

Refer to the back page for Control Record.

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

Refer to **DJ-4126-1 Data Sheet** for product specifications and functional diagram.

OPERATIONAL DESCRIPTION

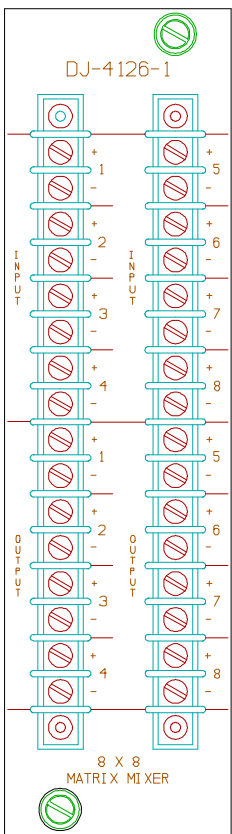
The DJ-4126-1 is a remote controlled matrix mixer with 8 inputs and 8 outputs. Maintained dry contact switch (or open-collector transistor logic) closures to ground activate sixty-four solid-state crosspoint mixing switches. The solid-state switch logic inputs are internally pulled-up to +15V. These logic inputs are designed for crosspoint activation from parallel OR remote switch connections.

The DJ-4126-1 mates with a DJ-4128-8 Remote Matrix Controller. The DJ-4128-8 provides eight Preset PROGRAMS of mixing configurations for the DJ-4126-1. Each preset is a unique combination of any, or all of the 64 matrix crosspoints. Any or all of the Preset PROGRAMS are engaged via the remote connector on the DJ-4128-8. Simultaneous activation of multiple PROGRAMS address up to 256 different combinations of matrix mixer configurations with a single DJ-4128-8 Remote Matrix Controller.

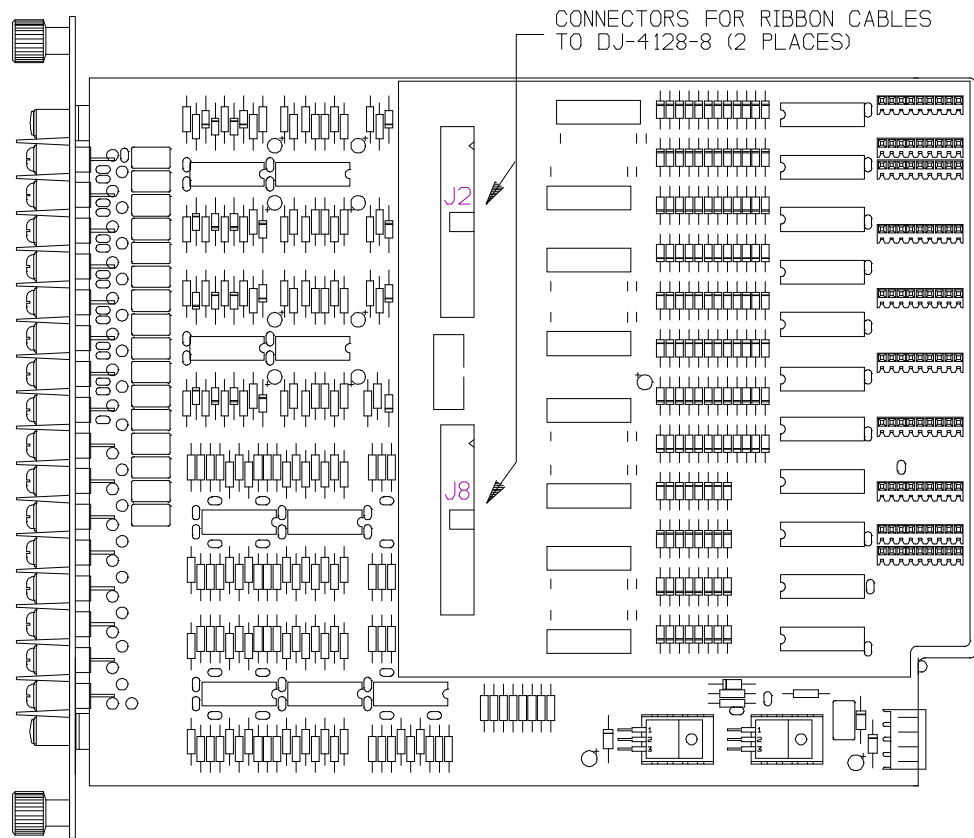
INSTALLATION SET-UP

1. Pre-program the Preset matrix mixer PROGRAMS on the DJ-4128-8 Remote Matrix Controller using the pin-jumpers provided. Refer to the **DJ-4128-8 Set Up Procedure** for the specific pin-jumper positions corresponding to INPUTS, OUTPUTS, PRESETS, and INPUT LOCK programming.
2. Connect the DJ-4126-1 to the DJ-4128-8 by using the two ribbon cables supplied with the DJ-4128-8.
3. Carefully insert the DJ-4126-1 and Remote Matrix Controller modules into the System 41 mainframe, while keeping the ribbon cables connected.
4. Wire the inputs and outputs to the DJ-4126-1 by the methods described in the **SYSTEM 41 Installation Manual**.
5. Use the thumbwheel switch on the DJ-4128-8 to verify that all Preset matrix-mixer signal routing and mixing PROGRAMS operate correctly. If signal routing is incorrect, pull out the DJ-4128-8 from the mainframe to inspect the placement of the programming pin-jumpers. Modify the pin-jumper positions as required until the Preset PROGRAM routing is correct, then re-install the DJ-4128-8 to the mainframe.
6. When all Preset PROGRAMS are operating correctly from the thumbwheel switch on the DJ-4128-8, set the thumbwheel switch to position 0 or to position 9. Connect the remote switches to the Remote Control connector on the DJ-4128-8. The wiring to this connector is detailed in the **DJ-4128-8 Set Up Procedure**.

7. Verify the correct operation of the remote control switches. Should incorrect operation occur, check for any short and/or open circuit connections in the remote wiring, then correct the difficulty.
8. To increase the number of independent Preset PROGRAMS beyond eight, use two or more DJ-4128-8 Remote Matrix Controller modules connected to the DJ-4126-1. Note: Contact the factory before placing the order so that special ribbon cables may be supplied with the necessary multiple connectors for all modules. Use the same procedure outlined in steps 1 through 7, referring to all the DJ-4128-8 modules together in each step. In step #5, where the Preset PROGRAMS are verified, leave the thumbwheel switch in position 0 or 9 for all DJ-4128-8 modules except the module whose PROGRAMS are being checked.
9. When multiple DJ-4126-1 modules are being controlled by one or more DJ-4128-8 modules, again follow steps 1 through 7 (contact the factory for special cables). Every DJ-4126-1 module connected to a common Remote Matrix Controller will engage the same matrix crosspoint switches for all Preset PROGRAMS. This particular configuration is often used with two DJ-4126-1 modules controlled in tandem, i.e. for remote stereo source selection and routing (with one DJ-4126-1 each for the left and right channels respectively).
10. It is permissible to remotely switch the individual crosspoints directly on the DJ-4126-1. This technique is sometimes used when every one of the 64 crosspoints needs to be addressed independently. To wire the switches directly to the DJ-4126-1, it will be necessary to procure two ribbon cable female connectors (34 conductor - Dual row - 0.100 inch centers). The switch ground will connect to one of the circuit-common screw terminals on the mainframe. A maintained closure to ground engages each independent crosspoint. See the connector pin-outs on the following page.



REAR PANEL



MODULE DETAIL

J2 AND J8 CONNECTION TABLE

CONNECTOR J2	FUNCTION	CONNECTOR J8	FUNCTION
PIN 1	INPUT 8 TO OUTPUT 2	PIN 1	INPUT 8 TO OUTPUT 6
2	INPUT 1 TO OUTPUT 1	2	INPUT 1 TO OUTPUT 5
3	INPUT 7 TO OUTPUT 2	3	INPUT 7 TO OUTPUT 6
4	INPUT 2 TO OUTPUT 1	4	INPUT 2 TO OUTPUT 5
5	INPUT 6 TO OUTPUT 2	5	INPUT 6 TO OUTPUT 6
6	INPUT 3 TO OUTPUT 1	6	INPUT 3 TO OUTPUT 5
7	INPUT 5 TO OUTPUT 2	7	INPUT 5 TO OUTPUT 6
8	INPUT 4 TO OUTPUT 1	8	INPUT 4 TO OUTPUT 5
9	INPUT 4 TO OUTPUT 2	9	INPUT 4 TO OUTPUT 6
10	INPUT 5 TO OUTPUT 1	10	INPUT 5 TO OUTPUT 5
11	INPUT 3 TO OUTPUT 2	11	INPUT 3 TO OUTPUT 6
12	INPUT 6 TO OUTPUT 1	12	INPUT 6 TO OUTPUT 5
13	INPUT 2 TO OUTPUT 2	13	INPUT 2 TO OUTPUT 6
14	INPUT 7 TO OUTPUT 1	14	INPUT 7 TO OUTPUT 5
15	INPUT 1 TO OUTPUT 2	15	INPUT 1 TO OUTPUT 6
16	INPUT 8 TO OUTPUT 1	16	INPUT 8 TO OUTPUT 5
17	+ 15VDC	17	+ 15VDC
18	+ 15VDC	18	+ 15VDC
19	INPUT 8 TO OUTPUT 3	19	INPUT 8 TO OUTPUT 7
20	INPUT 1 TO OUTPUT 4	20	INPUT 1 TO OUTPUT 8
21	INPUT 7 TO OUTPUT 3	21	INPUT 7 TO OUTPUT 7
22	INPUT 2 TO OUTPUT 4	22	INPUT 2 TO OUTPUT 8
23	INPUT 6 TO OUTPUT 3	23	INPUT 6 TO OUTPUT 7
24	INPUT 3 TO OUTPUT 4	24	INPUT 3 TO OUTPUT 8
25	INPUT 5 TO OUTPUT 3	25	INPUT 5 TO OUTPUT 7
26	INPUT 4 TO OUTPUT 4	26	INPUT 4 TO OUTPUT 8
27	INPUT 4 TO OUTPUT 3	27	INPUT 4 TO OUTPUT 7
28	INPUT 5 TO OUTPUT 4	28	INPUT 5 TO OUTPUT 8
29	INPUT 3 TO OUTPUT 3	29	INPUT 3 TO OUTPUT 7
30	INPUT 6 TO OUTPUT 4	30	INPUT 6 TO OUTPUT 8
31	INPUT 2 TO OUTPUT 3	31	INPUT 2 TO OUTPUT 7
32	INPUT 7 TO OUTPUT 4	32	INPUT 7 TO OUTPUT 8
33	INPUT 1 TO OUTPUT 3	33	INPUT 1 TO OUTPUT 7
34	INPUT 8 TO OUTPUT 4	34	INPUT 8 TO OUTPUT 8

Control Record

DJ-4126-1

8 x 8 MATRIX MIXER

Record all inputs and outputs to and from the DJ-4126-1 on the Documentation Panel pictorial to the right. This should match the Documentation Panel in the mainframe.

INPUT

1

5

2

6

3

7

4

8

OUTPUT

1

5

2

6

3

7

4

8

DJ-4126-1
REMOTE CONTROLLED
8 x 8 MATRIX MIXER

Mainframe # _____

Module Position # _____

Contractor _____

Installer _____

Job _____

Date _____