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## 500 SERIES MICROPHONE STATIONS

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### INSTALLATION INSTRUCTIONS

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#### GENERAL DESCRIPTION

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The IED 500 Series microphone stations utilize a two layer stacked printed circuit board design in which, with the exception of the desktop stations, all of the connections are made to the rear printed circuit board through plug-in compression type screw terminal connectors. The desktop stations utilize one male and one female rear mounted XLR connector.

The connections can be classified in three groups, control and power, audio output, and expansion.

The control and power connections consist of the +30 VDC power input with the modulated control signal. These use 3 positions of a 6 position plug-in compression type screw terminal connector.

The +30 V power supply voltage to the microphone station can be checked at the Control terminals. It should be between +25 VDC and +31 VDC when measured between the '+' and 'S' terminals, or between the '-' and 'S' terminals.

The 6 position connector referred to above is shared with the microphone station audio output which uses the other three positions. Each group of connections is made with a shielded twisted pair such as Belden 8451 or equivalent.

Expansion station connections utilize another 6 position plug-in compression type screw terminal connector. One shielded twisted pair, Belden 8451 or equivalent, is used for the audio connection. A single twisted pair is used for the switch and power connections. A shielded twisted pair is recommended, but not mandatory.

The power supply voltage can be measured at the expansion microphone station between the +15 V and Ground terminals to verify proper voltage to the expansion station. The voltage should be between +14 VDC and +15.5 VDC.

Each of the 500 Series microphone station types can interface with IED's 500ACS™, 8000 Series TIPS™, and 2000 Series UDAPS™ systems. A diagram is provided for connecting each microphone station type to each series of system. The connection diagrams are generic and may not be an exact representation of the particular system which is being installed. Exact wiring diagrams accompany each system which is shipped as part of the system rack layout. Locate the microphone station type and the system to which it is being connected in Table 1. The location of the wiring diagram will be indicated.

There are no user adjustments on these microphone stations. All adjustments are preset at the factory for optimum performance when used with IED systems. Do not change settings or attempt to service this equipment without consulting with the factory. Doing so may void the warranty.



MICROPHONE STATION TYPE	SYSTEM SERIES OR EXPANSION STATION	DIAGRAM FIGURE NUMBER	DIAGRAM PAGE
500HFM-H	500ACS	1	3
500HFM-H	2000 Series UDAPS™	2	4
500HFM-H	8000 Series TIPS™	3	5
500HFM-G	500ACS™	4	6
500HFM-G	2000 Series UDAPS™	5	7
500HFM-G	8000 Series TIPS™	6	8
500VFM-H	500ACS™	7	9
500VFM-H	2000 Series UDAPS™	8	10
500VFM-H	8000 Series TIPS™	9	11
500VFM-G	500ACS	10	12
500VFM-G	2000 Series UDAPS™	12	14
500VFM-G	8000 Series TIPS™	13	15
500FMEC-H	8000 Series TIPS™	11	13
500LD-H	500ACS	14	16
500LD-H	2000 Series UDAPS™	15	17
500LD-H	8000 Series TIPS™	16	18
500DT-H/G	500ACS	17	19
500DT-H/G	2000 Series UDAPS™	18	20
500DT-H/G	8000 Series TIPS™	19	21
500HFM-H	500FME-H	20	22
500HFM-H	500LDE-H	21	23
500VFM-H	500FME-H	22	24
500VFM-H	500LDE-H	23	25
500LD-H	500FME-H	24	26
500LD-H	500LDE-H	25	27

Table 1 - Wiring Diagram Locator

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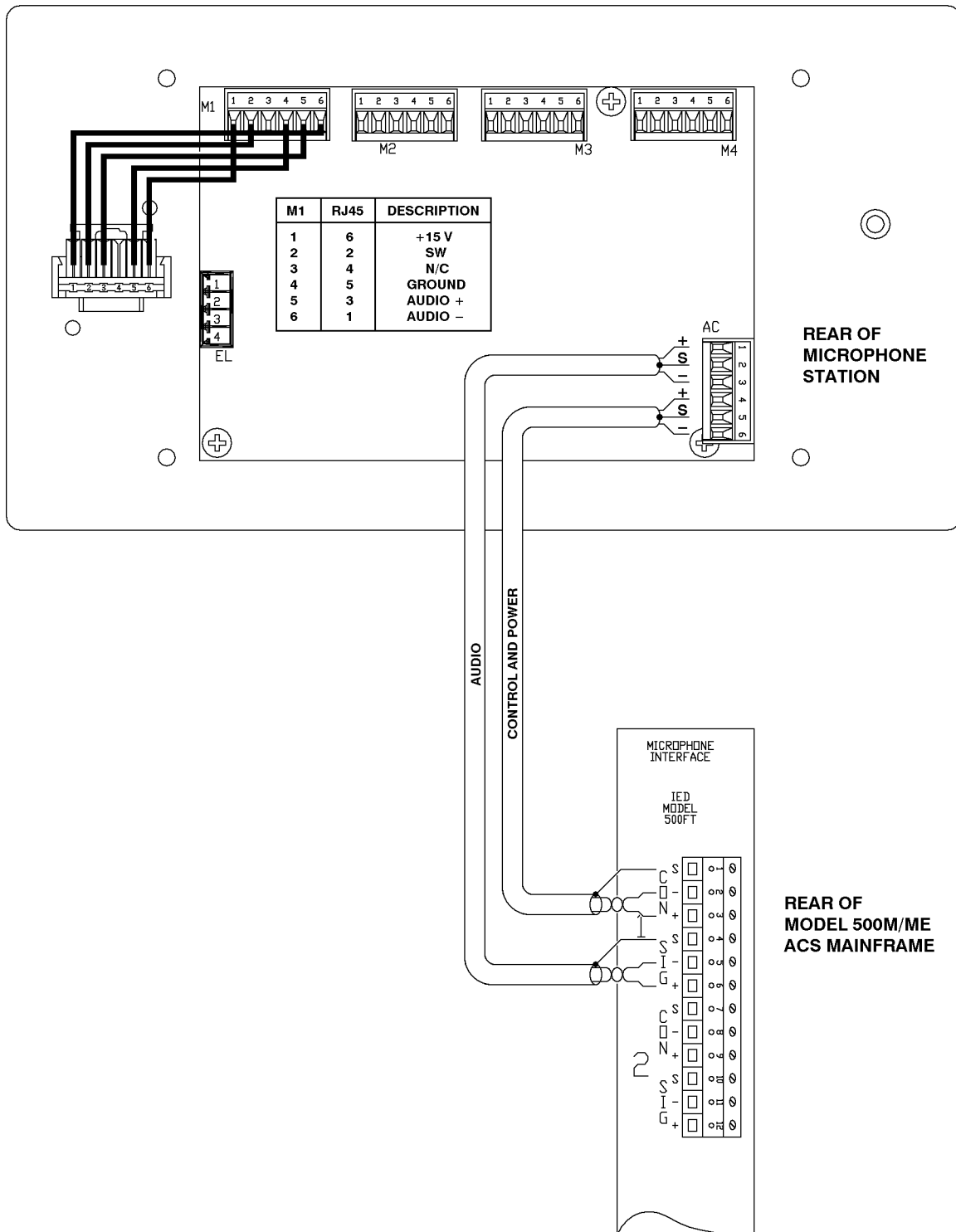


Figure 1 - Interconnection Diagram  
Model 500HFM-H to 500ACS



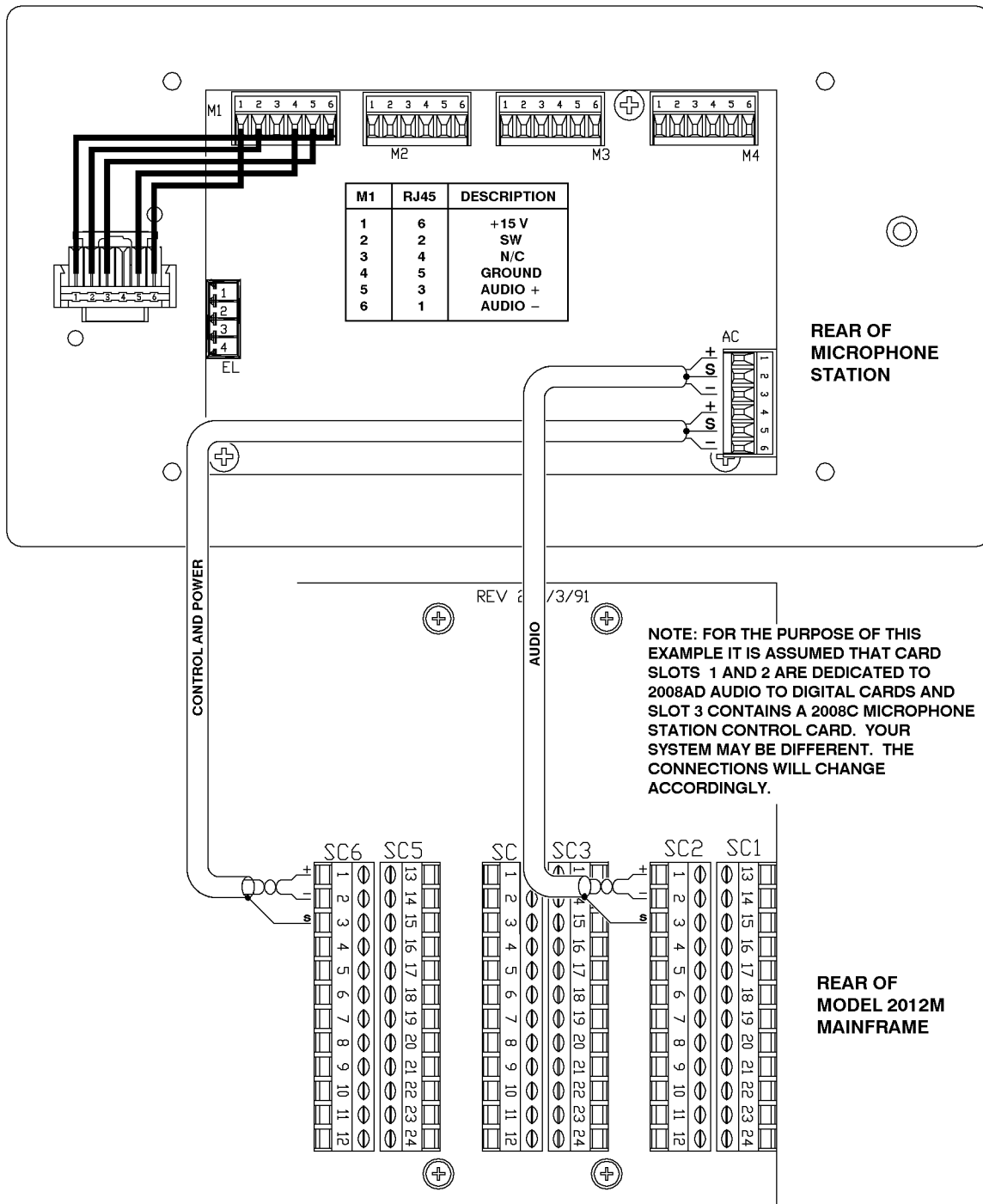


Figure 2 - Interconnection Diagram  
 Model 500HFM-H to 2000 Series UDAPS™

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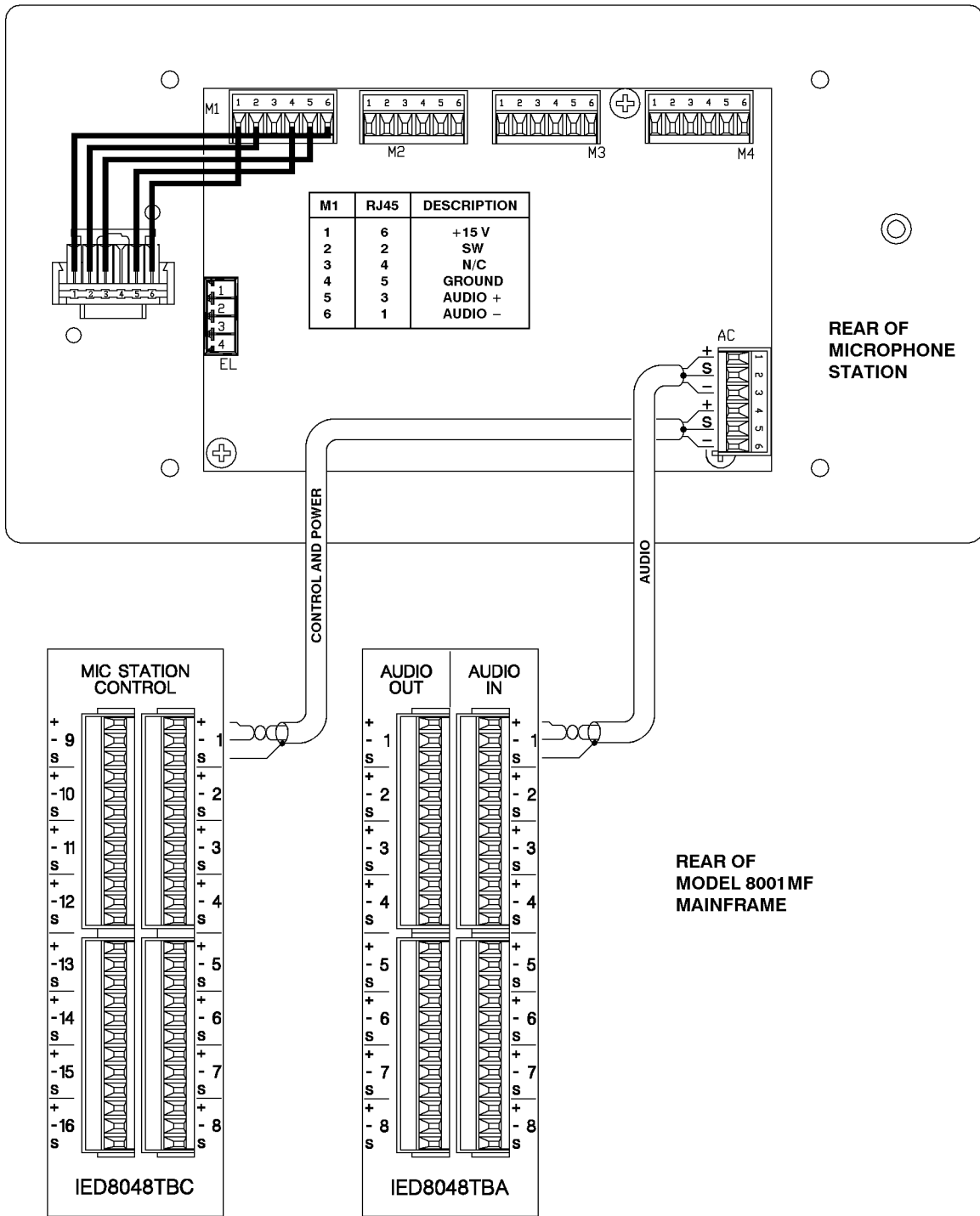


Figure 3 - Interconnection Diagram  
 Model 500HFM-H to 8000 Series TIPS™



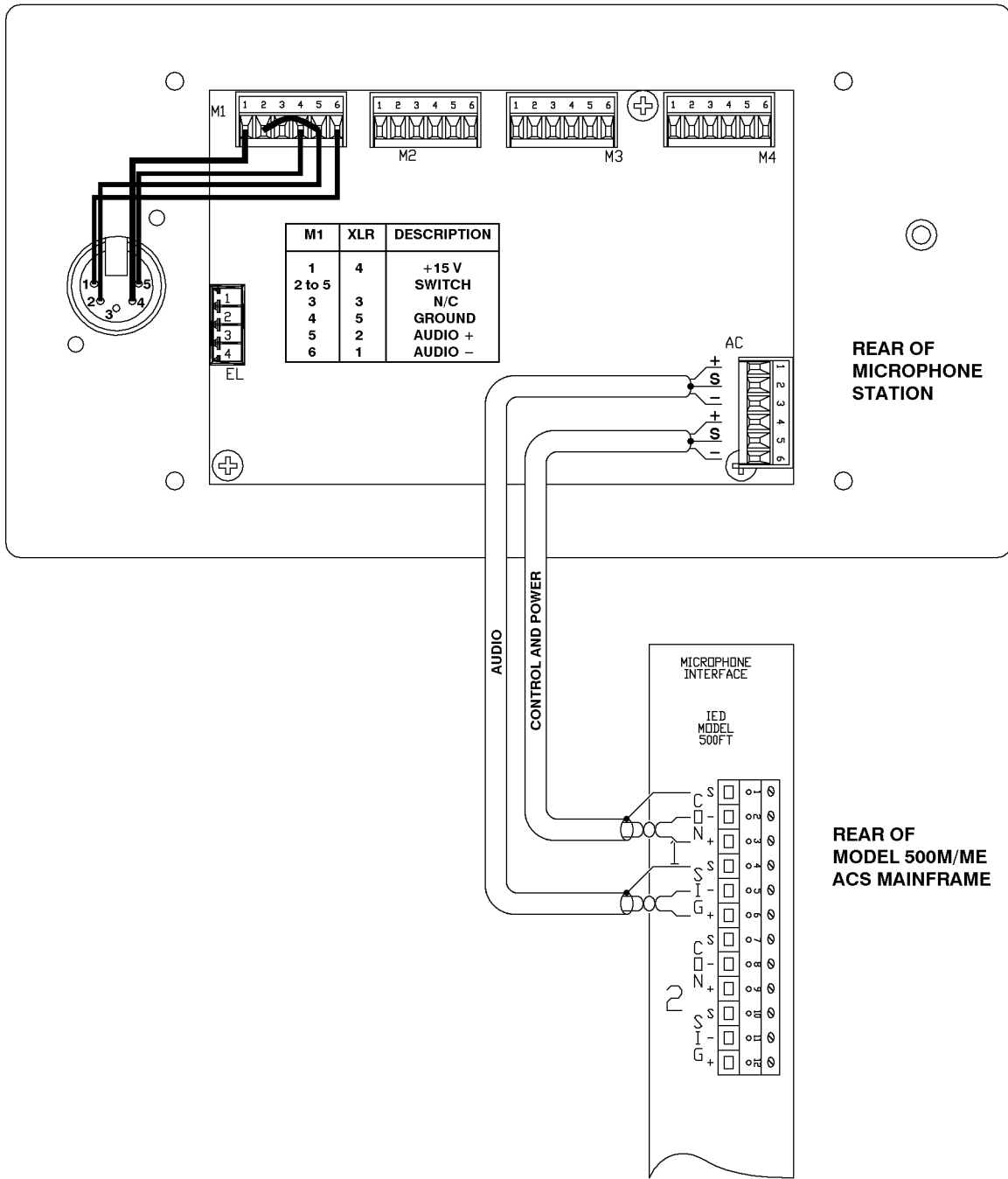


Figure 4 - Interconnection Diagram  
Model 500HFM-G to 500ACS

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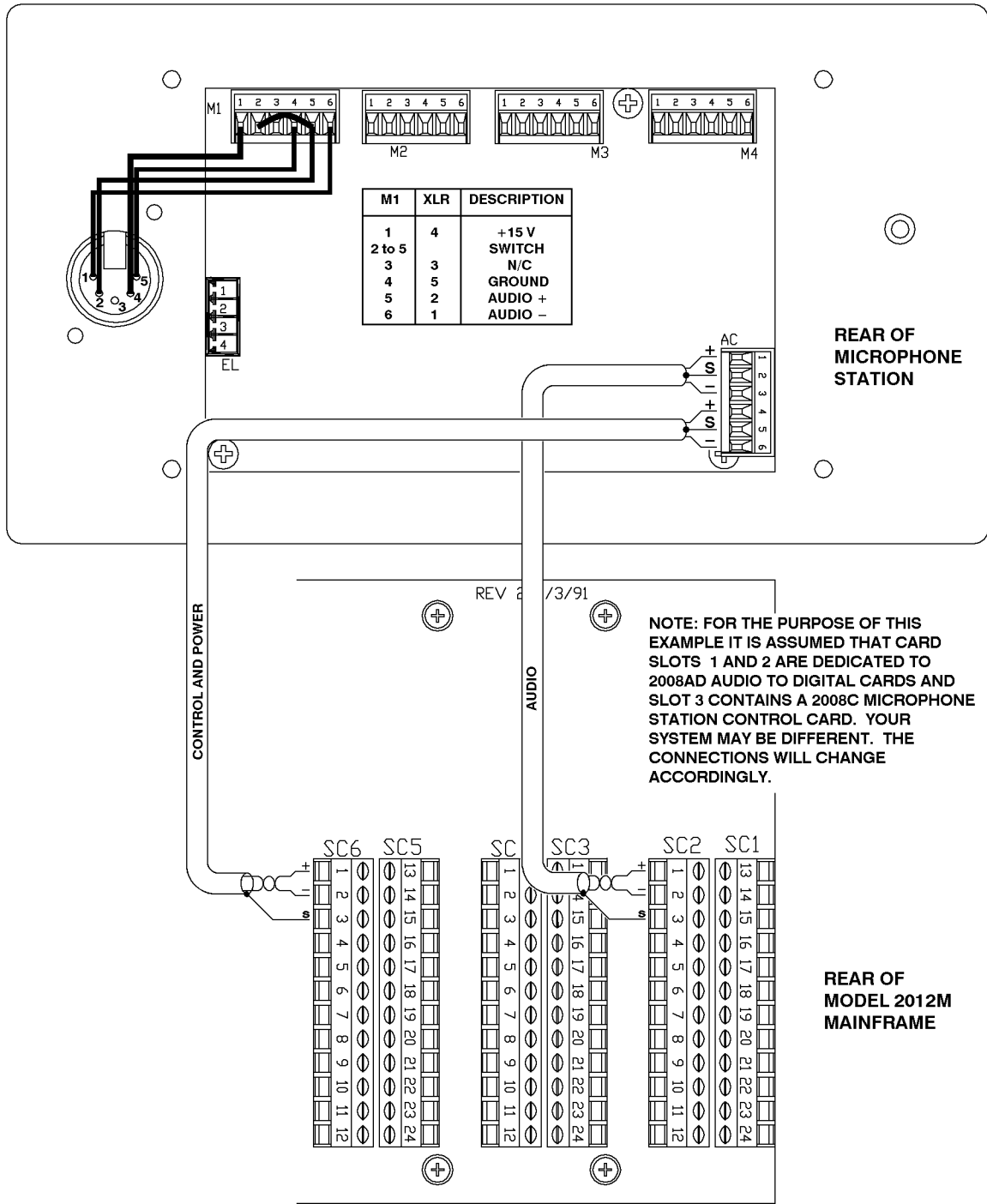


Figure 5 - Interconnection Diagram  
 Model 500HFM-G to 2000 Series UDAPS™



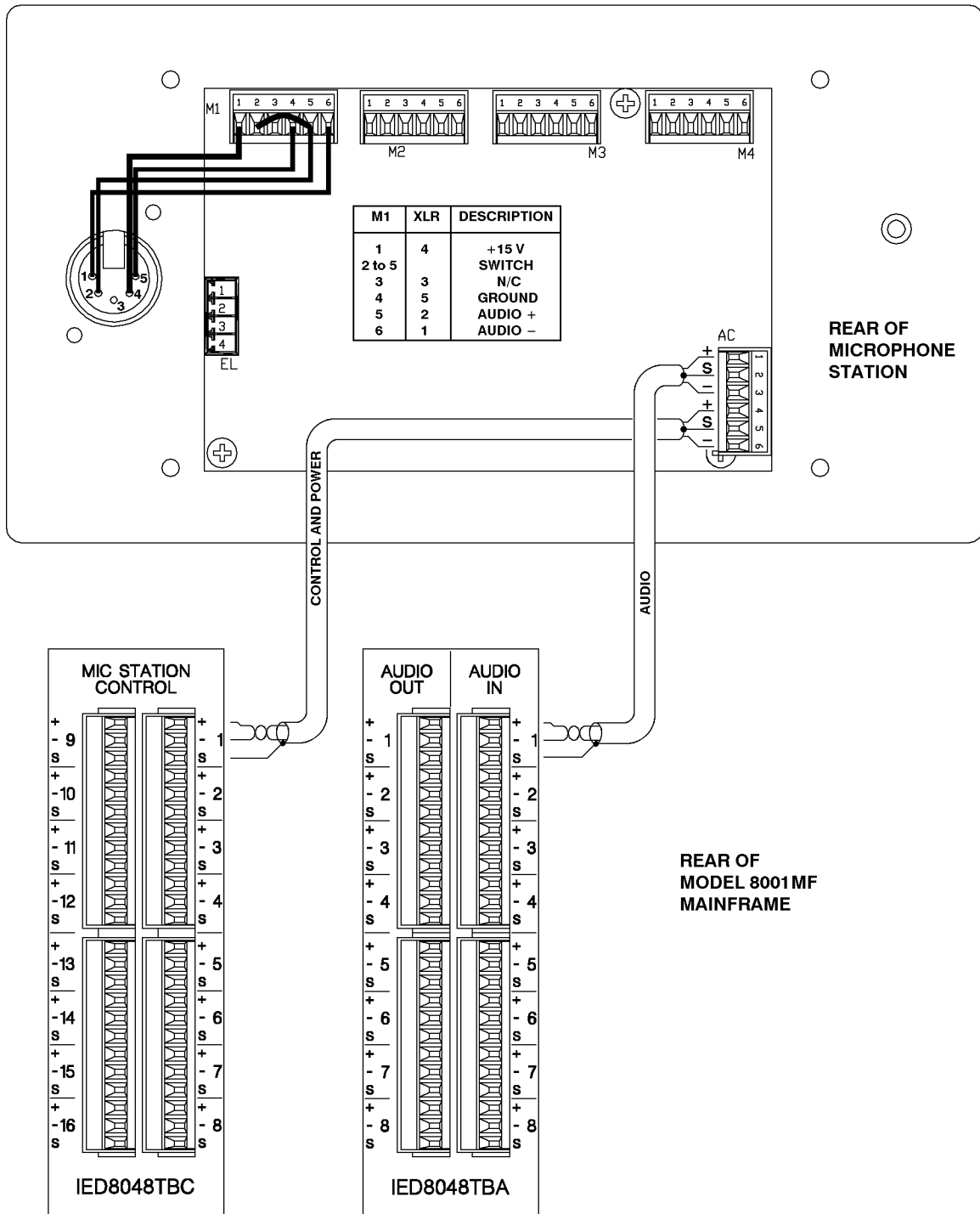


Figure 6 - Interconnection Diagram  
Model 500HFM-G to 8000 Series TIPS™

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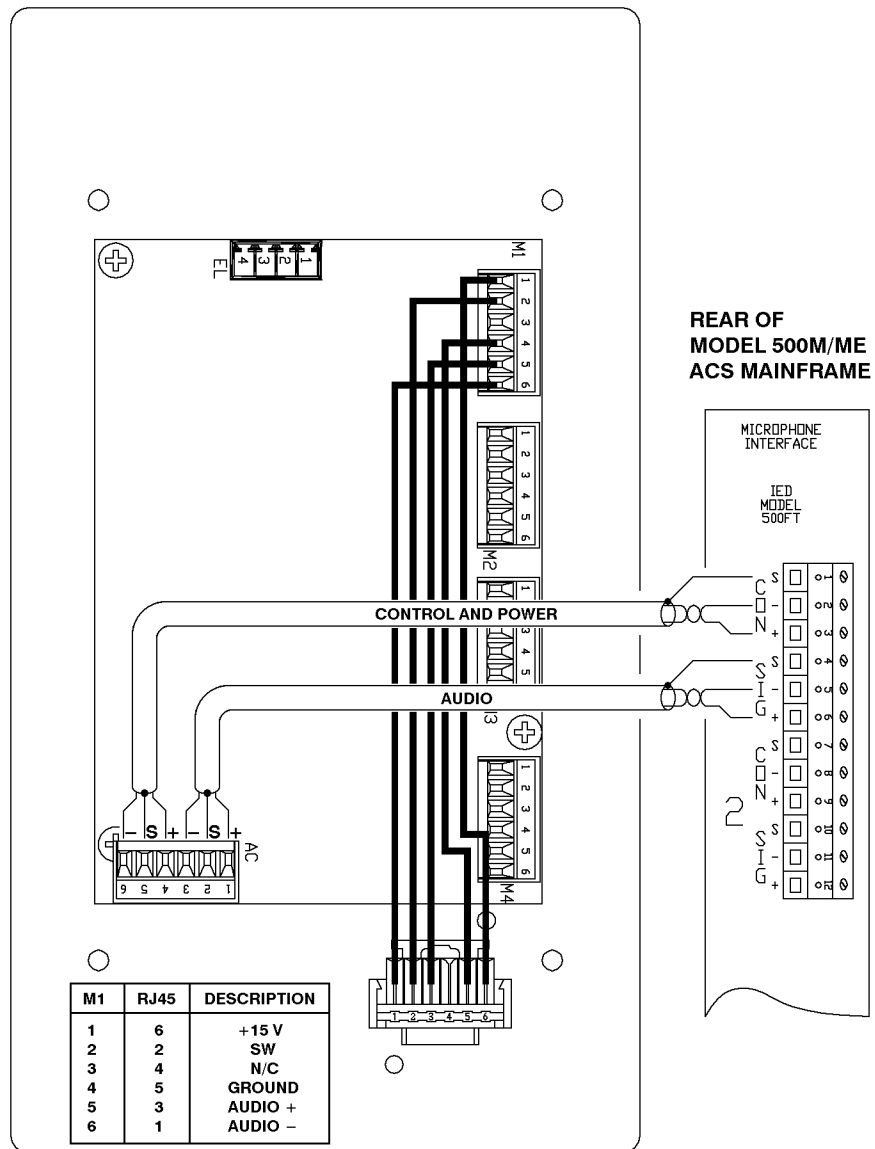


Figure 7 - Interconnection Diagram  
Model 500VFM-H to 500ACS



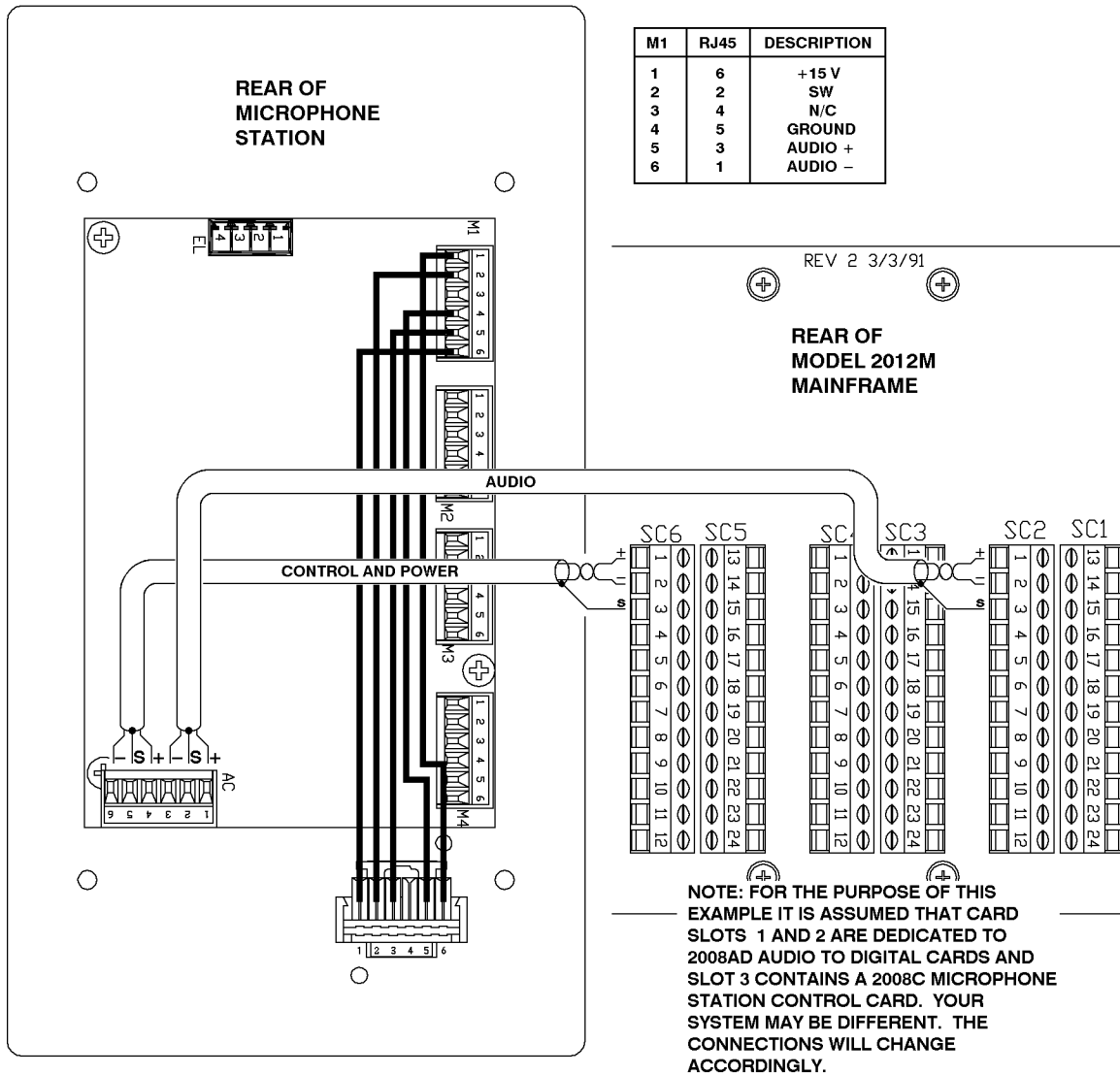


Figure 8 - Interconnection Diagram  
Model 500VFM-H to 2000 Series UDAPS™

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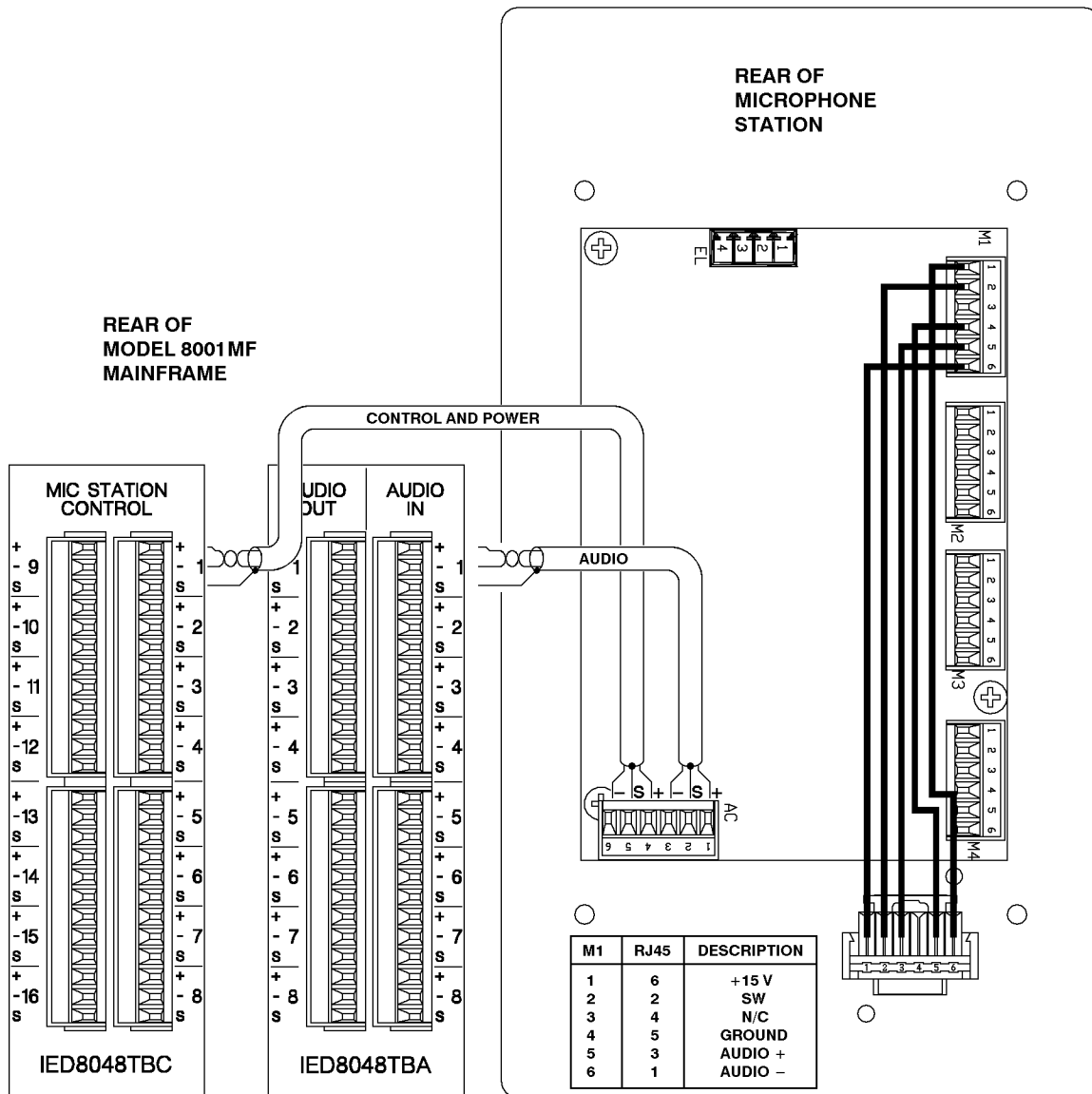


Figure 9 - Interconnection Diagram  
Model 500VFM-H to 8000 Series TIPS™



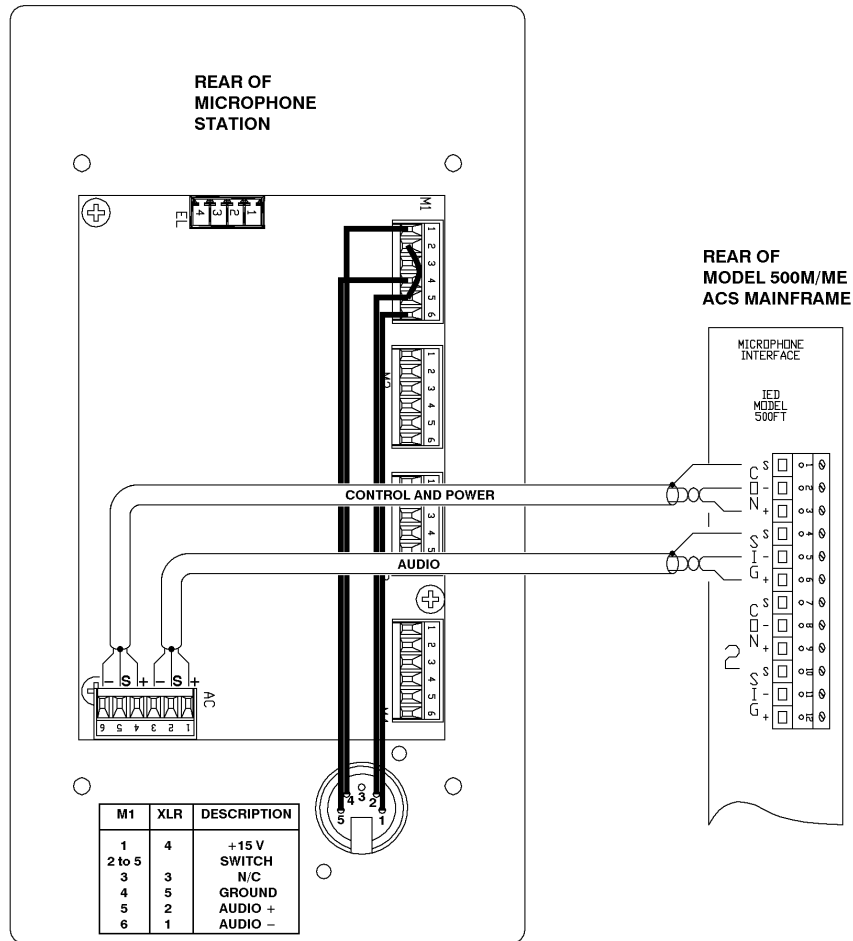


Figure 10 - Interconnection Diagram  
Model 500VFM-G to 500ACS

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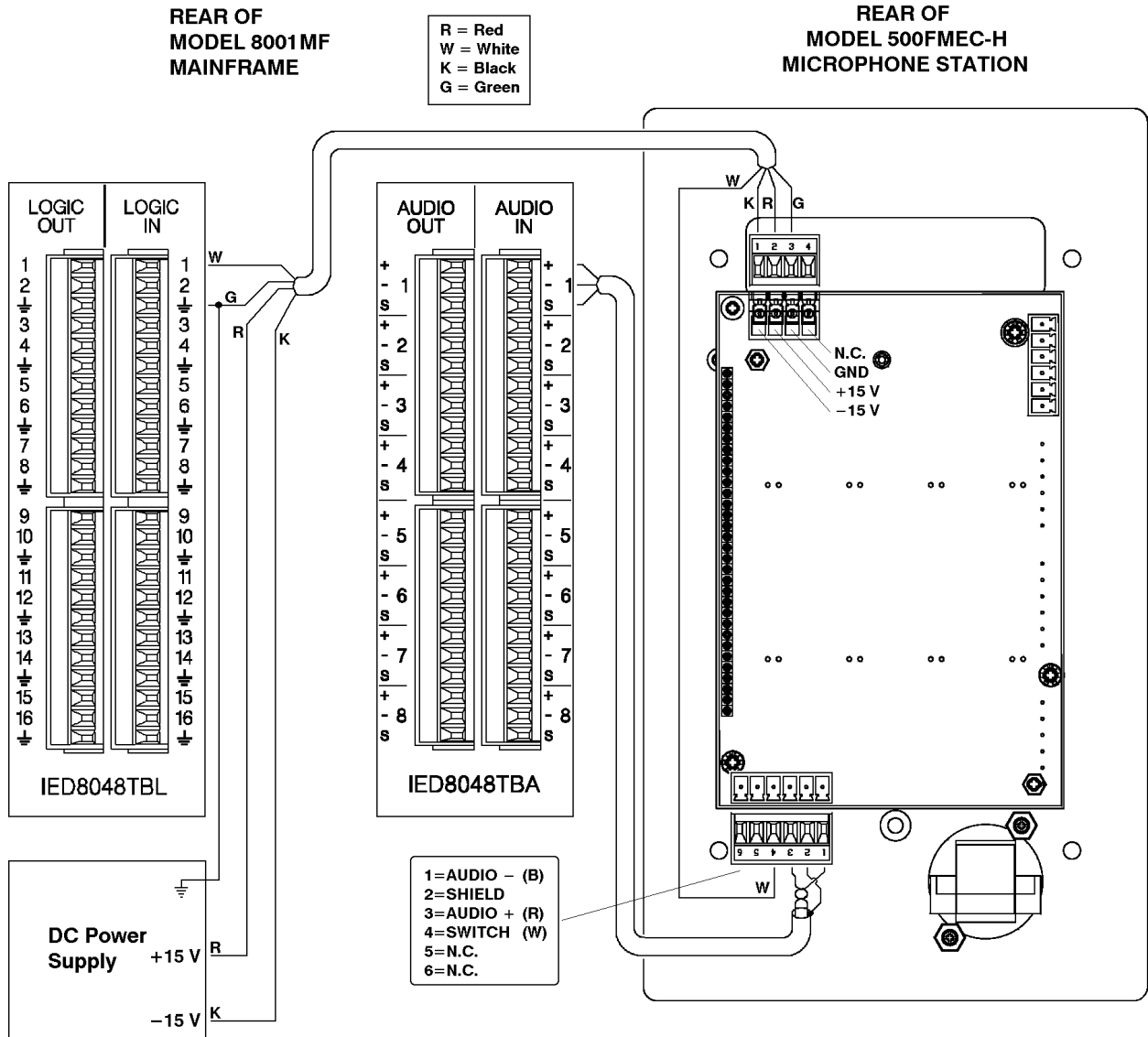


Figure 11 - Interconnection Diagram  
500FMEC-H to 8000 Series TIPS®



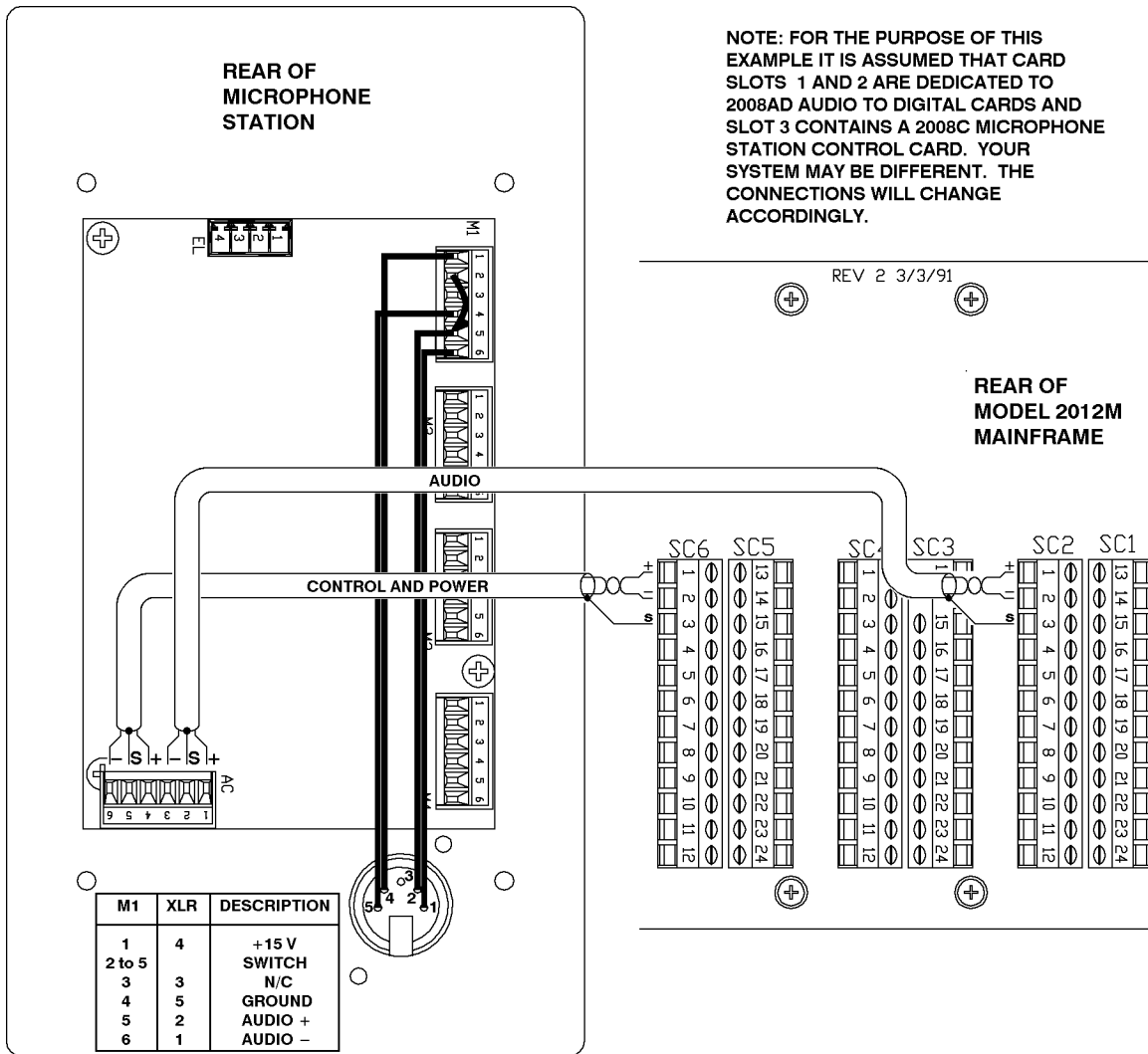


Figure 12 - Interconnection Diagram  
Model 500VFM-G to 2000 Series UDAPS™

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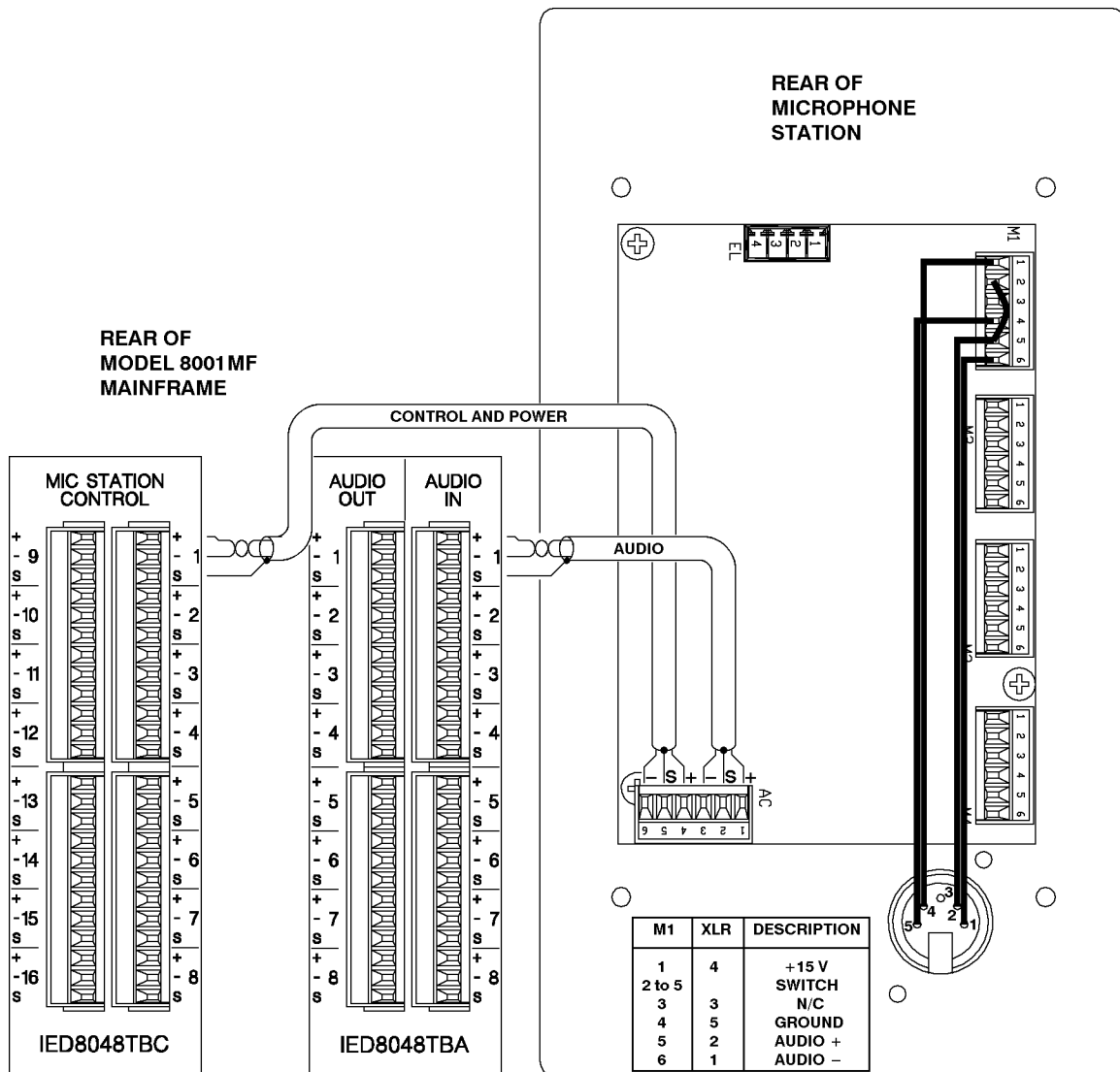


Figure 13 - Interconnection Diagram  
Model 500VFM-G to 8000 Series TIPS™



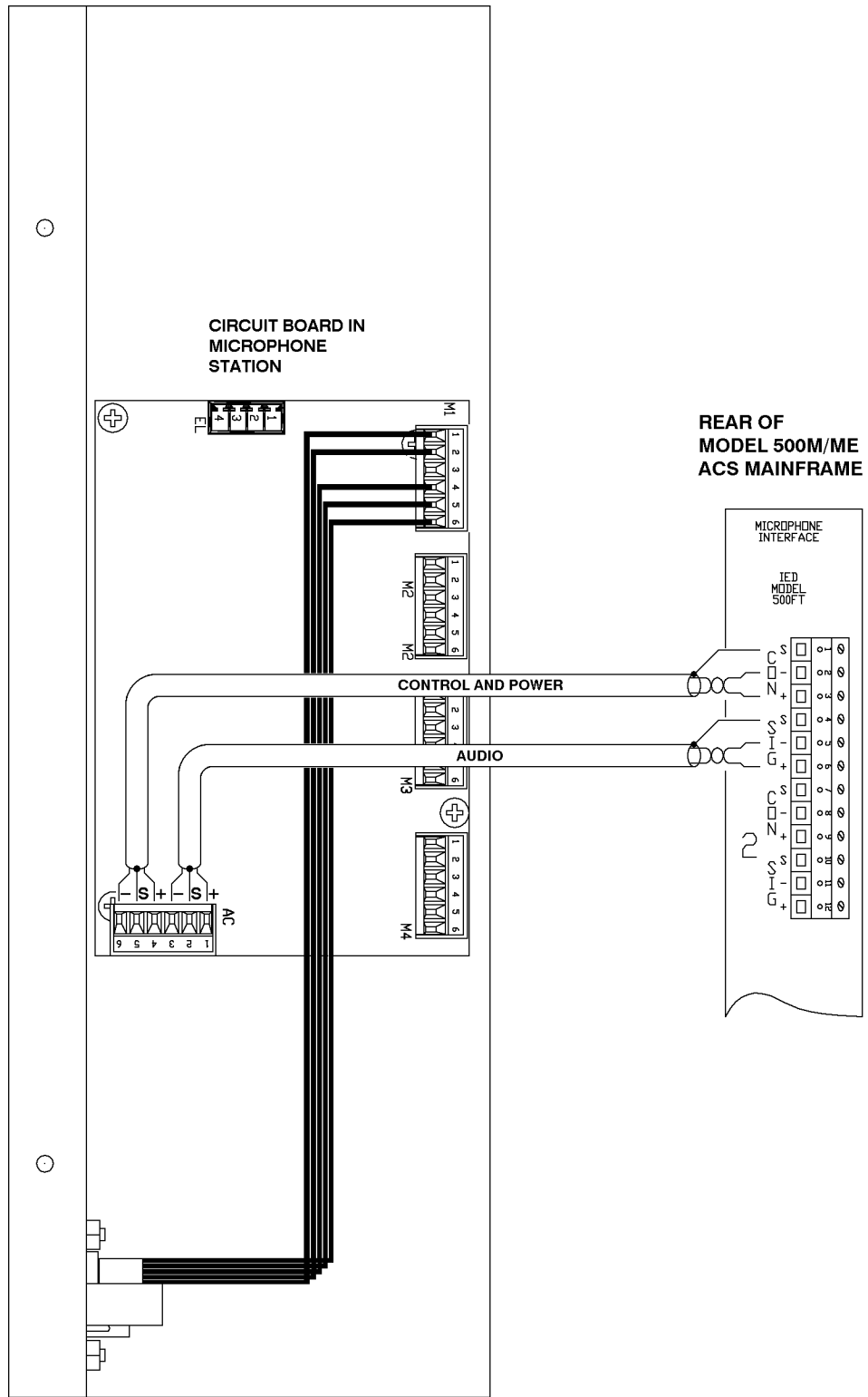


Figure 14 - Interconnection Diagram  
Model 500LD-H to 500ACS

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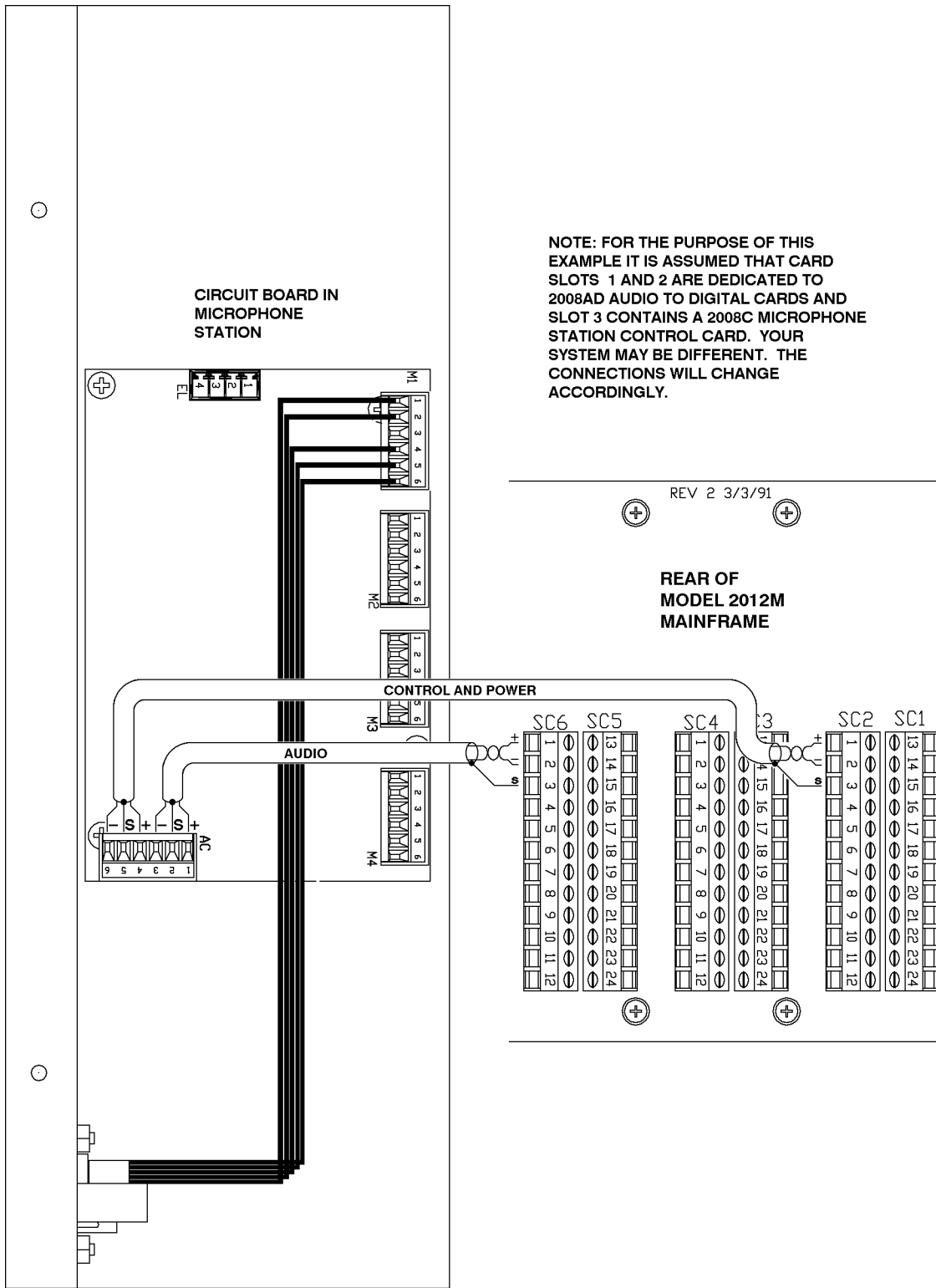


Figure 15 - Interconnection Diagram  
Model 500LD-H to 2000 Series UDAPS™



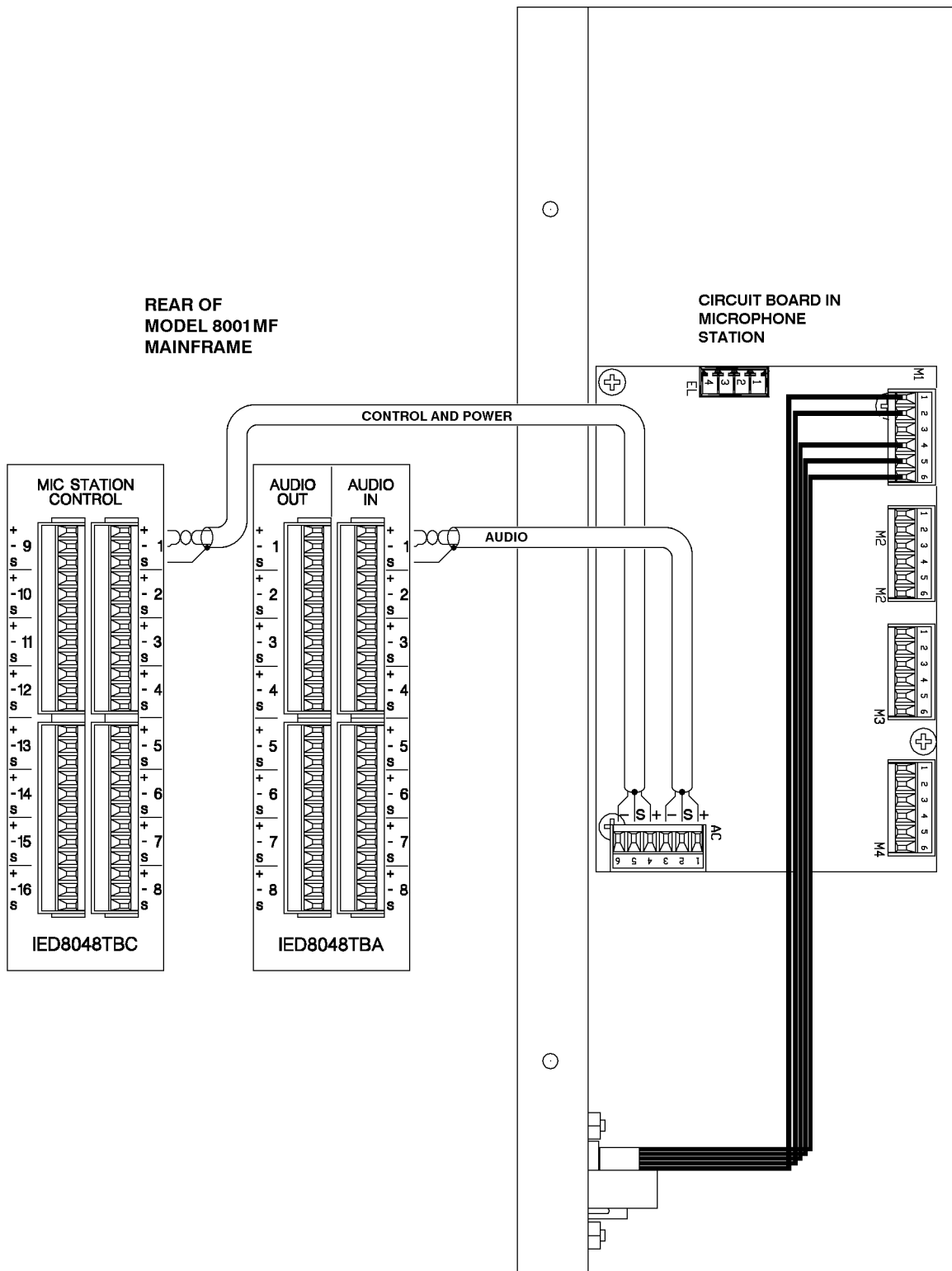


Figure 16 - Interconnection Diagram  
Model 500LD-H to 8000 Series TIPS™

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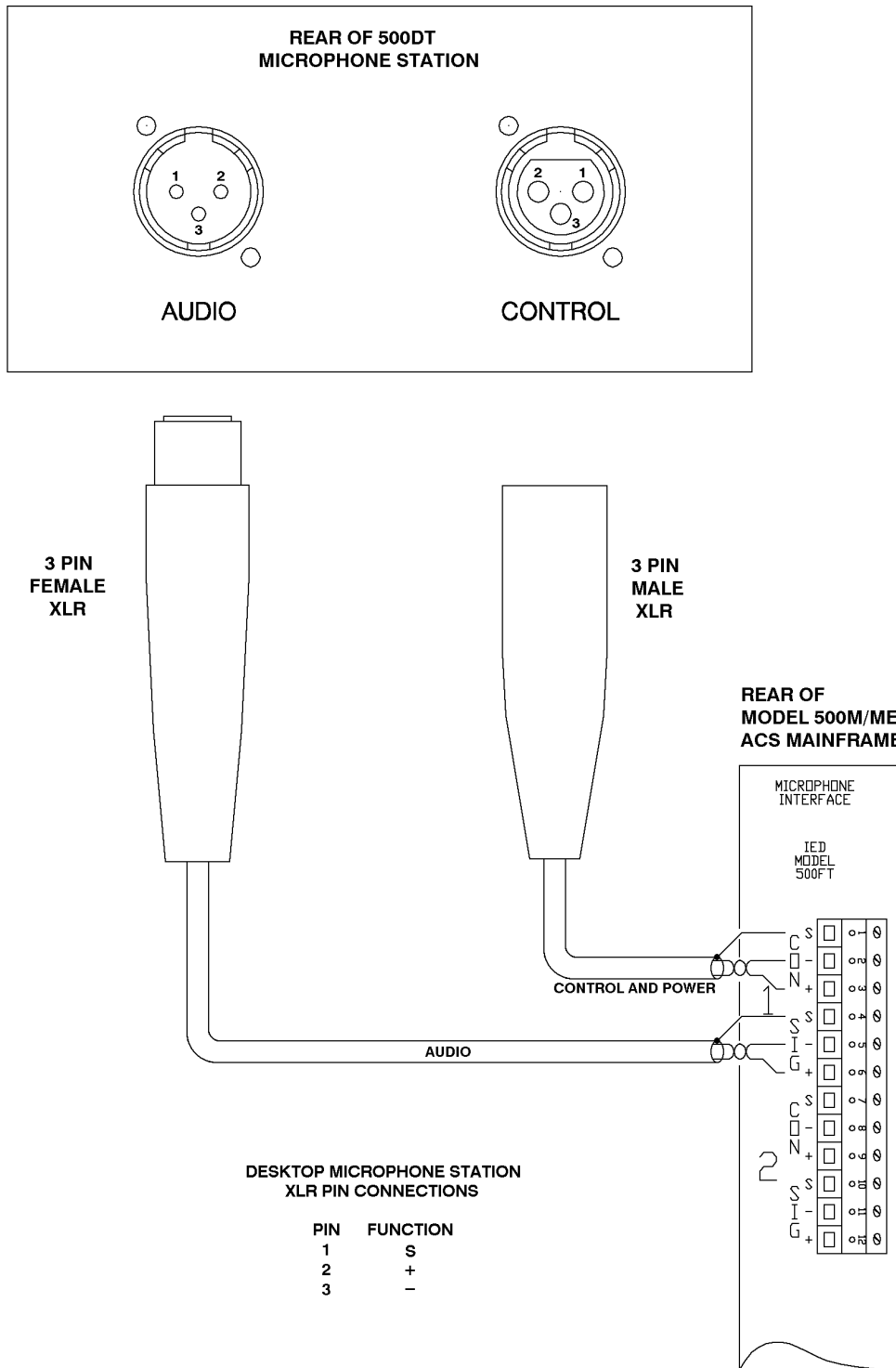


Figure 17 - Interconnection Diagram  
Models 500DT-G or 500DT-H to 500ACS



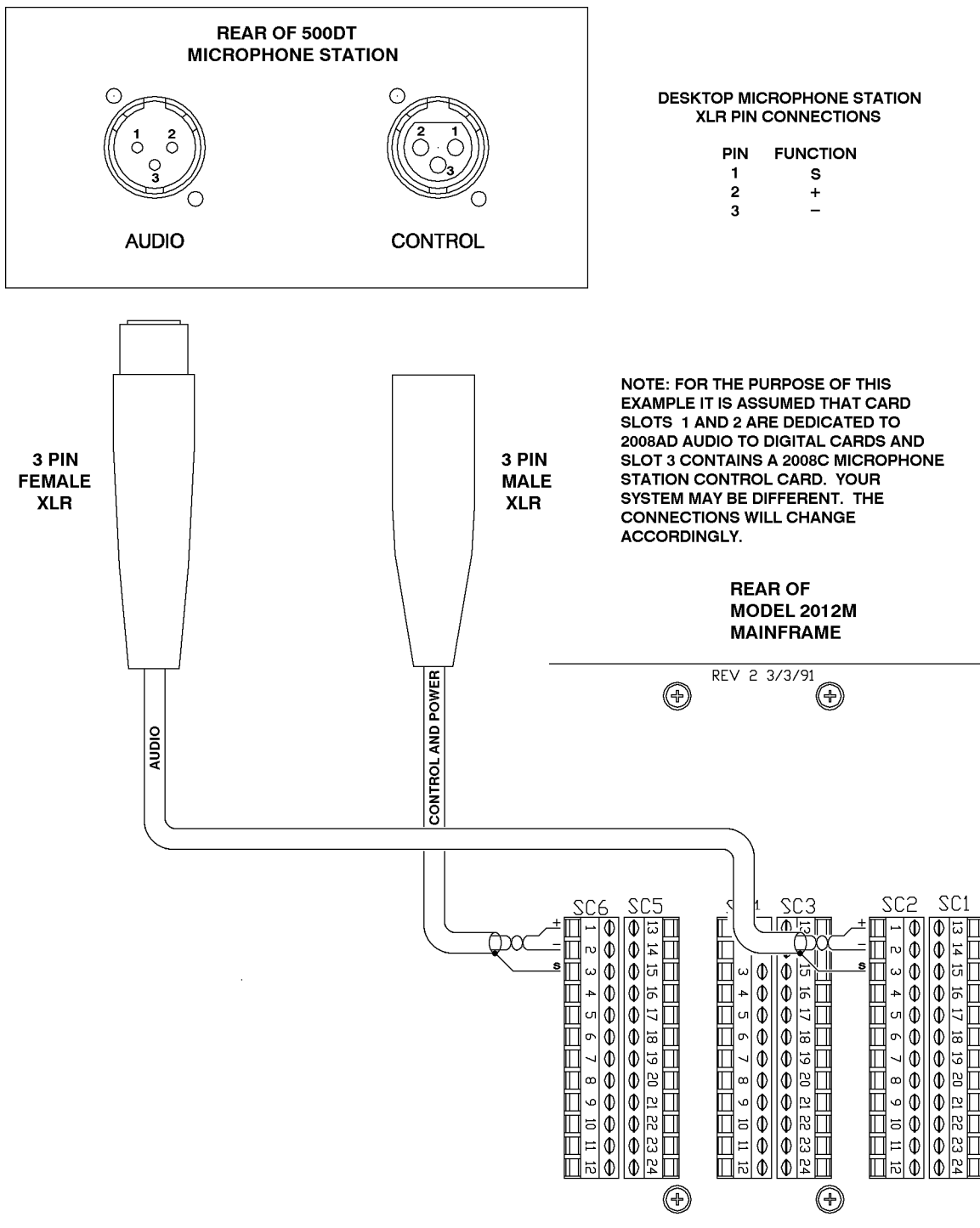


Figure 18 - Interconnection Diagram  
Models 500DT-G or 500DT-H to 2000 Series UDAPS™

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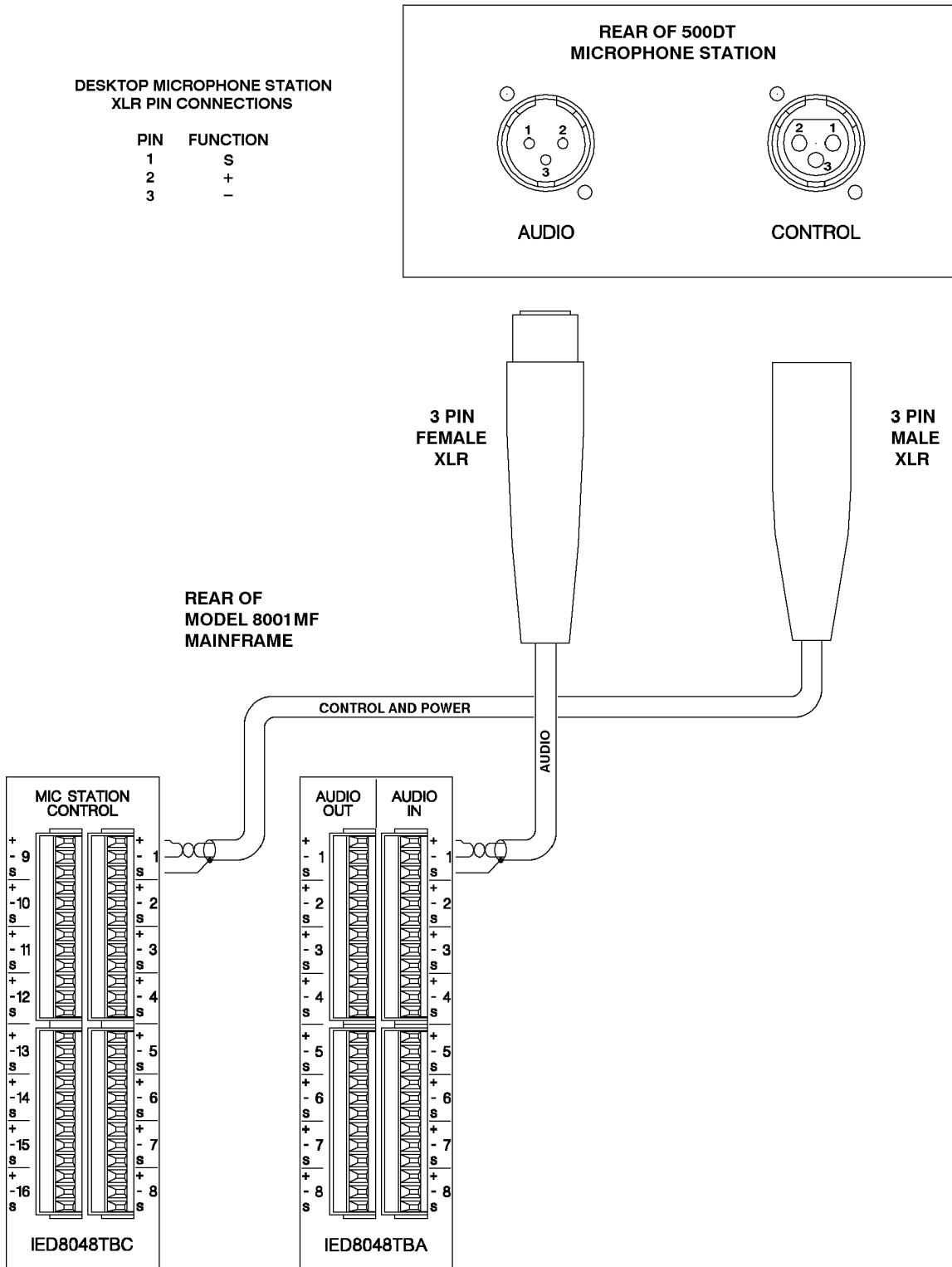


Figure 19 - Interconnection Diagram  
 Models 500DT-G or 500DT-H to 8000 Series TIPS™



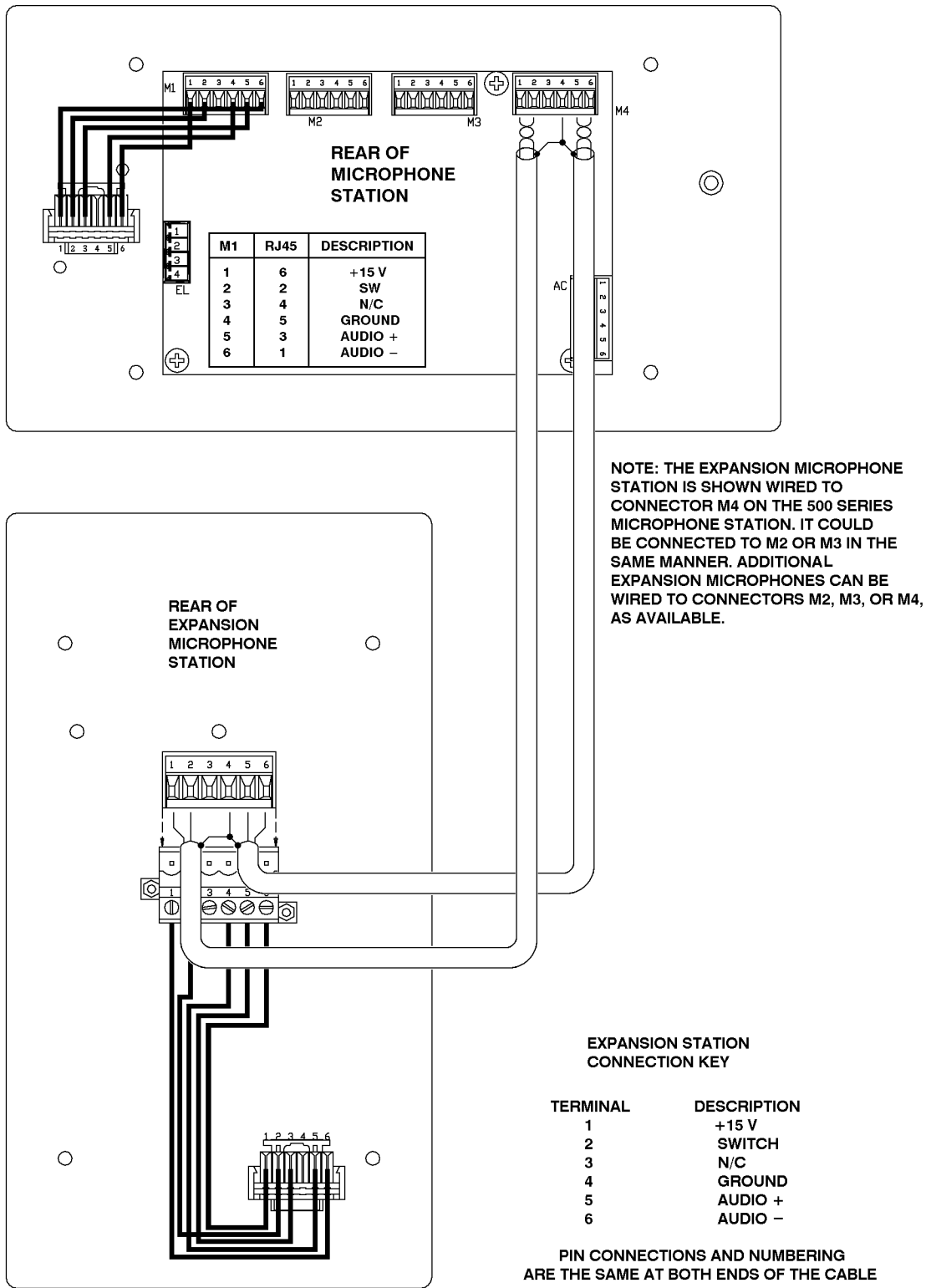
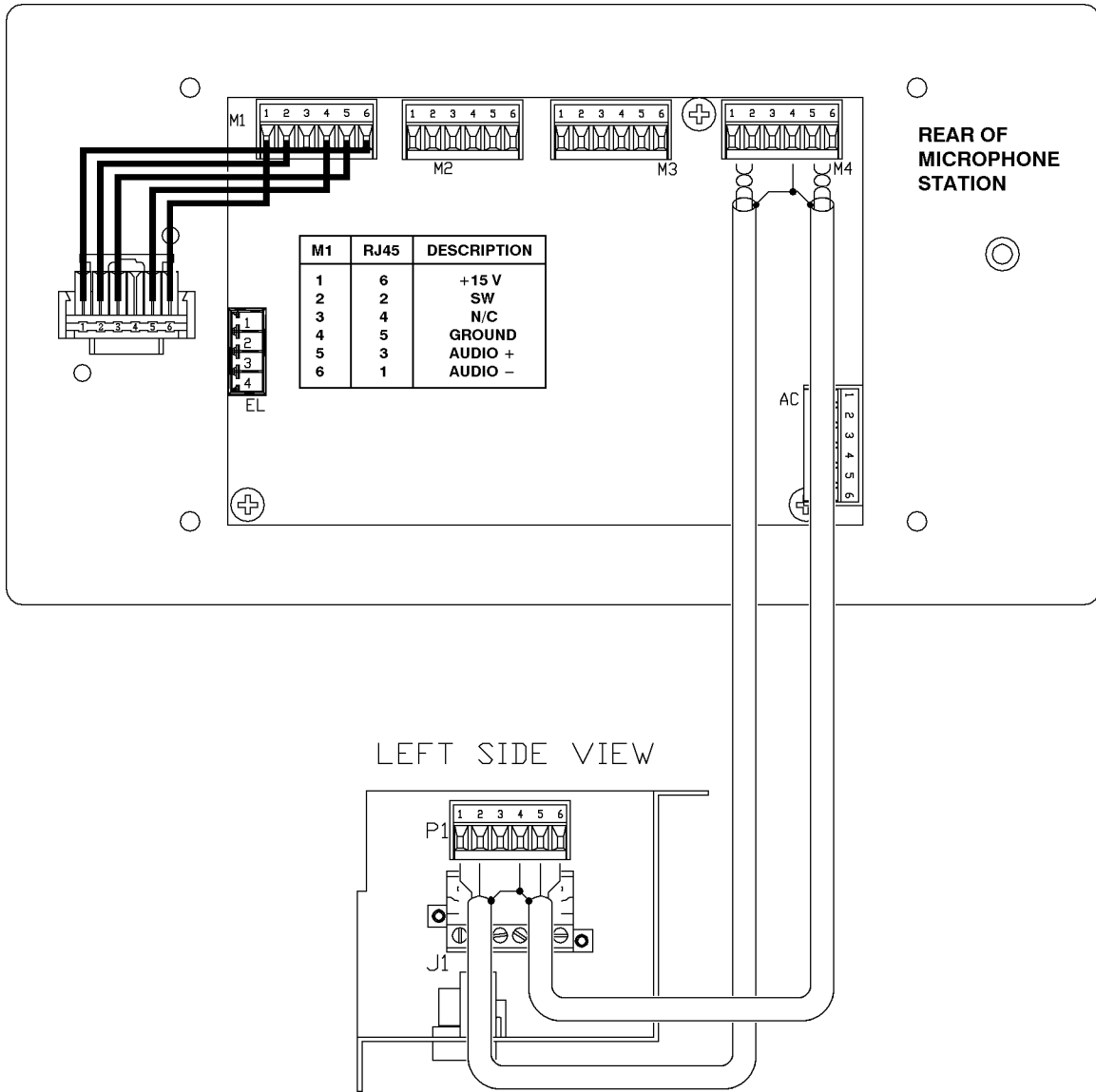


Figure 20 - Interconnection Diagram  
Model 500HFM-H to 500FME-H

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**EXPANSION STATION CONNECTION KEY**

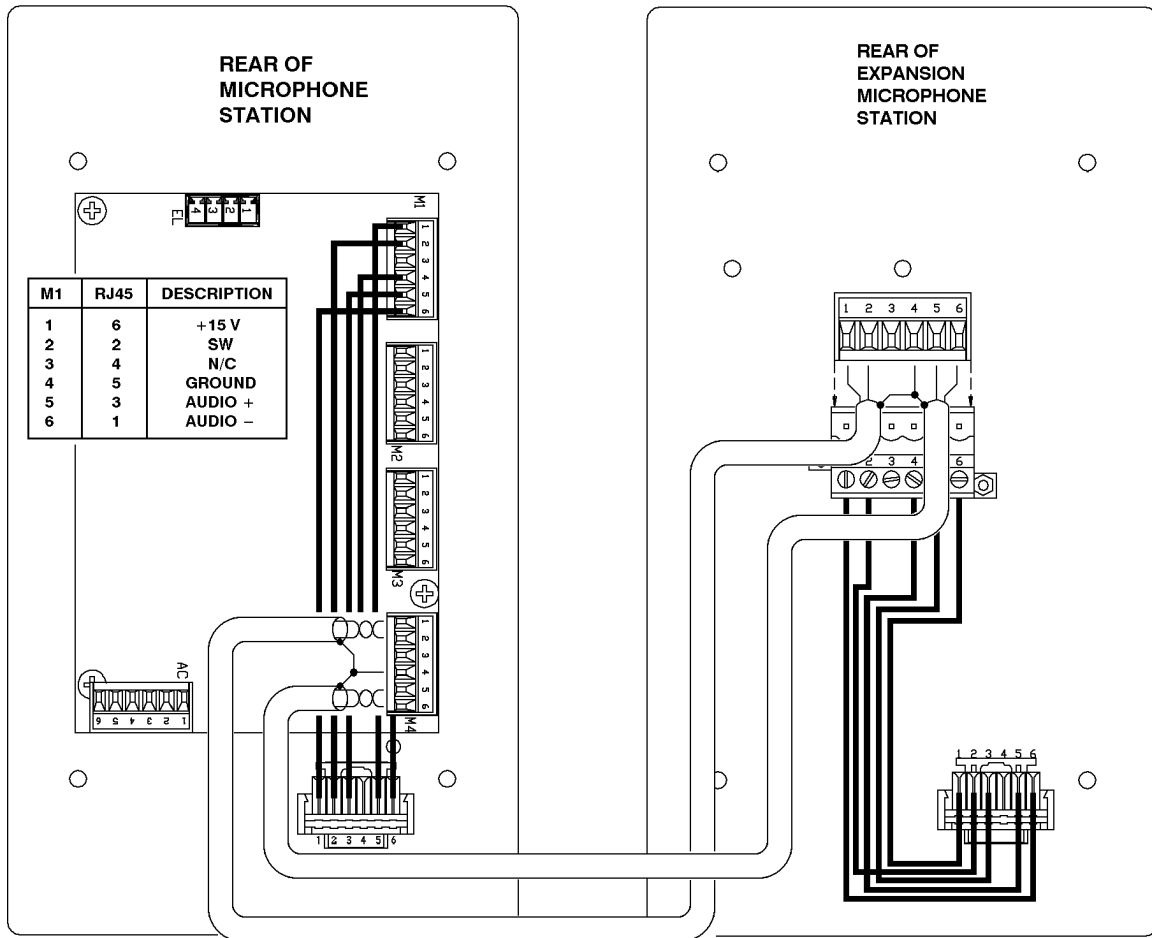
TERMINAL	DESCRIPTION
1	+15 V
2	SWITCH
3	N/C
4	GROUND
5	AUDIO +
6	AUDIO -

PIN CONNECTIONS AND NUMBERING ARE THE SAME AT BOTH ENDS OF THE CABLE

NOTE: THE EXPANSION MICROPHONE STATION IS SHOWN WIRED TO CONNECTOR M4 ON THE 500 SERIES MICROPHONE STATION. IT COULD BE CONNECTED TO M2 OR M3 IN THE SAME MANNER. ADDITIONAL EXPANSION MICROPHONES CAN BE WIRED TO CONNECTORS M2, M3, OR M4, AS AVAILABLE.

Figure 21 - Interconnection Diagram  
Model 500HFM-H to 500LDE-H





**EXPANSION STATION CONNECTION KEY**

TERMINAL	DESCRIPTION
1	+15 V
2	SWITCH
3	N/C
4	GROUND
5	AUDIO +
6	AUDIO -

PIN CONNECTIONS AND NUMBERING ARE THE SAME AT BOTH ENDS OF THE CABLE

NOTE: THE EXPANSION MICROPHONE STATION IS SHOWN WIRED TO CONNECTOR M4 ON THE 500 SERIES MICROPHONE STATION. IT COULD BE CONNECTED TO M2 OR M3 IN THE SAME MANNER. ADDITIONAL EXPANSION MICROPHONES CAN BE WIRED TO CONNECTORS M2, M3, OR M4, AS AVAILABLE.

Figure 22 - Interconnection Diagram  
Model 500VFM-H to 500FME-H

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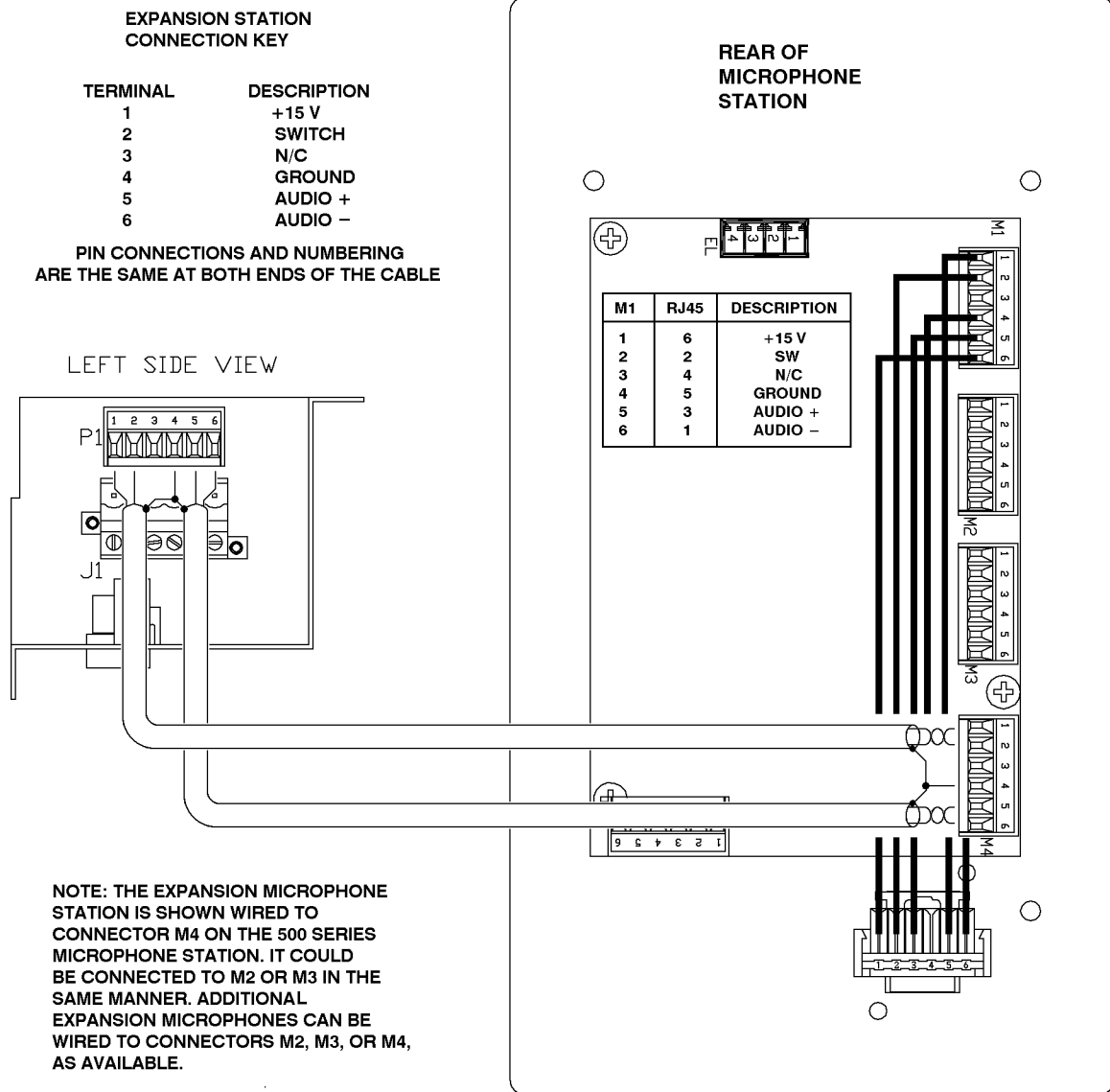


Figure 23 - Interconnection Diagram  
Model 500VFM-H to 500FME-H

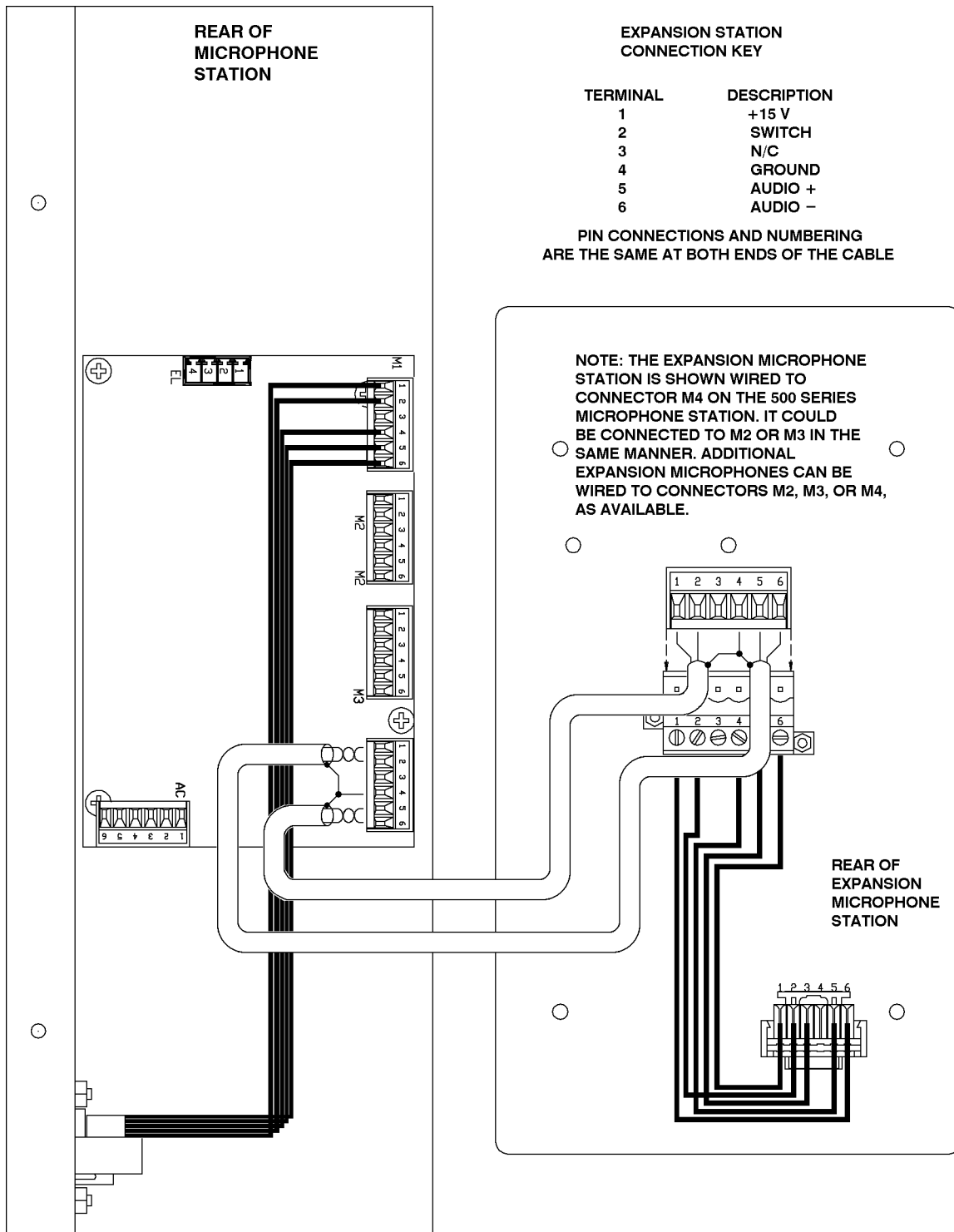


Figure 24 - Interconnection Diagram  
Model 500LD-H to 500FME-H

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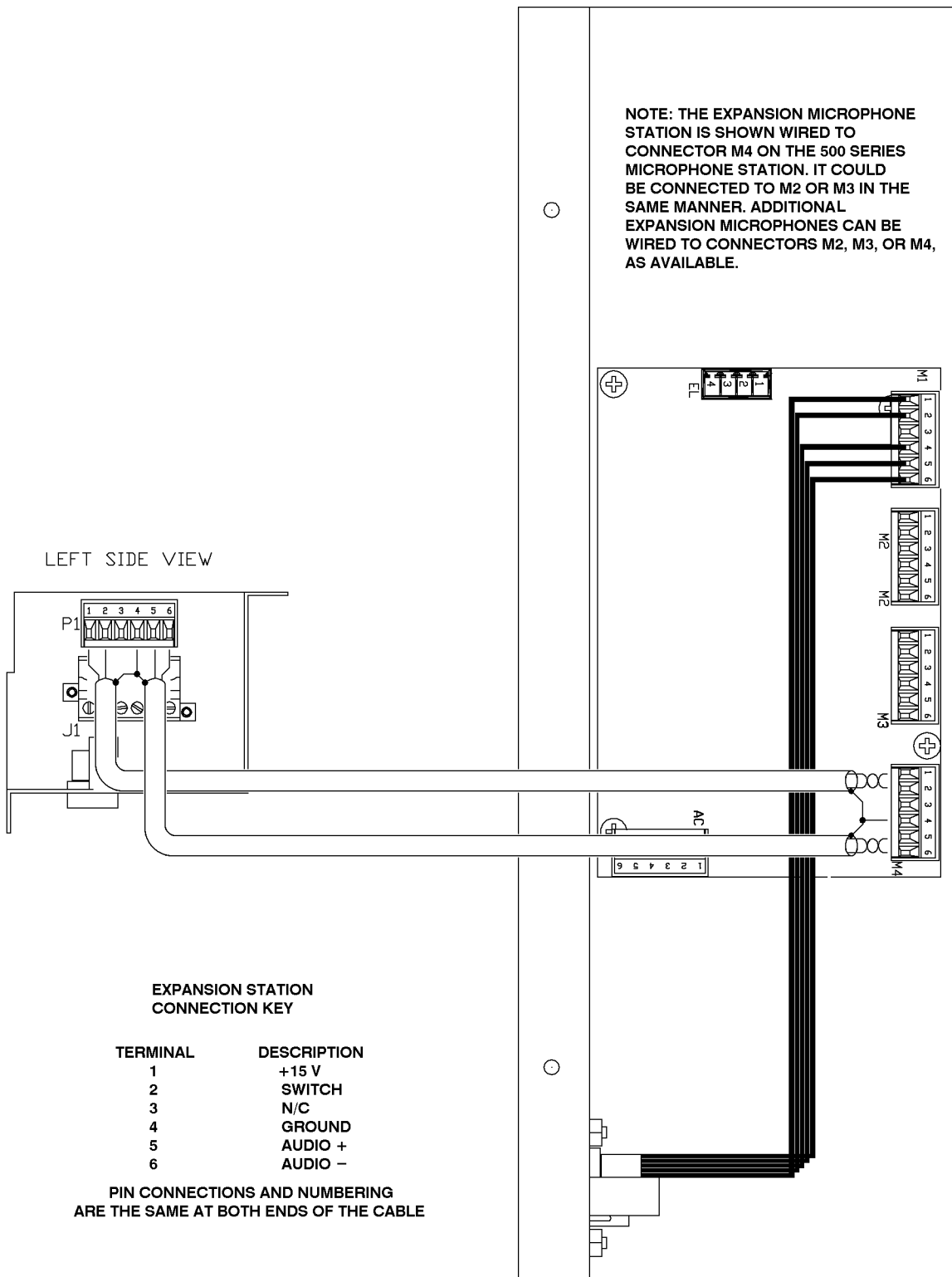


Figure 25 - Interconnection Diagram  
Model 500LD-H to 500LDE-H



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