

## DATA SET 202B TRANSMITTER-RECEIVER CONNECTIONS

### 1. GENERAL

**1.01** This section is reissued to include the connections for the Data Set 202B equipped with a D24D-61 (ZH option) mounting cord. The D24B-61 (ZG option) mounting cord has been rated Manufacture Discontinued but the connection information for this cord has been retained for maintenance purposes.

**1.02** Cover removal and replacement procedure is shown in Section 592-014-100.

**1.03** Due to extensive changes marginal arrows have been omitted.

### 2. CONNECTIONS

**2.01** Data set options must be specified on the service order. Connect options as shown in Table A. Location of TB1 and TB2 is shown in Fig. 1.



*To eliminate possible damage to electronic components in the data set, do not make power connection until all other connections have been completed. This includes all data set mounting cord leads.*

**2.02** Wiring changes and strapping of the associated telephone set (when required) is also shown in Table A. Select appropriate service application and wire as shown.

**2.03** Interconnections and line connections for the various service features are shown in Fig. 2 through Fig. 11. Separate figures have been prepared as overlays for data sets equipped with the D24B-61 (ZG option) mounting cord.

**2.04** Select the applicable interconnecting figure from the following list of figures and place interconnections as shown.

- (a) Fig. 2 — Data Set 202B Equipped With D24B-61 Cord (Overlay for Fig. 3).
- (b) Fig. 3 — Interconnections for 2- or 4-Wire Private Line Without Telephone Set (Data Set 202B Equipped with D24D-61 Cord).
- (c) Fig. 4 — Data Set 202B Equipped with D24B-61 Cord (Overlay for Fig. 5).
- (d) Fig. 5 — Interconnections for Data Set 202B Equipped with D24D-61 Cord and 569NB Telephone Set, No Provision for Use With Key Telephone Set.
- (e) Fig. 6 — Data Set 202B Equipped With D24B-61 Cord (Overlay for Fig. 7).
- (f) Fig. 7 — Interconnections for Data Set 202B Equipped With D24D-61 Cord and 569NB Telephone Set Used With 1A or 1A1 Key Telephone System.
- (g) Fig. 8 — Data Set 202B Equipped with D24B-61 Cord (Overlay for Fig. 9).

*Note:* Table B furnishes transmission pad options used with Fig. 8 and 9.

- (h) Fig. 9 — Interconnections for Data Set 202B Equipped With D24D-61 Cord and 568HB Telephone Set Used on 4-Wire Central Office Lines.
  - (i) Fig. 10 — Data Set 202B Equipped With D24B-61 Cord (Overlay for Fig. 11).
  - (j) Fig. 11 — Interconnections for Data Set 202B Equipped With D24D-61 Cord and 568HB Telephone Set Used on 4-Wire Private Line.
- 2.05** Method of converting spare pickup keys to signal keys is shown as part of the appropriate figure.
- 2.06** Connect the power cord to the standard 3-wire grounding type receptacle and secure with an approved type clamp (Where local regulations permit).

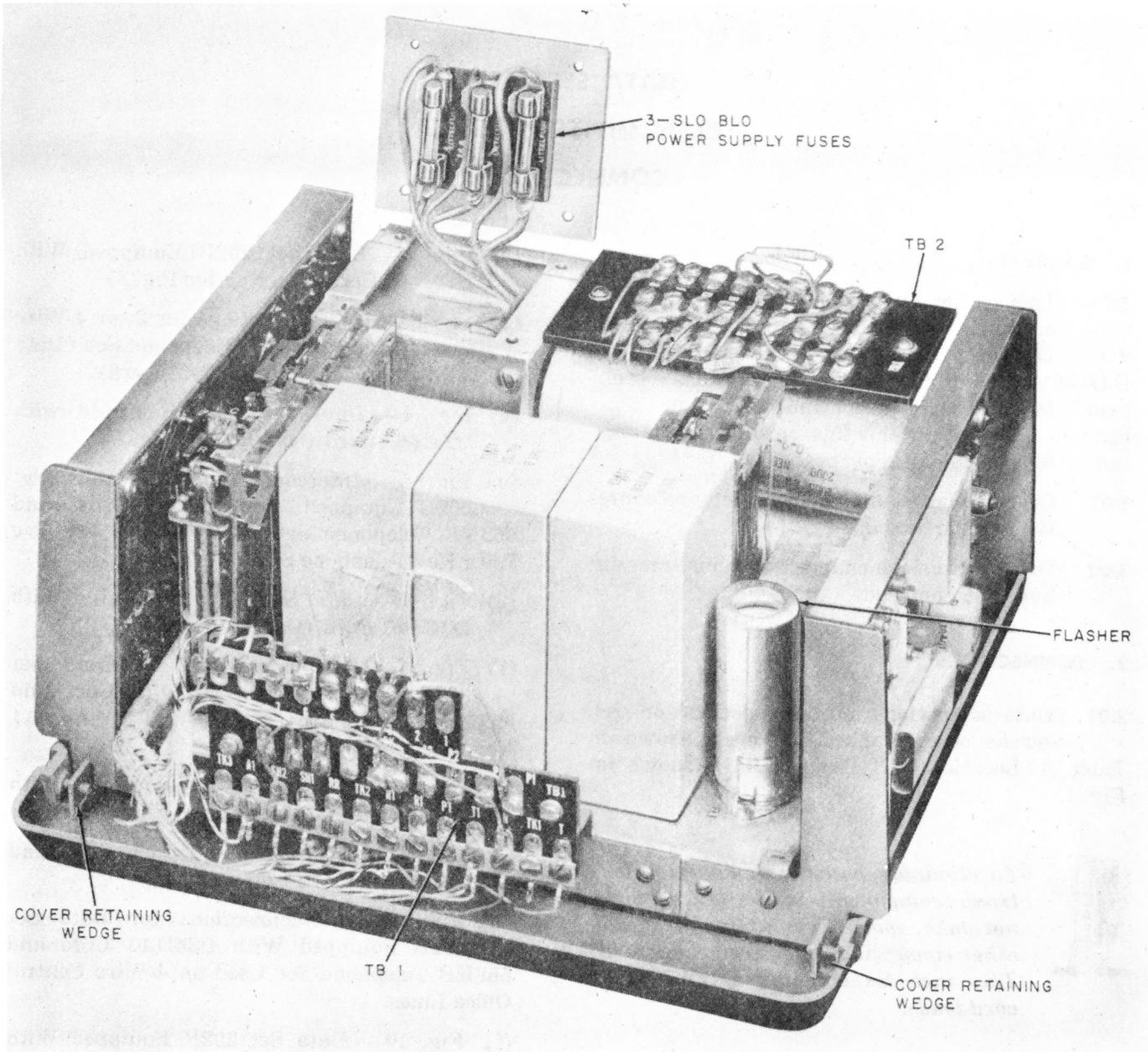


Fig. 1 — Data Set 202B — Inside View

TABLE A DATA SET OPTIONS AND TELEPHONE SET CONVERSION WIRING

QUANTITY	FEATURE OR OPTION DESCRIPTION	APP OR WIRING	DATA SET 202B				568HB TELEPHONE SET CONVERSION 4-WIRE SWITCHED NETWORK				568HB TELEPHONE SET CONVERSION 4-WIRE PRIVATE LINE				569NB TELEPHONE SET CONVERSION WITHOUT KEY TEL SYSTEM			569NB TELEPHONE SET CONVERSION WITH IAI KEY TEL SYSTEM				569NB TELEPHONE SET CONVERSION WITH IA KEY TELEPHONE SYSTEM									
			TB1 MAKE CONNECTION AS SHOWN		TB2 MAKE CONNECTION AS SHOWN		TEL SET TERM. STRIP				TEL SET TERM. STRIP				TEL SET TERM. STRIP			TEL SET TERM. STRIP				TEL SET TERM. STRIP									
			TERMINAL NO.	TERMINAL NO.	TERMINAL NO.	TERMINAL NO.	CORD LEAD	KEY LEAD	FROM	TO	CORD LEAD	KEY LEAD	FROM	TO	KEY LEAD	FROM	TO	CORD LEAD	KEY LEAD	FROM	TO	CORD LEAD	KEY LEAD	FROM	TO	SW HOOK LEAD	KEY LEAD	FROM	TO		
1	OVER 900 BITS PER SECOND	D†			8	D1																									
	900 OR LESS BITS PER SECOND	E			8	E1																									
1	CLAMP REMOVED ON DEMODULATOR OUTPUT (NOISE PROTECTION NOT REQD)	F			9	F																									
	CLAMP IN PLACE ON DEMODULATOR OUTPUT (NOISE PROTECTION REQUIRED)	G†			9	G																									
1	EQUALIZER NOT REQUIRED ON PRIVATE LINES ALREADY EQUALIZED	H			H1	H2																									
	EQUALIZER REQUIRED ON SWITCHED NETWORK OPERATION	J†			H1	J1																									
1	0 DBM OUTPUT	K			15	K **																									
	-6 DBM OUTPUT	M†			15	M **																									
1	600-OHM TERMINATION	N			1	2																									
	900-OHM TERMINATION	Q†			1	3																									
1	4-WIRE OPERATION (WITH TELEPHONE SET)	U			5	6																									
					12	7																									
1	2-WIRE OPERATION (WITH TELEPHONE SET)	T†			5	7																									
1	2-WIRE OPERATION (WITHOUT TELEPHONE SET)	T,S			SH1	SH2																									
1	4-WIRE OPERATION (WITHOUT TELEPHONE SET)	U,W			SH1	SH2																									
1	4-WIRE UNATTENDED ANSWERING	WITH PUSHBUTTON	V		1	2																									
		WITHOUT PUSHBUTTON	X			1	2																								
1	2-WIRE UNATTENDED ANSWERING	WITHOUT PUSHBUTTON	Y			1	2																								
		WITH PUSHBUTTON	Z†			1	2																								

\* DATA SET LETTERED LIST DESIGNATION    WIRING    QUANTITY

NONE OR A	P	1 PER CIRCUIT
B	R	1 PER CIRCUIT
WA	ZE	1 PER CIRCUIT
C	ZF	1 PER CIRCUIT

† WIRING FURNISHED BY MANUFACTURER.  
 ‡ SEE TABLE B FOR TRANSMISSION PAD OPTIONS.  
 § TAPE AND STORE.  
 \*\* TO PREVENT DAMAGE TO ELECTRONIC COMPONENTS, DISCONNECT POWER CORD TO DATA SET BEFORE MAKING ANY CONNECTIONS.

Table A

NOTE:  
 TO PREVENT DAMAGE TO ELECTRONIC COMPONENTS,  
 DISCONNECT POWER CORD TO DATA SET BEFORE  
 MAKING ANY CONNECTIONS. EXERCISE  
 EXTREME CARE WHEN CONNECTING  
 Y-BK CORD LEAD.

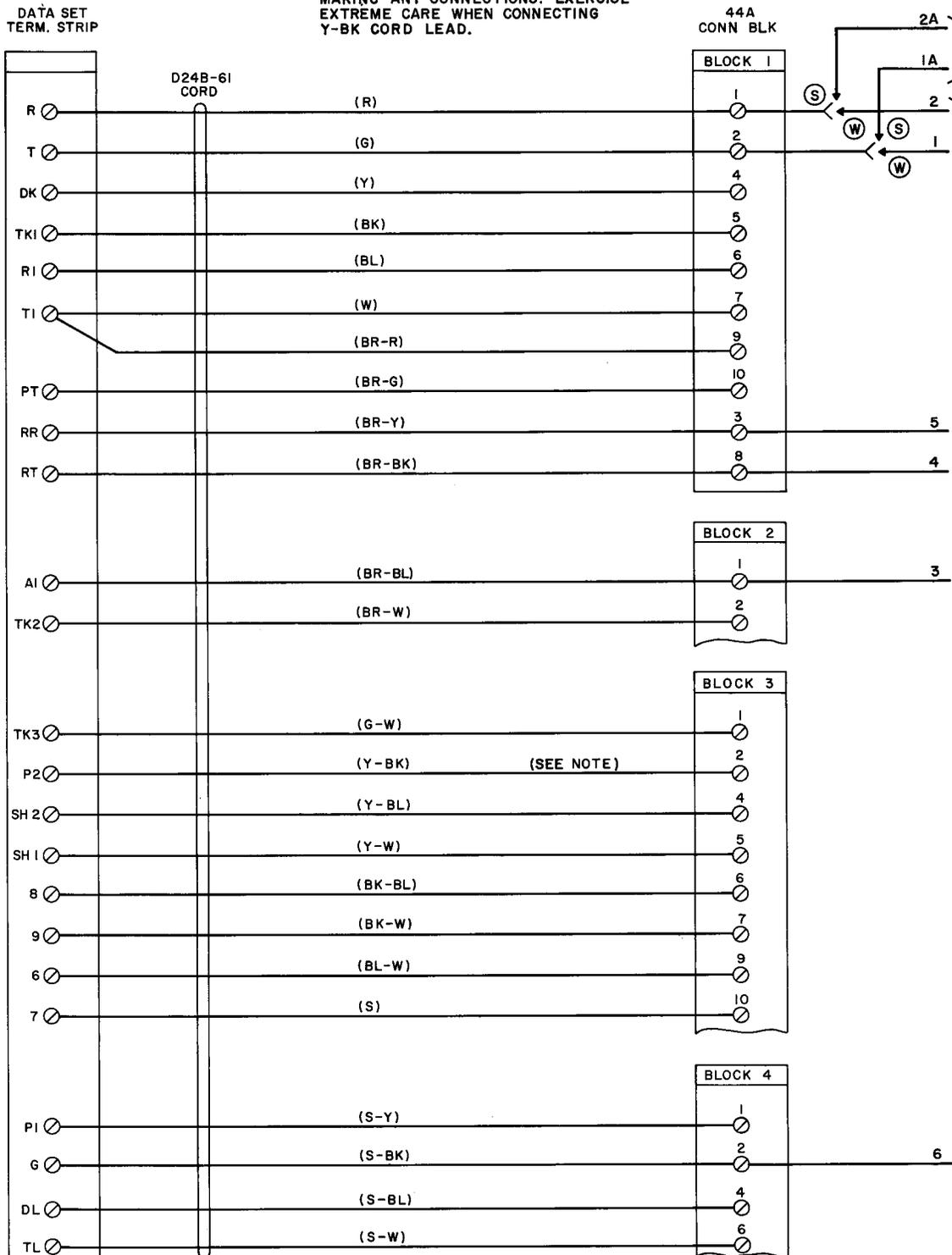


Fig. 2 — Data Set 202B Equipped With D24B-61 Cord For Fig. 3

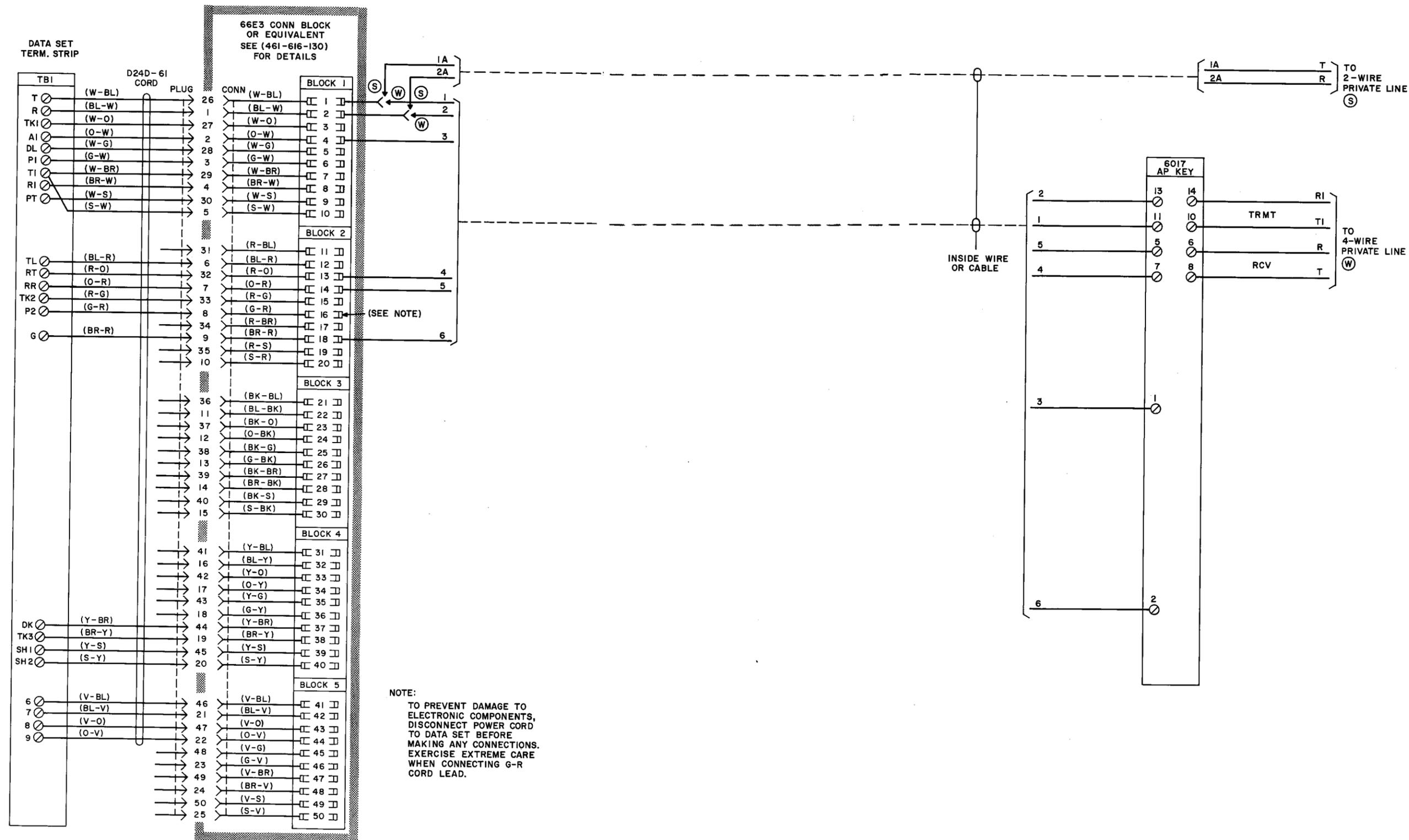


Fig. 3 — Interconnections For 2- or 4-Wire Private Line Without Telephone Set (Data Set 202B Equipped With D24D-61 Cord)

NOTE:  
 TO PREVENT DAMAGE TO ELECTRONIC COMPONENTS,  
 DISCONNECT POWER CORD TO DATA SET BEFORE  
 MAKING ANY CONNECTIONS. EXERCISE EXTREME  
 CARE WHEN CONNECTING Y-BK CORD LEAD.  
 \* TAPE AND STORE.

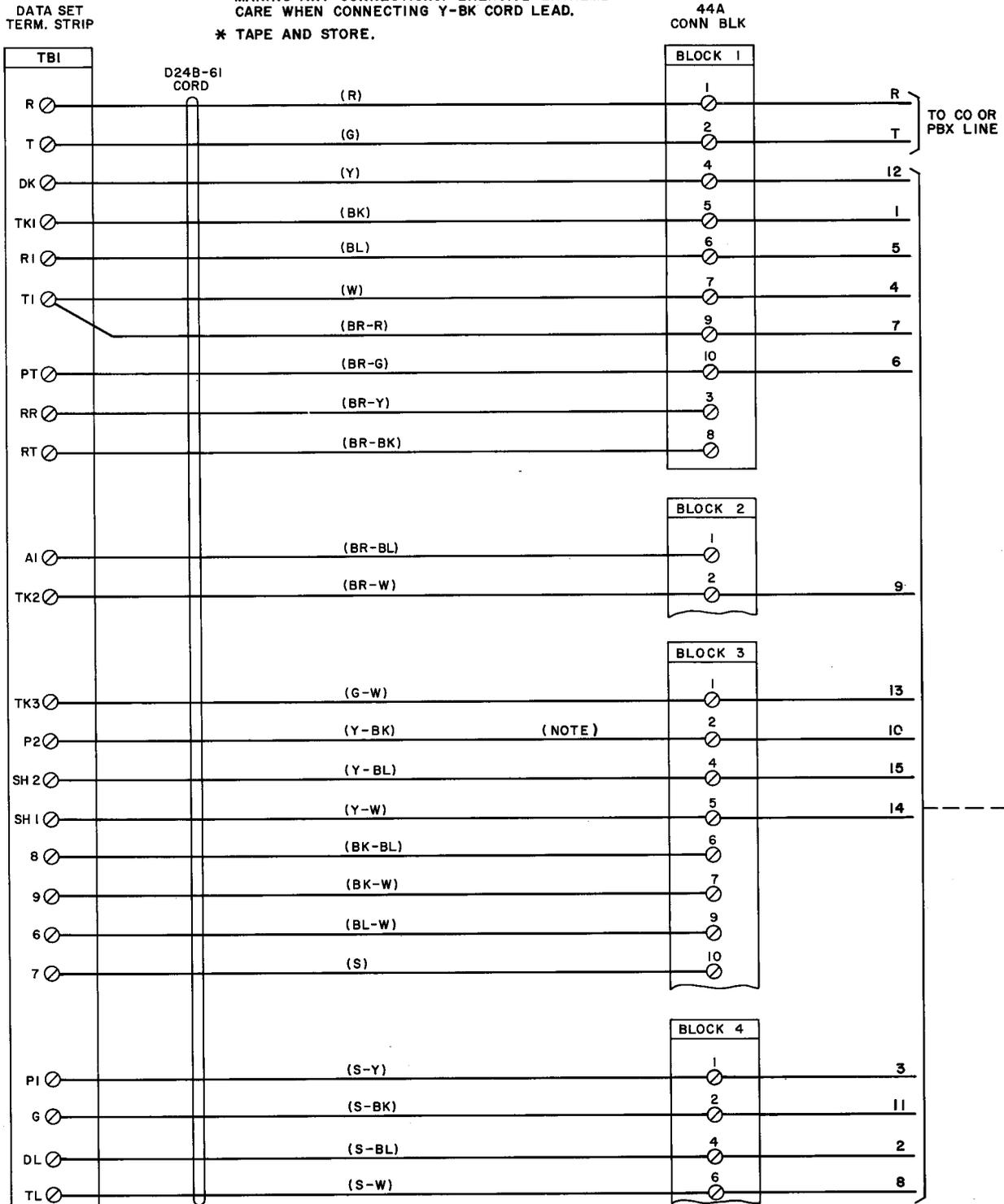


Fig. 4 — Data Set 202B Equipped With D24B-61 Cord For Fig. 5

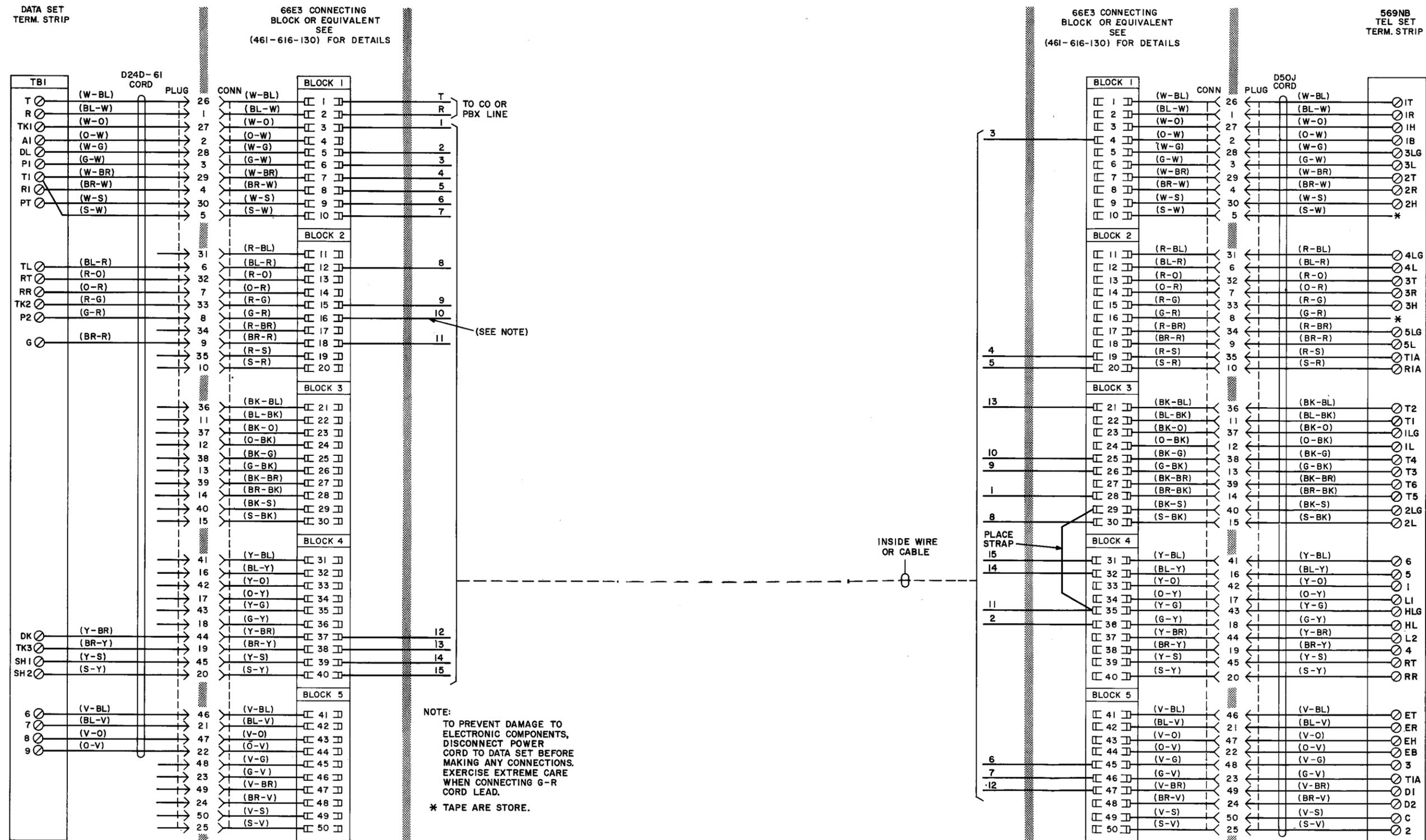


Fig. 5 — Interconnections For Data Set 202B Equipped With D24D-61 Cord and 569NB Telephone Set, No Provision For Use With Key Telephone System

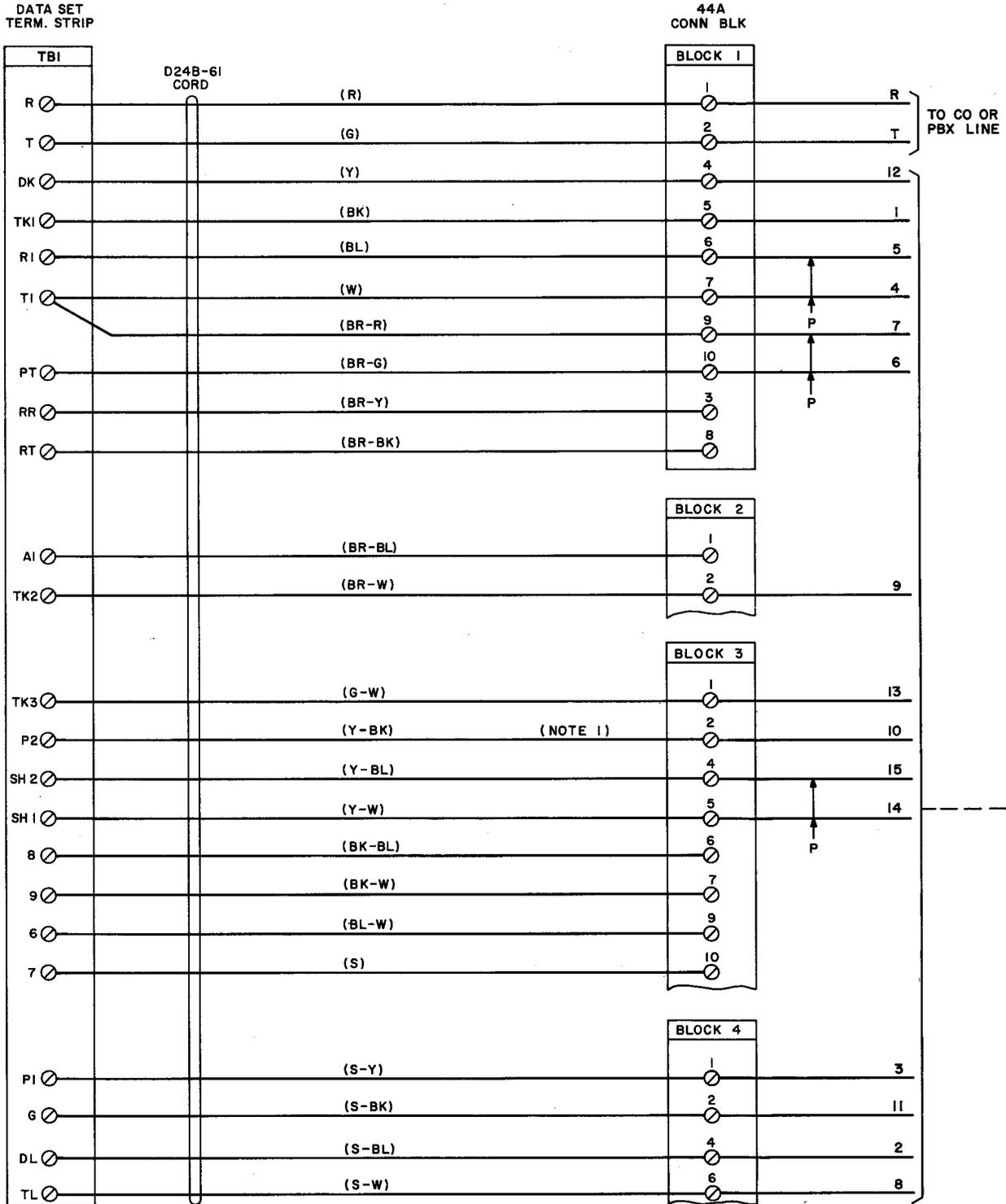


Fig. 6 — Data Set 202B Equipped With D24B-61 Cord For Fig. 7

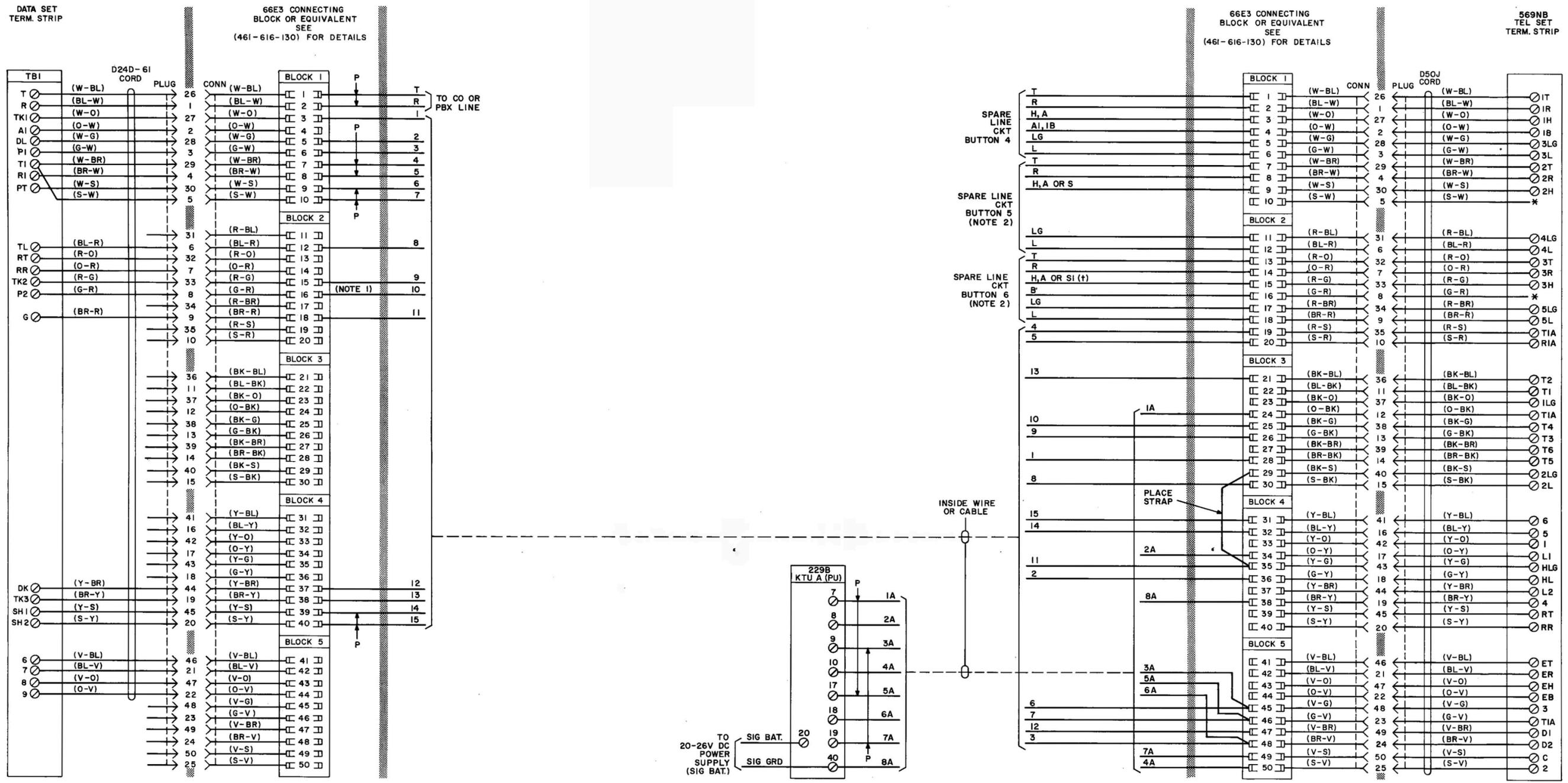


Fig. 7—Interconnections For Data Set 202B Equipped With D24D-61 Cord and 569NB Telephone Set Used With 1A or 1A1 Key Telephone System

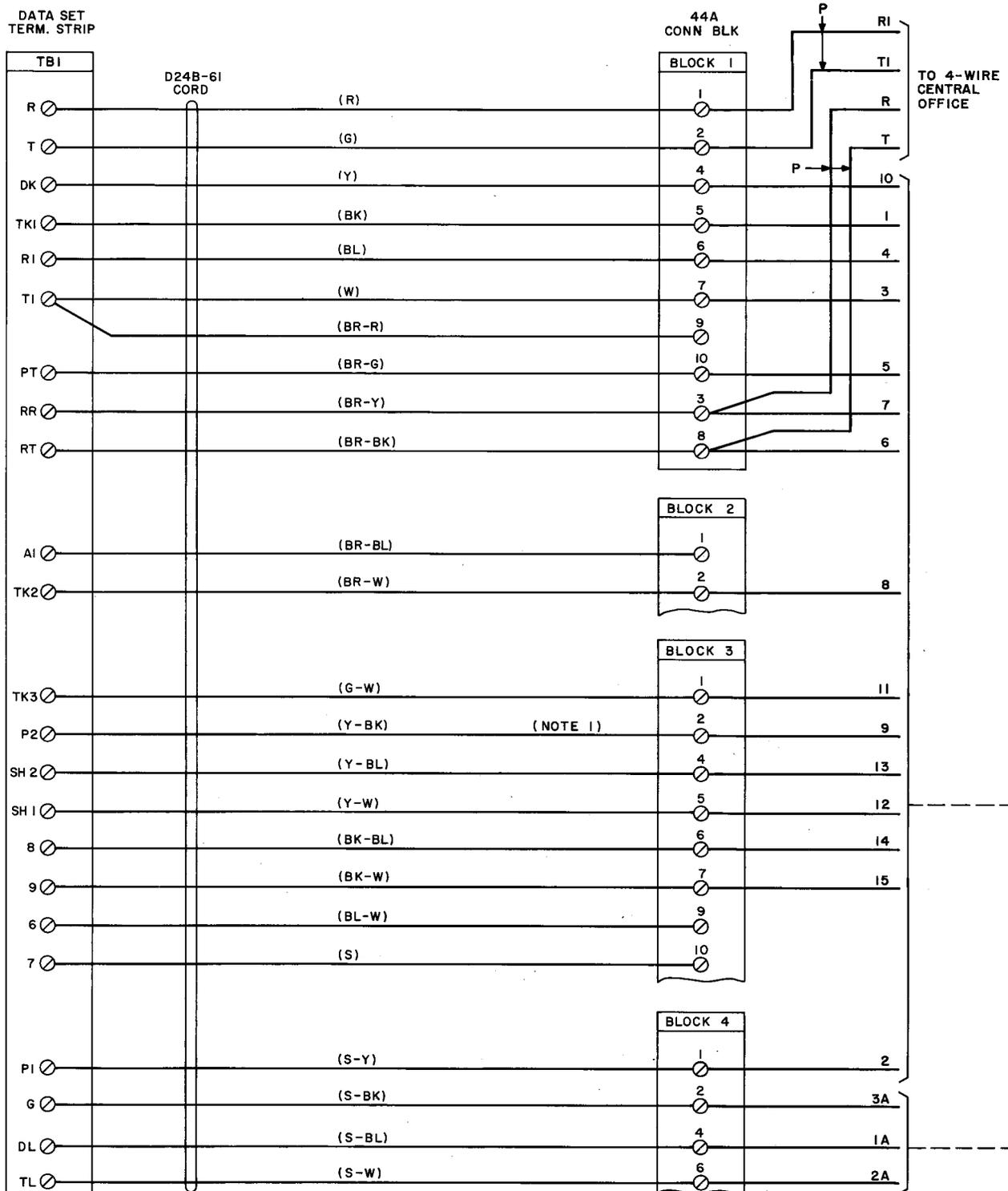
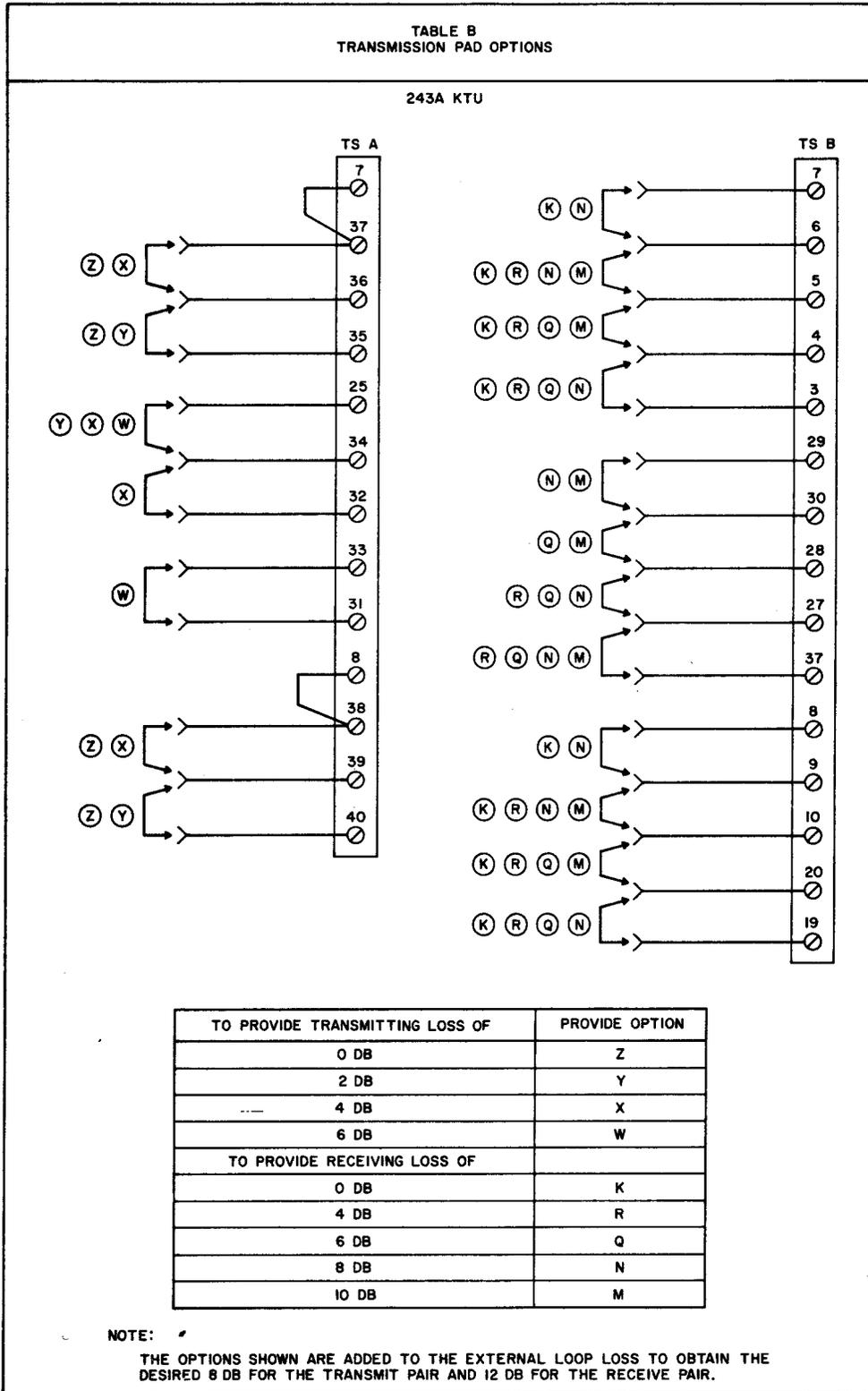
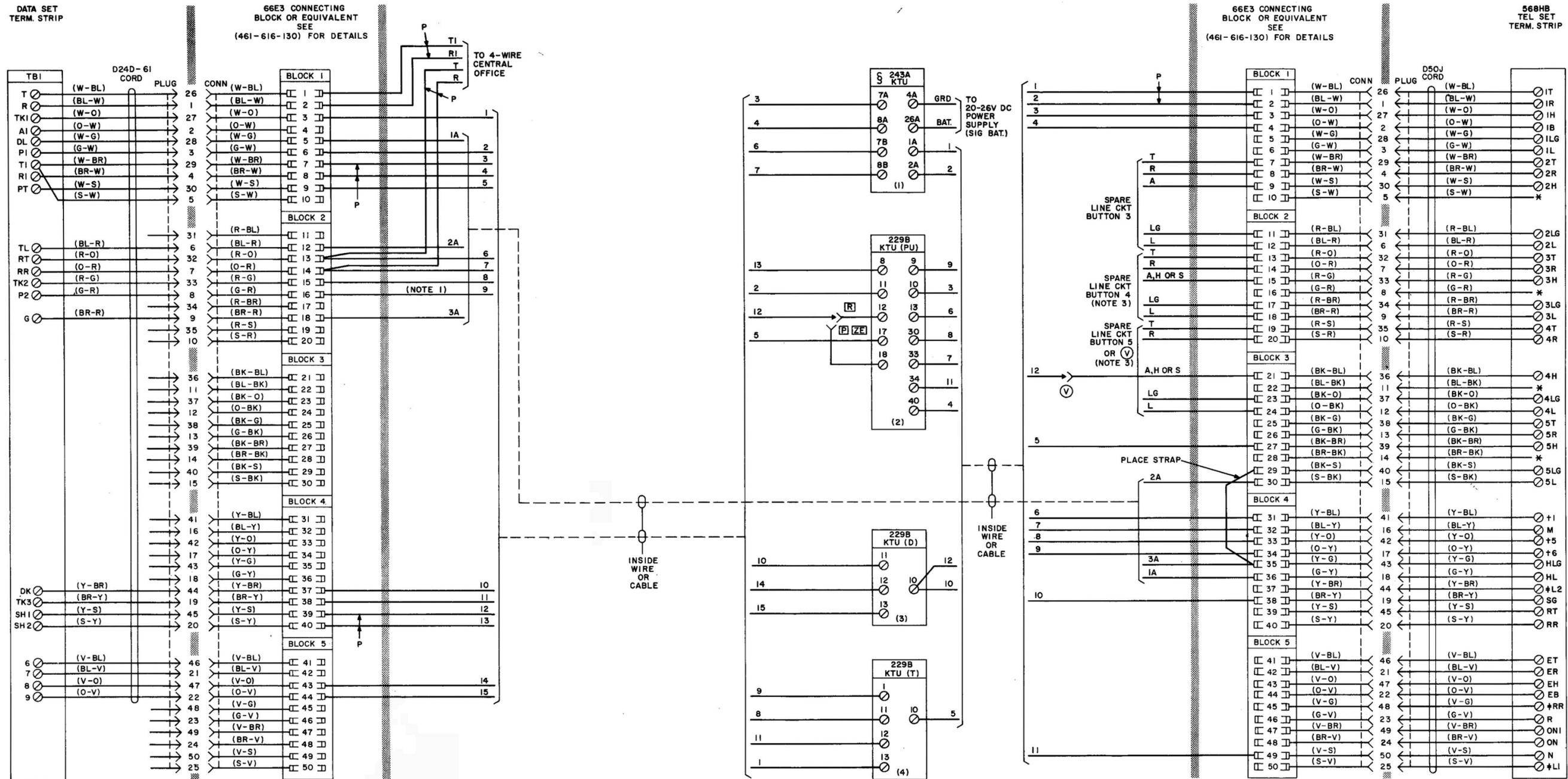


Fig. 8 — Data Set 202B Equipped With D24B-61 Cord For Fig. 9

TABLE B TRANSMISSION PAD OPTIONS





KEY TELEPHONE UNIT STRAPPING INFORMATION

KEY TELEPHONE UNITS			
243A (1)	229B (2)	229B (3)	229B (4)
1A	15		
2A	16		
7A	2		
8A		14	
1B	31		
2B	19		
7B		3(X) 13	
8B		2(X) 12	
21B	5		
22B	6		
		1	1 2 3
26A	3	20	20
		7	24
		18	22 14
4A	40		

- NOTES:
- TO PREVENT DAMAGE TO ELECTRONIC COMPONENTS, DISCONNECT POWER CORD TO DATA SET BEFORE MAKING ANY CONNECTIONS. EXERCISE EXTREME CARE WHEN CONNECTING CORD LEAD.
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DATA SET LETTERED LIST DESIGNATION	WIRING	QUANTITY
NONE OR A	P	1 PER CIRCUIT
B	R	1 PER CIRCUIT
WA	ZE	1 PER CIRCUIT
C	ZF	1 PER CIRCUIT

3. PICK UP TO SIGNAL KEY CONVERSION.

SPARE BUTTON NO.	MOVE		
	LEAD	FROM	TO
4	BR	M	X
5		NONE REQUIRED	

- \* TAPE AND STORE.
- + TERMINALS ON T3 ASSEMBLY.
- # TERMINALS ON NETWORK.
- § FOR ATTENUATION STRAPPING, REFER TO TABLE B.

Fig. 9— Interconnections For Data Set 202B Equipped With D24D-61 Cord and 568HB Telephone Set Used on 4-Wire Central Office Lines

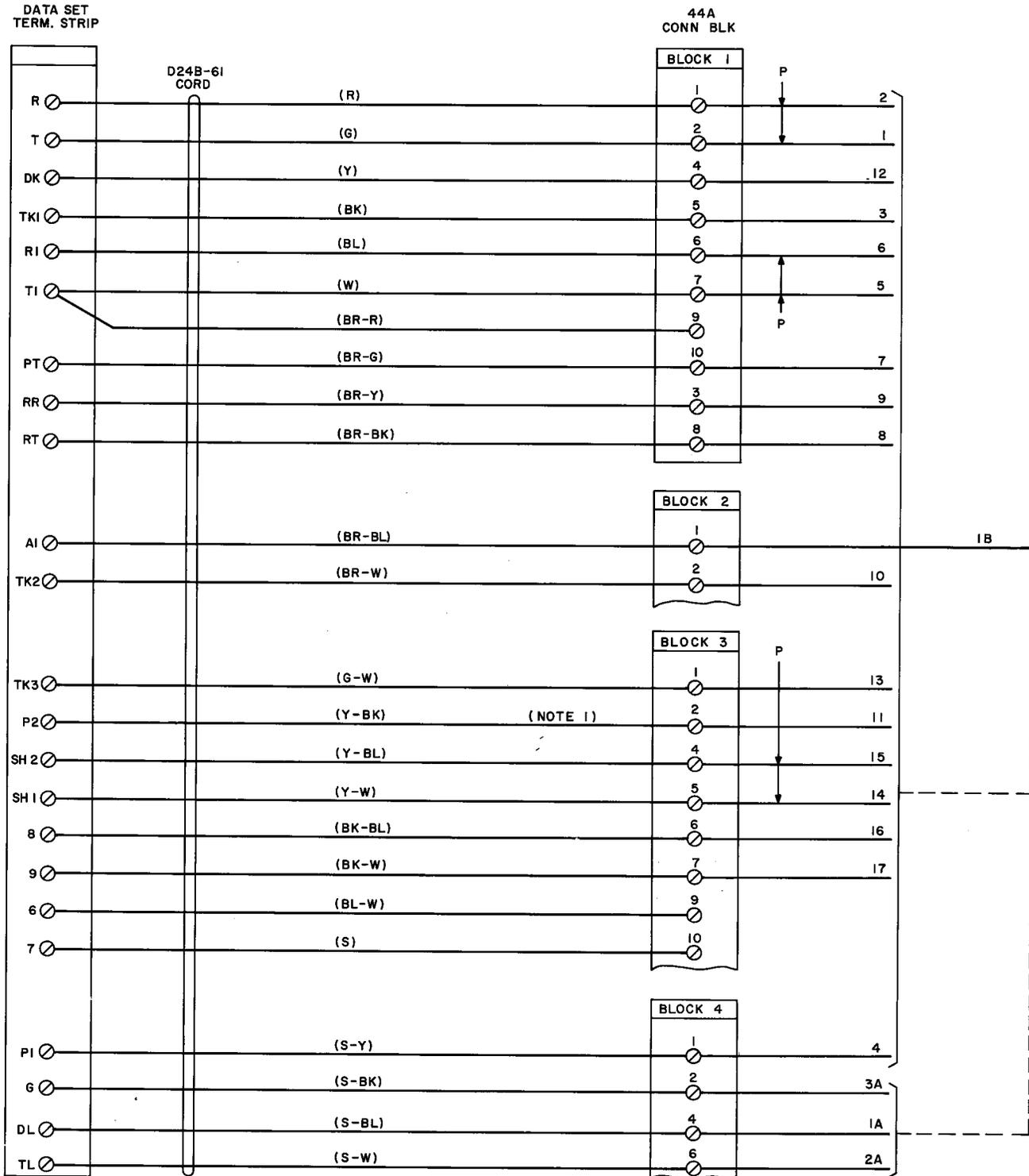
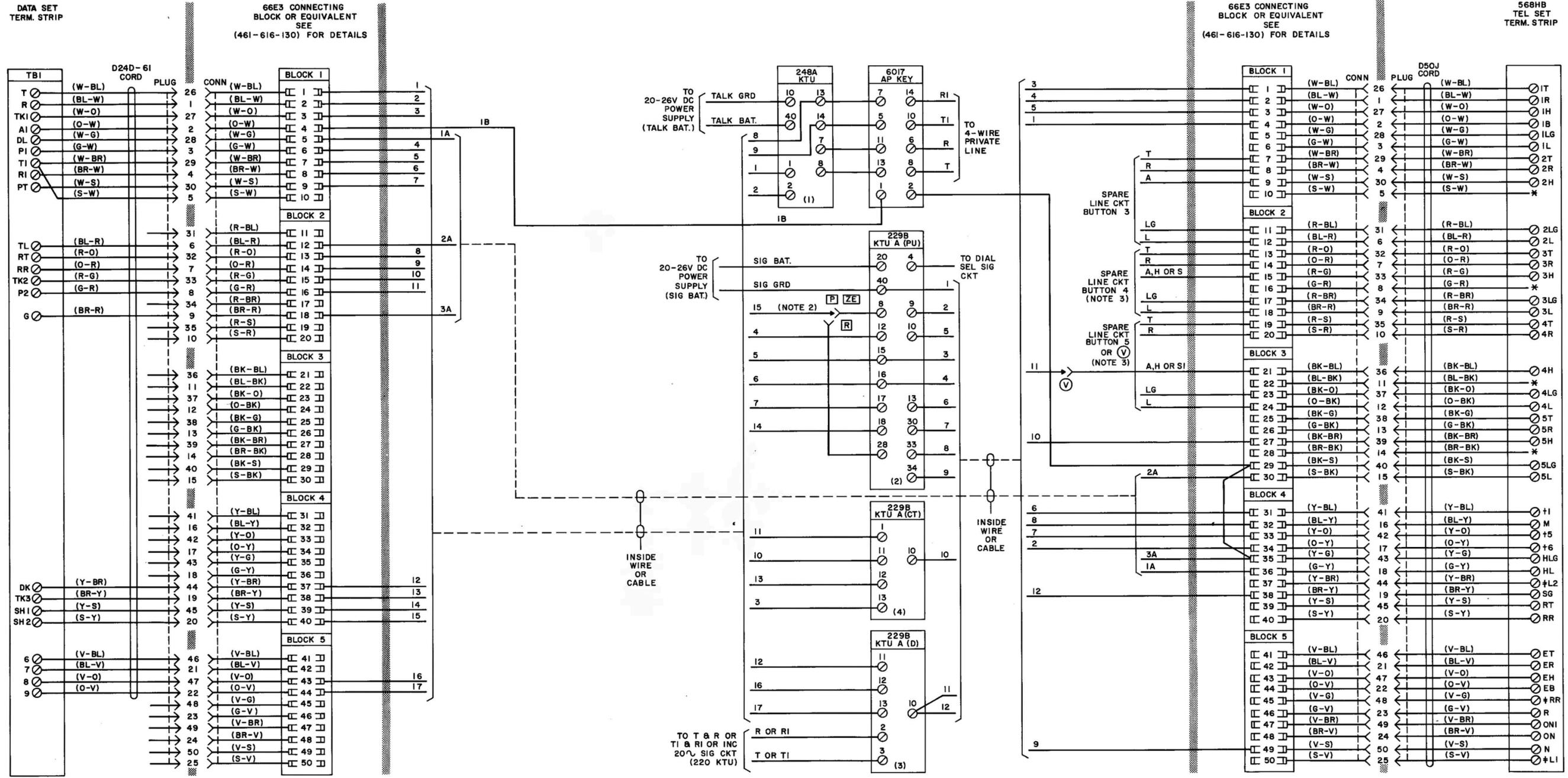


Fig. 10 — Data Set 202B Equipped With D24B-61 Cord For Fig. 11



KEY TELEPHONE UNIT STRAPPING INFORMATION

KEY TELEPHONE UNITS			
248A (1)	229B (2)	229B (3)	229B (4)
1	8		
3	31		
4	19		
6	14		
10	40	1	
11	5		
12	6		
21	31	2 (X)	12
22	32	3 (X)	13
30	11	24	
23	33	2	1
	3	20	20
	7	24	
	16	14	
	28	14	

- NOTES:
- TO PREVENT DAMAGE TO ELECTRONIC COMPONENTS, DISCONNECT POWER CORD TO DATA SET BEFORE MAKING ANY CONNECTIONS. EXERCISE EXTREME CARE WHEN CONNECTING CORD LEAD.
  - | DATA SET LETTERED LIST DESIGNATION | WIRING | QUANTITY      |
|------------------------------------|--------|---------------|
| NONE OR A                          | [P]    | 1 PER CIRCUIT |
| B                                  | [R]    | 1 PER CIRCUIT |
| WA                                 | [ZE]   | 1 PER CIRCUIT |
| C                                  | [ZF]   | 1 PER CIRCUIT |
  - PICK UP TO SIGNAL KEY CONVERSION.
 

SPARE BUTTON NO.	MOVE		
	LEAD	FROM	TO
4	BR	M	X
5	NONE REQUIRED		
- \* TAPE AND STORE.  
 † TERMINALS ON T3 ASSEMBLY.  
 ‡ TERMINALS ON NETWORK.  
 \*\* 542AG CAPACITOR, 2UF OR EQUIVALENT.

Fig. 11 — Interconnections For Data Set 202B Equipped With D24D-61 Cord and 568HB Telephone Set Used on 4-Wire Private Line