

General

This instruction sheet explains the procedures to be followed for installing the 800- and 900-Series DSX System Interbay Patch Panel.

Interbay patching circuits are provided for both the 800-Series and 900-Series DSX systems by the 800G1-D1 panel. This panel is equipped with three 800D-type connecting blocks, providing 60 interbay patch circuits. The panel requires 6 inches of mounting space.

CAUTION:

Sprays and cleaners can damage plastic parts. Do not apply any sprays or cleaners to this product that have not been specifically approved. Be especially careful not to expose any plastic parts to chemicals containing trichlorethane, which is often found in cleaning fluids and lubricant sprays.

Equipment Description

Interbay Patch circuits are daisy-chained between bays and lineups to allow patching across aisles and along the length of a lineup. Interbay patch panels are used in single line-up DSX systems that are six bays in length or longer, and in all multiple line-up systems. Panels are usually placed in every fourth bay.

Connectorized cables interconnect the interbay patch panels. Each panel is supplied with miniature ribbon type connectors which are field-applied to 1249-type cables to construct double-ended connectorized cables of proper lengths. The last *IN*, *OUT*, and *BUSY* connectors on the last patch panel in the daisy-chain circuit are left unconnected.

The procedures described in this instruction sheet assume that the following have been completed:

- The placement of the Interbay Patch Panel has been engineered per the recommendations of ED-6C150-10 or ED-6C150-11.
- All cabling has been installed, connectorized, and is hanging ready for assembly to the interbay patch blocks per ED-6C151 cabling document.
- The cable is 1249-type, 20 pair, and field-connectorized with 25-pair connectors.

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 Systems, System Reference Guide*

Material ID 845 831 304
Instruction Sheet

Tools Required

- Cable stripper
- Spudger
- Screw-starter
- Wire stripper
- Wire wrap gun with a minimum 5-inch (127 mm) extension bit.
- Cable ties and/or lacing cord
- Flat blade 0.25-inch (6 mm) wide screwdriver, 6 inches (152 mm) long
- Flat blade 0.125-inch (3 mm) wide screwdriver
- Terminating Plugs

STEP 1—MOUNT 800G1-D1 ASSEMBLY

Refer to Figure 1.

1. Determine mounting position. The recommended position is 33.5 inches (851 mm) from the floor to the bottom of the shelf mounting bracket.
2. Mount the 800G1-C2 panel bracket on frame and secure with screws provided.
3. Mount the 800D1-A1 block in the 800G1-D1 panel and secure with screws provided.

⇒ NOTE:

The Interbay Patch Panel consists of three 20 circuit block modules. For clarity, only one module is shown in Figure 1.

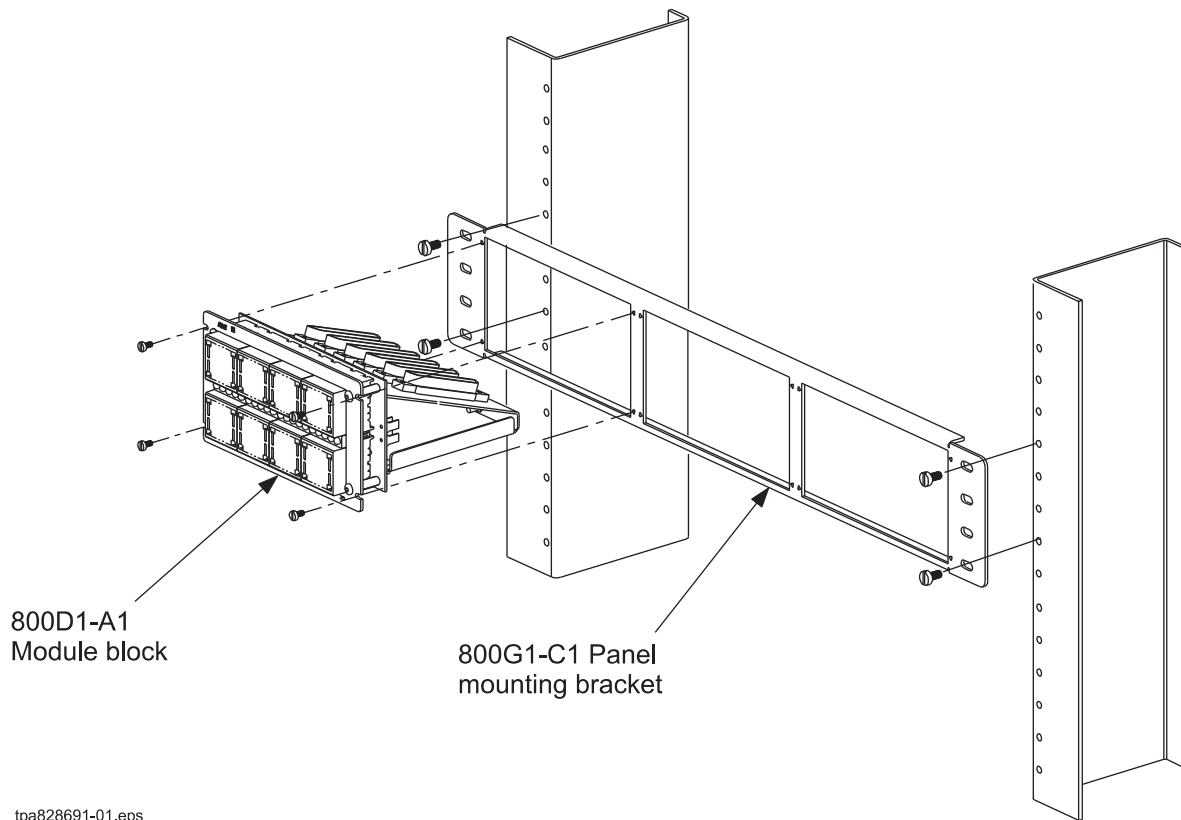


Figure 1. 800G1-D1 Interbay Patch Panel Assembly

STEP 2—CONNECT CABLES

Refer to Figure 2, Table 1 on page 5, and Figure 3 on page 6.

NOTE:

In Steps 1 and 2 below, *END* panels are identified as panels at the ends of a daisy-chain. The "1 LINE-UP COMPLEX" shown at the top of Figure 2 represents five Interbay Patch Panels daisy-chained together. The blocks in bays 4 and 20 are the ends of a daisy-chain; they are *END* panels.

1. Connect six cables to all of the connecting blocks with the exception of the *END* panels.
2. Connect three cables to all *END* panels, and leave the connector positions unused. Table 1 and Figure 3 give the recommended location of all *END* panels and unused connector positions.

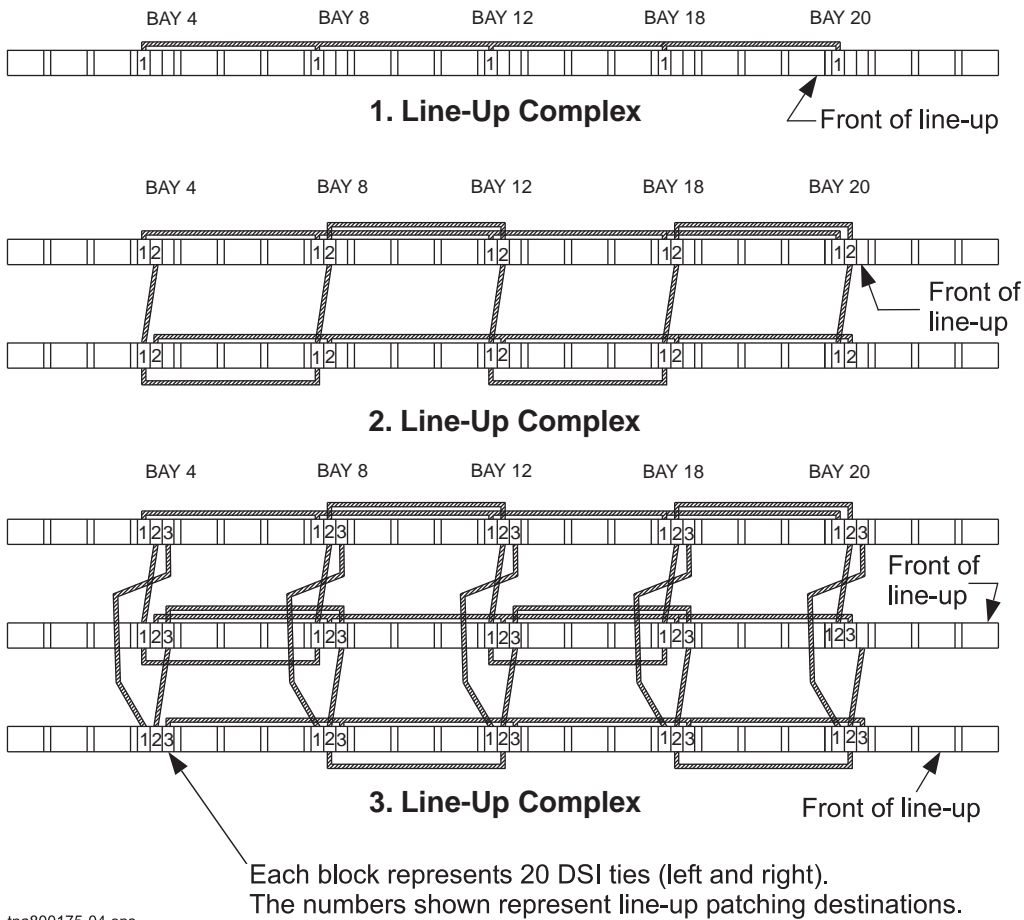


Figure 2. Cable Connections

UNUSED CONNECTOR POSITIONS IN THE END INTERBAY PATCH PANELS

⇒ NOTE:

The red caps that are supplied with the connecting block must be left in place in the unused In, Out, and Busy connector positions at the end panel positions.

⇒ NOTE:

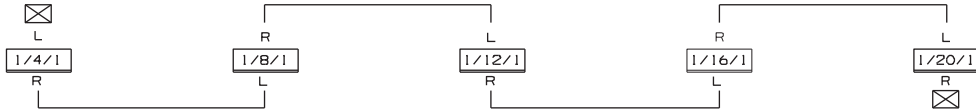
Table 1 assumes that the end line-up consists of at least 20 bays (see Figure 2 on page 4). For line-ups of less than 20 bays, substitute the highest numbered bay with interbay patch panels for bay 20.

Table 1: Unused Connector Positions

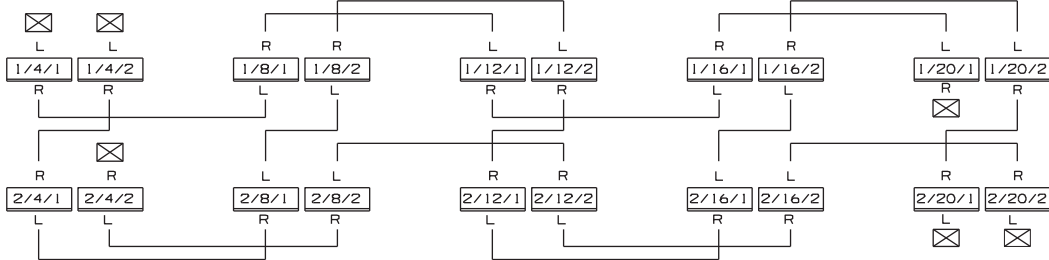
SINGLE LINE-UP				DOUBLE LINE-UP				TRIPLE LINE-UP			
Lineup	Bay	Block	In, Out & Busy	Lineup	Bay	Block	In, Out & Busy	Lineup	Bay	Block	In, Out & Busy
1	4	1	LEFT	1	4	1	LEFT	1	4	1	LEFT
1	20	1	RIGHT	1	20	1	RIGHT	1	20	1	RIGHT
				1	4	2	LEFT	1	4	2	LEFT
				2	4	2	RIGHT	2	4	2	RIGHT
				2	20	1	LEFT	2	20	1	LEFT
				2	20	2	LEFT	2	20	2	LEFT
								1	4	3	LEFT
								3	4	1	LEFT
								1	8	3	LEFT
								3	8	1	LEFT
								1	12	3	LEFT
								3	12	1	LEFT
								1	16	3	LEFT
								3	16	1	LEFT
								1	20	3	LEFT
								3	20	1	LEFT
								3	4	2	LEFT
								2	20	3	LEFT
								3	4	3	LEFT
								3	20	3	RIGHT

INTERBAY PATCH CABLING—1, 2, and 3 LINE-UP COMPLEXES

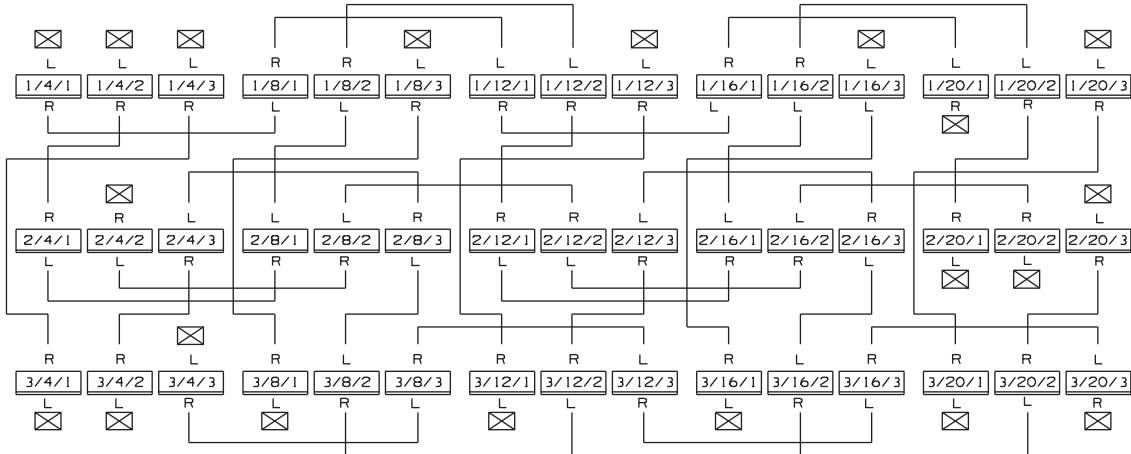
1. Lineup Complex Interbay Patch Cabling



2. Lineup Complex Interbay Patch Cabling



3. Lineup Complex Interbay Patch Cabling



- Notes:
1. - In, Out, and Busy connection positions left unconnected.
 2. Numbers in boxes define the lineup/bay/block number.
 3. Double line shows front of bay.

tpa800175-03.eps

Figure 3. Interbay Patch Cabling

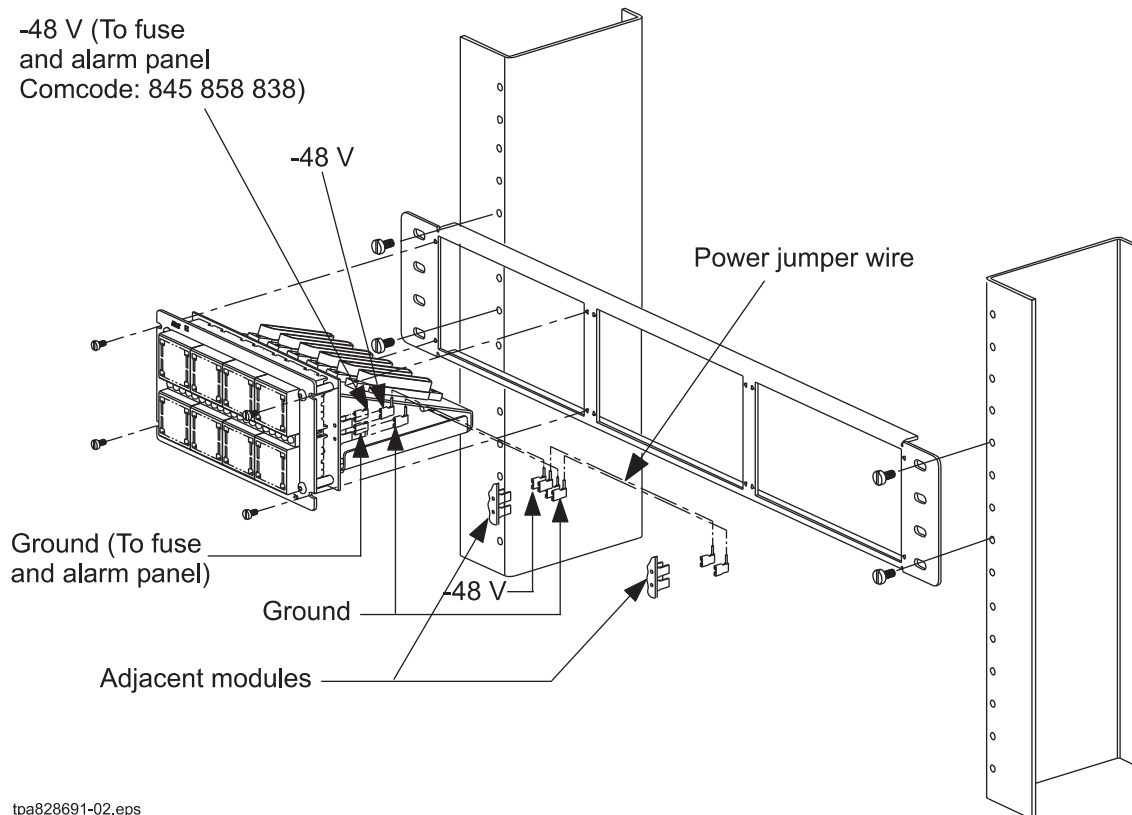
STEP 3—CONNECT POWER

Refer to Figure 4.

➤ NOTE:

Jumper connecting -48 V and GND (ground) to the other connecting blocks are preinstalled at the factory.

1. Connect two 10-foot (3041 mm) jumpers provided in the carton to the -48 V and ground tabs on the rear side of the printed wiring board adjacent to circuit 20 of the first block.
2. Cut jumpers to an adequate length, including slack and wire wrap, to the terminals of the Fuse and Alarm Panel.



tpa828691-02.eps

Figure 4. Connecting Power