MAINTENANCE MANUAL

CEC / IMC
AUDIO AUX I/O CONCENTRATOR CARD
19D903529P1

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DESCRIPTION

GENERAL

Concentrator cards simplify connections to the CEC/IMC. By installing the cards in the audio and data paths between the CEC/IMC and other pieces of equipment, interfacing between a site or console and the switch requires fewer kinds of cables. The cards, mounted on the rear of the cabinet, route many of the signals from the CEC/IMC. Most of the cards concentrate the signals from several backplane connectors into one or two large connectors that interface to the site, console, etc.

Most of the concentrator cards make it possible to make IMC connections at punch-blocks. With the exception of the card for the MOM PC, each converts the signal arrangement on the backplane connectors to the arrangement on the punch-blocks. The concentrators perform a conversion from two-row, 24-pin connectors to 50-pin Champ connectors. Cables with the same two-row, 24-pin connectors on both ends carry signals between the backplane and the concentrators. 25-pair cables carry the signals between the concentrators and punch-blocks or other signal break-out devices.

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Specifications

Height:	5 inches
Width:	4.25 inches
Thickness:	0.093 inches

Description

This card carries the optocoupler and relay signals from audio boards.

There are four 24-pin, two-row connectors on the back of the concentrator card. This card can be connected to up to four audio boards. This means that it can support up to 16 channels.

Each of the two Champ connectors on the front of the board carries the relay and optocoupler signals from two boards. J3 has the signals from boards connected to J1 and J2. J6 carries the signals from boards connected to J4 and J5.

In the following tables, the channel numbers one through four refer to the four channels supported by the audio board at the given connector (J1, J2, J4, or J5).

J3		
1	J1-13	Ch. 1, Opt in H
2	J1-9	Ch. 2, Opt in H
3	J1-5	Ch. 3, Opt in H
4	J1-1	Ch. 4, Opt in H
5	J1-2	Ch. 1, Opt out H
6	J1-6	Ch. 2, Opt out H
7	J1-10	Ch. 3, Opt out H
8	J1-14	Ch. 4, Opt out H
9	J1-15	Ch. 1, Relay A
10	J1-17	Ch. 2, Relay A
11	J1-22	Ch. 3, Relay A
12	J1-24	Ch. 4, Relay A
13	J2-13	Ch. 1, Opt in H
14	J2-9	Ch. 2, Opt in H
15	J2-5	Ch. 3, Opt in H
16	J2-1	Ch. 4, Opt in H
17	J2-2	Ch. 1, Opt out H
18	J2-6	Ch. 2, Opt out H
19	J2-10	Ch. 3, Opt out H
20	J2-14	Ch. 4, Opt out H
21	J2-15	Ch. 1, Relay A
22	J2-17	Ch. 2, Relay A
23	J2-22	Ch. 3, Relay A
24	J2-24	Ch. 4, Relay A
25		Unused

J3		
26	J1-23	Ch. 1, Opt in L
27	J1-11	Ch. 2, Opt in L
28	J1-7	Ch. 3, Opt in L
29	J1-3	Ch. 4, Opt in L
30	J1-4	Ch. 1, Opt out L
31	J1-8	Ch. 2, Opt out L
32	J1-12	Ch. 3, Opt out L
33	J1-16	Ch. 4, Opt out L
34	J1-18	Ch. 1, Relay B
35	J1-20	Ch. 2, Relay B
36	J1-19	Ch. 3, Relay B
37	J1-21	Ch. 4, Relay B
38	J2-23	Ch. 1, Opt in L
39	J2-11	Ch. 2, Opt in L
40	J2-7	Ch. 3, Opt in L
41	J2-3	Ch. 4, Opt in L
42	J2-4	Ch. 1, Opt out L
43	J2-8	Ch. 2, Opt out L
44	J2-12	Ch. 3, Opt out L
45	J2-16	Ch. 4, Opt out L
46	J2-18	Ch. 1, Relay B
47	J2-20	Ch. 2, Relay B
48	J2-19	Ch. 3, Relay B
49	J2-21	Ch. 4 , Relay B
50		Unused

J6		
1	J4-13	Ch. 1, Opt in H
2	J4-9	Ch. 2, Opt in H
3	J4-5	Ch. 3, Opt in H
4	J4-1	Ch. 4, Opt in H
5	J4-2	Ch. 1, Opt out H
6	J4-6	Ch. 2, Opt out H
7	J4-10	Ch. 3, Opt out H
8	J4-14	Ch. 4, Opt out H
9	J4-15	Ch. 1, Relay A
10	J4-17	Ch. 2, Relay A
11	J4-22	Ch. 3, Relay A
12	J4-24	Ch. 4, Relay A
13	J5-13	Ch. 1, Opt in H
14	J5-9	Ch. 2, Opt in H
15	J5-5	Ch. 3, Opt in H
16	J5-1	Ch. 4, Opt in H
17	J5-2	Ch. 1, Opt out H
18	J5-6	Ch. 2, Opt out H
19	J5-10	Ch. 3, Opt out H
20	J5-14	Ch. 4, Opt out H
21	J5-15	Ch. 1, Relay A
22	J5-17	Ch. 2, Relay A
23	J5-22	Ch. 3, Relay A
24	J5-24	Ch. 4, Relay A
25		Unused

J6		
26	J4-23	Ch. 1, Opt in L
27	J4-11	Ch. 2, Opt in L
28	J4-7	Ch. 3, Opt in L
29	J4-3	Ch. 4, Opt in L
30	J4-4	Ch. 1, Opt out L
31	J4-8	Ch. 2, Opt out L
32	J4-12	Ch. 3, Opt out L
33	J4-16	Ch. 4, Opt out L
34	J4-18	Ch. 1, Relay B
35	J4-20	Ch. 2, Relay B
36	J4-19	Ch. 3, Relay B
37	J4-21	Ch. 4, Relay B
38	J5-23	Ch. 1, Opt in L
39	J5-11	Ch. 2, Opt in L
40	J5-7	Ch. 3, Opt in L
41	J5-3	Ch. 4, Opt in L
42	J5-4	Ch. 1, Opt out L
43	J5-8	Ch. 2, Opt out L
44	J5-12	Ch. 3, Opt out L
45	J5-16	Ch. 4, Opt out L
46	J5-18	Ch. 1, Relay B
47	J5-20	Ch. 2, Relay B
48	J5-19	Ch. 3, Relay B
49	J5-21	Ch. 4 , Relay B
50		Unused

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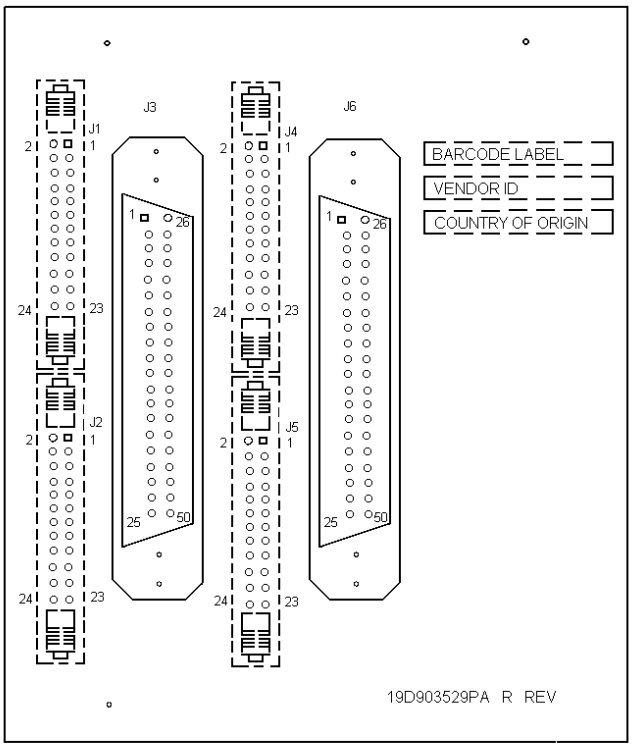

MATERIAL LIST				
ITEM	EGE PART NO.	VENDOR PART NO. (OR EQUIVALENT)	DESCRIPTION	QTY
J3, J6		AMP 554753-1	50 PIN CHAMP CONN	2
J1, J2 J4, J5		AMP 499582-5	24 PIN HEADER	4
LATCH		AMP 102320-1	LATCH	8
BAILLOCK		AMP 552561-3	BAILLOCK KIT	2

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