

Refer to back page for Control Record.

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

Refer to **DJ-4113A Data sheet** for specifications and functional diagram.

LEVEL CONTROLS

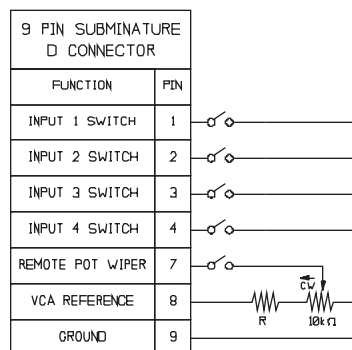
1. Set all controls (5 inputs, 1 output) to "N" (Normal). Gain is 0dB input to output.
2. Full clockwise increases gain by 10dB from Normal.
3. Refer to back page for gain programming changes.
4. Record control settings in the Control Record section.

REMOTE CONTROL INPUT SWITCHES

1. See table below for subminiature D connector pin numbers. A grounded control line opens the respective switch and turns the input OFF.

REMOTE OUTPUT LEVEL CONTROL

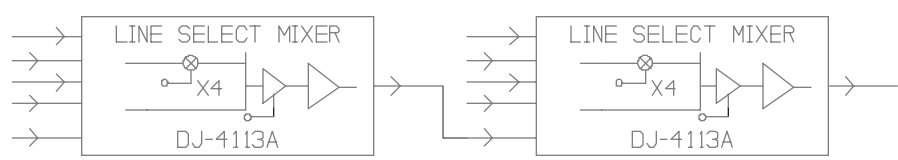
1. Locate the JH1 pin-jumper on the PC board (see Module Detail). Move the jumper from the BYPASS position to the VCA position. The output of the DJ-4113A is now muted OFF until a potentiometer is attached to the REMOTE connector.
2. Wire a 10kS linear potentiometer to pins #7, #8, and #9 on the 9-pin subminiature D connector as shown in the table. Clockwise is full ON (0dB attenuation), with the WIPER shorted to pin #8 (VCA REFERENCE).
3. An SPST switch can be wired in series between the potentiometer wiper and pin #7 if channel muting (-100dB OFF) is desired without disturbing the potentiometer adjustment.
4. For control range restriction, connect a resistor R in series between pin #9 (ground) and the remote potentiometer according to the formula: $\text{Range (dB)} = 50\text{dB} \times 10\text{kS}/(\text{R} + 10\text{kS})$. For example, if a 10kS resistor is added, the control range will be 25dB.



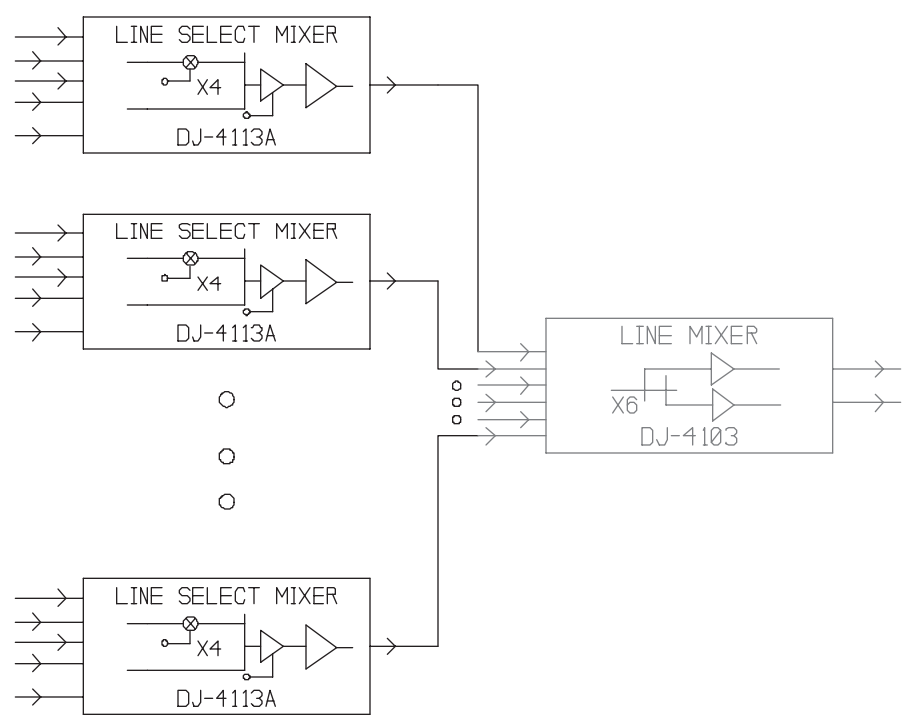
5. To simultaneously control the output level of multiple DJ-4113A modules from a single remote potentiometer, link the WIPER terminals (pin #7) on all the ganged modules. Connect the 10kS potentiometer to pins #8 and #9 on only one DJ-4113A.
6. An external reference voltage may be used to remotely control the output level of the DJ-4113A. Connect the variable external reference between GROUND (pin #9) and the WIPER input (pin #7). The attenuation relation of the WIPER input voltage referenced to ground is as follows:

5dB attenuation per Volt
 + 10 Volt = FULL ON
 + 8 Volt = 10dB attenuation
 + 1 Volt = 45dB attenuation
 0 Volt = 100dB attenuation

APPLICATIONS

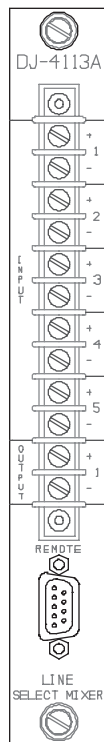
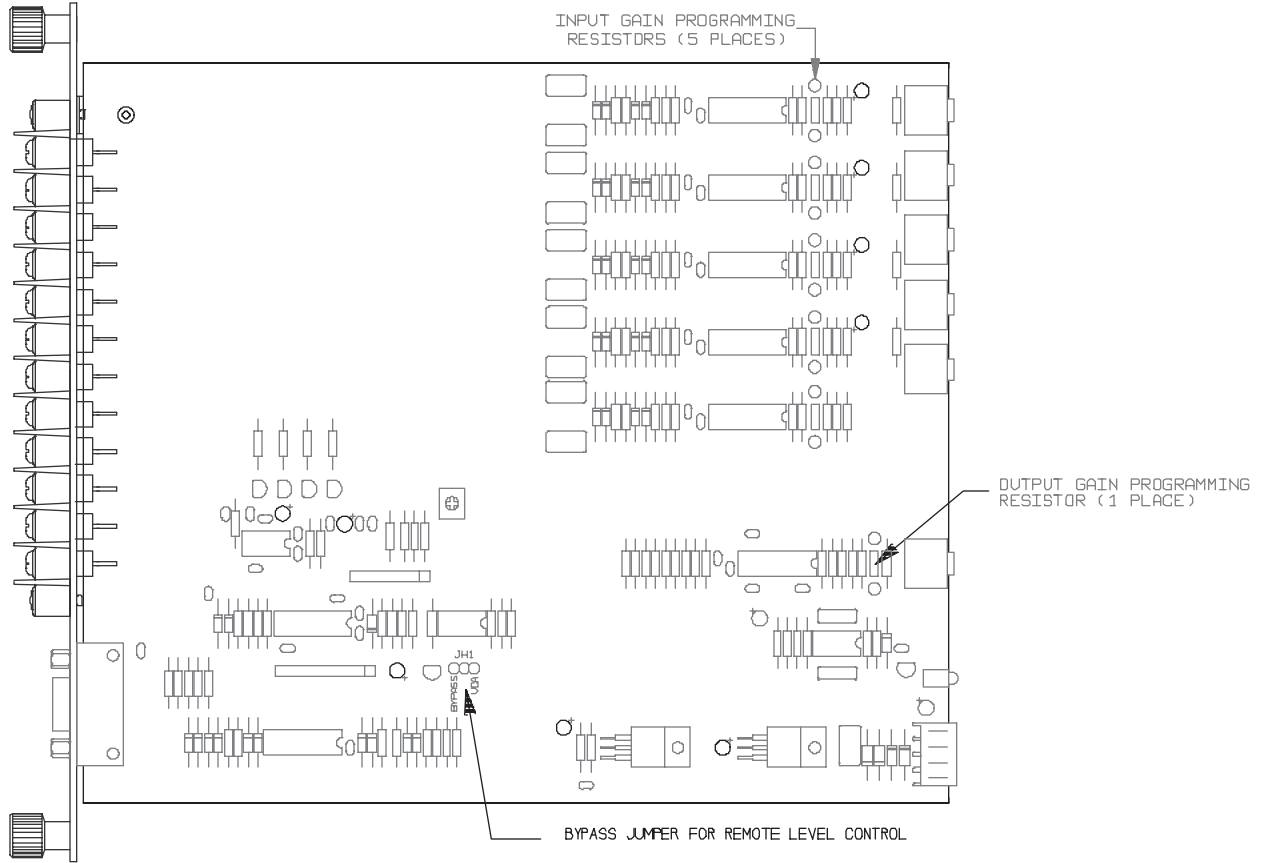


Linking two DJ-4113A modules provides eight inputs, each with remote switch control.

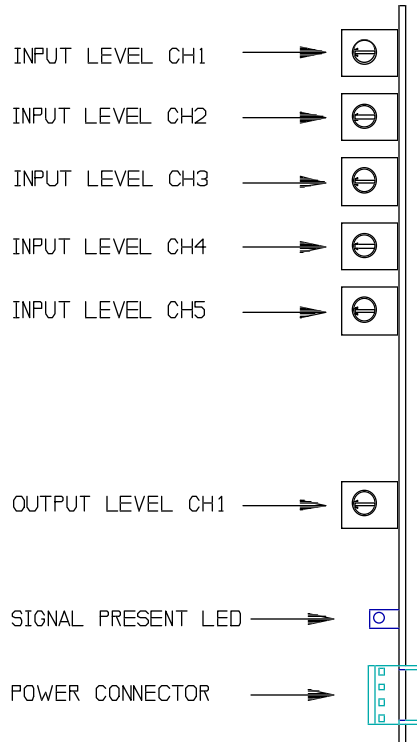


For a large number of inputs, a DJ-4103 is recommended to mix the outputs of several DJ-4113A modules.

MODULE DETAIL



REAR PANEL



FRONT EDGE CONTROLS

Control Record

DJ-4113A

LINE SELECT MIXER

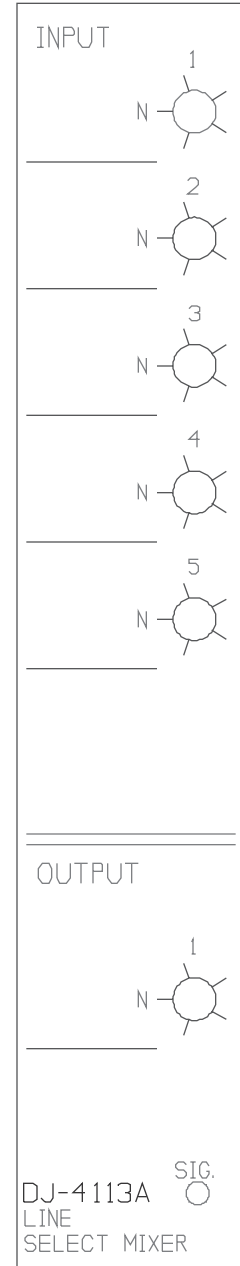
Record all control settings on the Documentation Panel pictorial to the right. This must match the Documentation Panel in the mainframe. Record input and output gain programming changes in table below.

The DJ-4113A module comes pre-programmed from the factory to have unity gain with the output level control at the Normal position (50% rotation). Each output may be individually gain programmed by replacing the factory supplied resistor (see Module Detail for gain programming resistor location). The table below shows the acceptable values to alter the Normal gain level.

GAIN PROGRAMMING RESISTOR	NOMINAL GAIN (dB)	MAXIMUM GAIN (dB)
NONE	-10	0
12k Σ	-5	5
4.7k Σ *	0	10
2.2k Σ	5	15
1k Σ	10	20

* Denotes factory supplied value

	NORMAL GAIN (dB)	GAIN PROGRAMMING RESISTOR INSTALLED
INPUT 1		
INPUT 2		
INPUT 3		
INPUT 4		
INPUT 5		
OUTPUT 1		



Mainframe # _____

Module Position # _____

Contractor _____

Installer _____

Job _____

Date _____