 groups. ED-6C157-31 framework groups consist of various ED-6C157-30 individual groups assembled to facilitate the engineering and ordering of framework hardware needed to construct bays for specific applications.

How to Contact Us

- To find out more about **Carrier Apparatus** products, visit us on the web at: <http://cw.commscope.com/>
- For technical assistance regarding Carrier Apparatus products: contact your local CommScope account representative or CommScope technical support at 1-800-344-0223.
- Report any missing or damaged parts to CommScope customer service in Omaha, Nebraska, at 1-866-539-2795.

References

- 365-301-120, *800-Series and 900-Series DSX\1/1C, System Reference Guide*
- 365-301-125, *Bantam Plus DSX-1/1C, System Reference Guide*
- 365-301-121, *DIXI-1 System, System Reference Guide*
- 365-301-131, *DIXI-3 System, System Reference Guide*
- ED6C150-12—*900-NSD System, Engineering and Ordering*
- ED6C157-10—*DSX-1/1C and DIXI System, Framework Engineering, Hardware and Ordering*
- ED6C157-31—*DSX-1/1C, DIXI, and DSX-3R Systems, Framework Hardware Groups*
- ED6C156-10—*Bantam Plus DSX-1/1C System, Engineering and Ordering*
- ED6C155-10—*DIXI-1 System, Engineering and Ordering*
- ED6C155-11—*DIXI-3 System, Engineering and Ordering*

Tools Required

- Screw Starter
- Flat-blade 0.2-inch (5 mm) wide, 6-inch (152 mm) long screwdriver

Ordering Information

Material ID	Description
ED6C15730G17	One 2-inch (51 mm) W by 8-inch (203 mm) D single-loop half-vertical trough.
ED6C15730G18	One 4.5-inch (114 mm) W by 8-inch (203 mm) D single-loop vertical trough.
ED6C15730G20	One 4.5-inch (114 mm) W by 8-inch (203 mm) D double-loop vertical trough.
ED6C15730G36	One 5.9-inch (150 mm) W by 8-inch (203 mm) D full vertical trough for 5-inch (127 mm) bay gap.
ED6C15730G37	One 3.7-inch (94 mm) W by 8-inch (203 mm) D half vertical trough. No bay spacing.
ED6C15730G38	One 4.5-inch (114 mm) W by 5-inch (127 mm) D full vertical trough. No bay gap.
ED6C15730G39	One 6.9-inch (175 mm) W by 5-inch (127 mm) D full vertical trough for 2.5-inch (64 mm) bay gap.
ED6C15730G40	One 9.4-inch (239 mm) W by 5-inch (127 mm) D full vertical trough for 5-inch (127 mm) bay gap.
ED6C15730G41	One 6.9-inch (175 mm) W by 8-inch (203 mm) D full vertical trough for 2.5-inch (64 mm) bay gap.
ED6C15730G42	One 9.4-inch (239 mm) W by 8-inch (203 mm) D full vertical trough for 5-inch (127 mm) bay gap.
ED6C15730G44	One 4.5-inch (114 mm) W by 8-inch (203 mm) D full vertical trough for 5-inch (127 mm) bay gap.
ED6C15730G45	One 2.2-inch (56 mm) W by 5-inch (127 mm) D half vertical trough.
ED6C15730G46	One 2.2-inch (56 mm) W by 8-inch (203 mm) D half vertical trough.
ED6C15730G52	One 4.5-inch (114 mm) W by 5-inch (127 mm) D single-loop full vertical trough.
ED6C15730G53	One 2.2-inch (56 mm) W by 5-inch (127 mm) D single-loop half vertical trough.
ED6C15730G59	Two 4.5-inch (114 mm) W by 2-inch (51 mm) D by 2.5-inch (64 mm) H front vertical trough.
ED6C15730G60	Two 4.7-inch (120 mm) W by 4.90-inch (124 mm) D by 2.5-inch (64 mm) H rear vertical trough.
ED6C15730G79	Two 7.6-inch (193 mm) W by 4.55-inch (115 mm) D by 2.5-inch (64 mm) H rear vertical trough for 10-inch (254 mm) bay gap.
ED6C15730G84	One 7.7-inch (196 mm) W by 6.8-inch (173 mm) D large capacity vertical trough.
ED6C15730G89	One 12.7-inch (322 mm) W by 6.8-inch (173 mm) D large capacity vertical trough for 10-inch (254 mm) bay gap.
ED6C15730G90	One 7.7-inch (196 mm) W by 6.8-inch (173 mm) D two-piece large capacity vertical trough for 5-inch (127 mm) bay gap.
ED6C15730G91	One 12.7-inch (322 mm) W by 6.8-inch (173 mm) D two-piece large capacity vertical trough for 10-inch (254 mm) bay gap.
ED6C15730G100	One 4.5-inch (114 mm) W by 5-inch (127 mm) D by 2.5-inch (64 mm) H vertical trough for 10-inch (245 mm) bsay group. The U bracket is part of the assembly.
ED6C15730G101	One 6.88-inch (175 mm) W by 5-inch (127 mm) D by 2.5-inch (64 mm) H vertical trough for 10-inch (245 mm) end-of-lineup bay group. The U bracket is part of the assembly.
ED6C15730G103	One 4.5-inch (114 mm) W by 5-inch (127 mm) D by 2.5-inch (64 mm) H rear vertical trough. The U bracket is part of the assembly.

INSTALLING HALF-VERTICAL TROUGHS AND FULL-VERTICAL TROUGHS

Figure 2 shows half-vertical and full-vertical trough installation for 900-Series DSX and DIXI-1. Figure 3 shows half-vertical and full-vertical trough installation for 800-Series DSX and *Bantam Plus*.

1. Locate the mounting hole positions for the vertical troughs.
2. Fasten each half-vertical trough to the adjacent frames with two No. 12-24 by 3/8-inch long screws.
3. Fasten each full-vertical trough to the adjacent frames with four No. 12-24 by 3/8-inch long screws.

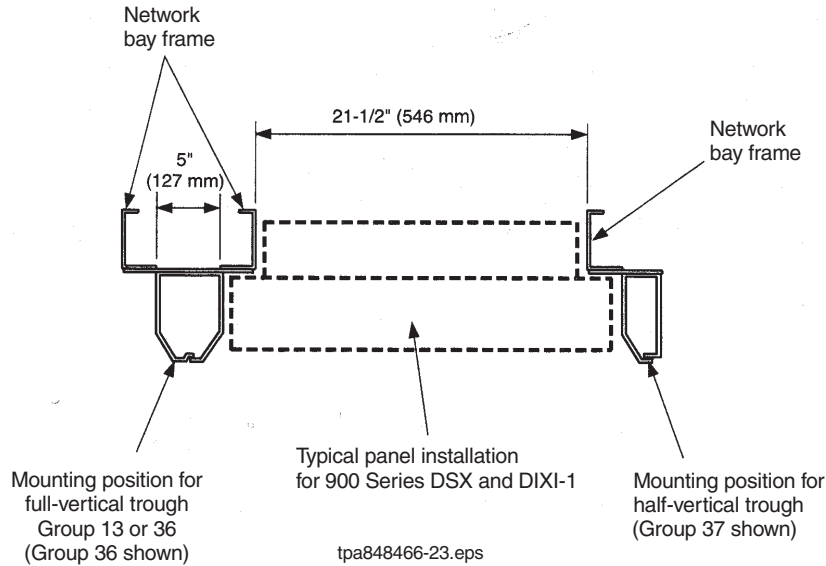


Figure 2. Installing Half- and Full-Vertical Troughs—900-Series DSX and DIXI-1

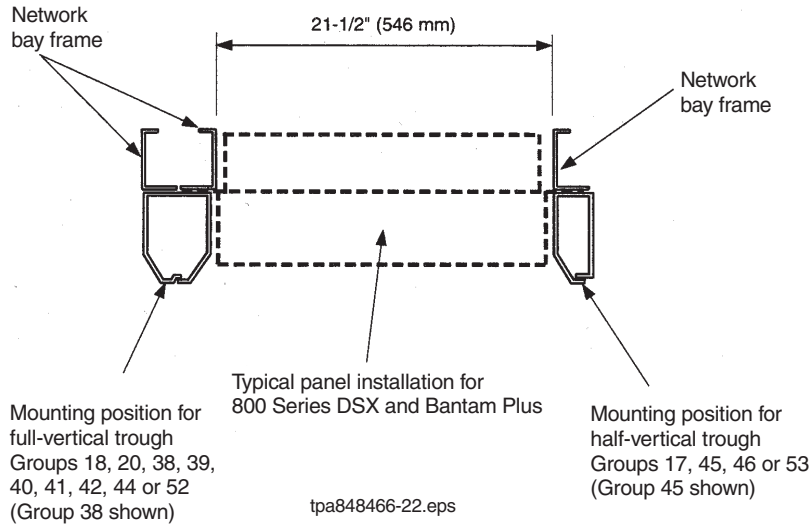


Figure 3. Installing Half- and Full-Vertical Troughs—800-Series DSX and *Bantam Plus*™

GROUP 59 FRONT AND GROUP 60 REAR VERTICAL TROUGH INSTALLATION

Refer to Figure 4 and Figure 5 on page 6.

1. Fasten Group 60 stand-off brackets to bay frame with two No.12-24 by 3/8-inch long screws per bracket.
2. Fasten Group 60 rear vertical troughs to stand-off bracket with two No. 12-24 by 3/8-inch long screws per trough.
3. Fasten Group 59 front vertical troughs to bay frame with two No. 12-24 by 3/8-inch long screws per trough.

NOTE:

Do not fasten front vertical troughs to bay frame until DIXI-3 panels have been installed. Use two front and two rear vertical troughs per panel.

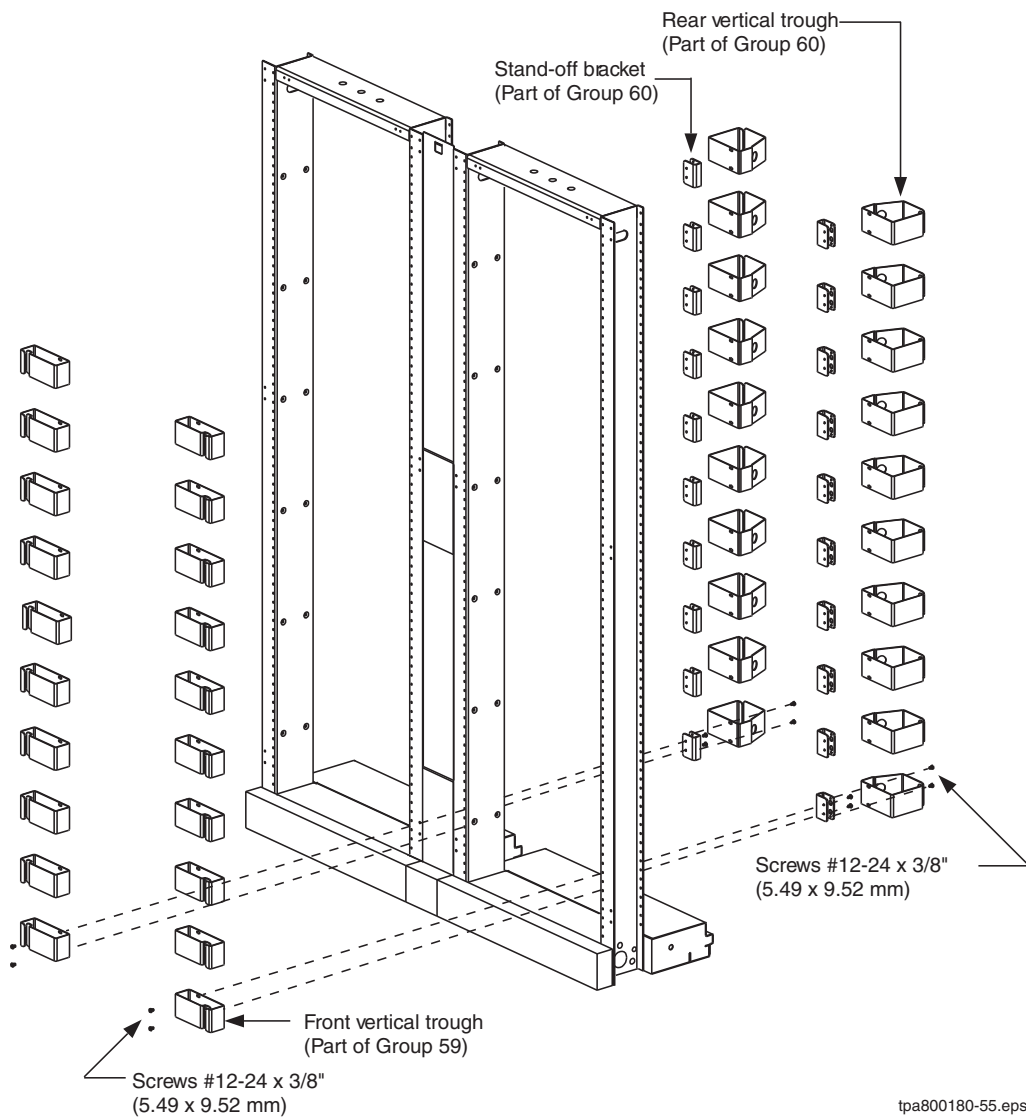


Figure 4. Installing the Vertical Troughs For Group 59 Front and Group 60 Rear

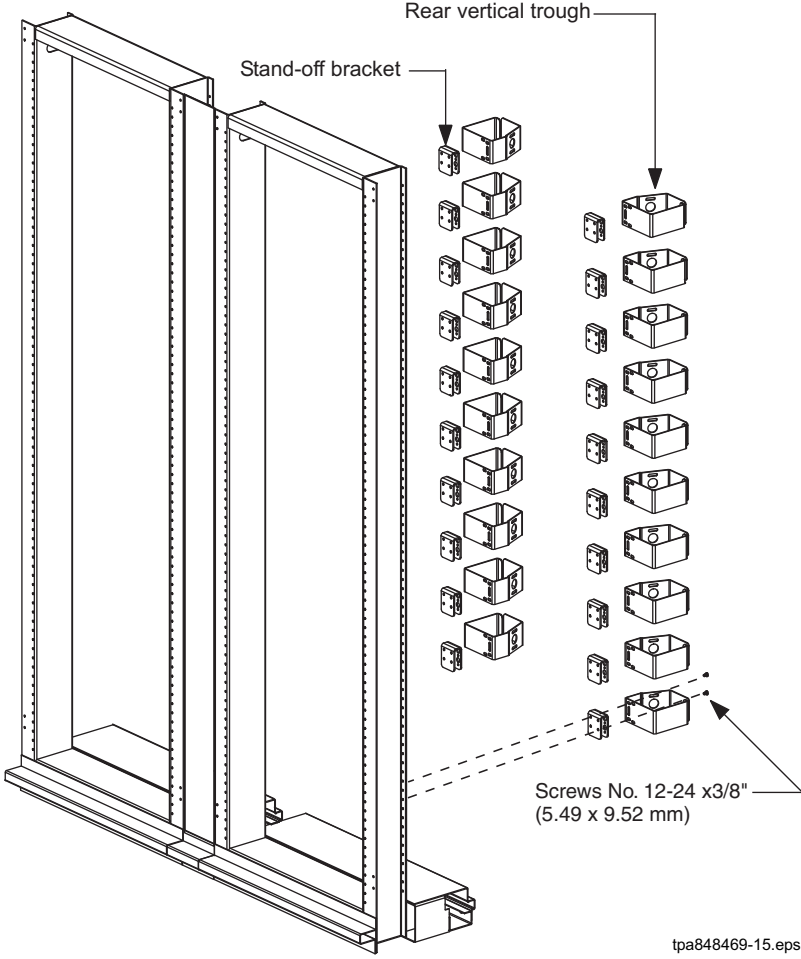


Figure 5. Installing the Rear Vertical Trough for Groups 100, 101, and 103

GROUP 90 AND 91 TWO-PIECE TROUGH INSTALLATION

Refer to Figure 6.

1. Fasten Group 90 or 91 left side bracket weld assembly to bay frame with two No. 12-24 by 3/8-inch long screws, as shown in Figure 6.
2. Place Group 90 or 91 right side bracket over the No. 1/4-20 by 3/8-inch screw and slide to the left until pin engages with hole in left side bracket, then tighten screw.

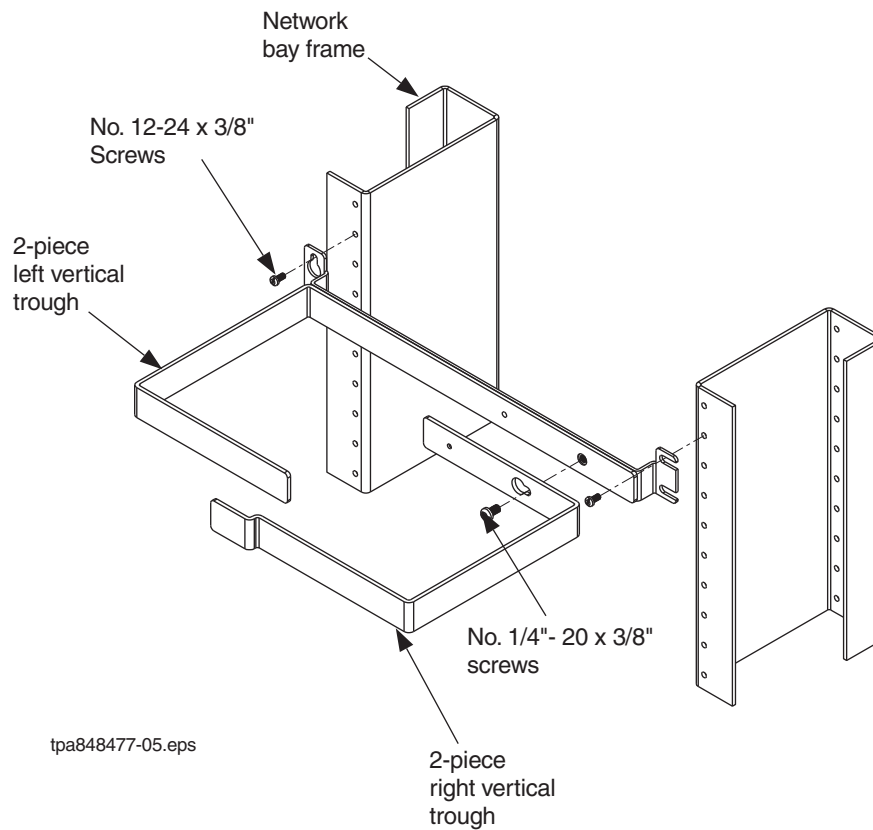


Figure 6. Installing Two-Piece Vertical Trough