DSX-1 Bridging Regenerator Cord Rollover Procedure Bantam-Type To 800-Type

365-301-122-2
Issue 5, February 2004
Material ID 847 178 506

General

This instruction sheet describes how to use the Bridging Regenerator Cord in rolling an active DSX-1 cross-connect circuit. The cords described in this instruction sheet are designed for use with Bantam-type to 800-type panels for both input and output (respectively).

How to Contact Us

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- 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 Manual
- 365-301-125, Bantam Plus DSX-1/1C System Reference Guide

Ordering Information

Material ID	Description
106 976 699	30-foot (9.1 m) regenerator cord with Bantam-type input and 800-type output
107 050 346	60-foot (18.2 m) regenerator cord with Bantam-type input and 800-type output

STEP 1

1. Prepare (daisy-chain) 200-pair 89-type block(s) (Material ID 104 164 835) to distribute –48 V and ground. The 89-type blocks provide power to the Bridging Regenerator Cords (Figure 1).
2. Temporarily mount 89-type block(s) in bay(s) where patching is required; use one block for every two bays.
3. Connect block to –48 V and ground from the fuse and alarm panel in accordance with local procedures. Minimum fuse requirement is 5 amps.
4. Insert labeled power plug onto wire-wrap pins of 89-type block. Check Power Light Emitting Diode (LED) on Bridging Regenerator Cord for lighted green (on) indication. If the LED does not light, rotate power plug 180 degrees and check again.
5. Insert Bridging Regenerator Cord input plug into equipment A MON jack. Check Power, Signal, and Bipolar Violation (BPV) LEDs for operation. Green LEDs should be lighted and yellow LED should be off. **Do not proceed unless both green LEDs are lighted.**

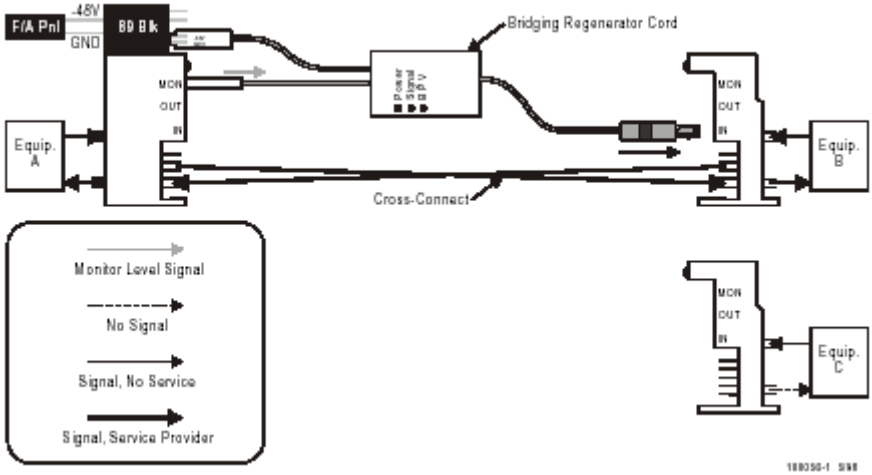

Figure 1.

STEP 2

Insert Bridging Regenerator Cord output plug into equipment B IN jack (Figure 2). This specialized output plug completes the circuit between equipment A MON jack and equipment B IN jack. It also terminates one side of the cross-connect (equipment A OUT to equipment B IN) into a matching impedance of 100 ohms.

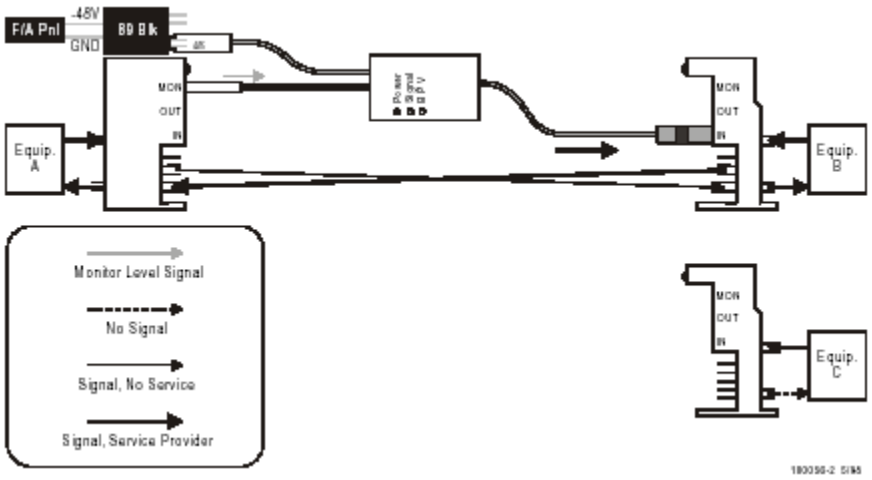

Figure 2.

STEP 3

Insert a 100-ohm terminating plug (DSX1TP1-100BNA Material ID 108 578 651) into equipment A OUT jack (Figure 3). This provides a matching impedance of 100 ohms to equipment A and disconnects the equipment A OUT to equipment B IN cross-connect.

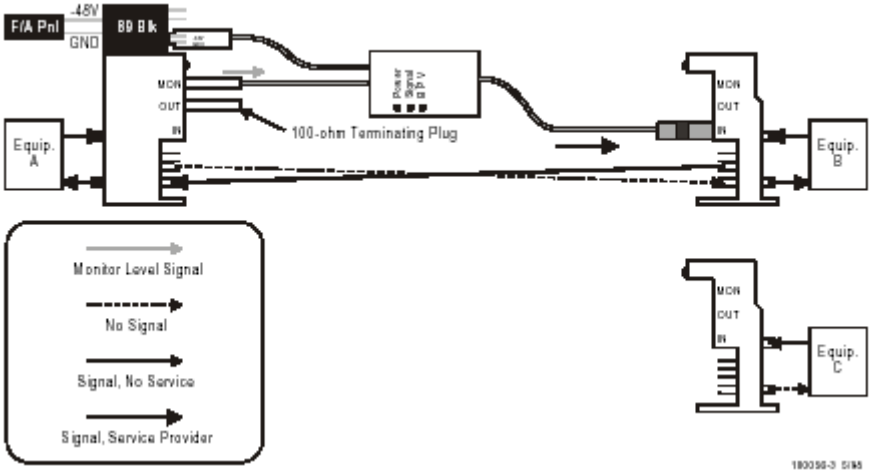

Figure 3.

STEP 4

Connect equipment B OUT jack to equipment A IN jack using a single hybrid adapter cord (bantam to 800, Figure 4). Both sides of the cross-connect between equipment A and equipment B are now disconnected and can be moved or rerouted to equipment C.

Bantam-type to 800-type Adapter Cords are listed in Table 1.

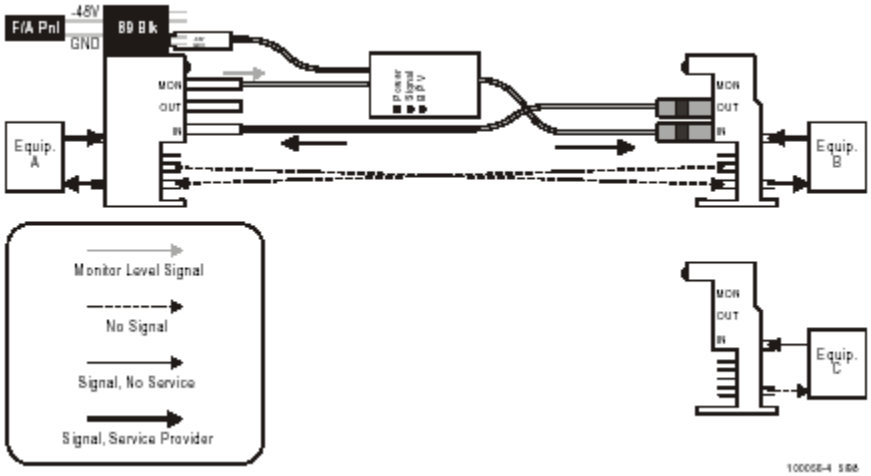

Figure 4.

Table 1. Bantam-Type to 800-Type Patch Cords

Material ID	Length
104 377 510	2 feet (0.6m)
104 366 935	6 feet (1.8m)
104 366 927	12 feet (3.7m)
104 409 834	25 feet(7.6m)

STEP 5

Remove existing cross-connect and run a new cross-connect from equipment A to equipment C (Figure 5).

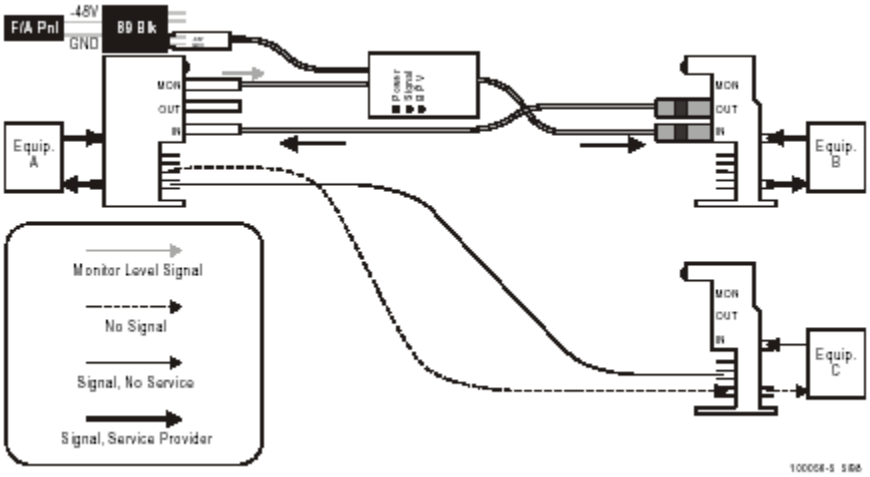

Figure 5.

STEP 6

Remove 100-ohm terminating plug from equipment A OUT jack (Figure 6). Equipment A is now transmitting duplicate signals to equipment B, via Bridging Regenerator Cord, and to equipment C via cross-connect. Input signal is transmitted to equipment A from equipment B via the hybrid cord.

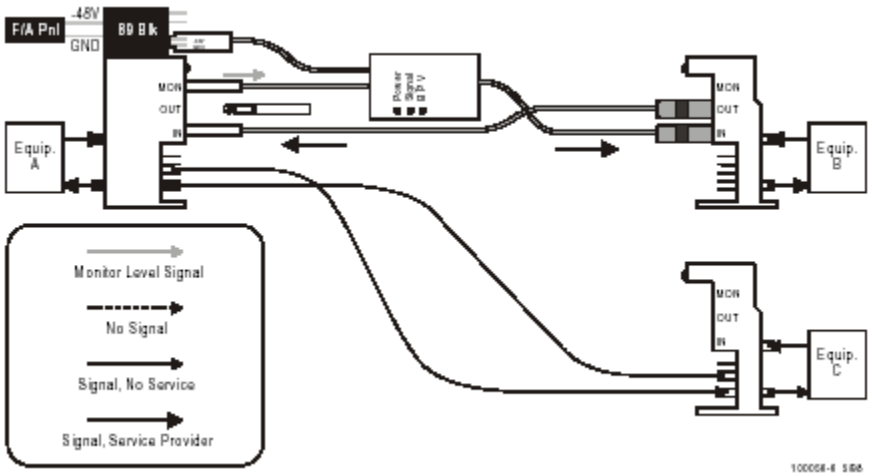

Figure 6.

STEP 7

Remove the hybrid cord from equipment A IN jack. Equipment A is now working with equipment C through the cross-connect (Figure 7)

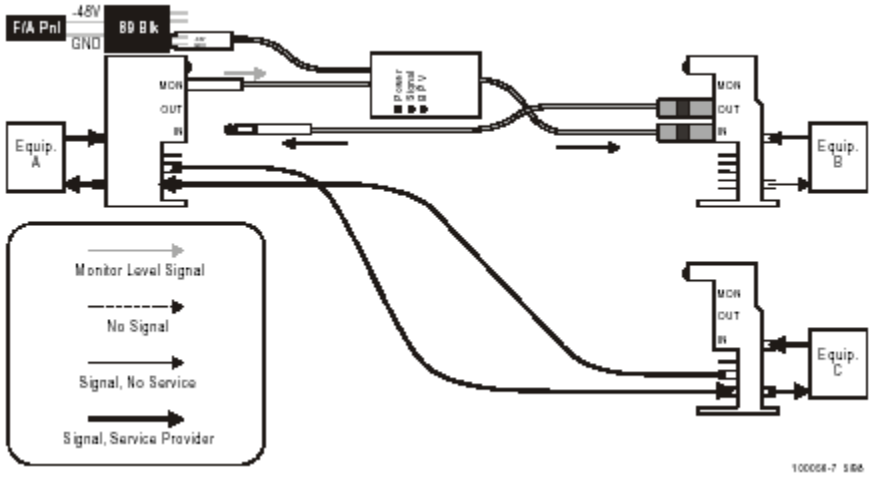

Figure 7.

STEP 8

Remove remaining plugs and cords (in any order) to complete the rollover (Figure 8).

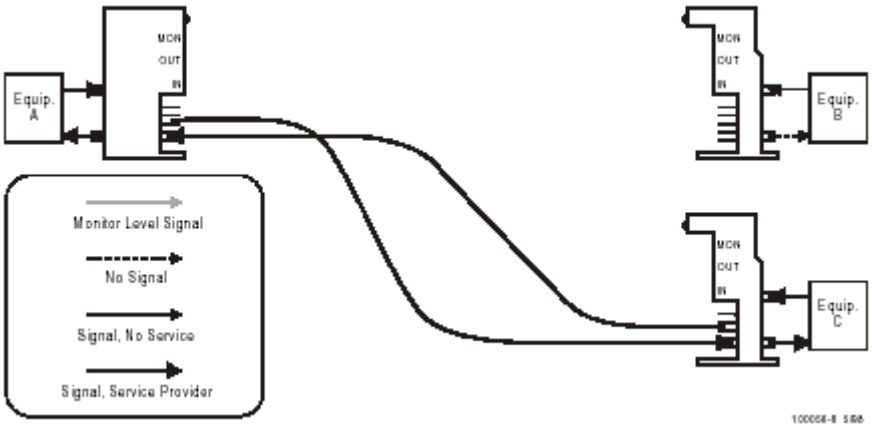

Figure 8.