



Professional Sound Products

Set Up Procedure

DJ-4134

DELAY EXTEND

Refer to back page for Control Record.

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

Refer to **DJ-4134 Data Sheet** for product specifications and functional diagram.

SET DELAY INCREMENT AND MAXIMUM DELAY

Locate the pin-jumper (JH1) on the DJ-4134 module (see Module Detail for pin-jumper location). The position of this jumper determines the maximum delay and the increments of adjustment. Position A corresponds to 512 ms maximum with 32 ms increments. Position B corresponds to 256 ms maximum in 16 ms increments. This jumper is in Position A when the module is shipped from the factory.

SET DURATION OF EXTENDED DELAY

A sixteen position rotary switch is located on the front of the DJ-4134 module to allow a coarse adjustment of the extended delay. Adjust the DELAY switch to the position which corresponds to the desired duration of extended delay according to the table below.

SWITCH POSITION	JH1 POSITION A	JH1 POSITION B	SWITCH POSITION	JH1 POSITION A	JH1 POSITION B
0	32ms	16ms	8	288	144
1	64	32	9	320	160
2	96	48	A	352	176
3	128	64	B	380	190
4	160	80	C	416	208
5	192	96	D	448	224
6	224	112	E	480	240
7	256	128	F	512	256

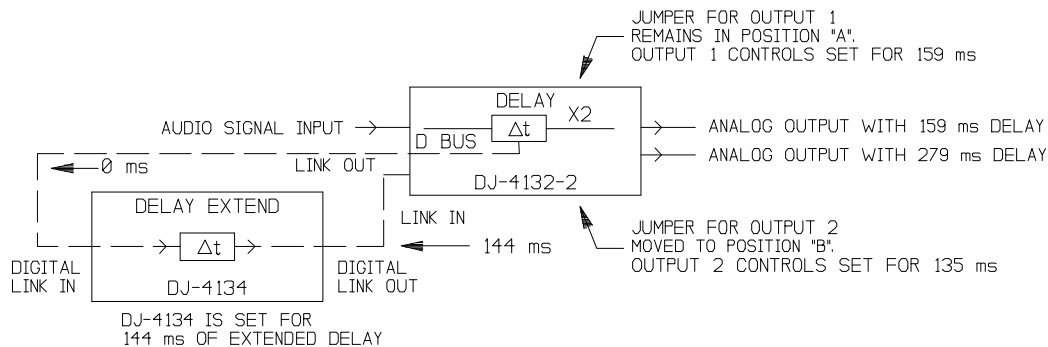
EXTENDING THE DELAY DURATION OF A DJ-4132, DJ-4135, or DJ-4139

1. Locate the DELAY EXTEND pin-jumpers on the DJ-4132, DJ-4135, or DJ-4139 signal delay module. These jumpers will allow the DJ-4132/35/39 to accept external digital data. For pin jumper locations, refer to the MODULE DETAIL drawing in the DJ-4132/35/39 Set Up Procedure.
2. Move the DELAY EXTEND pin-jumper (for each output channel which requires extended delay) from Position A to Position B on the DJ-4132/35/39 module. Digital data present at the LINK IN of the module will now route to the analog output of the DJ-4132/35/39.
3. Carefully install the digital delay modules in adjacent slots in the System 41 mainframe.
4. Use the link cable (IRP P/N 995-0153, two are supplied) to connect the LINK OUT of the DJ-4132/35/39 to the LINK IN of the DJ-4134.

5. Connect the other link cable from the LINK OUT of the DJ-4134 to the LINK IN of the DJ-4132/35/39. The delay from the analog input to output of the DJ-4132/35/39 will be the sum of the DJ-4132/35/39 and the DJ-4134 settings (for each channel in Position B). See example below.
6. Record the JH1 pin-jumper position, delay settings and digital link connections for the DJ-4134 in the Control Record section, and on the documentation panel.

EXAMPLE: The drawing shows a DJ-4134 connected to a DJ-4132-2 to extend the delay duration of Output 2 past 255 ms. The DJ-4132-2 is configured with DELAY EXTEND pin-jumpers 1 and 2 set to positions A and B, respectively. The delay settings on the DJ-4132-2 are set to 159 ms and 135 ms, respectively. The DJ-4134 is set to 144 ms. The modules are connected as in steps 4 and 5 discussed previously.

Data appearing at the LINK OUT of the DJ-4132-2 has zero delay. Data at the DJ-4132-2 LINK IN is delayed by the 144 ms setting of the DJ-4134. DJ-4132-2 Output 1 remains at 159 ms of delay, and is not extended. Output 2 has its own 135 ms of delay, plus the 144 ms of the DJ-4134, for a total of 279 ms of delay.



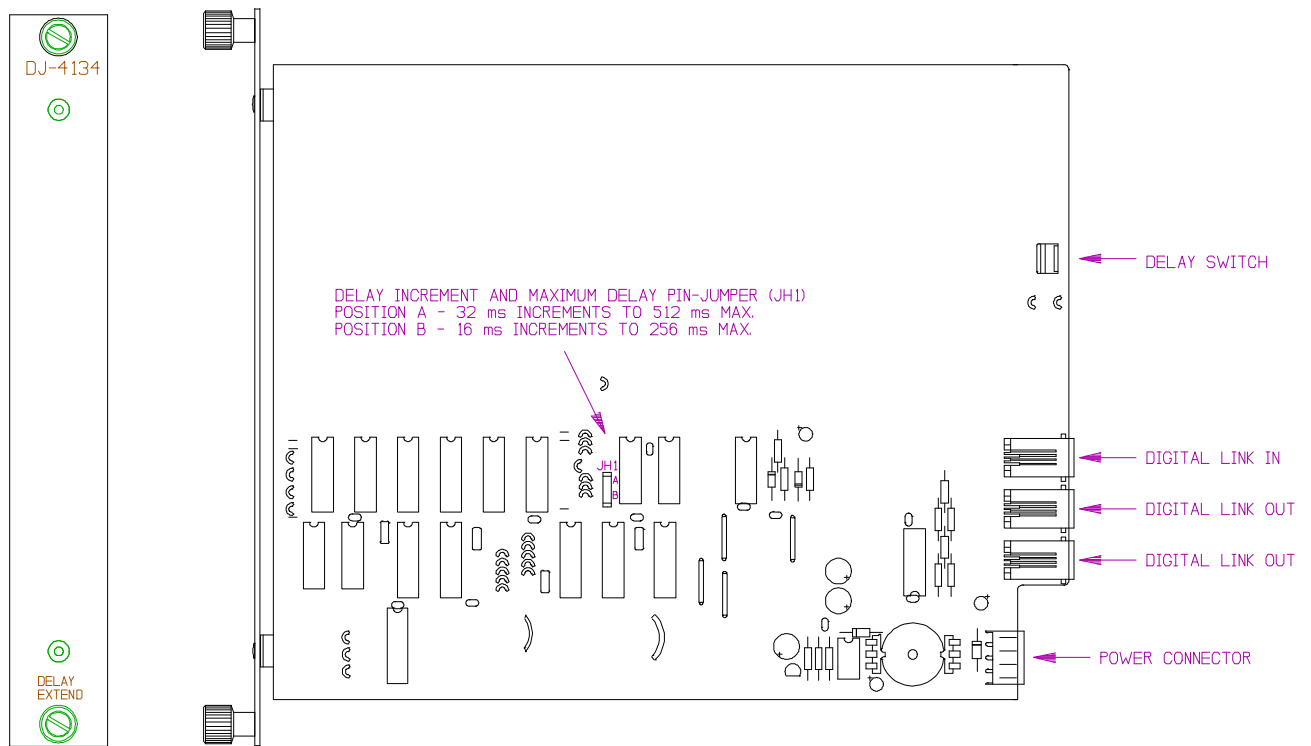
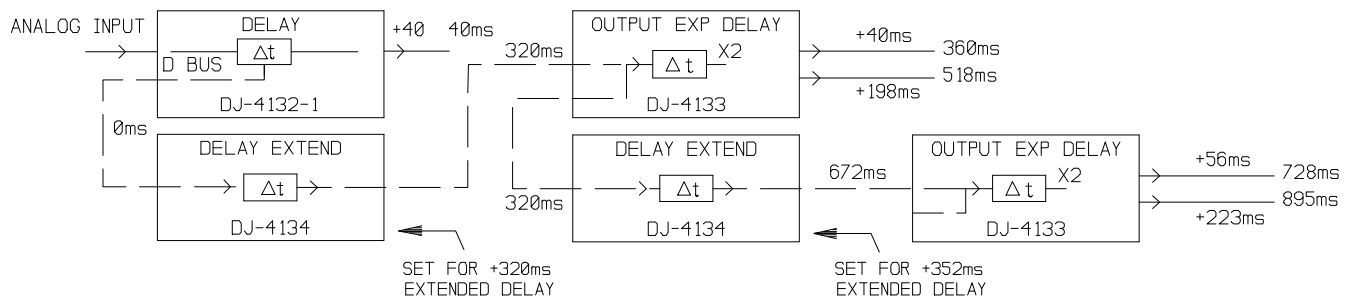
SEQUENTIAL CONNECTION OF EXTENDED DELAY

1. Carefully install the digital delay modules in adjacent slots in the System 41 mainframe. Place the DJ-4134 between the modules to which it connects.
2. Connect the LINK OUT of the source module to the DJ-4134 LINK IN using the digital link cable (IRP P/N 995-0153, two are supplied).
3. Connect the second link cable from the DJ-4134 LINK OUT to the digital LINK IN of the destination module.
4. If the destination module is a DJ-4132, DJ-4135 or DJ-4139, move the corresponding DELAY EXTEND pin-jumper from Position A to Position B on the destination output delay module.
5. When an output delay module immediately follows a DJ-4134, total output delay is computed as the sum of the delay value at the digital LINK IN to the DJ-4134 plus the extended delay set by the DJ-4134 added to the corresponding delay settings for the output delay module. See example on next page.
6. Record the JH1 pin-jumper position, delay setting and digital link connections for the DJ-4134 in the Control Record section, and on the documentation panel.

EXAMPLE: The drawing shows a five output delay system, with delayed outputs to 895 ms. The first output is set to 40 ms on the DJ-4132-1. The first digital bus cable from the DJ-4132-1 is at 0 ms on the digital LINK IN to the first DJ-4134. This first DJ-4134 is set at 320 ms, which determines the delay value on the next two digital bus cables: to the first DJ-4133, and to the following DJ-4134.

The outputs of the first DJ-4133 are set to 40 ms and to 198 ms. The 320 ms delay present at the LINK IN to this DJ-4133 is added to these settings for the final delay values of 360 ms and 518 ms, respectively.

The digital LINK IN to the second DJ-4134 is 320 ms delay, as previously mentioned. This 320 ms value sums with the 352 ms setting of the second DJ-4134 to determine the 672 ms value at the LINK IN to the last DJ-4133. The 672 ms value is added to the settings of 56 ms and 223 ms to produce the respective output delays of 728 ms and 895 ms.



REAR PANEL

MODULE DETAIL

Control Record

DJ-4134

DELAY EXTEND

Record all control settings on the Documentation Panel pictorial to the right. This should match the Documentation Panel in the mainframe.

DELAY PIN-JUMPER (JH1) POSITION

Position A - 32 ms increments to 512 ms G

Position B - 16 ms increments to 256 ms G

EXTENDED DELAY SETTING

_____ ms

DELAY SETTINGS

milliseconds
16 or 32
mS STEPS

256 | | 512
ON BOARD SHUNT

LINK IN

LINK OUT

LINK OUT

DJ-4134
DELAY
EXTEND

Mainframe # _____

Module Position # _____

Contractor _____

Installer _____

Job _____

Date _____