

DATA SET 403D-TYPE
MULTIPLE DATA SET STATION
INSTALLATION AND CONNECTIONS

	CONTENTS	PAGE
1.	GENERAL	1
2.	SPECIAL TOOLS	6
3.	OPTION STRAPPING	6
4.	INSTALLATION	9
5.	CONNECTIONS	16
6.	REFERENCES	28

Data Mounting and CP AR252 are rated MD. This feature also requires a modified CALL DIRECTOR®

- To show CP AR250 rated Additions and Maintenance (A&M) only.
- To show 3A2 Data Mounting rated MD and to show 3A3 Data Mounting as the replacement.

1. GENERAL

1.01 This section provides installation and connection procedures for components of Data Set 403D-type multiple data set station.

1.02 This section is reissued for the following reasons:

- To show Data Sets 403D3, 5, and 7 rated Manufacture Discontinued (MD).
- To show Data Sets 403D9, 11, and 13 as the respective replacing data sets.
- To include new circuit packs (CPs) used in the current standard data sets, which provide for operation with ESS and on Unigauge loops and meet the signal level constraints of FCC Tariff No. 263.
- To include a call origination and return-to-data feature. This requires a 1B3 Data Mounting instead of a 1B2 and a CP AR462 instead of the CP AR252. The 1B2

Because many of the Data Sets 403D3, 5, and 7 are still used in the field, information on these units is retained. Since this reissue constitutes a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The multiple data set station may be arranged in many forms, but all of them require multiples of several basic units, depending on the needs of the customer. This section describes the installation and connections of these basic units.

1.04 Basic components of the multiple data set station are shown in Fig. 1. The functions and possible arrangements of the components are described in Table A. The cord and cable complement for interconnecting the components are described in Table B. A Data Auxiliary Set (DAS) 804K-type is used with the data station to provide test and control functions, and to provide conventional telephone service. A CALL DIRECTOR telephone set may be used in parallel with DAS 804K-type to provide these functions remotely. Since the use of the CALL DIRECTOR is optional, it is not shown in Fig. 1.

SECTION 594-025-201

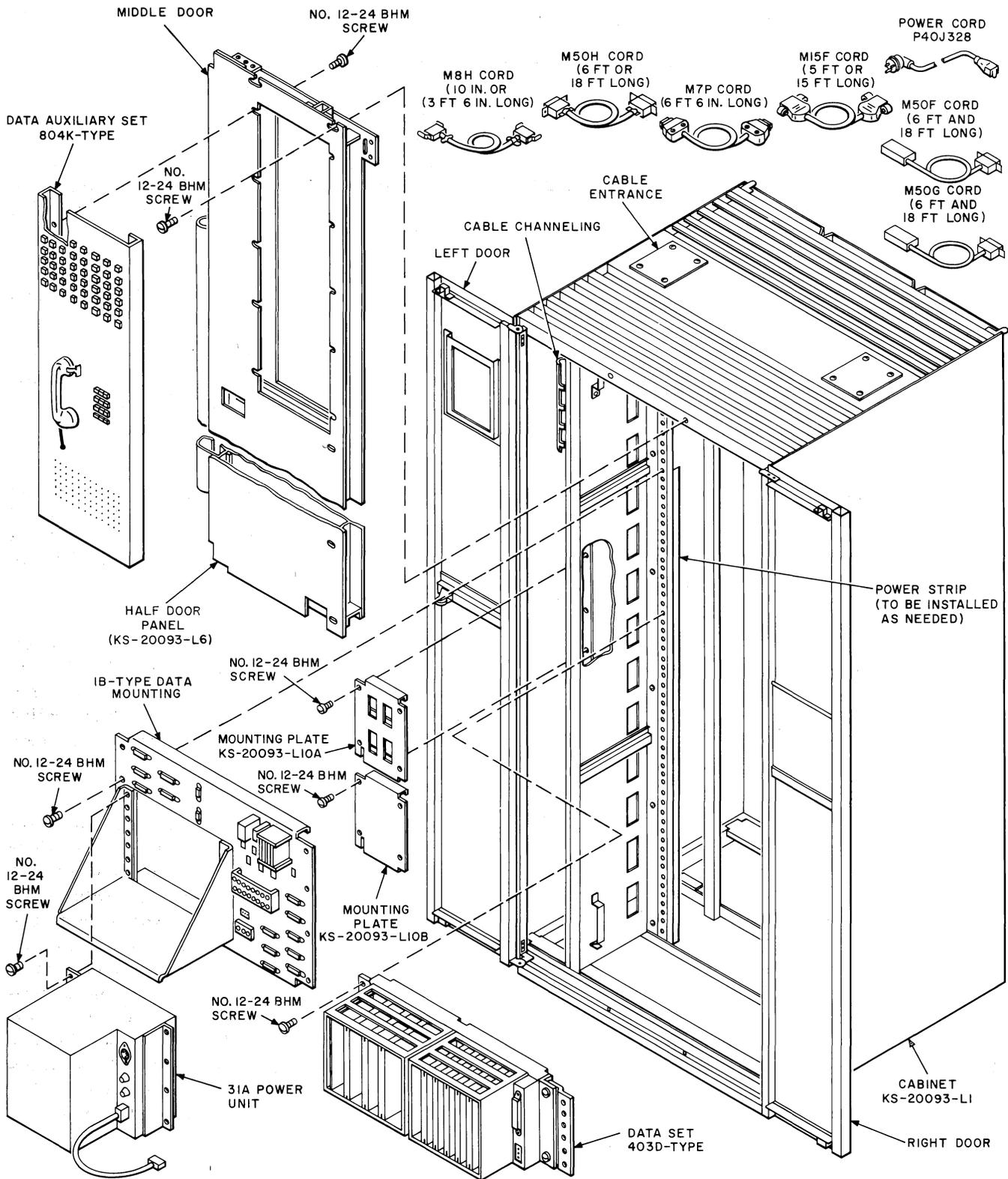


Fig. 1—Components Making Up a Multiple Data Set Station

TABLE A
MULTIPLE DATA SET STATION COMPONENTS, FUNCTIONS, AND ARRANGEMENTS

COMPONENT	FUNCTION	POSSIBLE ARRANGEMENT
KS-20093-L1 cabinet with KS-20093-L6 door panel	Houses complete data station	Single cabinet or a number of cabinets
Data Set 403D-type	Provides basic receiver function of data station	One per data line
31A Power Unit	Provides dc power to the Data Sets 403D-type, Data Auxiliary Set 804K-type and Key Telephone Units (KTUs).	Powers from 4 to 16 Data Sets 403D-type
1B-type Data Mounting	Provides interconnections for all components of data station	Either one or two of these units may be used per cabinet (1 per 8 data sets).
Data Auxiliary Set 804K1 (Rotary dial) or 804K2 (TOUCH-TONE® dial)	Provides line control, test facilities, and telephone control	Provides service for up to 16 data sets
KS-20093-L10A and KS-20093-L10B Mounting Plates	These adapters provide mounting for the customer interface to the data set	A single KS-20093-L10A plate provides positions for connecting four data sets. KS-20093-L10B plates fill unused positions.
KS-20129-L1 Power Strip	Distributes ac line power	One per KS-20093-L1 cabinet
400D Key Telephone Unit		One per service, utility, and spare 1 line
KS-15900 Interrupter		One per data station

TABLE B
CORD AND CABLE COMPLEMENT FOR DATA SET 403D-TYPE
MULTIPLE DATA SET STATION

CABLE OR CORD	CONNECTION AND FUNCTION
M50H Cord 6 in. long	Provides control and data connections between 1B-type Data Mounting and the data set.
M8H Cord 10 in. long	Provides connections from 1B-type Data Mounting to 31A Power Unit.
M50G Cord 6 in. long	Provides connections between 1B-type Data Mounting located at front of data cabinet and Data Auxiliary Set 804K-type.
M50G Cord 18 ft long	Provides connections between 1B-type Data Mounting located at rear of data cabinet and Data Auxiliary Set 804K-type. It also connects telephone lines to 1B-type Data Mounting.
M15F Cord 5 ft long	Provides interconnections of two 1B-type Data Mountings within one cabinet.
M15F Cord 15 ft long	Provides connection for interconnecting two 1B-type Data Mountings between two separate cabinets.
M8H Cord 3 ft 6 in. long	Provides power connections between two 1B-type Data Mountings in the same cabinet when a single 31A Power Unit is used.
M7P Cord 6 ft 6 in. long	Supplies power to each data set.
M50F Cord 6 ft long	Provides connection between Data Auxiliary Set 804K-type and 1B-type Data Mounting located at front of cabinet.
M50F Cord 18 ft long	Provides connection between Data Auxiliary Set 804K-type and 1B-type Data Mounting located at rear of cabinet.
P40J328 Power Cord	Provides 60-Hz AC power to 31A Power Unit, one per 31A Power Unit.
Note: The following cables and cords are required for interconnecting CALL DIRECTOR telephone set and the data station.	
A75A Connector Cable (length as required)	Locally engineered for connection between CALL DIRECTOR telephone set and connecting block.
M50G Cord 6, 9, or 18 ft long	Makes connections between 1B-type Data Mounting and A25B Connector Cable.
A25B Connector Cable	Locally engineered to make interconnection between M50G Cord and connecting block.
66B3-100 Connecting Block	Connects 1B-type Data Mounting and CALL DIRECTOR using above cables.

1.05 Data Sets 403D-type used in multiple data set stations are given in Table C. Circuit packs used in the Data Set 403D-type receiver for multiple data set stations are given in Table D. Components of the multiple data set station should be installed in accordance with existing

practices covering installation of station sets, eg, the practices entitled Data Sets — General Installation and Connection Information (590-010-200) and Data Sets — Multiple Installation Information (590-010-201).

TABLE C
DATA SETS 403D-TYPE USED IN MULTIPLE RECEIVER STATION

DATA SET CODE	DATA UNIT SUPPLIED	CP SUPPLYING MULTIPLE RECEIVER CONTROL	TYPE OF CUSTOMER INTERFACE PROVIDED
403D3 (MD) 403D9	15A1	AR252 (MD) AR462	2-out-of-8 Contact
403D5 (MD) 403D11	15A2	AR252 (MD) AR462	4-Level Binary Coded Matrix (EIA Voltage)
403D7 (MD) 403D13	15A3	AR252 (MD) AR462	Serial ASCII (EIA Voltage)

Note: These data sets are supplied with a P47M644 Adapter to fit 25-inch mounting space.

TABLE D
CIRCUIT PACK COMPLEMENT OF DATA SET 403D-TYPE BASIC RECEIVER
USED IN MULTIPLE DATA SET STATION

DATA SET	CIRCUIT PACK USED							
	CONTROL UNIT	LINE CONTROL	OPTION BOARD	AGC	FILTER	GROUP LIMITERS	CHANNEL DETECTORS	TIMERS, DETECTOR
CURRENT STANDARD	AR462	AR422	AR461	AR249	755A	AR248	AR246 & AR247	AR245
403D9								
403D11 403D13								
RATED MD	AR252 ¹	AR251 ¹	AR250 ²					
403D3								
403D5 403D7								

Notes: 1. Rated MD
2. Rated A & M only

SECTION 594-025-201

1.06 A multiple data set station with a full complement of receivers (16) weighs approximately 800 pounds.

1.07 When test or demonstration calls are made, refer to the section entitled *Crediting Charges on Test Calls (010-250-001)* for the proper procedure for crediting charges.

1.08 Ensure that the data loops have been tested and meet requirements outlined in the section entitled *Data Systems — DATA-PHONE® Service on Direct Distance Dialing Network — Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines (314-205-501)*.

1.09 A KS-20093-L1 Cabinet is used to house the multiple data set station. A fully equipped cabinet (maximum of 16 data sets) is illustrated in Fig. 2. When the cabinet is to be only partially filled, the data mounting, data sets, and associated equipment should be mounted to equally distribute the weight and add rigidity to the cabinet. This will require installing some of the equipment on the rear and some on the front mountings.



Do not apply power to the cabinet or any of the related components of the data station until the complete station has been installed.

1.10 The customer must furnish one 3-wire, 60-Hz ac power outlet (two parallel blades and U-shaped grounding pin) capable of supplying 300 watts for each cabinet. These outlets should not be under the control of a switch.

2. SPECIAL TOOLS

2.01 In addition to the standard installation tools, installation of the data mountings, data sets, and data auxiliary sets will require the following special tools:

- KS-19053-L1 screwdriver, or equivalent
- Screw Starter, Kedman Co. No. 1736, or equivalent
- 748A extracting tool (WECO).

3. OPTION STRAPPING

3.01 Install the data set options specified on the service order.

(a) For connection information and installation procedures for options on circuit packs AR461, AR462, and AR288, refer to Fig. 3 and Tables E and F. For further details on these options, refer to the section entitled *Data Set 403D-Type — Description (594-025-100)*.

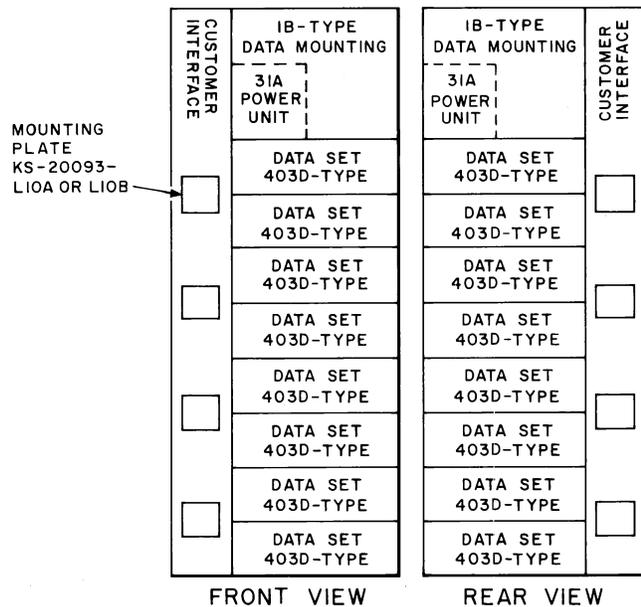


Fig. 2—Component Location in KS-20093-L1 Cabinet

(b) For connection information and installation procedures for options on CP AR287, refer to Fig. 4, Table G, and the following steps:

- (1) Remove CP AR287 from the 15A3 Data Unit, using the 748A extracting tool.
- (2) Select any three ASCII (American National Standard Code for Information Interchange) characters from Table G as required to provide the options specified on the service order.
- (3) In each of the 3 rows, the strap from the center terminal to the top terminal provides a "1" bit; the strap from the center terminal to the bottom terminal provides a "0" bit, as the circuit pack is oriented in Fig. 4.

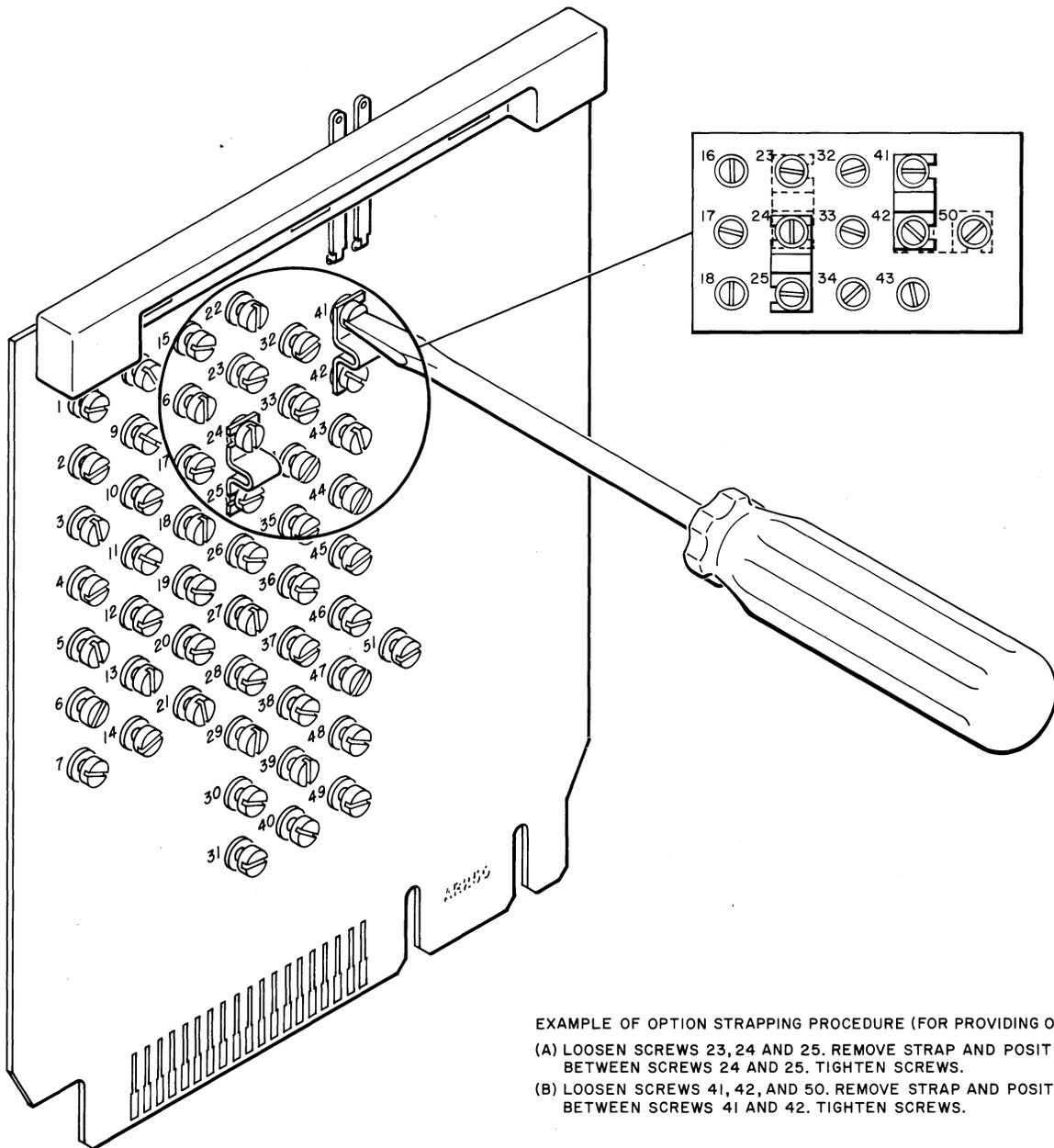


Fig. 3—Typical Option Installation Procedure

TABLE E

OPTION STRAPPING FOR BASIC RECEIVER OF DATA SET 403D-TYPE

OPTION	CIRCUIT PACK	STRAP SCREW TERMINALS			
A	AR250 (A&M) or AR461	26 to 27			
B	AR252 (MD) or AR462	1 to 2			
E	AR252 (MD) or AR462	2 to 3			
F	AR250 (A&M) or AR461	27 to 28			
G		2 to 3 8 to 9	12 to 14 17 to 18	29 to 30 38 to 39	47 to 48
H		3 to 4 8 to 9	13 to 14 16 to 17	29 to 30 38 to 39	47 to 51
J		2 to 3 9 to 10	12 to 13 15 to 16	29 to 30 38 to 39	47 to 48
K		3 to 4 10 to 11	12 to 13 15 to 16	29 to 30 38 to 39	47 to 51
M		35 to 36			
N		36 to 37			
Q		32 to 33		45 to 46	
R		33 to 34		44 to 45	
S		24 to 25		42 to 43	
T		23 to 24		42 to 50	
V		22 to 23		41 to 42	
W		5 to 6			
X		6 to 7			
Y		20 to 21			
Z		19 to 20			
ZA		1 to 2 8 to 9	12 to 13 15 to 16	30 to 31 40 to 49	47 to 48
ZB		1 to 2 8 to 9	12 to 13 15 to 16	29 to 30 39 to 40	47 to 48
ZC		1 to 2 8 to 9	12 to 13 15 to 16	29 to 30 38 to 39	47 to 48

TABLE F
OPTION STRAPPING FOR CP AR288
(USED IN 15A3 DATA UNIT)

OPTION	STRAP SCREW TERMINALS
XA	1 to 2
XB	2 to 3
XC	4 to 5
XD	5 to 7
XE	5 to 6
XF	10 to 13
XG	13 to 16
XH	9 to 12
XJ	12 to 15
XK	8 to 11
XL	11 to 14

Note: Bits 1 through 6 and 8 may be either a "0" or a "1"; however, bit 7 is always a "0" and there is no provision for strapping.

(4) Position the straps in each row to correspond to the "1" or "0" for each bit, as determined from Table G.

(5) After option strapping, replace CP AR287 in the 15A3 Data Unit.

Note: Options may be installed in accordance with the service order and the preceding instructions at any convenient Telco location, such as a shop or garage, prior to visiting the customer location for installing the data set.

3.02 There are four strap-type installer options for the 1B-type Data Mounting, which are described in Section 590-102-101. Install these options as specified on the service order, in accordance with Table H.

4. INSTALLATION

KS-20093-L1 Cabinet

4.01 Position the KS-20093-L1 cabinet within range of the customer-provided 60-Hz power outlet and the business machine interface cord (not to exceed 50 feet).

4.02 The cabinet is designed to accept interface and power cords through either the top or the bottom. The bottom of the cabinet is open and the top has two 3- by 4-inch holes (Fig. 5). When the overhead cable entrance is used, a KS-20093-

L2 duct assembly may be used to conceal the cabling. This assembly should be installed according to instructions furnished with the duct.

4.03 After the cabinet is positioned, close the front and rear doors of the cabinet and align the top of the front and rear doors with the top edge of the cabinet by applying sideward pressure at the top. When the cabinet is aligned, open the doors and tighten all mounting screws, using a KS-19053-L1 screwdriver or equivalent.

4.04 For more information on the cabinet (after the cabinet has been installed), leveling procedures, etc, refer to the section entitled Data Sets — Multiple Installation Information (590-010-201).

1B3 Data Mounting

4.05 After the cabinet has been positioned, leveled, and aligned, open the left door, then the right door, and finally the center door to gain access to the 25-inch mounting space in the front of the cabinet. Gain access to the rear mounting space by opening the left door, then the right door, by pulling forward from the top.

4.06 Position the 1B3 Data Mounting within the cabinet as shown in Fig. 2. Leave about 1 inch of space above the data mounting for cable clearance.

Note: To expedite the installation, it is advisable to have one person position and hold the data mounting while another person secures it to the cabinet.

4.07 Secure the data mounting with eight 12-24 BHM screws according to Fig. 1.

4.08 Install interrupter and 400D KTUs according to the service order.

(a) Tighten the bracket securing the interrupter.

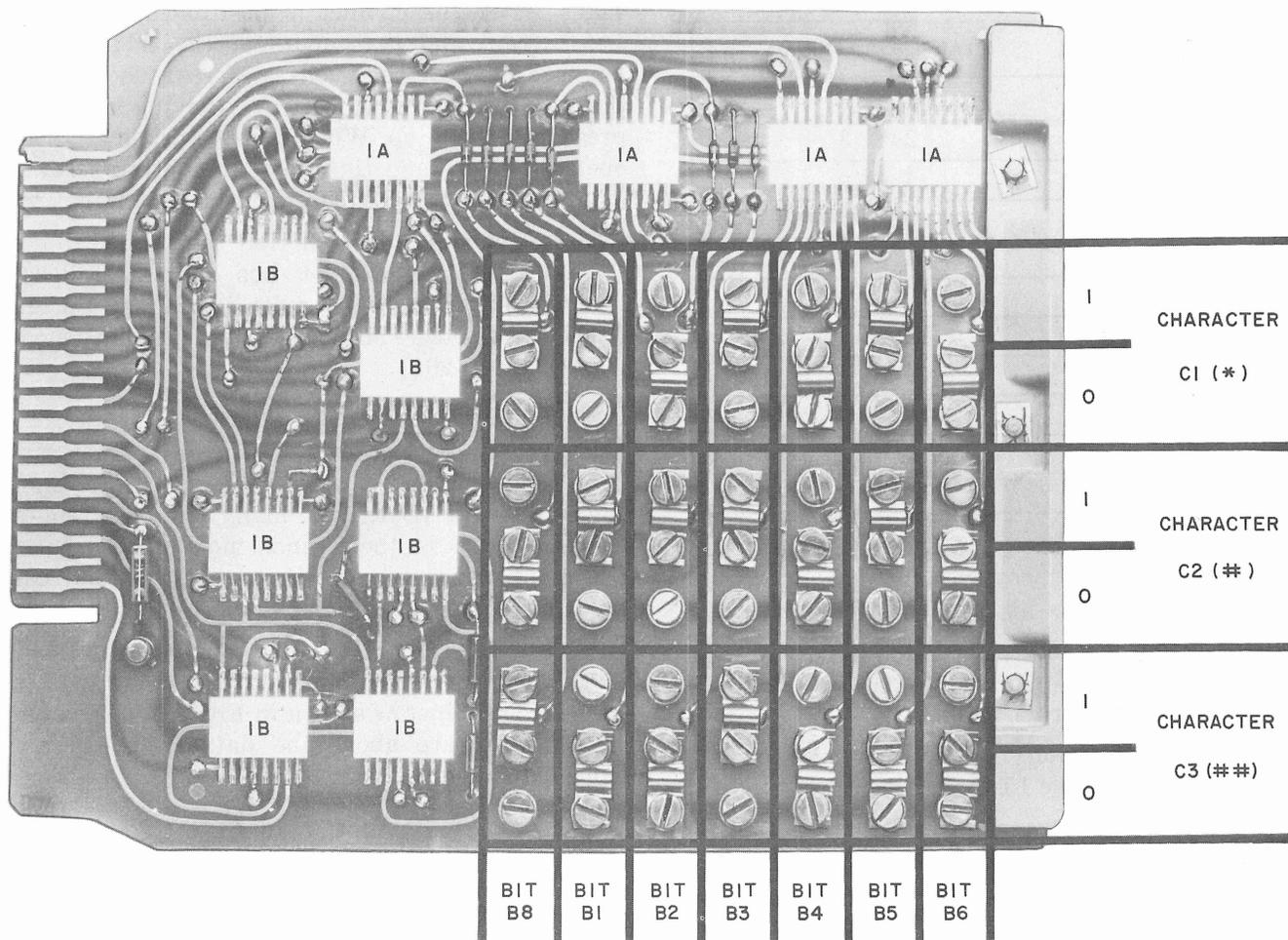
(b) Plug in the 400D KTUs and tighten the locking bar.



Make certain that the mounting shelf for the 31A Power Unit is properly tightened before mounting the power unit, which weighs 46 pounds.

4.09 Position the power unit as shown in Fig. 1 and secure it with four 12-24 BHM screws.

4.10 Position and secure the KS-20129-L1 power strip according to instructions supplied with the power strip.



ALWAYS ZERO

CHAR	B1	B2	B3	B4	B5	B6	B7	B8	FUNCTION
C1 (*)	1	0	1	0	1	0	0	1	NAK
C2 (#)	1	1	1	0	1	0	0	0	ETB
C3 (##)	0	0	1	0	0	0	0	1	EOT

NOTE:

FOR EXAMPLE SHOWN AT LEFT, WITH STRAPS POSITIONED AS ILLUSTRATED, THE THREE FUNCTIONS SHOWN WILL RESULT FROM THE STAR (*), NUMBER SIGN (#), AND DOUBLE NUMBER SIGN (##) AS INPUTS.

Fig. 4—Typical Option Installation on CP AR287

TABLE G
CONTROL OPTIONS AND PRINTING CHARACTER OPTIONS AND
THEIR CODES — CIRCUIT PACK AR287
(USED IN 15A3 DATA UNIT)

CONTROL CHARACTER	CODE								PRINTING CHARACTER	CODE							
	B1	B2	B3	B4	B5	B6	B7	B8		B1	B2	B3	B4	B5	B6	B7	B8
NUL	0	0	0	0	0	0	0	0	SP	0	0	0	0	0	1	0	1
SOH	1	0	0	0	0	0	0	1	!	1	0	0	0	0	1	0	0
STX	0	1	0	0	0	0	0	1	"	0	1	0	0	0	1	0	0
ETX	1	1	0	0	0	0	0	0	#	1	1	0	0	0	1	0	1
EOT	0	0	1	0	0	0	0	1	\$	0	0	1	0	0	1	0	0
ENQ	1	0	1	0	0	0	0	0	%	1	0	1	0	0	1	0	1
ACK	0	1	1	0	0	0	0	0	&	0	1	1	0	0	1	0	1
BEL	1	1	1	0	0	0	0	1	'	1	1	1	0	0	1	0	0
BS	0	0	0	1	0	0	0	1	(0	0	0	1	0	1	0	0
HT	1	0	0	1	0	0	0	0)	1	0	0	1	0	1	0	1
LF	0	1	0	1	0	0	0	0	*	0	1	0	1	0	1	0	1
VT	1	1	0	1	0	0	0	1	+	1	1	0	1	0	1	0	0
FF	0	0	1	1	0	0	0	0	,	0	0	1	1	0	1	0	1
CR	1	0	1	1	0	0	0	1	-	1	0	1	1	0	1	0	0
SO	0	1	1	1	0	0	0	1	.	0	1	1	1	0	1	0	0
SI	1	1	1	1	0	0	0	0	/	1	1	1	1	0	1	0	1
DLE	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0
DC1	1	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0	1
DC2	0	1	0	0	1	0	0	0	2	0	1	0	0	1	1	0	1
DC3	1	1	0	0	1	0	0	1	3	1	1	0	0	1	1	0	0
DC4	0	0	1	0	1	0	0	0	4	0	0	1	0	1	1	0	1
NAK	1	0	1	0	1	0	0	1	5	1	0	1	0	1	1	0	0
SYN	0	1	1	0	1	0	0	1	6	0	1	1	0	1	1	0	0
ETB	1	1	1	0	1	0	0	0	7	1	1	1	0	1	1	0	1
CAN	0	0	0	1	1	0	0	0	8	0	0	0	1	1	1	0	1
EM	1	0	0	1	1	0	0	1	9	1	0	0	1	1	1	0	0
SUB	0	1	0	1	1	0	0	1	:	0	1	0	1	1	1	0	0
ESC	1	1	0	1	1	0	0	0	;	1	1	0	1	1	1	0	1
FS	0	0	1	1	1	0	0	1	<	0	0	1	1	1	1	0	0
GS	1	0	1	1	1	0	0	0	=	1	0	1	1	1	1	0	1
RS	0	1	1	1	1	0	0	0	>	0	1	1	1	1	1	0	1
US	1	1	1	1	1	0	0	1	?	1	1	1	1	1	1	0	0

TABLE H
1B-TYPE DATA MOUNTING OPTIONS

OPTION DESIGNATION	FUNCTION	STRAP TB1	
		FROM TERM.	TO TERM.
R	Provides separate grounds	5	6
S	Provides common grounds	5	4
T	Front Panel only Telephone Console	2	3
V	Front Panel and Remote Telephone Console	2	1

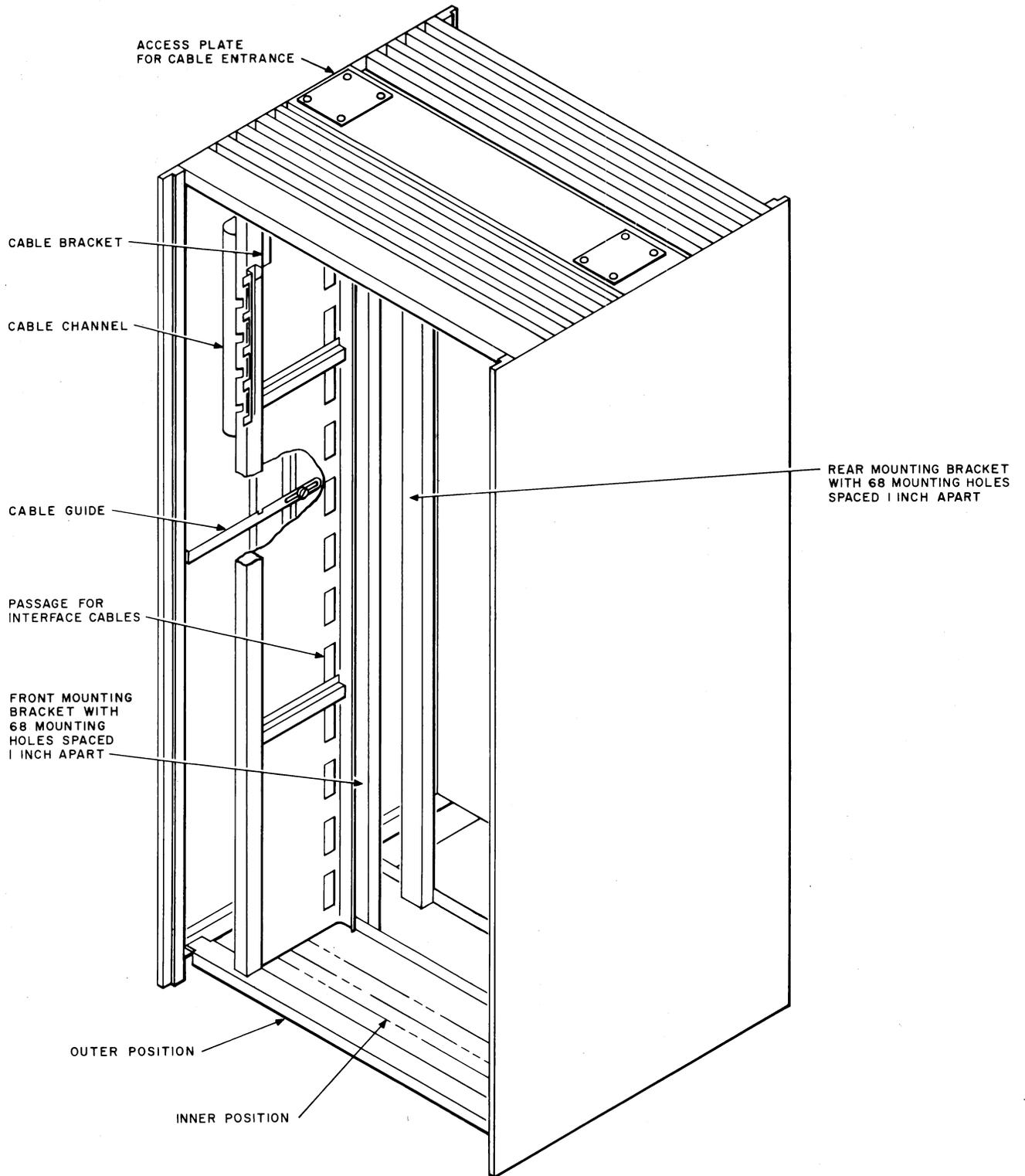


Fig. 5—KS-20093-L1 Cabinet

Data Set 403D-Type (Receiver)

4.11 Data Set 403D-type is 23 inches wide and, when received for installation, will have an adapter plate attached. This adapter plate adds two inches to the width of the data set, which permits it to be mounted in a 25-inch mounting space.

4.12 Position a Data Set 403D-type in the bottom of the cabinet as shown in Fig. 1, and secure it with four 12-24 BHM screws which are

supplied with the data set. Continue to mount the data sets, working upward from the bottom set. Install an equal number of sets in front and rear of the cabinet until the required number of sets are mounted as specified on the service order. Maintaining symmetry between front and back, and mounting the sets from the bottom up, provide rigidity and support for the cabinet.

Note: A maximum of 16 data sets may be mounted in one KS-20093-L1 cabinet.

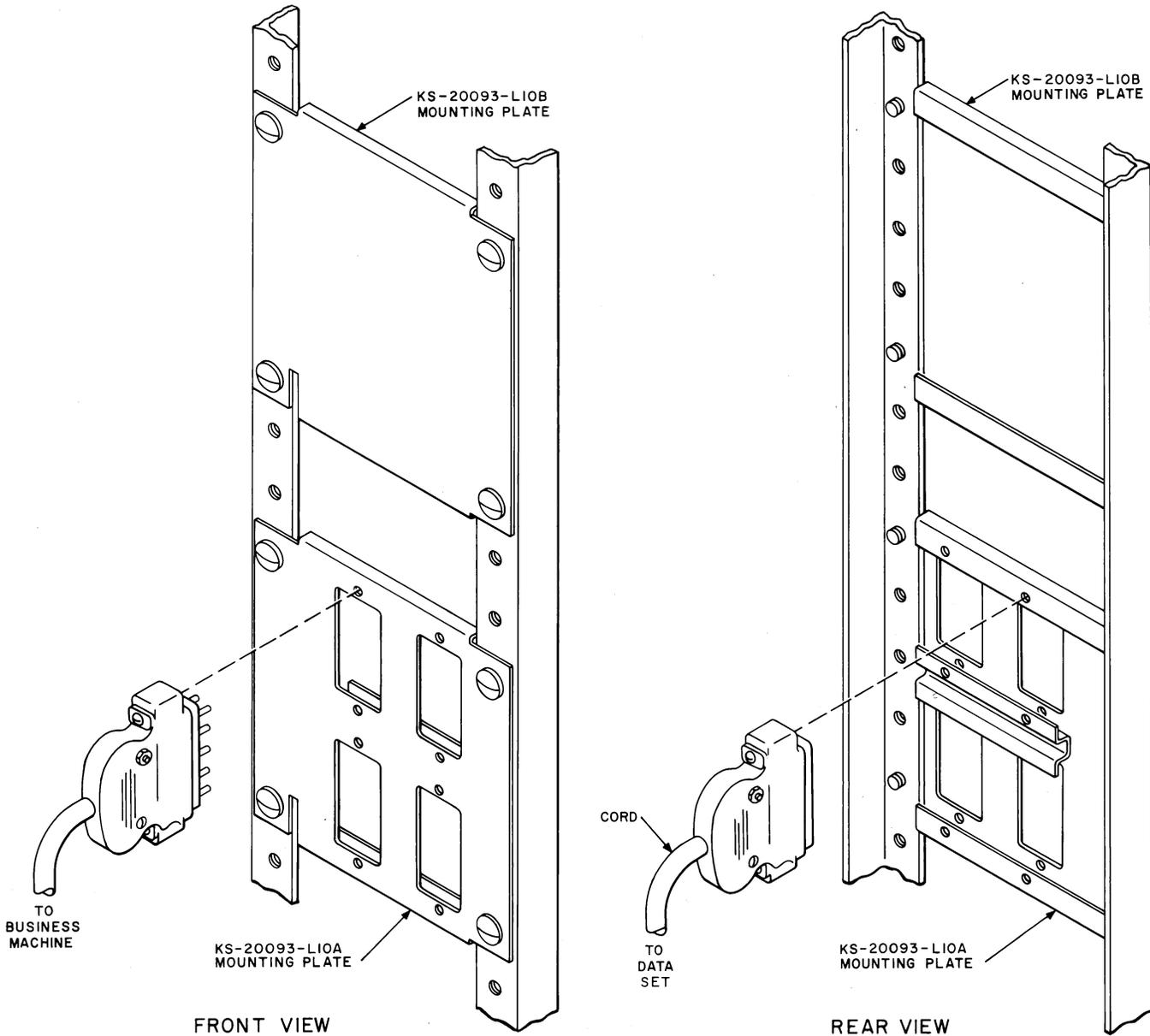


Fig. 6—Installation of Customer Interface Cord

KS-20093-L10A and -L10B Mounting Plates

4.13 Mount the KS-20093-L10A Mounting Plates in the customer interface portion of the cabinet, as shown in Fig. 1 and 6, using the 12-24 BHM screws provided. Each KS-20093-L10A Mounting Plate provides for mounting four business machine input connectors, which interconnect to the data sets. The KS-20093-L10B Mounting Plates are used to cover unused spaces in the cabinet.

4.14 A summary of the interface circuits for each of the three interface couplers used with Data Set 403D-type is given in Table I.

Data Auxiliary Set 804K-Type

4.15 Mount a Data Auxiliary Set 804K1 (rotary dial) or 804K2 (TOUCH-TONE® dial) in the upper open space in the front center cabinet door in accordance with Fig. 7.

4.16 Install a KS-20093-L6 door panel according to instructions provided with the panel.

TABLE I
INTERFACE CIRCUIT SUMMARY — 15A-TYPE DATA UNITS

TERMINAL NUMBER	CIRCUIT DESIGNATION		
	15A1 DATA UNIT	15A2 DATA UNIT	15A3 DATA UNIT
1	Frame ground	Frame Ground	Protective Ground
2	Spare	Spare	Spare
3	A1 } Low	Receive Data 1	Received Data
4	A2 } Data	Receive Data 2	Spare
5	A3 } Group	Receive Data 3	Clear to Send
6	A4 }	Receive Data 4	Data Set Ready
7	A Common	Spare	Signal Ground
8	Spare	Spare	Spare
9	B1 } High	Spare	Data Set Test A
10	B2 } Data	Spare	Spare
11	B3 } Group	Spare	Spare
12	B4 }	Spare	Spare
13	B Common	Spare	Spare
14	Ring Indicator	Ring Indicator	Spare
15	Attendant	Attendant	Spare
16	Data Carrier Detector	Data Carrier Detector	Spare
17	Voice Answer-Back A	Voice Answer-Back A	Spare
18	Voice Answer-Back B	Voice Answer-Back B	Spare
19	Answer-Back Control A	Answer-Back Control A	Spare
20	Answer-Back Control B	Answer-Back Control B	Data Terminal Ready
21	Data Receive	Data Receive	Spare
22	Data Terminal Ready	Data Terminal Ready	Spare
23	Data Set Ready	Data Set Ready	Spare
24	Signal Ground	Signal Ground	Spare
25	Out-of-Service	Out-of-Service	Spare

SECTION 594-025-201

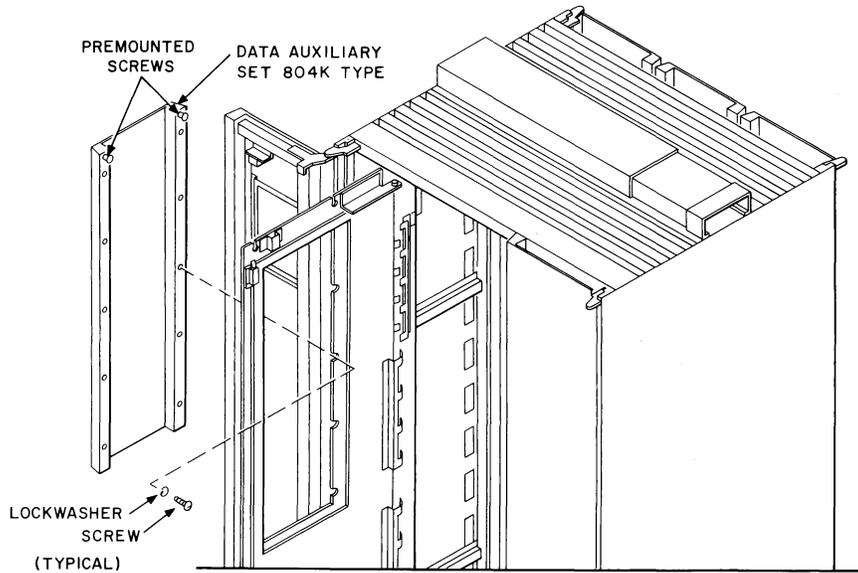
5. CONNECTIONS

5.01 Make all connections in accordance with Fig. 8 and Table B.

5.02 To provide for the call origination and return-to-data feature, the 1B3 Data Mounting and a modified CALL DIRECTOR *must* be used. Also, a wire must be added be-

tween J9, pin 13 and J9, pin 16 on the 1B3 Data Mounting.

5.03 A CALL DIRECTOR telephone set may be used in conjunction with the DAS 804K-type for control, test, and intercept purposes. Some of the CALL DIRECTOR sets that may be used are listed in Table J.



**DATA AUXILIARY SET
INSTALLATION PROCEDURE**

1. SUPPORT THE WEIGHT OF THE DAS 804K-TYPE BY PLACING TWO MOUNTING SCREWS IN HOLES OF THE DOOR.
2. SECURE THE DAS 804K-TYPE FROM THE BACK SIDE WITH EIGHT ADDITIONAL SCREWS.
3. ADJUST THE DAS 804K-TYPE PLACEMENT ON THE DOOR BY SHIFTING THE DAS 804K-TYPE TO THE RIGHT OR LEFT AS REQUIRED. WHILE HOLDING THE DAS 804K-TYPE IN PLACE, TIGHTEN ALL THE MOUNTING SCREWS.

Fig. 7—Installation of Data Auxiliary Set 804D-Type in the Door of KS-20093-L1 Cabinet

TABLE J

CALL DIRECTOR TELEPHONE SETS USED WITH DATA SET 403D-TYPE

CODE	FEATURES	
630D2	Rotary Dial	18 Control Buttons
1630D2	10-Button TOUCH-TONE Dial	18 Control Buttons
2630D2	12-Button TOUCH-TONE Dial	18 Control Buttons
631D1	Rotary Dial	30 Control Buttons
1631D1	10-Button TOUCH-TONE Dial	30 Control Buttons
2631D1	12-Button TOUCH-TONE Dial	30 Control Buttons

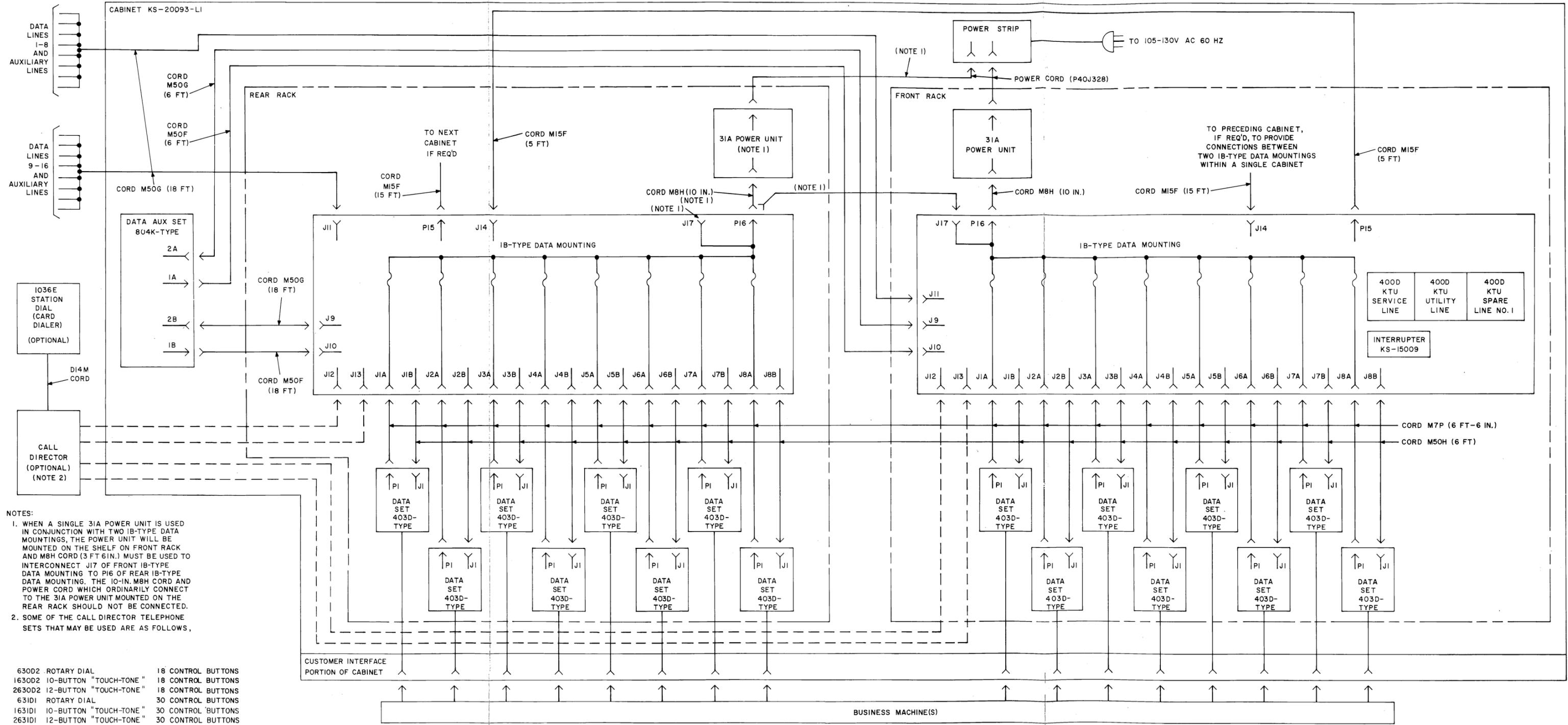


Fig. 8—Block Diagram of a 16-Line Data Set 403D-Type Station

If a CALL DIRECTOR set is specified that does not require the call origination and return-to-data feature, connect it in accordance with Table J and Fig. 9 and 10.

5.04 If the CALL DIRECTOR is to be used for call origination and return to data, the CALL DIRECTOR must be modified as follows:

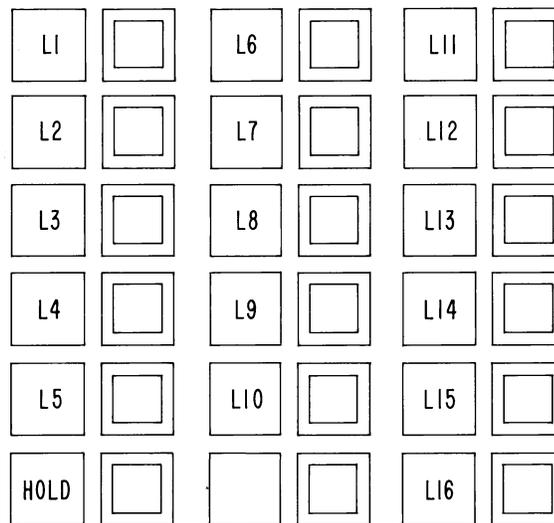
- (1) Replace the 599A key in the first module (key nearest dial) with a 599K key.
- (2) Interchange the 598A key in the third module with 105 apparatus blank in the fourth module. Remove the locking pins from the 598A key.
- (3) Remove the 105 apparatus blank from the fifth module and replace with a 598J key. Remove the locking pins from the 598J key.

- (4) Remove the green-yellow lead from terminal A-H of TB-I and connect to terminal SG of TB-VI. Remove the O-W lead from terminal A-H of TB-V and connect it to terminal 1B of TB-V. Add a strap between terminal G of TB-II and terminal A-H of TB-IV.

Note: These instructions apply to the 2631D1 CALL DIRECTOR only.

5.05 Connect the modified CALL DIRECTOR in accordance with Table K and Fig. 11 and 12.

5.06 Connect telephone lines to connector J11 on the 1B3 Data Mounting in accordance with Table L. The service, utility, and spare lines must be connected to connector J11 of each 1B3 Data Mounting. The "A" leads should be multipled also, as required.



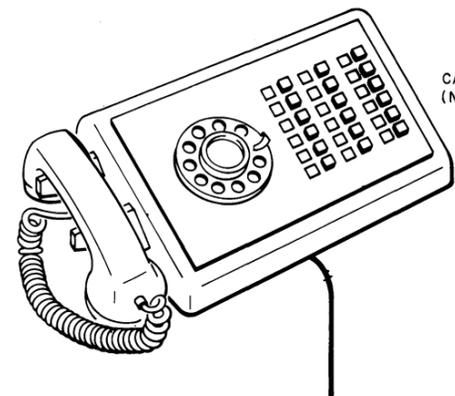
THIS BUTTON MAY BE USED FOR EITHER SERVICE LINE, UTILITY LINE OR SPARE LINE NO. 1 OR LOCAL EXTENSION, BUT IT IS SUGGESTED THAT THE SERVICE LINE NOT BE CONNECTED TO THIS BUTTON, SINCE THE SERVICE LINE IS USED TO REMOTE TEST THE DATA SETS.

Fig. 9—Typical Button and Lamp Designations for 630D2, 1630D2, or 2630D2 CALL DIRECTOR When Used With Multiple Data Set Station 403D-Type

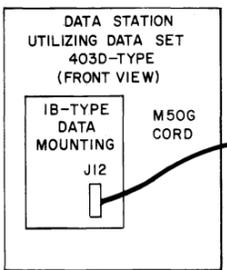
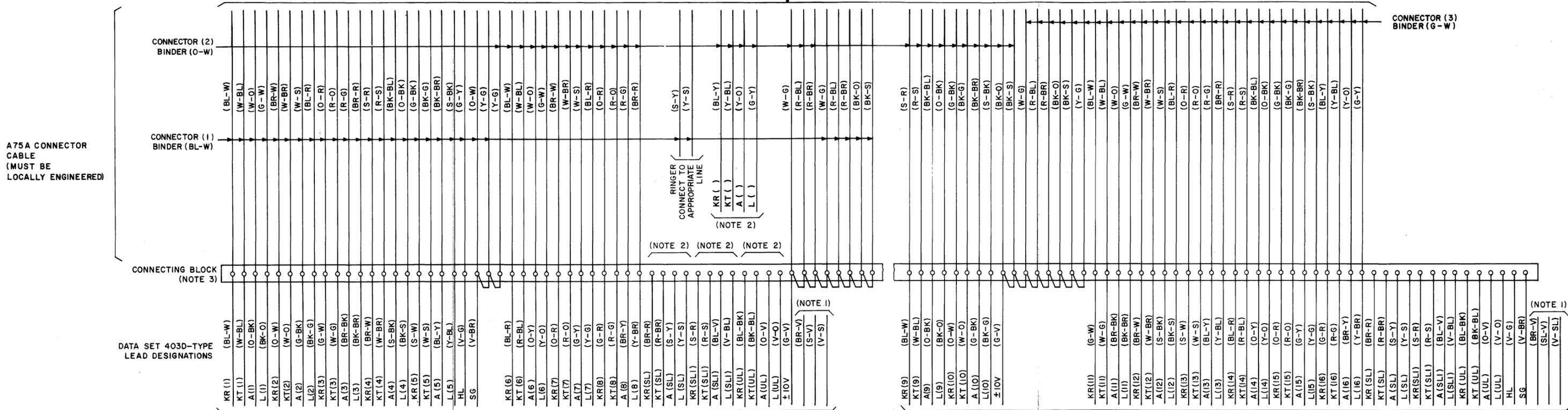
TABLE K
FUNCTIONS APPEARING ON CONNECTOR J12
OF 1B-TYPE DATA MOUNTING

TERM.	FUNCTION	TERM.	FUNCTION
1	KR, Line 1	26	KT, Line 1
2	KR, Line 2	27	KT, Line 2
3	KR, Line 3	28	KT, Line 3
4	KR, Line 4	29	KT, Line 4
5	KR, Line 5	30	KT, Line 5
6	KR, Line 6	31	KT, Line 6
7	KR, Line 7	32	KT, Line 7
8	KR, Line 8	33	KT, Line 8
9	KTU Output, R (SER L)	34	KTU Output, T (SER L)
10	KTU Output, R (SL 1)	35	KTU Output, T (SL 1)
11	KTU Output, R (UTIL)	36	KTU Output, T (UTIL)
12	A, Line 1	37	L, Line 1
13	A, Line 2	38	L, Line 2
14	A, Line 3	39	L, Line 3
15	A, Line 4	40	L, Line 4
16	A, Line 5	41	L, Line 5
17	A, Line 6	42	L, Line 6
18	A, Line 7	43	L, Line 7
19	A, Line 8	44	L, Line 8
20	A, (Service Line)	45	L, (Service Line)
21	A, (Spare Line 1)	46	L, (Spare Line 1)
22	A, (Utility Line)	47	L, (Utility Line)
23	± 10V	48	Hold Lamp
24 ¹	Talk-to-Data Transfer	49	Signal Ground
25	Spare	50	Spare

Note 1: Talk-to-data transfer applies to 1B3 Data Mounting only; term. 24 is a spare on 1B2 Data Mounting.



CALL DIRECTOR
(NOTE 4)



A25B SINGLE-ENDED
CONNECTOR CABLE
(LENGTH MUST BE
LOCALLY ENGINEERED)

NOTES:

1. TAPE AND STORE
2. CONNECT THE LINES PER THE FOLLOWING INSTRUCTIONS:
 - THE SERVICE LINE, UTILITY LINE OR SPARE LINE 1 MAY BE CONNECTED TO KEY POSITION NO. 12.
 - THE RINGER SHOULD BE CONNECTED TO TIP AND RING OF THE APPROPRIATE LINE IF DESIRED.
 - IT SHOULD BE REMEMBERED THAT THE SERVICE LINE IS USED TO REMOTE TEST THE DATA SETS AND WILL PROBABLY BE BETTER TO USE A LOCAL LINE FOR OUTGOING CALLS.

3. CONNECTING BLOCK MAY BE TWO 66B3-50, ONE 66B3-100, OR EQUIVALENT.
4. CALL DIRECTOR SUCH AS 630D2, 1630D2, 2630D2, OR 631D1, 1631D1, 2631D1.

A25B SINGLE-ENDED
CONNECTOR CABLE
(LENGTH MUST BE
LOCALLY ENGINEERED)

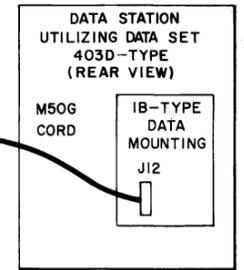


Fig. 10—Interconnections for CALL DIRECTOR When Used With a Data Set 403D-Type Multiple Installation

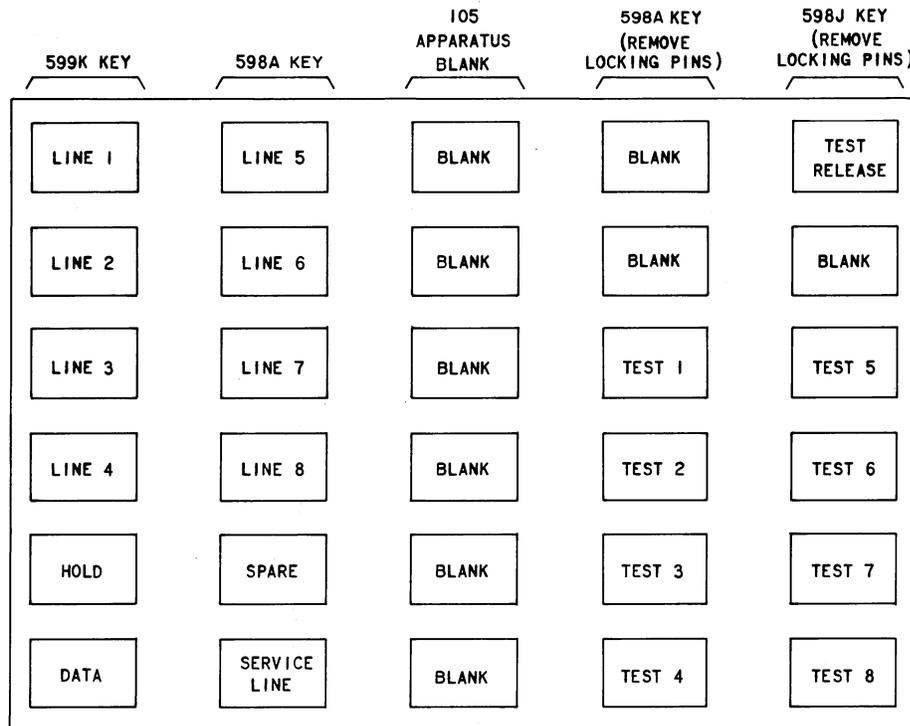


Fig. 11 — Keyboard Arrangement of 30 Button Call Director Telephone Set for Return-to-Data Feature

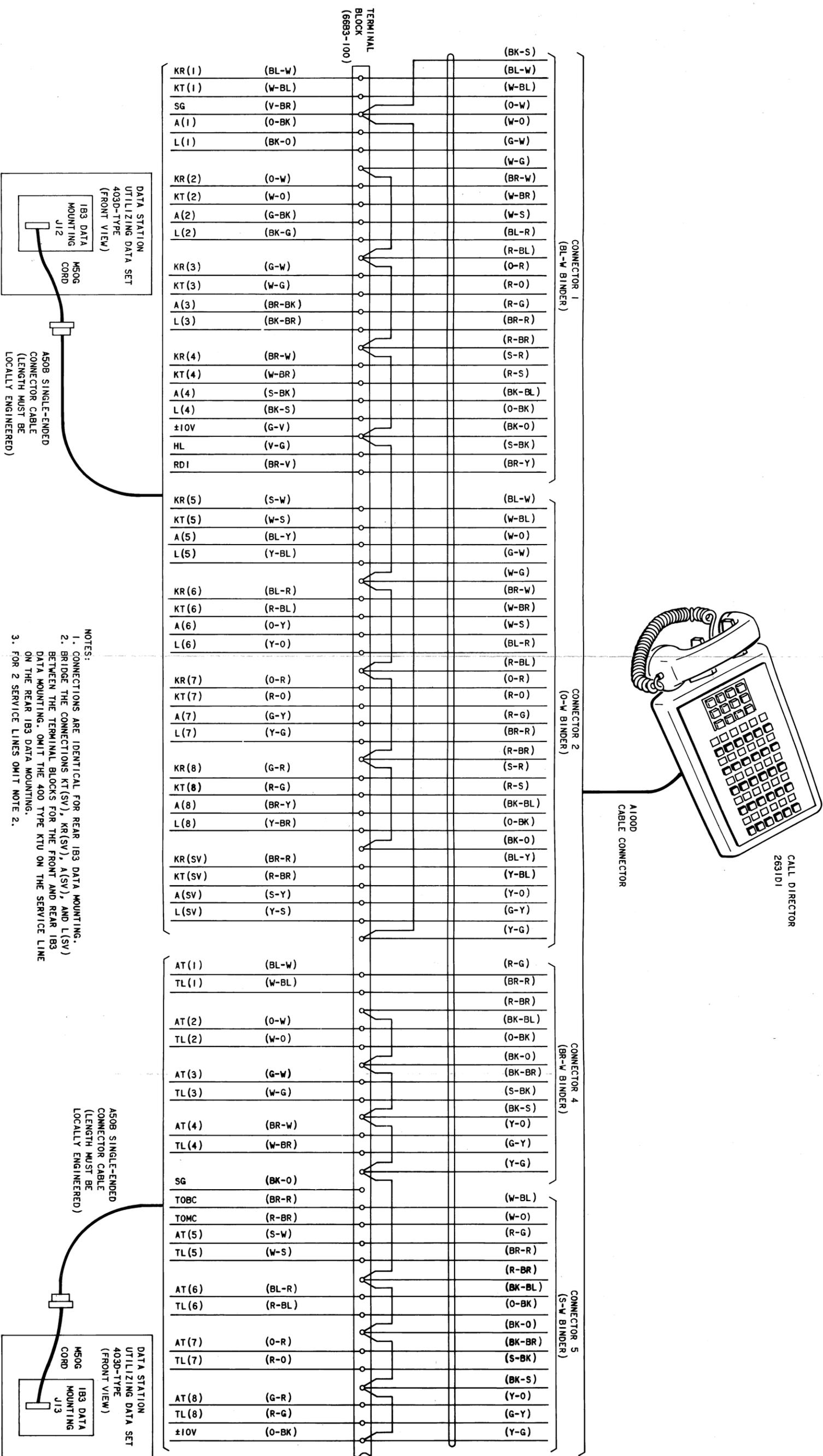


Fig. 12—Interconnections for CALL DIRECTOR When Used With a Data Set 403D-Type Multiple Installation, and Using Call Origination and Return-to-Data Feature

TABLE I
TERMINAL ASSIGNMENTS FOR CONNECTOR J11 OF 1B-TYPE DATA MOUNTING
FOR CONNECTION OF TELEPHONE LINES

TERMINAL NUMBER	TERMINAL ASSIGNMENT	TERMINAL NUMBER	TERMINAL ASSIGNMENT
1	Ring 1	26	Tip 1
2	Ring 2	27	Tip 2
3	Ring 3	28	Tip 3
4	Ring 4	29	Tip 4
5	Ring 5	30	Tip 5
6	Ring 6	31	Tip 6
7	Ring 7	32	Tip 7
8	Ring 8	33	Tip 8
9	Ring (Service Line)	34	Tip (Service Line)
10	Ring (Spare Line 1)	35	Tip (Spare Line 1)
11	Ring (Utility Line)	36	Tip (Utility Line)
12	KTU Output Ring (Service Line)	37	KTU Output, Tip (Service Line)
13	KTU Output Ring (Spare Line 1)	38	KTU Output, Tip (Spare Line 1)
14	KTU Output Ring (Utility Line)	39	KTU Output, Tip (Utility Line)
15	Lamp (Service Line)	40	A-Lead (Service Line)
16	Lamp (Spare Line 1)	41	A-Lead (Spare Line 1)
17	Lamp (Utility Line)	42	A-Lead (Utility Line)
18	Out-of-Service 1 (Sleeve 1)	43	Ground
19	Out-of-Service 2 (Sleeve 2)	44	Out-of-Service 5 (Sleeve 5)
20	Out-of-Service 3 (Sleeve 3)	45	Out-of-Service 6 (Sleeve 6)
21	Out-of-Service 4 (Sleeve 4)	46	Out-of-Service 7 (Sleeve 7)
22	Not used	47	Out-of-Service 8 (Sleeve 8)
23	Not used	48	Not used
24	Not used	49	Not used
25	Not used	50	Not used

SECTION 594-025-201

6. REFERENCES

6.01 Additional information on Data Set 403D-type and associated equipment may be found in the following documents:

NUMBER	TITLE
590-010-200	Data Sets — General Installation and Connection Information
590-010-201	Data Sets — Multiple Installation Information
010-250-001	Crediting Charges on Test Calls
314-205-501	Data Systems — DATA-PHONE Service on DDD Network — Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines
594-025-100	Data Set 403D-Type — Description

594-025-101	Data Set 403D-Type Multiple Data Set Station — Description and Operation
502-630-100	Telephone Sets 630-, 1630-, and 2630-, Series — General Purpose — Selection and Use (CALL DIRECTORS)
598-055-100	Data Auxiliary Set 804K-Type — Identification
590-102-101	1B-Type Data Mounting — Identification
590-100-111	15A1, 15A2, and 15A3 Data Units — Identification
502-630-XXX	CALL DIRECTOR Series
SD- and CD-1D130-01	Data Systems Station — Data Set 403D-Type Receiver Circuit
SD- and CD-1D135-01	Data Systems Station — 1B-Type Data Mounting.