Installation Engineering Handbook 282
Western Electric
Denver Works

Section 250.11
7-1-81
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DIMENSION® PBX

REMOTE MAINTENANCE ADIMINISTRATION
AND
TRAFFIC SYSTEM (RMATS)
CONNECTION

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1. GENERAL

1.1 This section provides installation information for the Remote Maintenance Administration and Traffic equipment connections to the Dimension PBX.

2. DOCUMENTATION

SD-1E443   201S Processor Interface Circuit
SD-1E480   201LPBX System Schematic
ED-1E367   201L PBX Cabling Information
SD-1E442   Processor Circuit

3. REQUIREMENTS

3.1 Insure that the Alarm Control circuit pack (LC18E) is installed in the Dimension 400 Control carrier slot number 28.

3.2 The Data Control circuit pack (LC171B) must be installed in the Dimension 400 and 2000 PBX control carriers and strapped for the appropriate option (refer to TABLE A below).

TABLE A

PBX	BOARD LOCATION	LC 171B OPTIONS				
		A36 (J1)			A37 (J2)	
		DATA LINK	TERMINALS STRAPPED		BAUD RATE	TERMINALS STRAPPED
400	32	High	2 to 7		300	1 to 8
2000	31	Speed	1 to 8			

PRIVATE

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3.   REQUIREMENTS (Cont'd)

3.3   Verify that all LC172B CIRCUIT PACKS have their option blocks strapped
for the common control in which they appear (See below).

OPTION	COMMON CONTROL IN WHICH LC172B APPEARS	STRAPPING ARRANGEMENT
A	∅	
AZ	1	
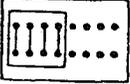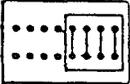
3.4   Verify that, for DUAL COMMON CONTROL installations, DATA CABLE
ED-1E367-11 GROUP 201 (FLAT) is connected between basic carrier connectors
BC09 of Control ∅ and BC11 of Control 1.

4.   BASIC RMAT PBX EQUIPMENT CABLING

4.1   Place or mount the data set, associated with the RMAT to be installed, in its
permanent position but not more than 50 cable feet from the associated
Dimension PBX control carrier.

4.2   Assure that the selected data set position is in power cord length of a fused
117 volt AC receptacle that is not under control of a wall switch.

4.3   Connect an ED-1E367-11 group 931 cable from connector CX02 (Dimension 400)
or BRM-1 (Dimension 2000) on the right side of the PBX control carrier to the
imput connector on the selected data set (see figure 1).

## 4.   BASIC RMAT PBX EQUIPMENT CABLING (Cont'd)

→ 4.3.1 Wire (ED-1E367-11 group 931) has a 50 pin connector which connects to CX02 and a 25 pin connector which goes to Data Set, See Table B.

TABLE B
CONNECTIONS FOR 25 PAIR CABLES

TERMINAL	WIRE COLOR	TERMINAL	WIRE COLOR
1 *	BLUE-WHITE	38	BLACK-GREEN
26	WHITE-BLUE	14 *	BROWN-BLACK
2 *	ORANGE-WHITE	39	BLACK-BROWN
27	WHITE-ORANGE	15 *	SLATE-BLACK
3 *	GREEN-WHITE	40	BLACK-SLATE
28	WHITE-GREEN	16 *	BLUE-YELLOW
4 *	BROWN-WHITE	41	YELLOW-BLUE
29	WHITE-BROWN	17 *	ORANGE-YELLOW
5 *	SLATE-WHITE	42	YELLOW-ORANGE
30	WHITE-SLATE	18 *	GREEN-YELLOW
6 *	BLUE-RED	43	YELLOW-GREEN
31	RED-BLUE	19 *	BROWN-YELLOW
7 *	ORANGE-RED	44	YELLOW-BROWN
32	RED-ORANGE	20 *	SLATE-YELLOW
8 *	GREEN-RED	45	YELLOW-SLATE
33	RED-GREEN	21 *	BLUE-VIOLET
9 *	BROWN-RED	46	VIOLET-BLUE
34	RED-BROWN	22 *	ORANGE-VIOLET
10 *	SLATE-RED	47	VIOLET-ORANGE
35	RED-SLATE	23 *	GREEN-VIOLET
11 *	BLUE-BLACK	48	VIOLET-GREEN
36	BLACK-BLUE	24 *	BROWN-VIOLET
12 *	ORANGE-BLACK	49	VIOLET-BROWN
37	BLACK-ORANGE	25*	SLATE-VIOLET
13 *	GREEN-BLACK	50	VIOLET-SLATE

* These are the wires which are connected to the 25 pin terminal which connects to the Data Set.

4.4   Connect an M13F cable to the output connector on the selected data set and terminate free end at the appropriate cross connect field (see Figure 1 and Table B).

4.5   Connect the selected data set power cord to the nearby 117 volt AC receptacle identified in paragraph 4.2 above.
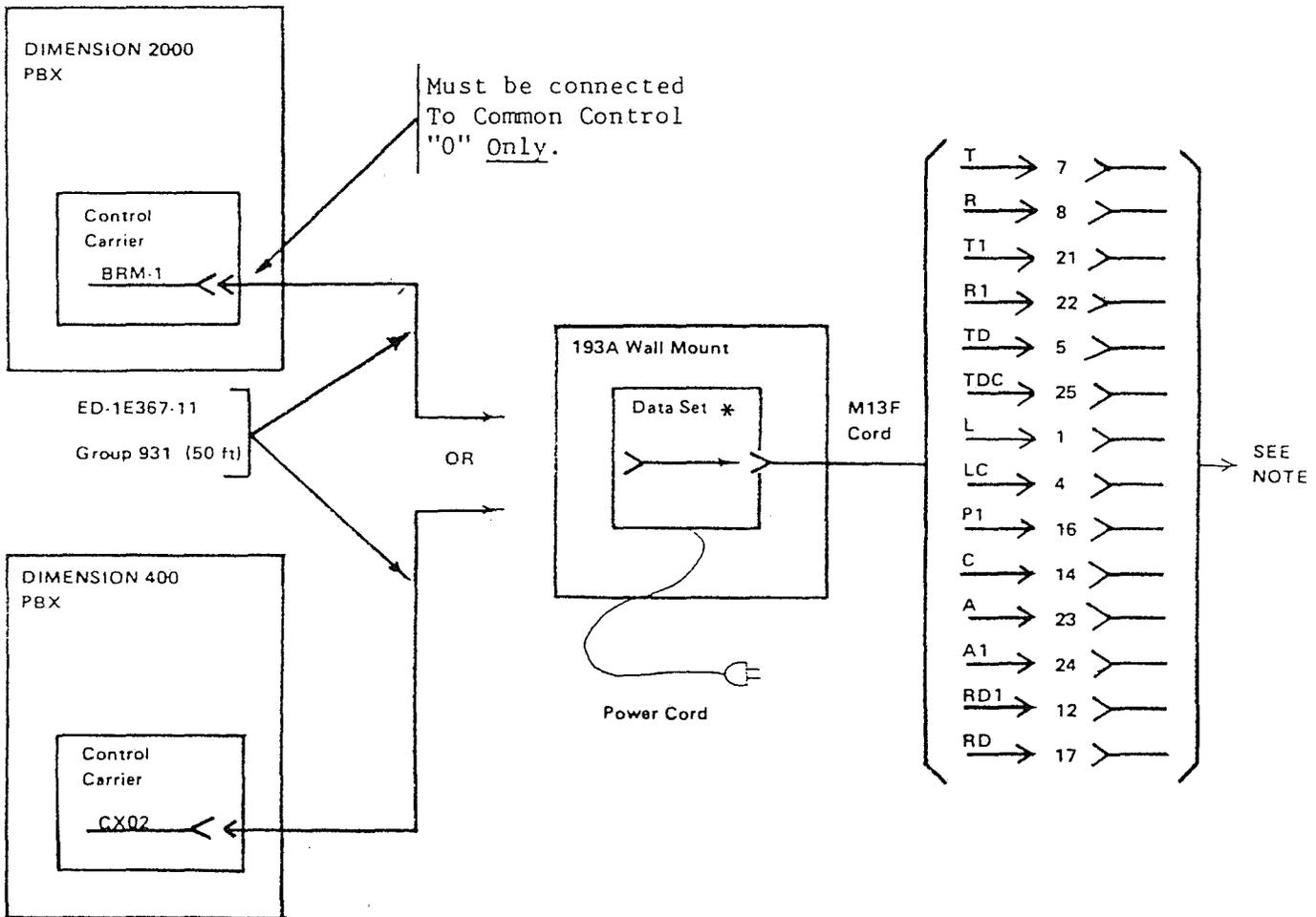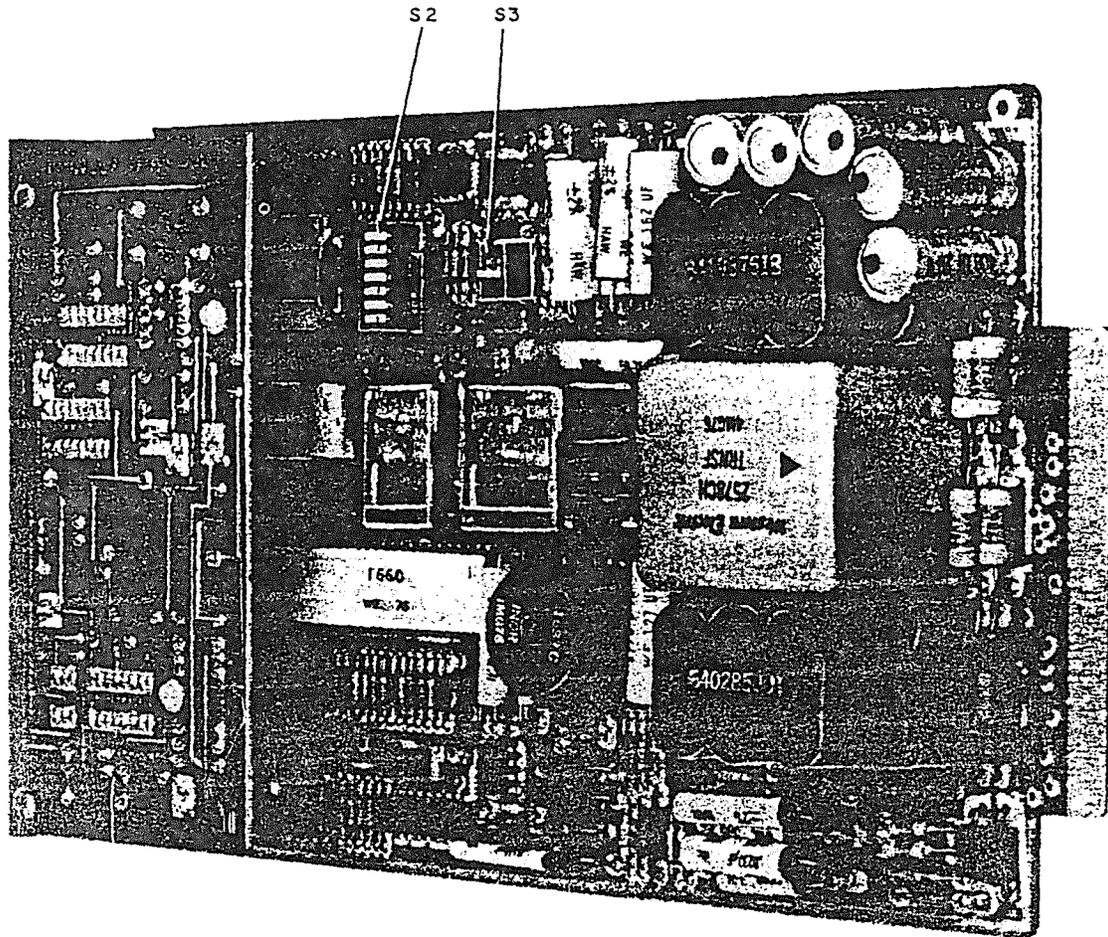
NOTE: To optional 2565 HK Tel Set Connector
via mounting cord or cross-connect
field. If Tel set is not used, Terminate
T & R leads on Purple Cross-Connect Field.

→ *Refer to Figure 2 (or 3), and the respective
Table C (or D) for option setting per Data Set.

Figure 1
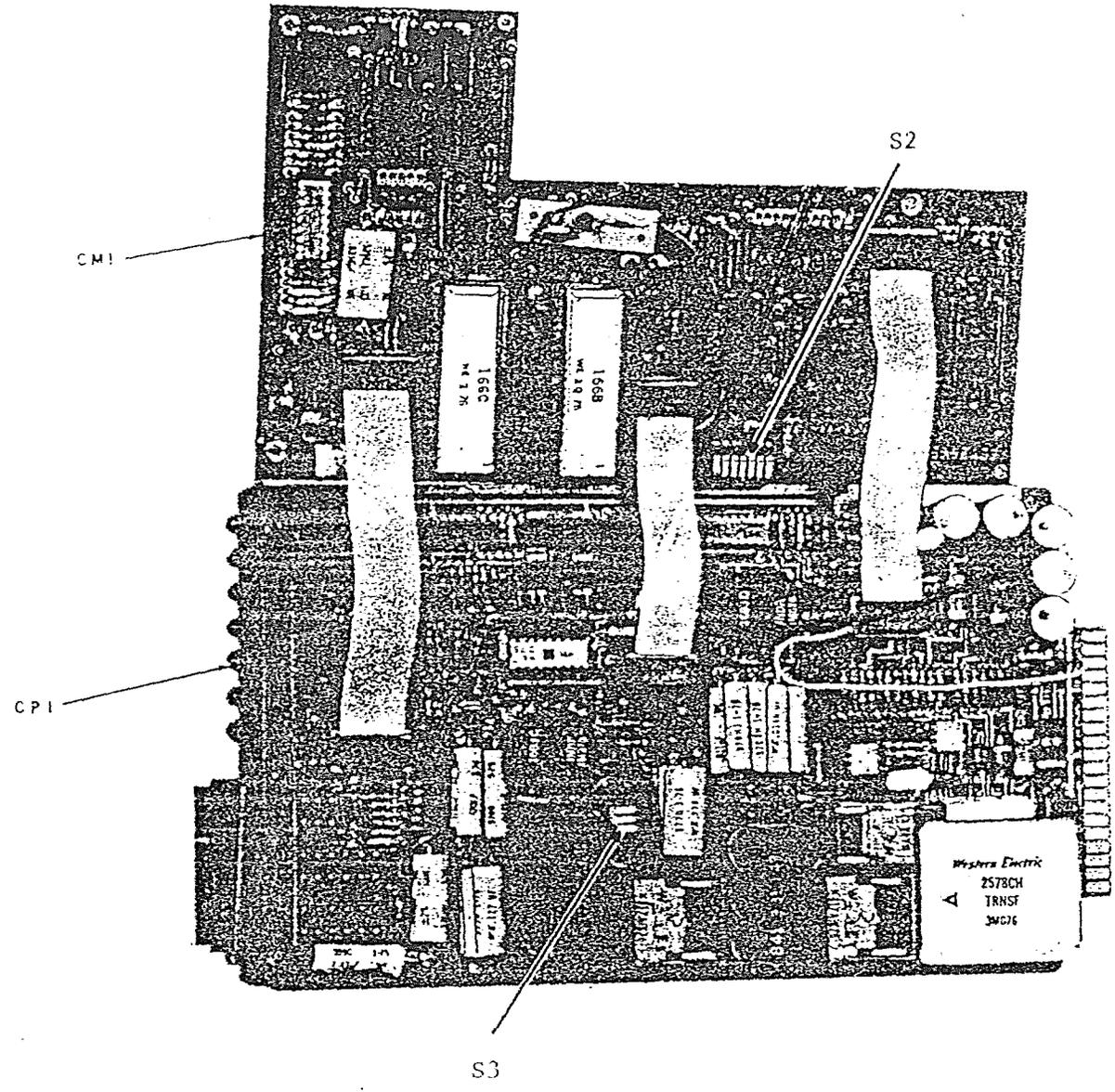
Figure 2 - Data Set 103J-L1/103JR-L1/2.

S2   S3

Figure 3 - Data Set 113D - L1/113DR - L1/2.

TABLE   C

103J/103JR, L1 DATA SET OPTIONS

REQUIRED FOR RMATS CABINET

Feature	Option	Factory Furnished Option	S2 Switch On CM1 Contact Setting							Note
			1	2	3	4	5	6	7	
Receive Space Disconnect	V	x	-	-	0	-	-	-	-	1
Send Space Disconnect	T	x	*	-	-	-	-	-	-	1
Loss-of-Carrier Disconnect	S	x	-	-	-	0	-	-	-	1
Early CC Indication	ZD	x	-	-	-	-	-	-	0	1
Common CB and CF Indications	A	x	-	*	-	-	-	-	-	1
CC Indication for Anolog Loop	ZF	x	-	-	-	-	0	-	-	1
Automatic Answer	ZH	x	-	-	-	-	-	0	-	2
			S3 Switch on CP1 Contact Setting							
Fail-Safe State of CN Circuit - Off	J	x	-	0	-					2
No Common Ring	ZA	x	0	-	-					2
No Tip-Ring Make Busy	E	x	-	-	0					2

* = Contact closed

0 = Contact open

- = Contact not applicable

NOTES: 1- Always provided
     2 - Provide per local requirement (features are not required for RMATS).

TABLE D

113D/113DR DATA SET OPTIONS
REQUIRED AT PBX FOR RMATS

Feature	Option	Factory Furnished Option	Switch S2 Contact Setting						
			1	2	3	4	5	6	7
Receive Space Disconnect	V	x	–	–	0	–	–	–	–
Send Space Disconnect	T	x	–	–	–	–	–	–	*
Loss of Carrier Disconnect	S	x	–	–	–	–	0	–	–
Common CB and CF Indications	A	x	–	*	–	–	–	–	–
CC Indication for Analog Loop	ZF	x	–	–	–	0	–	–	–
Fail-Safe State of CN Circuit-Off	J	x	0	–	–	–	–	–	–
Automatic Answer	ZH	x	–	–	–	–	–	0	–
			Switch S3 Contact Setting						
No Tip-Ring Make Busy	E	x	0	–					
No Common Ground (note)	P		Open S1 Screw Switch on 47E1 DM						

* = Contact Closed

0 = Contact Open

– = Contact not applicable

Note: Circuit ground must be isolated from frame ground for lighting surge protection.

⟶ Arrows indicate new or changed information.

Reason for reissue:
Correction and addition

Manager, Denver PBX PECC