

DSX-1 Cross-Connect Operational Procedures

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INTRODUCTION

This manual provides operation procedures for use with any ADC DSX-1 cross-connect system. The procedures are illustrated with a generic circuit diagram that can be applied to any DSX-1 circuit module. The diagram indicates that some features such as a Monitor In (MON IN) jack may or may not be present. Also, the diagrams show tracer LEDs on the cross-connect side of the circuit modules only; in some applications LEDs are present on both front and rear of the circuit modules.

Revision History

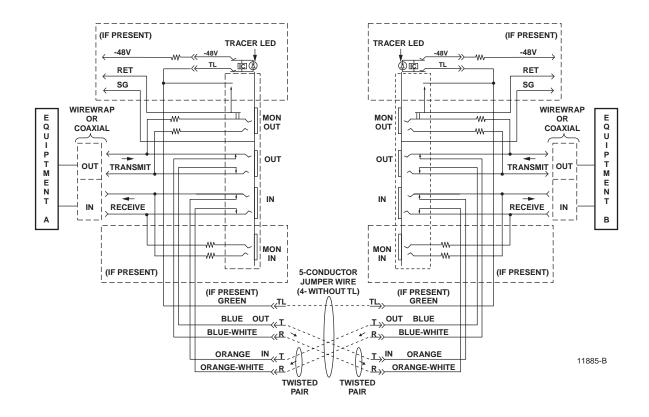
ISSUE	DATE	REASON FOR CHANGE
Issue 1	1/99	Original.

Trademark Information

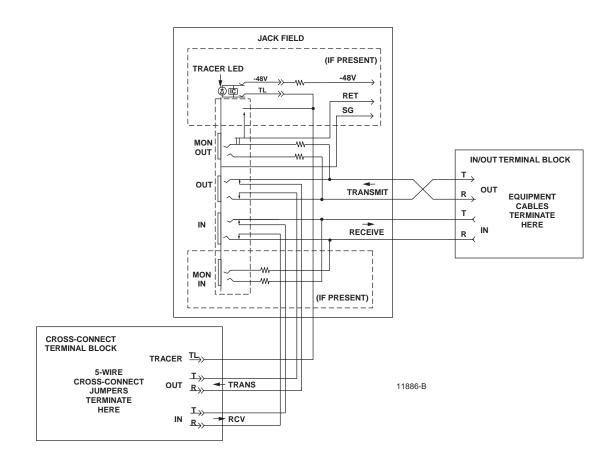
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Related Publications

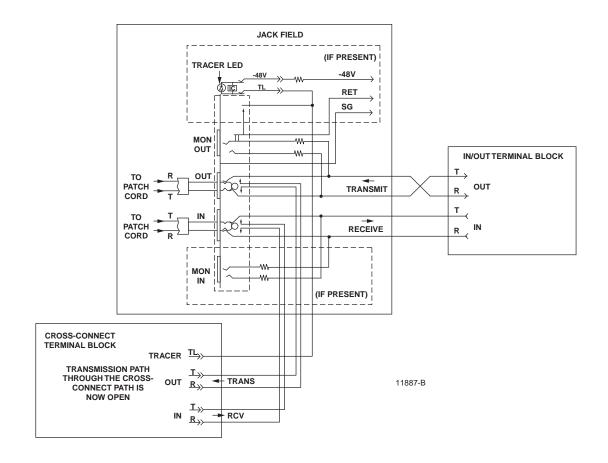
For a system-specific circuit diagram and other system-specific maintenance and operation, refer to the system planning and application guide for the particular system being used.



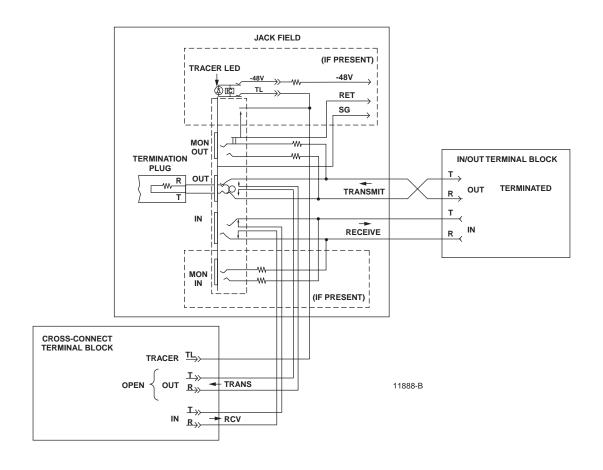
TRANSMISSION SIGNAL DIRECTION



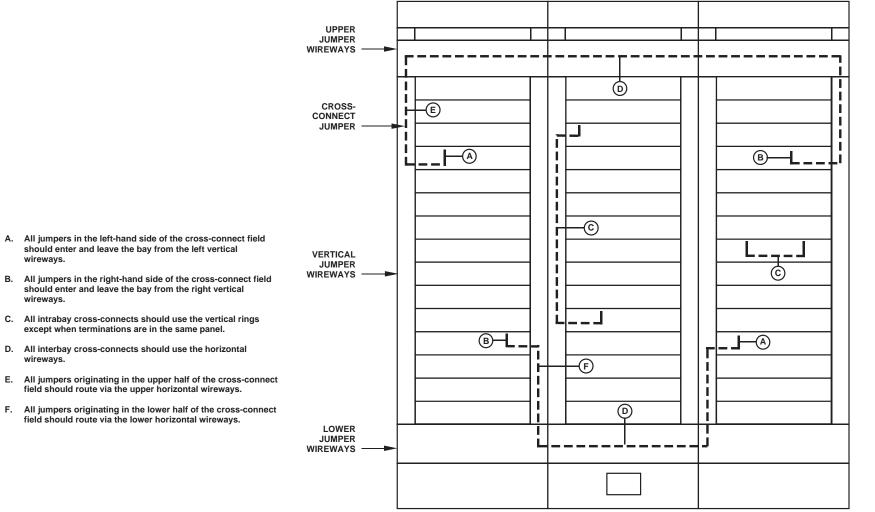
TRANSMISSION PATH—NORMAL



TRANSMISSION PATH—PATCHED



TRANSMISSION PATH—TERMINATED



- RECOMMENDED CROSS-CONNECT ROUTING

wireways.

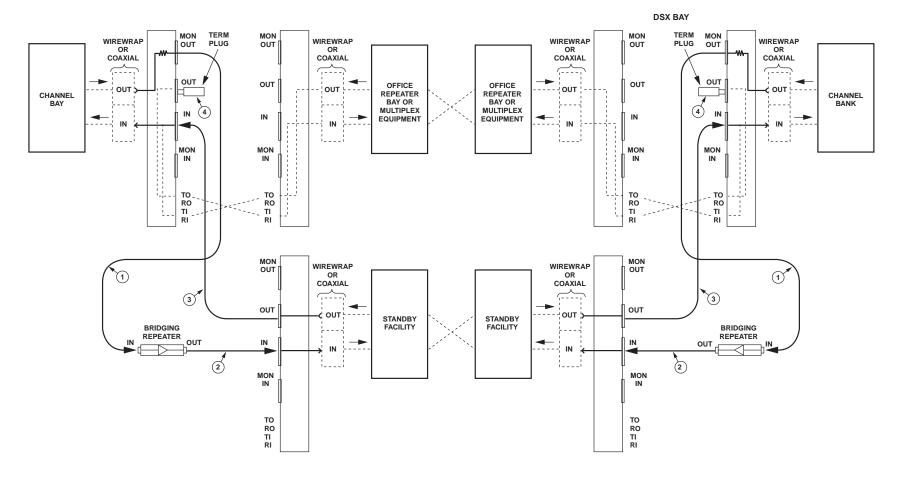
wireways.

wireways.

C. All intrabay cross-connects should use the vertical rings except when terminations are in the same panel.

D. All interbay cross-connects should use the horizontal

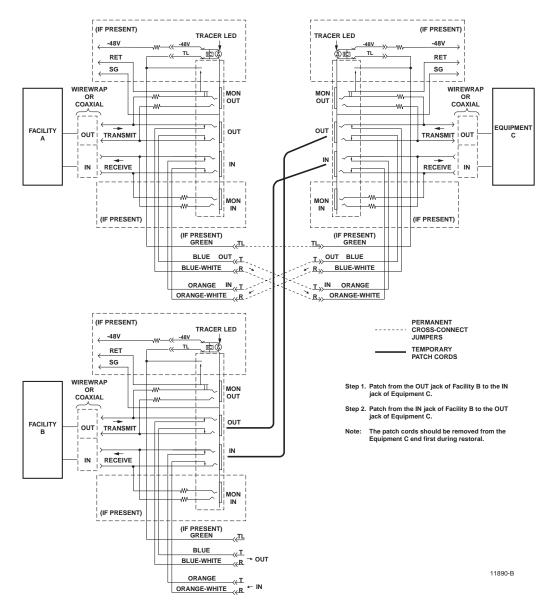
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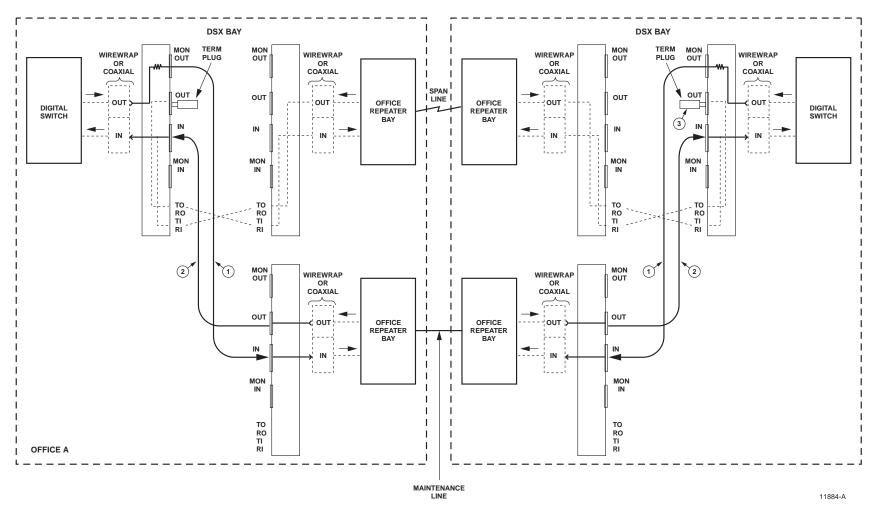
- Step 1. At each office, patch from the DSX MON OUT of the Equipment to the IN jack of a Bridging Repeater.
- Step 2. At each office, patch from the OUT jack of the Bridging Repeater to the DSX IN jack of the Standby Facility.
- Note: Steps 1 and 2 must be completed at each office before proceeding to Step 3.
- Step 3. At each office, patch from the OUT jack of the Standby Facility to the DSX IN jack of the Equipment. The patch cord must be placed in the Standby Facility DSX OUT jack first to avoid interrupting service.
- Step 4. Terminate the DSX OUT jacks at each office.
- Note: The patch cords should be removed from the Equipment end first during restoral.

IN-SERVICE PATCHING

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OUT-OF-SERVICE PATCHING

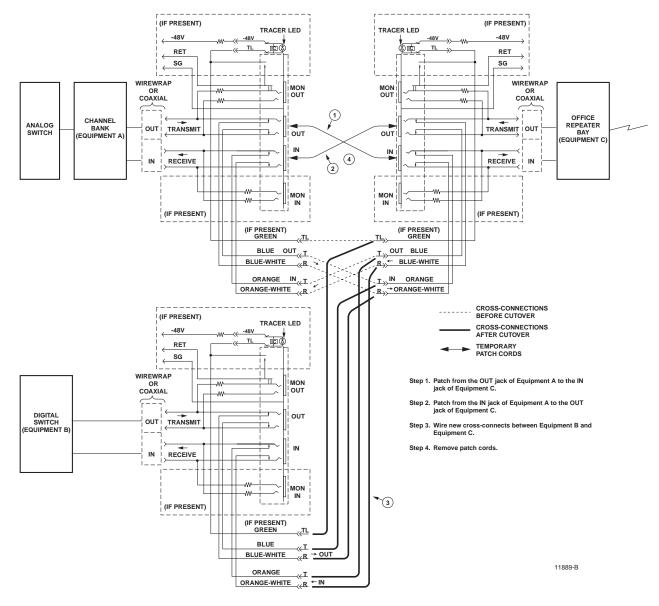


- Step 1. Patch from the DSX MON OUT jacks of the Equipment to DSX IN jacks of Maintenance Line at each office.
- Step 2. Patch from the DSX OUT jacks of Maintenance Line to DSX IN jacks of Equipment at each office.
- Step 3. Terminate the DSX OUT jack of the Equipment at each office. To remove patches without service interruption, reverse these steps in the exact sequence.

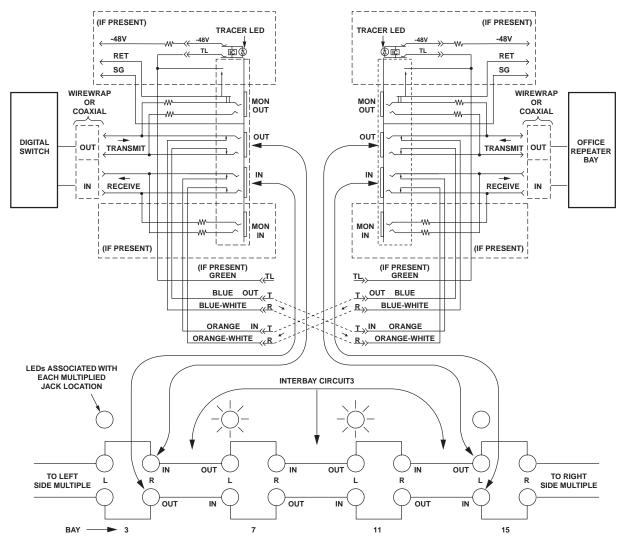
Caution: For in-service patching, each step must be completed at both offices before proceeding to the next step.

Note: Bridging Repeaters are located in the Office Repeater Bay as part of the Maintenance Line.

RESTORATION USING A MAINTENANCE LINE



CROSS-CONNECT REARRANGEMENT (EXAMPLE: OFFICE CONVERSION)



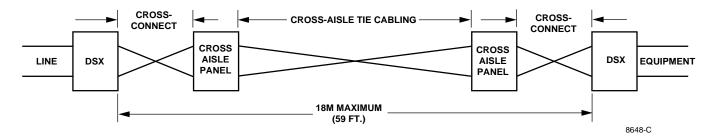
Without exception, always patch OUT to IN and IN to OUT at every location, whether using single-ended or dual-ended plugs.

When a patch is made from the left to right direction, the right side of the jack appearance selected must be used. The other end of the patch must use the left side of the jack appearance selected. The reverse is true if patch is made from right to left direction.

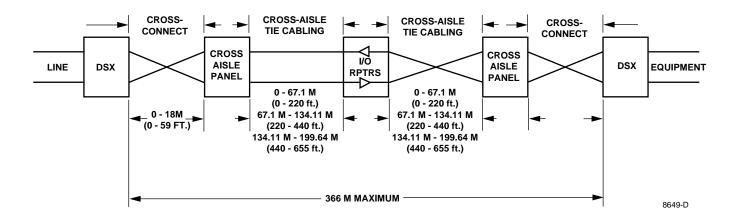
Note: In this example, the LEDs in Bay 7 and 11 for Circuit 3 will be lit, indicating the jack is in use.

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INTERBAY PATCH ARRANGEMENT



TYPICAL CROSS-AISLE TIE ARRANGEMENT



TYPICAL REPEATERED CROSS-AISLE TIE ARRANGEMENT

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