

**Bantam Plus DSX-1/1C System
Replacement Procedures For Modular
Staggered-Jack Rear Cabled/
Front Cross-Connected Circuit/Module**

General

This instruction sheet provides procedures for installing and replacing the individual circuits and jack modules of the Bantam Plus DSX-1/1C Modular, Staggered-Jack Rear/Front panels. The procedures for installing and cabling Rear/Front panels and their hardware, such as panel brackets, adapter brackets, and designation labels are provided in 365-301-125-13.

Equipment Description

The Bantam Plus DSX-1/1C Modular, Staggered Jack Panels are available with a rear cabled/front cross-connected configuration. The jack panels are intended for the termination, cross-connecting, monitoring, and rerouting/patching of DS-1 (1.544 Mb/s) and/or DS-1C (3.152 Mb/s) digital signals. There are two panel sizes available:

- 23-Inch (584 mm)—Mounts in a 23-inch (584 mm) Unequal Flange Frame. Accommodates a maximum of 21 four-circuit jack modules (84 circuits total).
- Universal panel—Mounts in either a 19-inch (482 mm) Relay Rack or 23-Inch (584 mm) Unequal Flange Frame and accommodates a maximum of 16 four-circuit jack modules (64 circuits total).

The 84-, 64-, and 56-circuit panels equipped with four-circuit jack modules (Four Packs) are available. See the "Ordering Information" table for a complete list of available panels. In addition to these equipped panels, there are 23-inch (584 mm) and 19-inch (482 mm) empty (blank) panels. These "build-your-own" panels may be equipped with separately ordered four-circuit jack modules to customize the panels for specific applications.

Each jack circuit is comprised of a Light-Emitting Diode (LED), *IN*, *OUT*, and *MON* (Monitor) jacks. The two types of jack circuits, *Circuit 1-ODD* (white) and *Circuit 2-EVEN* (gray), are identical except for their color and the staggered positions of their respective jacks, hence, the name *Staggered-Jack*. The jack circuits are color coded to facilitate ordering and replacement and operational procedures. Each jack module is equipped with four circuits (two of each jack circuit type), hence, the term *Four-Pack* (see Figure 1).

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

- 365-301-125 Bantam Plus *DSX-1/1C System Reference Guide, Planning Engineering, Installation, Operation and Maintenance*
- 365-301-125-13 Bantam Plus *DSX-1/1C System, Modular, Staggered-Jack Panels, Installation and Cabling*
- ED-6C156-10, *DSX-1/1C Typical Equipment Layout*
- ED-6C157-10, *Digital Cross-Connect and Interconnect Framework Hardware Engineering and Ordering*
- ED-6C157-30, *Digital Cross-Connect and Interconnect Framework Hardware Groups*
- ED-6C157-31, *Digital Cross-Connect and Interconnect Framework Hardware Groups*
- T-97814-30, Bantam Plus—*Interconnection Circuit*

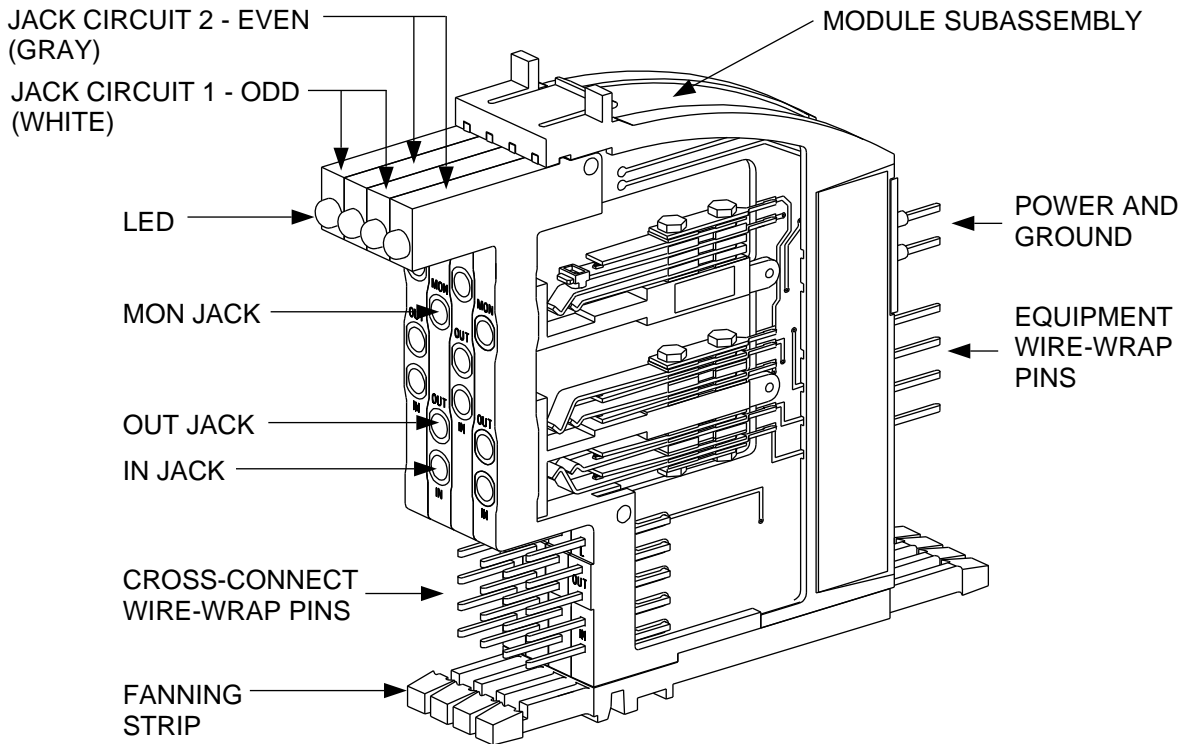


Figure 1. Bantam Plus Staggered-Jack 4-Circuit Jack Module (Four Pack)

Tools Required

- Cable stripper
- Cable ties and/or lacing cord
- Spudger
- Flat-blade 0.25-inch (6 mm) wide screwdriver, 6 inches (152 mm) long
- Screw-starter
- Wire-wrap gun
- Wire stripper

Ordering Information

Apparatus Code	Material ID	Description
DSX1-R1-84-F/6SB23/EMP	106 948 870	23-inch (584 mm) blank panel, accepts a maximum of 21 Four-Packs.
DSX1-R1-84-F/6SB23	106 918 972	Standard 84-circuit panel, with 100-ohm jack circuits and vertical troughs.
DSX1-R1-84-F6SB23/BAS	107 121 162	Base 84-circuit panel, with 100-ohm jack circuits, no vertical troughs.
DSX1-R1-64-F/6SB23	107 144 511	64-circuits 23-inch (584 mm) panel, with 100-ohm jack circuits, vertical troughs and five filler panels.
DSX1-R1-64-F/6SBU/EMP	106 949 134	Universal blank panel, mounts in 19-inch (482 mm) frame, accepts a maximum of 16 Four-Packs.
DSX1-R1-64-F/SBU	106 948 946	64-circuit Universal panel, with 100-ohm jack circuits and vertical troughs.
DSX1-R1-56-F/6SBU	106 949 118	56-circuit Universal panel, with 100-ohm jack circuits, vertical troughs and seven filler panels.
DSX1-R1-56-F/6SB23	107 144 503	56-circuit 23-inch (584 mm) panel, with 100-ohm jack circuits, vertical troughs and seven filler panels.
DSX1-MFP-4A	106 972 144	Filler panel hardware, for empty Four-Pack slots.
DSX1-R1-F/SBC1	106 949 183	Circuit 1-ODD (WHITE), 100-ohms*
DSX1-R1-F/SBC2	106 949 191	Circuit 1-EVEN (GRAY), 100-ohms*
DSX1B1-84SB	107 486 359	Package containing five sets of die-cut circuit number labels for modular Bantam staggered-jack rear/front panels.
DSX1C1-84SB	107 486 367	Kit containing five each of the following: Label holder for vertical troughs, paper label sets 1-42, 43-84, plastic label covers.
DSX1-R1-4-F/SBM1	106 949 241	Four-Circuit Jack Module Assembly (Four-Pack), 100-ohms.
ED 6C157-30, Group 38	601 423 551	2-inch W by 5-inch D (51 mm by 127 mm) half vertical trough used with no bay spacing.
ED 6C157-30, Group 40	601 423 577	4-inch W by 5-inch D (102 mm by 127 mm) full vertical trough used with 5-inch (127 mm) bay spacing.
* The individual jack circuits are intended for field replacement of existing circuits only. Do not order for new applications		

INSTALLING AND REMOVING FOUR-CIRCUIT JACK MODULE (FOUR-PACK)

Installing Four-Circuit Jack Module (Four-Pack):

Note:

This procedure assumes that all cabling and cross-connect wiring has been completed. If the cabling/wiring is incomplete, refer to 365-301-125-13 for wiring and cabling instructions.

1. Place slot at bottom of module's fanning strip onto sawtooth ledge of panel mounting bracket.
2. Rotate module upward into opening of bracket until latch on module *snap-locks* into bracket.
3. Verify module is properly secured into panel bracket by grasping module at top and pulling forward with moderate force (approximately 10 lbs. [4.5 kg]).
4. Repeat Steps 1 through 3 for additional modules.

Removing Four-Circuit Jack Module (Four-Pack):

1. Insert flat-blade screwdriver into module's slot (see Figure 2) until blade contacts stop at back of latch.
2. Twist screwdriver 90 degrees and rotate module approximately 180 degrees forward.
3. Lift module from panel and hang module on label holder.

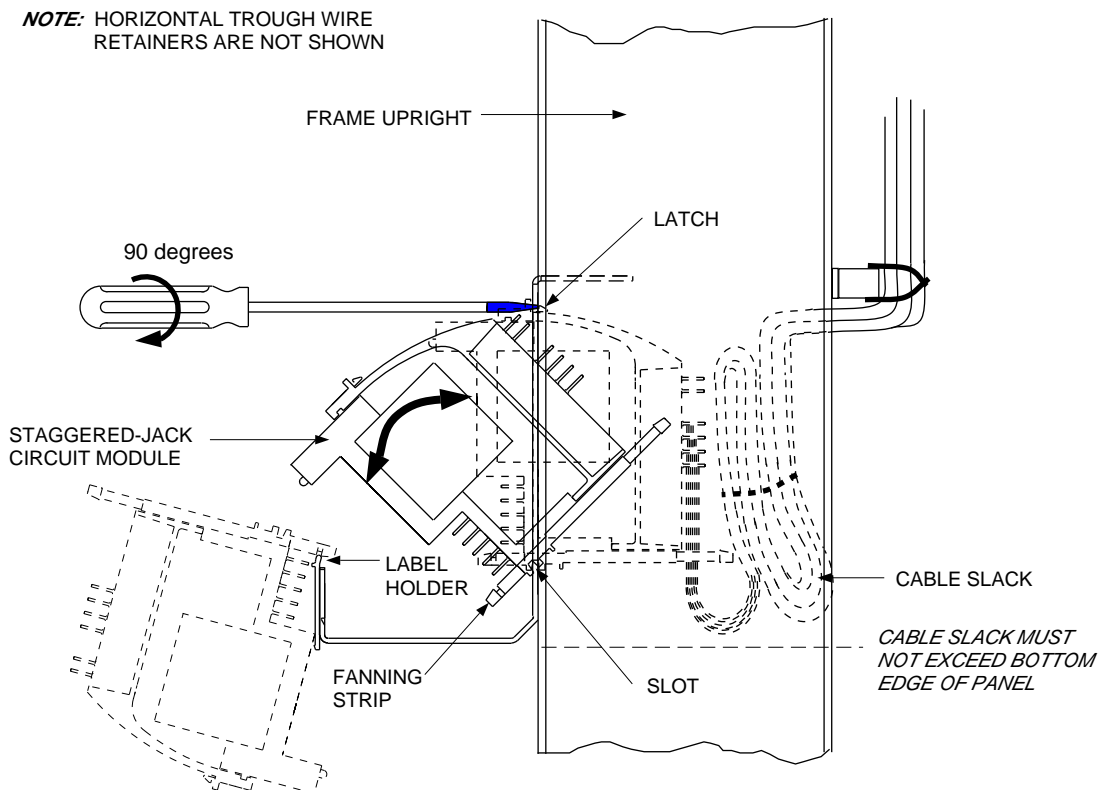


Figure 2. Installing and Removing 4-Circuit Jack Module (Four-Pack)

INSTALLING AND REMOVING INDIVIDUAL JACK CIRCUITS

Note:

Module must be removed from the panel to remove or install the individual jack circuits. If this requirement has not been met, refer to the procedure "INSTALLING AND REMOVING FOUR-CIRCUIT JACK MODULE (FOUR-PACK)" on page 4.

Removing Jack Circuits:

1. Disconnect wiring from wire-wrap pins.
2. Remove retaining screw located on bottom of the module's fanning strip (see Figure 3 on page 5).
3. Lift top edge of module subassembly and slide circuit from module.

Installing Jack Circuits:

Note:

Individual circuit types (*Circuit 1-ODD [WHITE]* and *Circuit 2-EVEN [GRAY]*) must be alternated when installing them into a 4-circuit jack module. *Do not attempt to replace a WHITE jack circuit with a GRAY or a GRAY jack circuit with a WHITE.*

1. Insert circuit into desired slot in module subassembly until circuit *snap-locks* into place (see Figure 3).
2. Install retaining screw to secure circuit in place.
3. Connect wiring to wire-wrap pins.
4. Install and rotate module upward until latch on module snap-locks into place.
5. Verify that the module is secure in the panel by grasping the top of the module and pulling forward with a moderate force (approximately 10 lbs. [4.5 kg]).

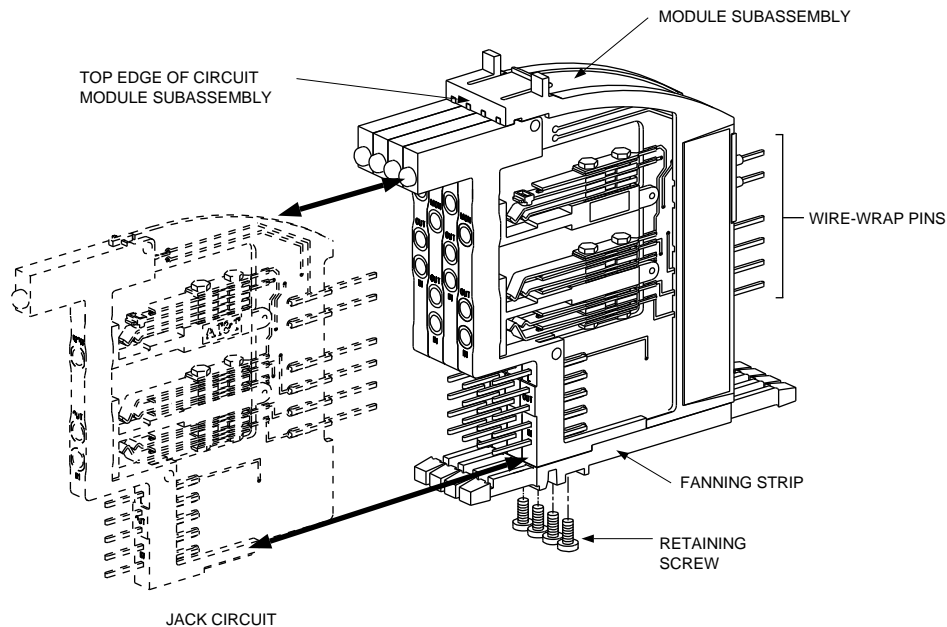


Figure 3. Installing and Removing Jack Circuit