

MAINTENANCE MANUAL  
RIC-VOTER INTERFACE BOARD  
19D904678G1

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SPECIFICATIONS\*

STATION FUNCTIONS	Enable Bypass Radio Interface Controllers (RIC)
COMMON CABLE	One 25 Twisted Pair
CONNECTORS	
J1 thru J48	Two position, shorting
P1 thru P48	Two position
J51 thru J54	25 pair, Telco plug assembly

\* These specifications are intended primarily for the use of the service technician. Refer to the appropriate Specifications Sheet in the applicable maintenance manual for the complete specifications.

DESCRIPTION

Radio Interface Controller (RIC) - Voter Interface Module (VIM) 19D904678G1 is used to enable/bypass RIC's in the RIC cabinet(s) of the Enhanced Digital Access Communication System(EDACS®) RIC's handle all inter-connect signalling and interfacing between the repeater and telephone line.

The audio input to this module is from the Voter Analog Cross Connect Panel through 50-Pin connector J51 (refer to Figure 1).

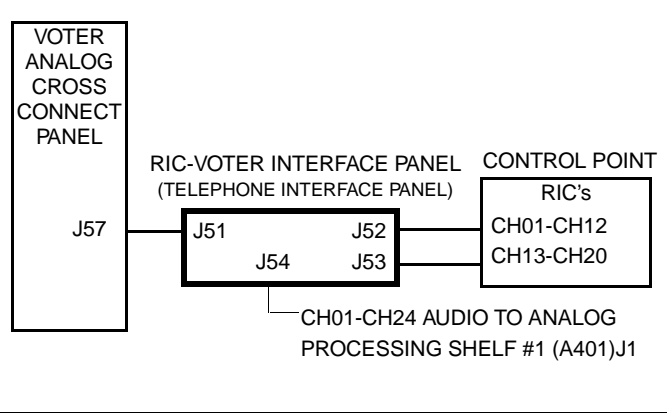
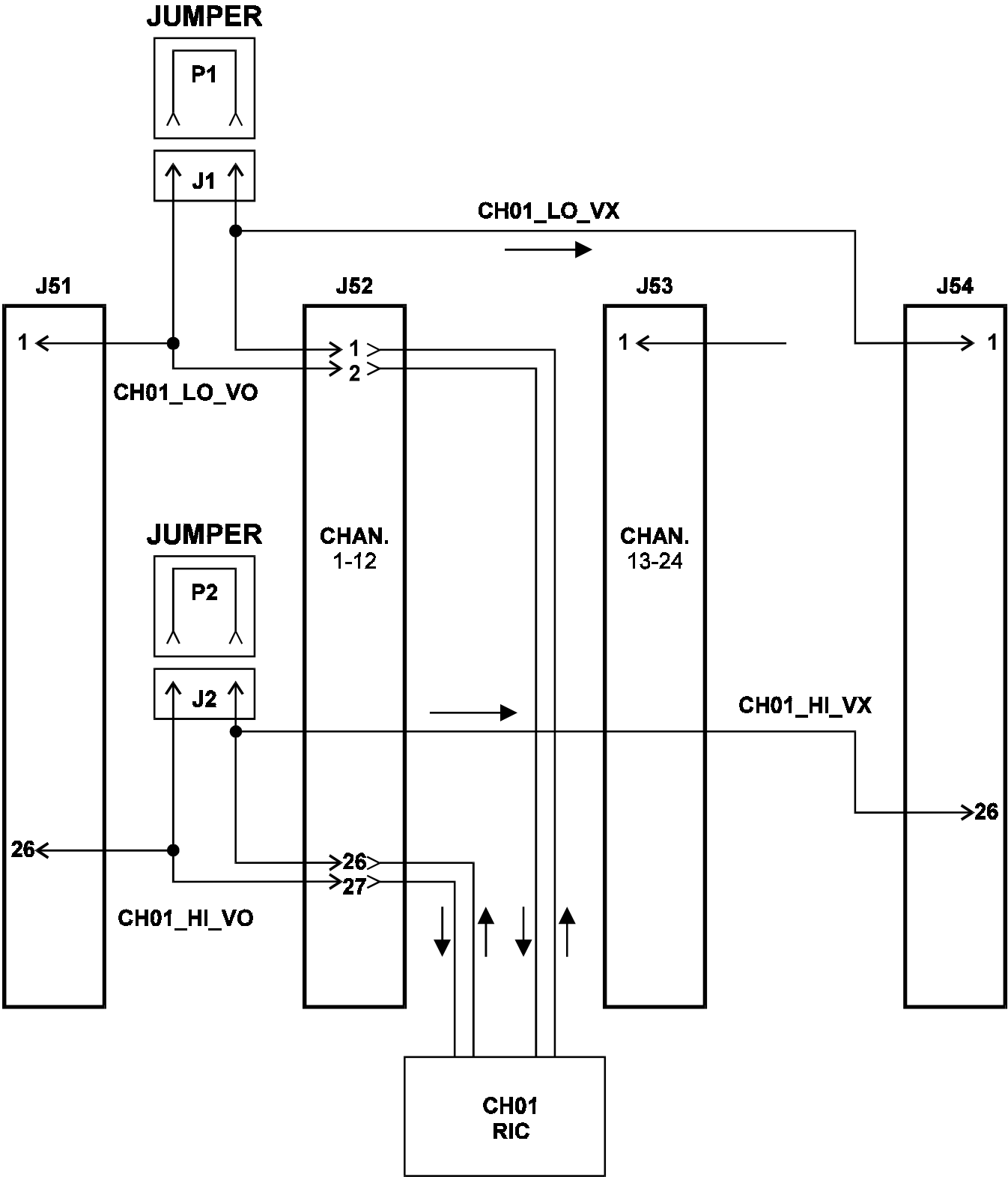


Figure 1 - RIC-Voter Interface Module System Interconnection

CIRCUIT ANALYSIS

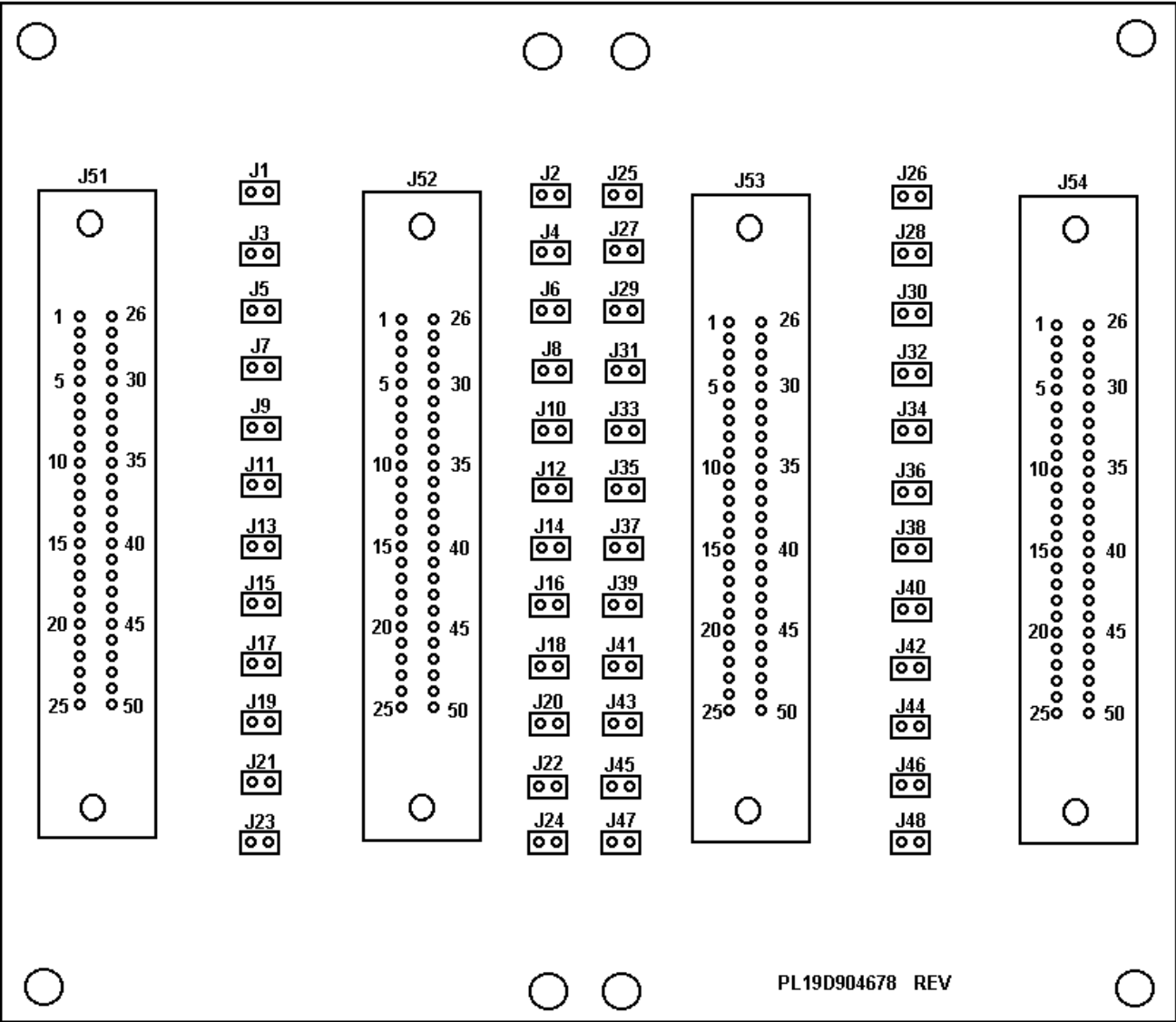
The cable connected between connector J57 of the Voter Analog Cross Connect Panel and connector J51 of the RIC-Voter Interface panel consists of 25 twisted pairs of conductors. This cable can carry audio signals for 24 audio channels. Each channel uses a twisted pair of conductors. As an example, for channel 1, the twisted pair of conductors are labeled CH01\_LO\_VO and CH01\_HI\_VO. If a RIC is **not** present for channel 1, these conductors are routed through jumpers P1 and P2 directly to connector J54 (CH01\_LO\_VX) and CH01\_HI\_VX) of the RIC-Voter Interface Panel. If channel 1 has a RIC, jumpers P1 and P2 are removed and the conductors are routed through the RIC assigned to channel 1. The output of the RIC is connected to CH01\_LO\_VX and CH01\_HI\_VX respectively (refer to Figure 2).

If a particular channel (1-24) does not have a RIC, the appropriate jumpers are left in place and the audio for that channel is routed directly to connector J54 and on to the Audio to Analog Processing Shelf. If a channel does have a RIC, the proper jumpers are removed and the audio signal is routed only to the RIC through connector J52 for channels 1 through 12 or J53 for channels 13 through 20.



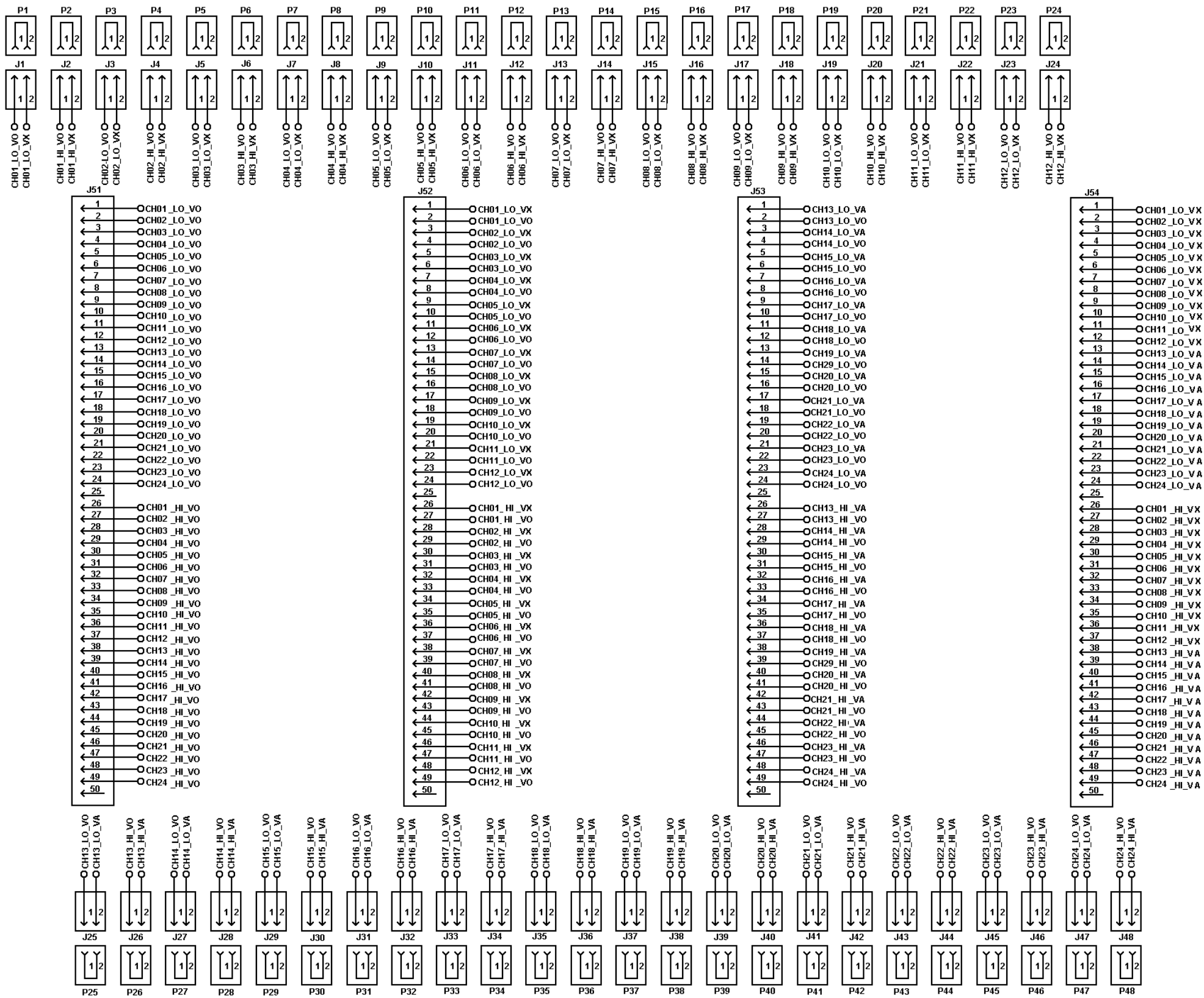
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SYMBOL	PART NO.	DESCRIPTION
----- JACKS -----		
J1 thru J45	19A704852P11	Connector: 2 Pin Male Header.
J51 thru J54	19B800935P14	Connector: 25 pair, Telco plug assembly.
----- PLUGS -----		
P1 thru P48	19A702104P2	Connector: Shorting Jumper, Gold Plated. (Housing Color: White).
----- MISCELLANEOUS -----		
4	19B800935P15	Connector.



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NOTE:  
ALL RIC'S ARE SHOWN IN  
BYPASS MODE. TO ENABLE A RIC,  
REMOVE APPLICABLE PAIR OF  
JUMPERS. FOR EXAMPLE, TO  
ENABLE CH04 RIC, REMOVE  
JUMPERS P7 & P8.

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