

Refer to back page for Control Record.

Refer to *SYSTEM 41 Installation Manual* for general instructions on module installation and wiring.

Refer to **DJ-4145 Data Sheet** for product specifications and functional diagram.

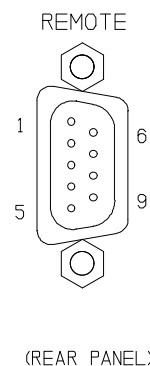
#### OPERATIONAL DESCRIPTION

The DJ-4145 Audio Distribution Switch is a remote controlled audio transfer switch with eight inputs and seven outputs. The COMMON Input (#8) is distributed and mixed to all seven outputs. Outputs 1 through 7 mix the common input with their respective, remotely switched inputs.

#### INSTALLATION SET-UP

1. Turn off the power to the mainframe.
2. Carefully insert the DJ-4145 into the System 41 mainframe.
3. Connect the inputs and outputs to the DJ-4145 by the methods described in the *SYSTEM 41 Installation Manual*.
4. Turn on the power to the System 41 mainframe.
5. Channels 1 through 7 each include a solid-state switch between their respective inputs and outputs. A maintained dry contact switch (or open-collector transistor logic) closure to ground completes the signal path from input to output. See the corresponding table for the remote pin connections.

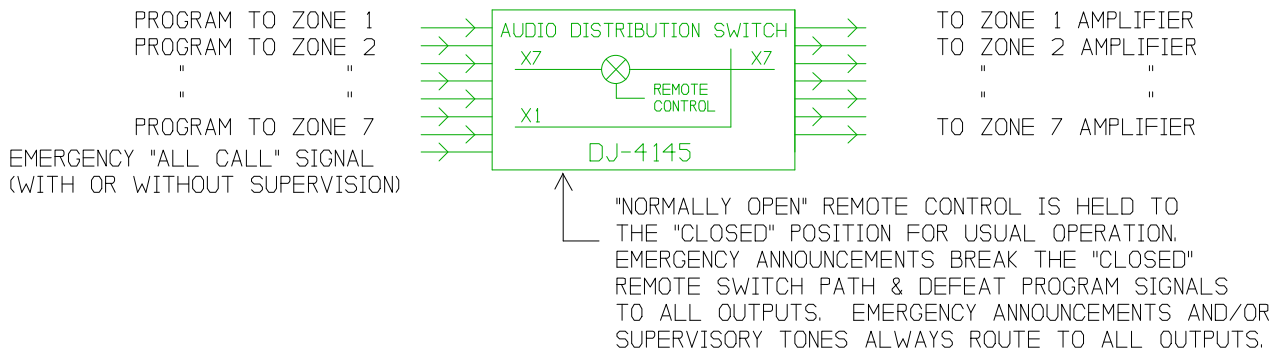
PIN	DESCRIPTION
1	INPUT 1 TO OUTPUT 1
2	INPUT 2 TO OUTPUT 2
3	INPUT 3 TO OUTPUT 3
4	INPUT 4 TO OUTPUT 4
5	INPUT 5 TO OUTPUT 5
6	INPUT 6 TO OUTPUT 6
7	INPUT 7 TO OUTPUT 7
8	NOT CONNECTED
9	GROUND



## TYPICAL APPLICATIONS

### EMERGENCY PAGING OVERRIDE (with or without supervisory tones)

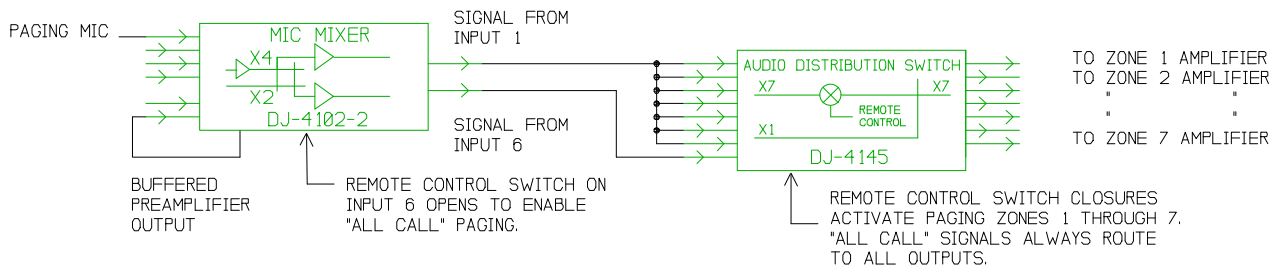
Seven individual programs are shown, all routed to their respective outputs. Emergency Pages (and optional supervisory signals) are connected to the COMMON Input. An active relay is connected between all the remote switch terminals and ground so that all inputs are engaged to the respective outputs. During an emergency, the relay opens turning OFF all seven Program signals while transmitting the emergency announcement to the outputs.



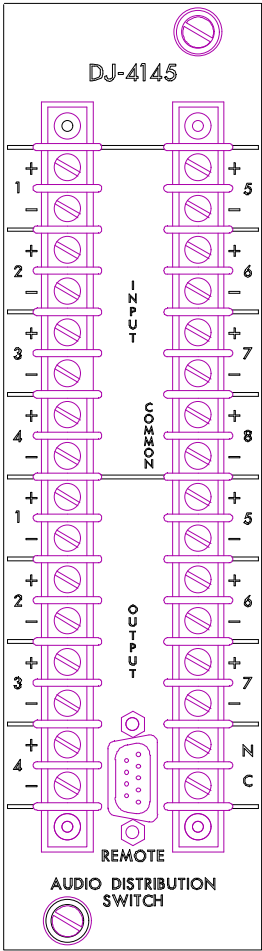
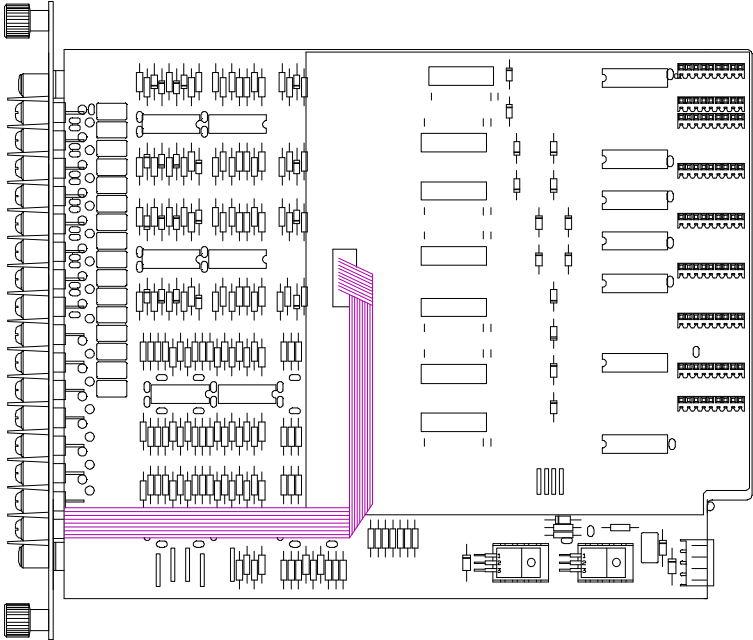
### ZONE PAGING SYSTEM WITH ALL CALL

A single paging microphone is input to a DJ-4102-2 (Microphone preamplifier module with remote input switching). This input is routed to Output #1 of the DJ-4102-2, and removed from the mix to Output #2. The buffered preamplifier output of the paging microphone is routed into Line Input #6 of the DJ-4102-2. Line Input #6 has been routed only to Output #2, and is kept in the OFF state by a Normally Closed switch to ground. Opening this switch turns ON Input #6, which allows the paging microphone to appear at the DJ-4102-2 Output #2 for the All Call signal.

The normal paging signal (DJ-4102-2 Output #1) is connected to Inputs #1 through #7 on the DJ-4145. Remote switch closures at the DJ-4145 select the output paging zones. All Call pages are transmitted to all DJ-4145 outputs whenever the switch for Input #6 of the DJ-4102-2 opens.



# MODULE DETAIL



# REAR PANEL

# Control Record

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DJ-4145

## AUDIO DISTRIBUTION SWITCH

Record all inputs and outputs to and from the DJ-4145 on the Documentation Panel in the mainframe and in the pictorial to the right.

SWITCHED INPUTS	
1	5
2	6
3	7
4	
COMMON INPUT	
8	
OUTPUTS	
1	5
2	6
3	7
4	
DJ-4145 AUDIO DISTRIBUTION SWITCH	

Mainframe # \_\_\_\_\_

Module Position # \_\_\_\_\_

Contractor \_\_\_\_\_

Installer \_\_\_\_\_

Job \_\_\_\_\_

Date \_\_\_\_\_