

4A TYPE DATA MOUNTING IDENTIFICATION

1. GENERAL

1.01 This section contains a physical and functional description of the 4A Type Data Mounting shown in Fig. 1.

1.02 The 4A Type Data mounting is designed for use in a multiple data set installation. The data mounting is an integral part of the multiple data set installation in that it provides the various control functions for the installation.

1.03 The 4A Type Data Mounting is initially intended for use with the Data Auxiliary Set 804L Type, 6A1 Data Mounting, 5A1 Data Mounting (equipped with AR195 and AR196 circuit packs) and the data sets associated with the 5A1 and 6A1 Data Mountings.

2. PHYSICAL DESCRIPTION

2.01 For identification of the 4A Type Data Mounting refer to Fig. 1. Table A lists the major components called out by Fig. 1.

2.02 The 4A Type Data Mounting is designed to be mounted in a KS-20093 L1 cabinet. The data mounting is installed in the back of the cabinet at either the top or bottom of the cabinet. Four No. 12-24 mounting screws (one in each corner of the 4A) are used to hold the 4A in place.

2.03 Figure 2 shows a 4A Type Data Mounting installed in the bottom of a KS-20093 L1 cabinet. The 4A requires 10 inches of vertical mounting space and a nominal 23-inch spacing of the rear mounting brackets.

2.04 The KS-20093 L1 Cabinet should be installed on the customers premises in accordance with the section entitled Data Sets, Multiple Installation Information (590-010-201).

2.05 The installation procedure to be used for this equipment is contained in the section

entitled Data Auxiliary Set 804L Type, Installation and Connections (598-056-200).

3. FUNCTIONAL DESCRIPTION

3.01 The 4A Type Data Mounting provides the control functions which are initiated by the operation of the keys on the Data Auxiliary Set 804L Type.

3.02 Figures 3 and 4 are block diagrams showing the relationship of the 4A Type Data Mounting to the other associated equipment. One 4A Type Data Mounting can be used to control a maximum of eight 5A or 6A Type Data Mountings or any combination of these data mountings. Since each 5A or 6A controls up to a maximum of six data sets, a total of 48 data sets can be controlled by one 4A Type Data Mounting. Figure 4 shows the multiplying of eight 804L-4A1 installations by a 4A Type Data Mounting and a control console.

3.03 The 4A Type Data Mounting provides circuit bussing, power, lamp signaling, and interconnections to the other data mountings. The access function, make busy function, busy release function, and private line test function are initiated from the Data Auxiliary Set 804L Type. The relays of the 4A Type Data Mounting are used to provide the necessary control functions.

3.04 Table B shows the functions provided by the major components of the 4A Type Data Mounting. Refer to Fig. 1 and Table A for the locations and identification of these components.

3.05 Refer to Fig. 5 for information on telephone line connections to the 4A1 Data Mounting via connector J11.

4. REFERENCES

4.01 For more detailed information on the 4A Type Data Mounting refer to SD and CD-1D113-01.

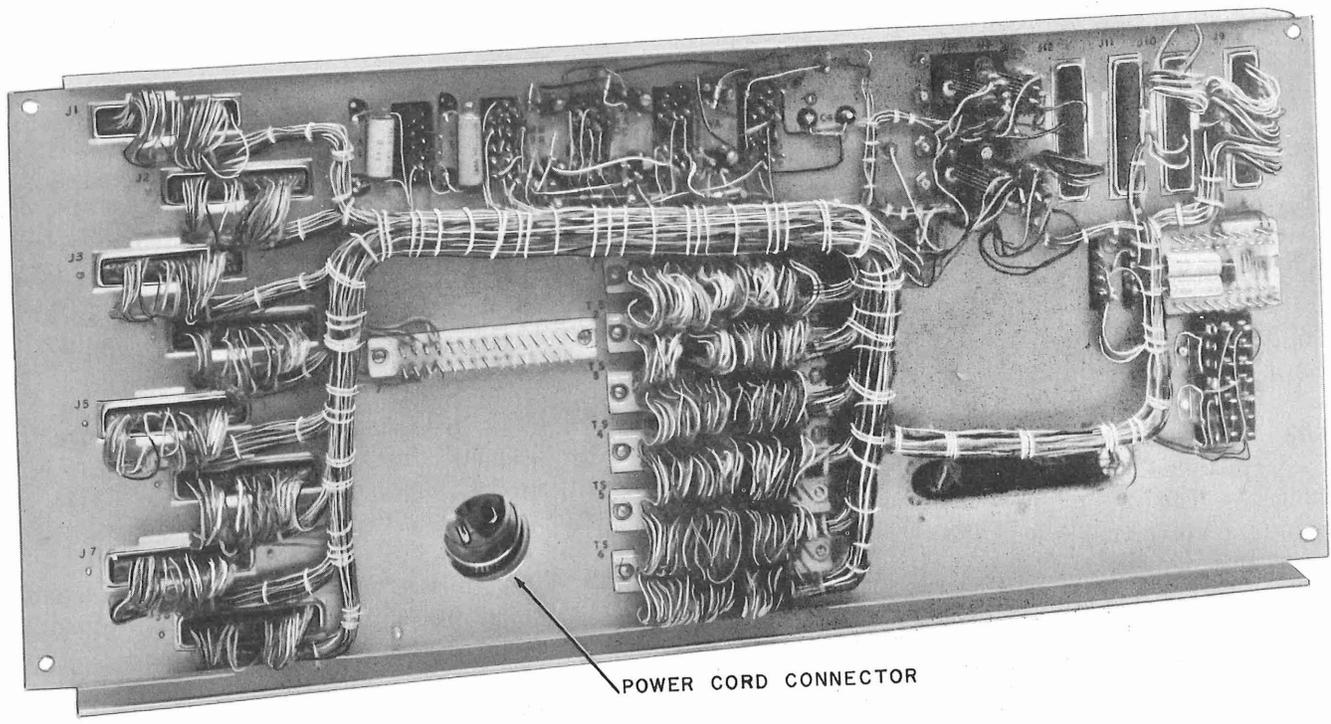
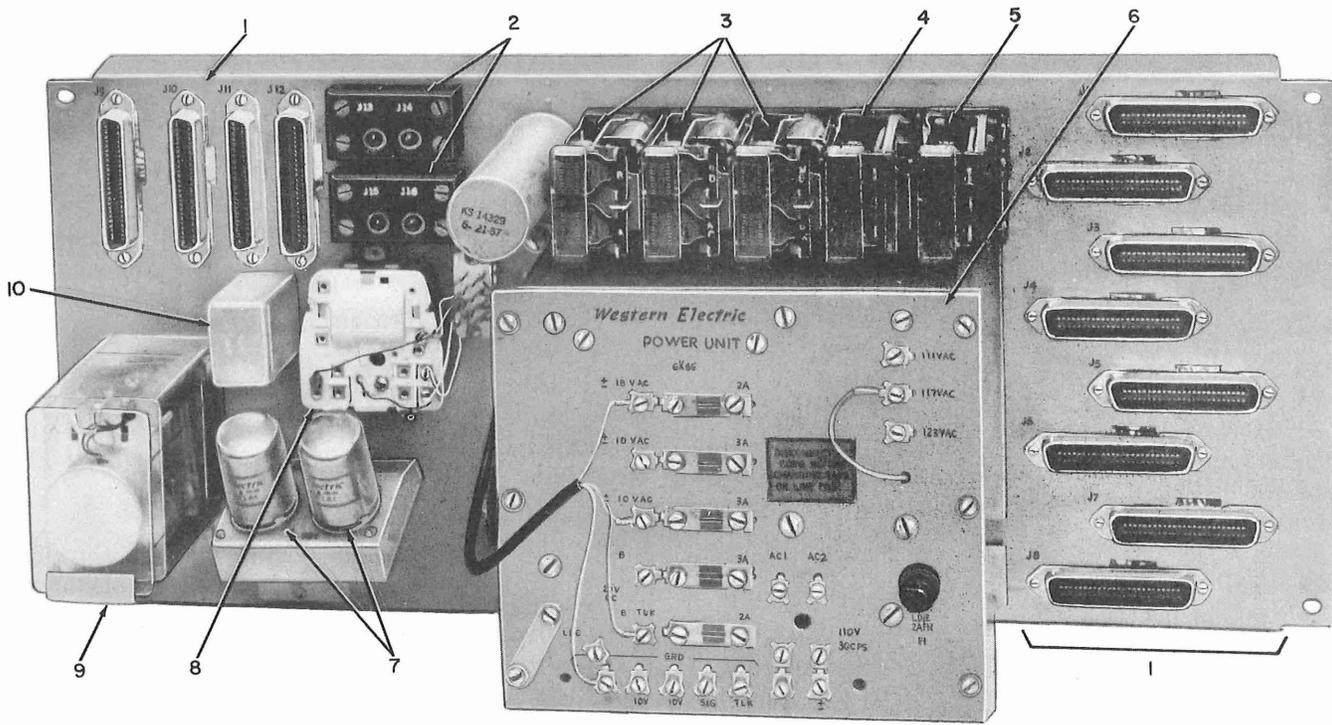


Fig. 1—4A Type Data Mounting—Front and Rear Views

TABLE A
4A1 COMPONENT LIST

KEY NUMBER	COMPONENT	DESIGNATION	NUMBER REQUIRED
1	Connector (J1 - J12)	KS-16786 L4	12
2	Jack (J13 - J16)	361C	4
3	Relay (A, B, AC, RD, BR, MB)	AK22	3
4	Relay (AT)	AG34	1
5	Relay (AL)	AJ100	1
6	Power Supply	19C2	1
7	Relay (BC, BSH)	303E	2
8	Network	4010B	1
9	Interrupter	KS-15900 L1	1
10	Transformer	2563W	1

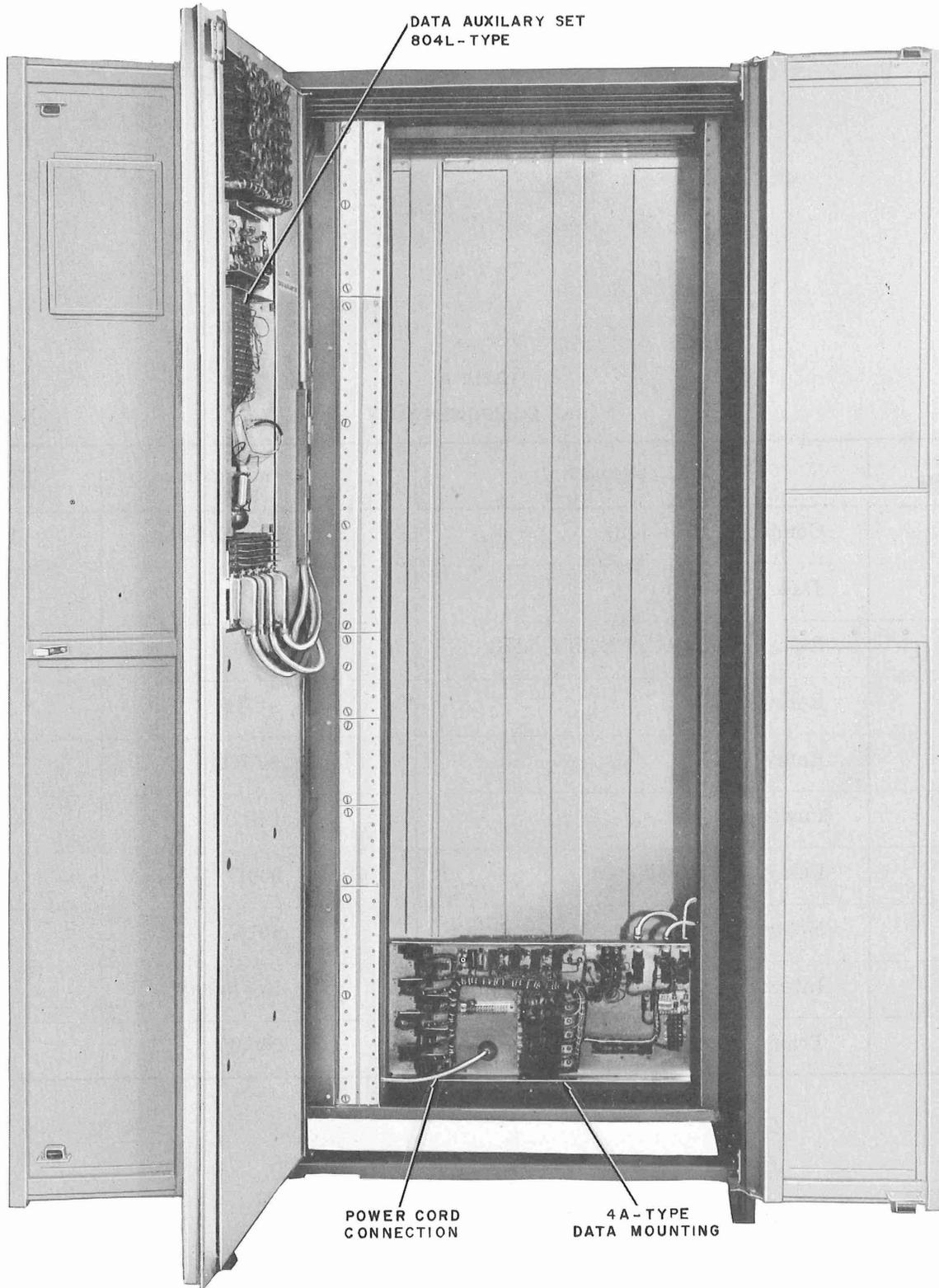


Fig. 2—4A Type Data Mounting Shown Installed in a KS-20093 L1 Cabinet

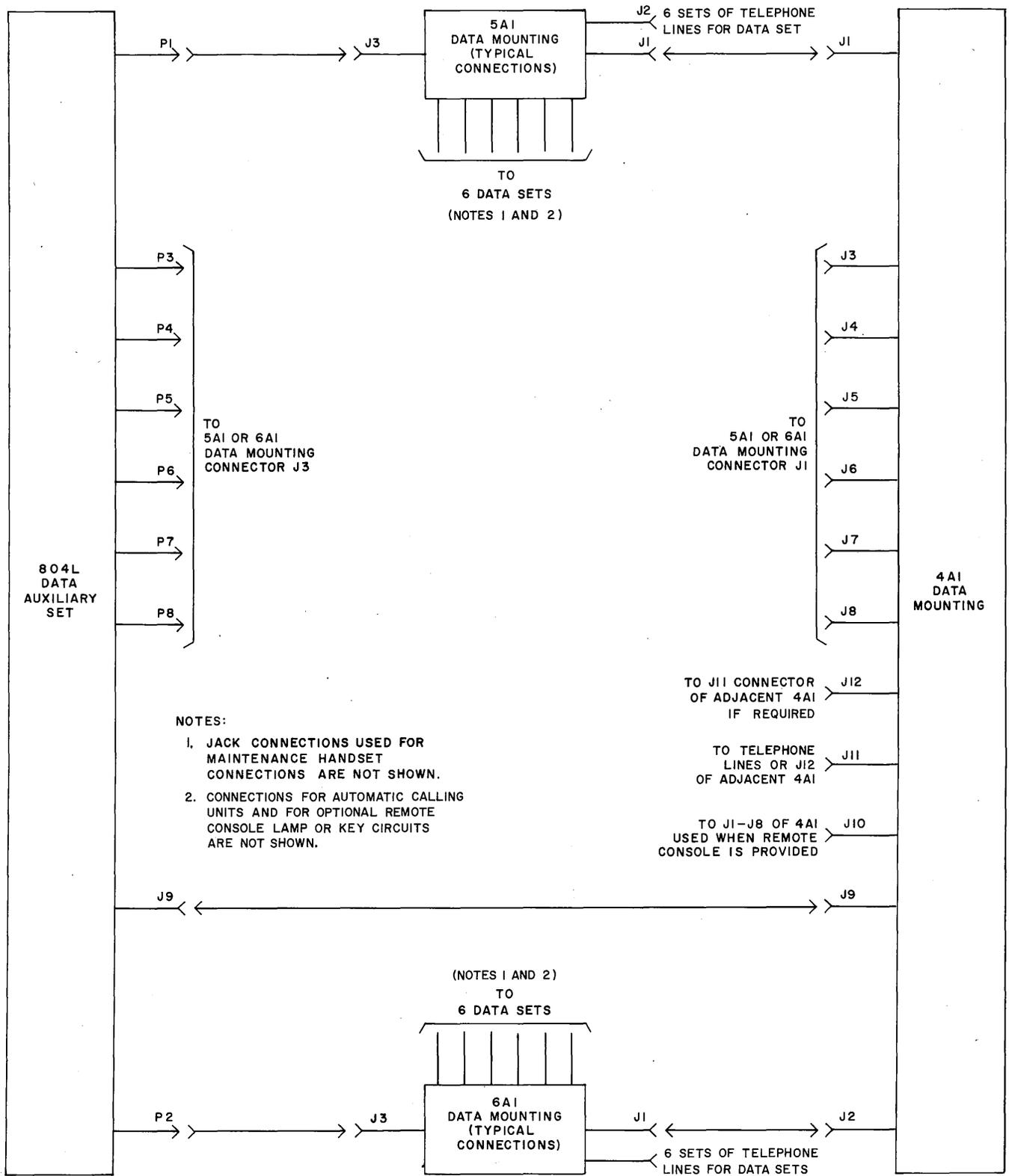
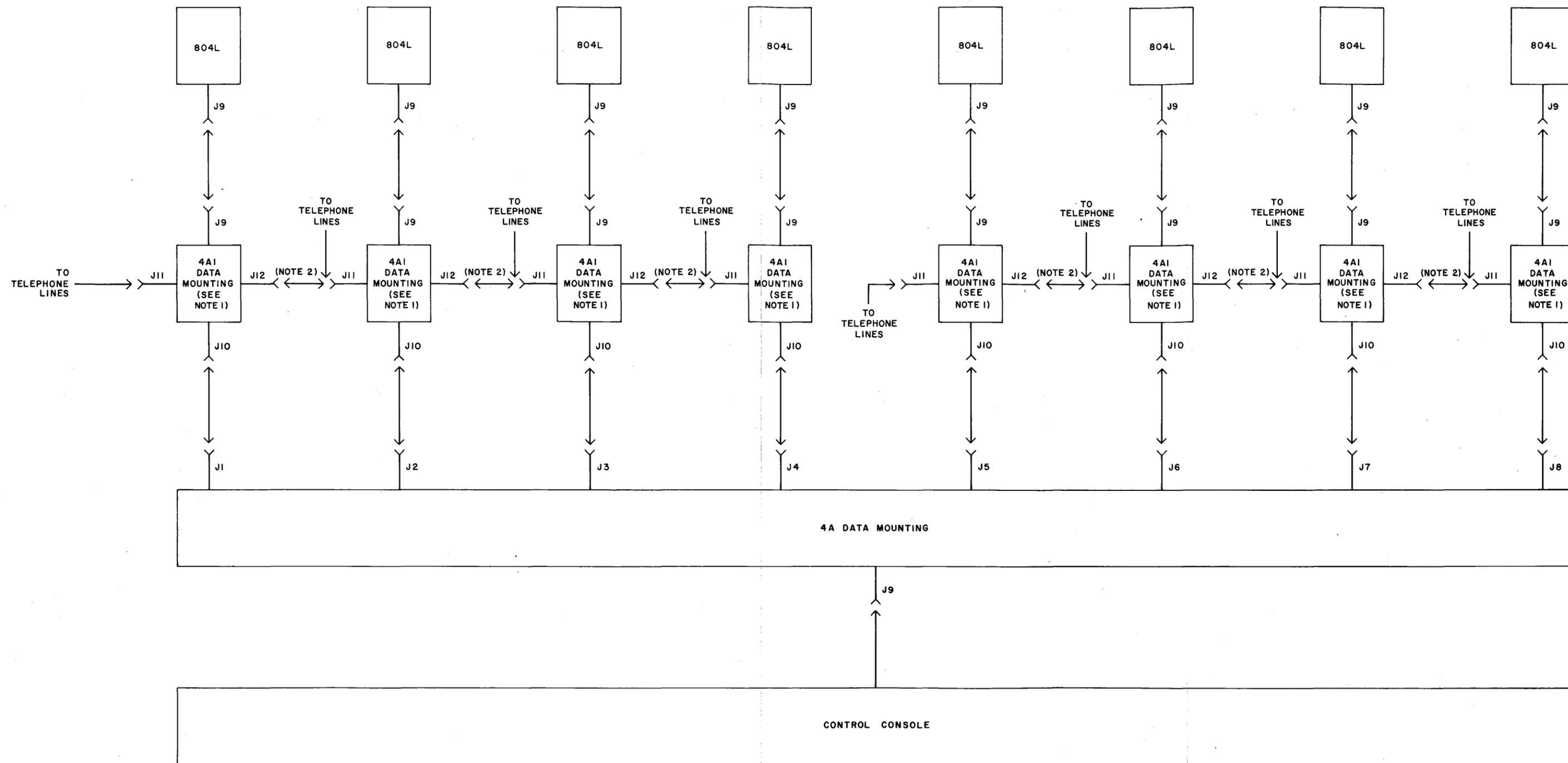


Fig. 3—Block Diagram—Multiplying of 5A1 and/or 6A1 Data Mountings By a 4A1 Data Mounting and Data Auxiliary Set 804L Type



- NOTE:
1. FOR A BLOCK DIAGRAM SHOWING CONNECTIONS TO 5A1 OR 6A1 DATA MOUNTINGS AND DATA SETS REFER TO FIGURE 3.
 2. AS AN ALTERNATE METHOD, THE TELEPHONE LINES MAY BE BROUGHT DIRECTLY TO EACH 4A1 DATA MOUNTING.

Fig. 4—Block Diagram—Multiplying of Data Auxiliary Set 804L Type By Using A 4A Data Mounting and a Remote Console

TABLE B

COMPONENT	DESIGNATION	FUNCTION
Relay	AC	Provides control of the access function.
Relay	BR	Provides control for the busy release function.
Relay	MB	Provides control of the make busy function.
Relay	A	Used in conjunction with the B relay for control of the private line test function.
Relay	B	Used in conjunction with the A relay to provide the control functions associated with the private line test.
Relay	BSH	Used in conjunction with the switch hook contacts and AT relay to control the release of an accessed data set.
Relay	AT	Used in conjunction with the TALK key on the 804L to provide control functions for the talk mode of operation.
Relay	RD	Used in conjunction with the ringdown line keys on the 804L to provide control functions associated with the ringdown lines.
Relay	AL	Provides for indications of the status of the attendant line.
Relay	BC	Used in conjunction with the AC relay to provide the accessed indication.
Connector	J1-J8	Provides a 50-pin connector used for data set common control circuits between the 5A or 6A Type Data Mounting and the 4A Type Data Mounting.
Connector	J9	Provides a 50-pin connector used for data set common control circuits from the 4A Type Data Mounting to the Data Auxiliary Set 804L Type.
Connector	J10	Provides a 50-pin connector for data set common control circuits from the 4A Type Data Mounting to an additional 4A1 Data Mounting used for multiplying 804L's to a control console.
Component	J11	Provides a 50-pin connector for telephone line connections for RD1, RD2 and ATND LINE.
Component	J12	Provides a 50-pin connector allowing connection of RD1, RD2 and ATND LINE telephone line connections to be multiplied to four 804L. (Direct connection to J11). (See Fig. 4).

TABLE B (Cont)

COMPONENT	DESIGNATION	FUNCTION
Connector	J13-J16	Connector provides for maintenance headset connection at 4A-type Data Mounting.
Transformer	T1	Connects the receiving attendant line to the handset.
Network	Z2	Provides the required terminator for the ringdown line when a headset is plugged into the ringdown line jacks.
Interrupter	—	Provides lamp-flash and lamp-wink functions.

TYPICAL TELEPHONE LINE CONNECTIONS

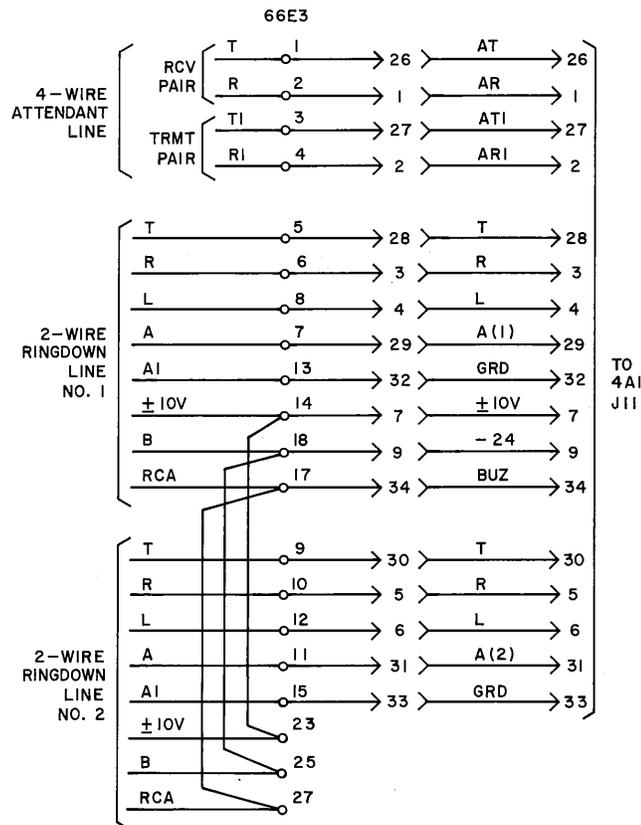


Fig. 5—Telephone Line Connections to the 4A1 Data Mounting Connector J11