

## TELEPHONE SETS

### 2568HP AND 2568HU

### CONNECTIONS

#### 1. GENERAL

**1.01** This section contains connection information for the 2568HP (MD) and 2568HU key telephone sets for use on specially engineered lines only. *Not for general telephone use.*

**1.02** These sets are arranged for 2- and 4-wire service and use with 1A1, 1A2, and 6A key telephone systems. As furnished, exclusion is provided for 2-wire service on Line 1 (for exclusion on other lines and 4-wire service see Table B).

**1.03** These sets may also be used with 3-type speakerphone. For speakerphone operation, terminate mounting cord conductors as shown in Table C. Refer to SD-69487-01 for connections to speakerphone system.

**1.04** The MA4 relay (Fig. 1) or FW relay (Fig. 2) switches the receiver from 2- to 4-wire circuitry.

(a) On 2-wire lines, contacts on the unoperated relays connect the receiver to the 425G network. The handset and network circuit function in the same manner as a common battery subscriber station circuit.

(b) On 4-wire lines, contacts of the operated relays disconnect the receiver from the network and connect it to the RR and RT leads. The transmitter and network function in the same manner as a common battery transmitter circuit. The receiver RR and RT leads are connected to impedance-matching repeat coils in the associated line circuits.

#### 2. CONNECTION INDEX



*No changes in wiring other than those specified in this practice shall be made.*

Table A — Pickup-Signal Key Conversion

Table B — Exclusion Conversion

Table C — Speakerphone Connections

Table D — Conductor Assignments Using 66E-Type Connecting Block or A25B Connector Cable

Table E — 2568HU Telephone Set Ringer or Buzzer Connections

Table F — 2568HP (MD) Telephone Set Ringer or Buzzer Connections

Fig. 1 — 2568HU Telephone Set, Connections

Fig. 2 — 2568HP (MD) Telephone Set, Connections

Fig. 3 — Buzzer Connections

**TABLE A**  
**PICKUP-SIGNAL KEY CONVERSION\***

CONVERTIBLE-KEY OPTIONS	KEY LEADS		
	BR	S-R	BR-BK
HPPPPP	M	M	X
HPPPPS	M	M	SG
HPPPSS	M	SG	X
HPPSSS	X	SG	X

\* All convertible key positions are arranged in the shop as pickup positions. To convert a key position from pickup (locking) to signal (non-locking), remove the P-12A892 screw detail and make necessary connection changes. To convert a key position from nonlocking to locking, reverse above procedure. When using convertible keys for signaling, use S lead of key involved for signal circuit and G lead for common signal ground.

SECTION 529-225-468

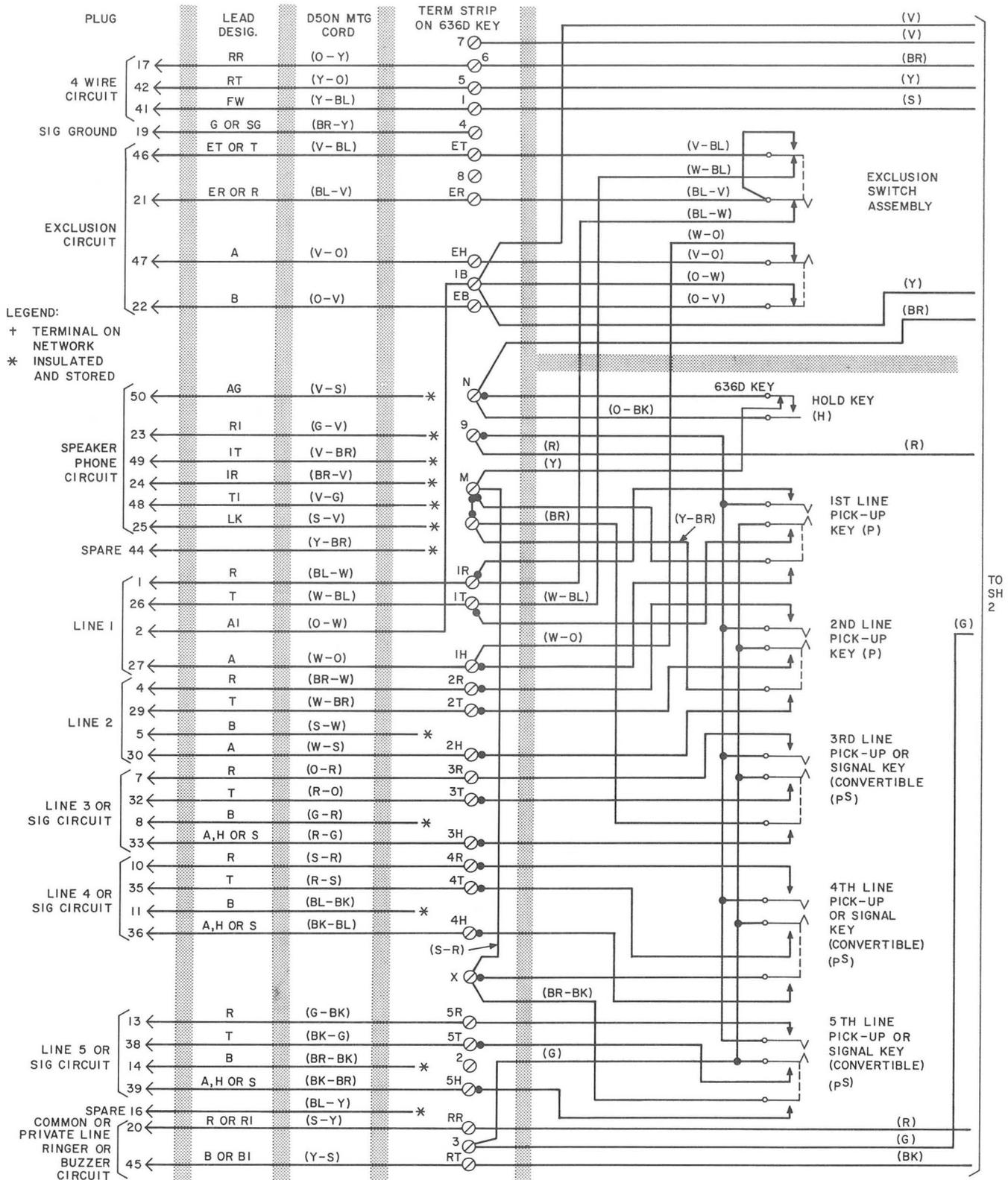


Fig. 1 — 2568HU Telephone Set, Connections (Sheet 1 of 2)

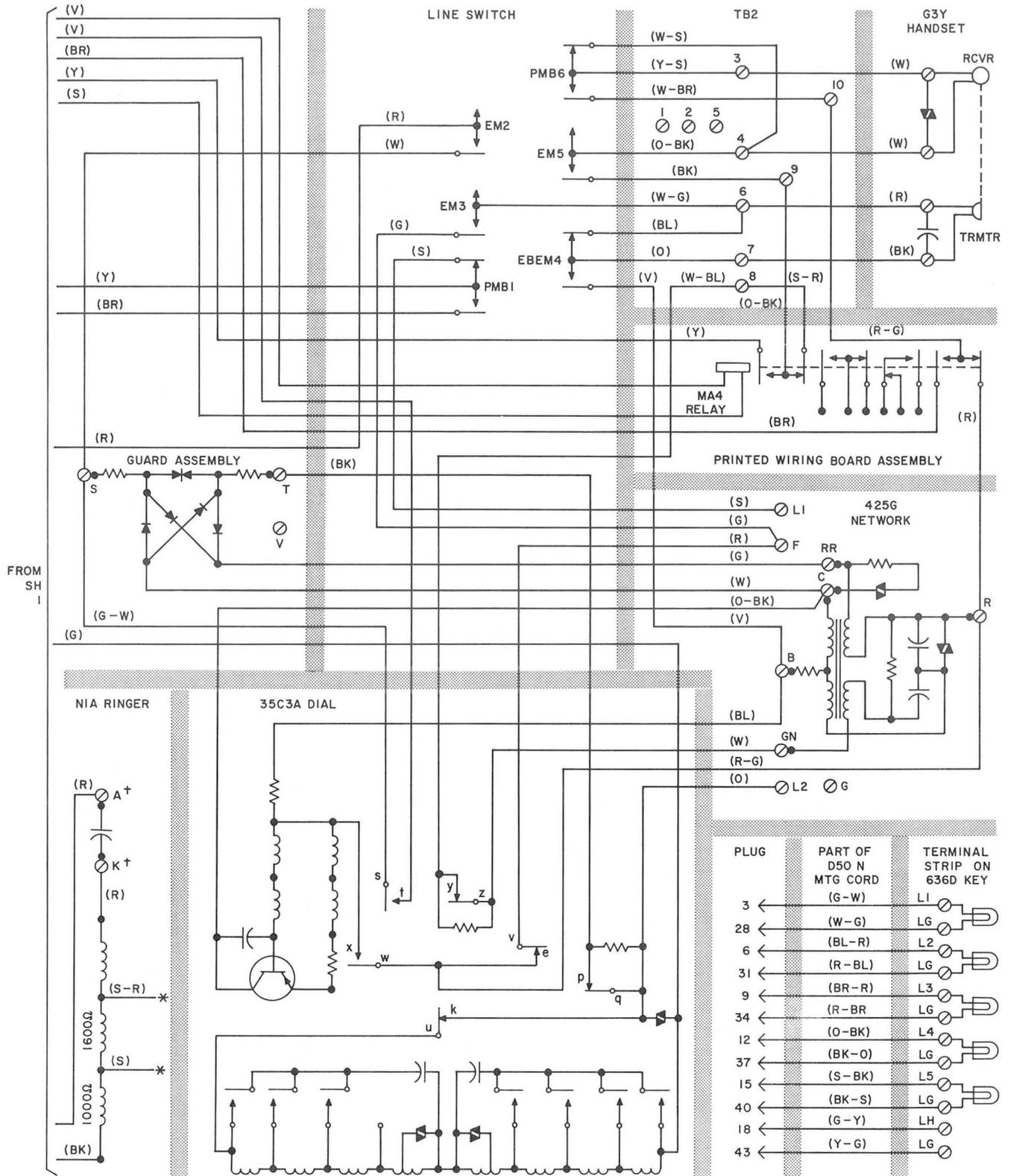


Fig. 1 — 2568HU Telephone Set, Connections (Sheet 2 of 2)

SECTION 529-225-468

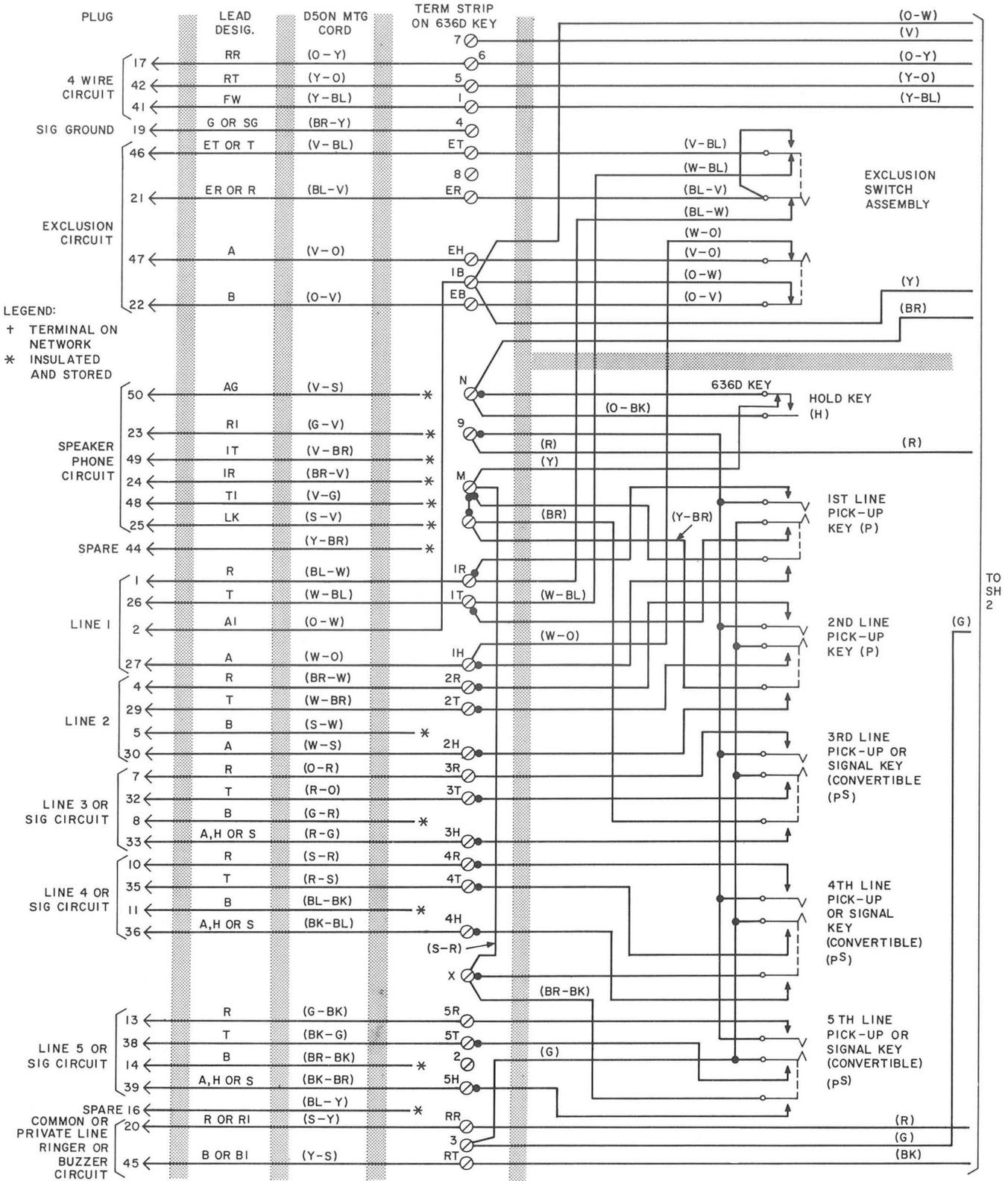


Fig. 2 — 2568HP (MD) Telephone Set, Connections (Sheet 1 of 2)

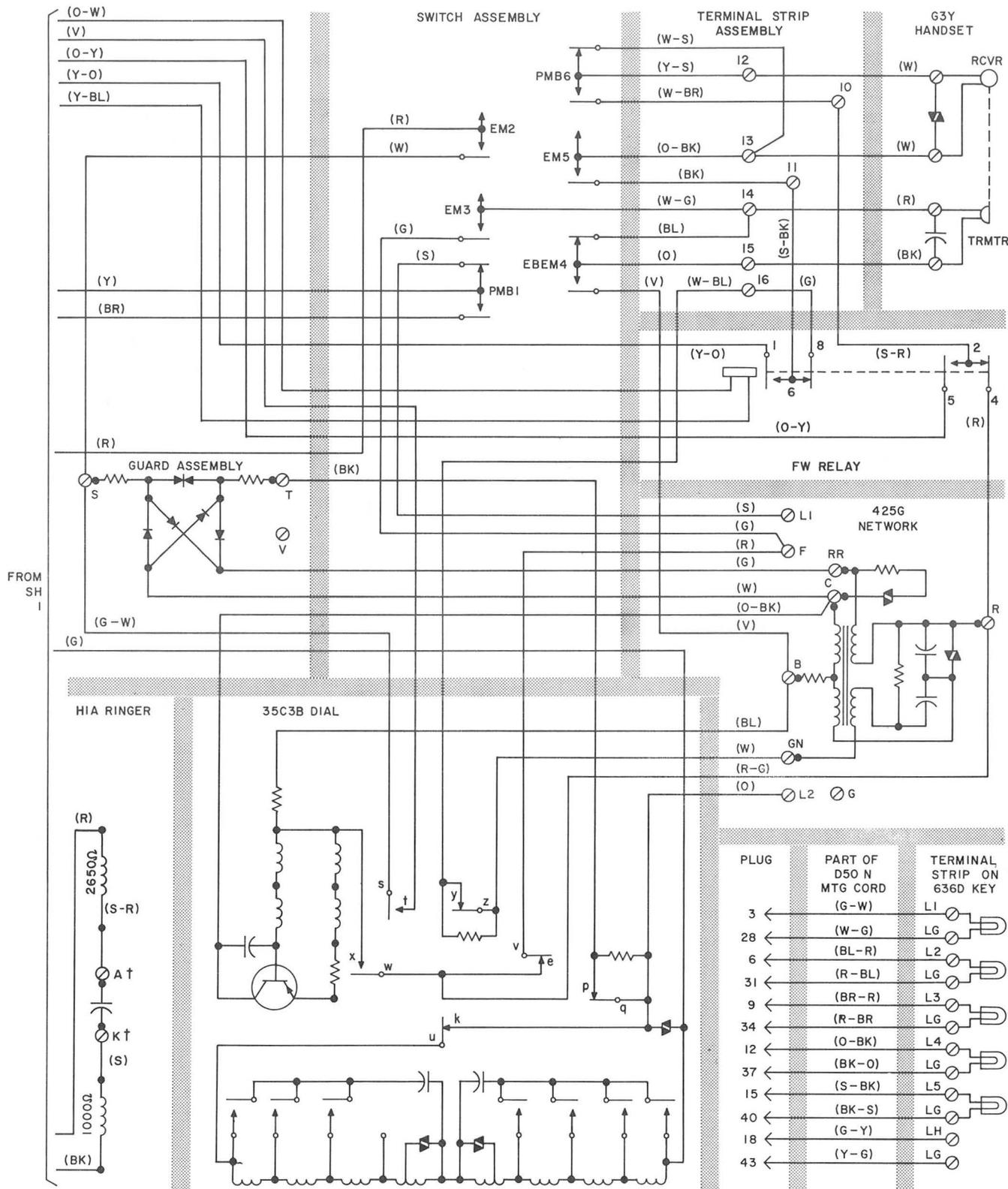


Fig. 2 — 2568HP (MD) Telephone Set, Connections (Sheet 2 of 2)

**TABLE B**  
**EXCLUSION CONVERSION**

EXCLUSION OPTION	EXCLUSION KEY LEADS		
	BL-W	W-BL	W-O
Line 1 (2-wire)*	1R	1T	1H
Line 2 (2-wire)	2R	2T	2H
Line 3 (2-wire)	3R	3T	3H
Line 4 (2-wire)	4R	4T	4H
Line 5 (2-wire)	5R	5T	5H
4-wire†	‡	‡	‡

\* Set is shop wired to provide exclusion for 2-wire service on line 1.

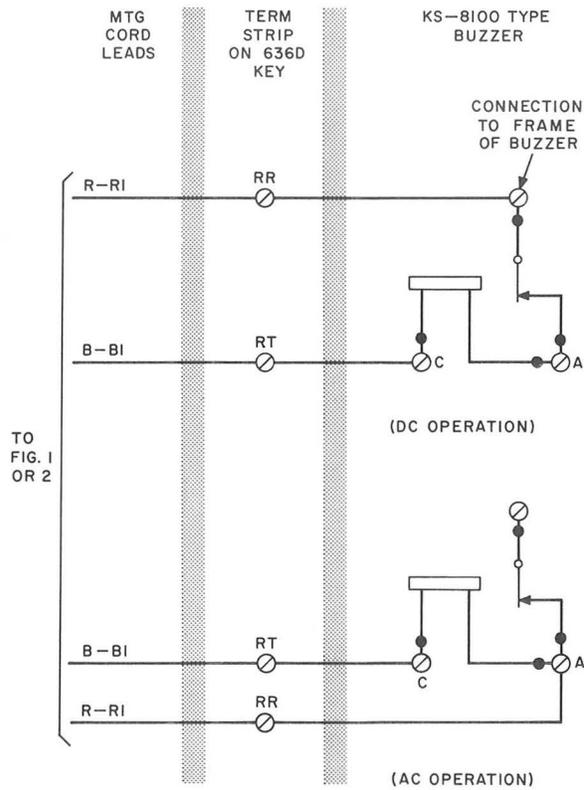
† Connect ET(V-BL) and ER(BL-V) from set to external pickup relay associated with control station.

‡ Individually insulate and store.

**TABLE C**  
**SPEAKERPHONE CONNECTIONS**

MOUNTING CORD LEAD		CONNECT TO TEL SET TERMINAL
COLOR	DESIG	
G-V	R1	9
V-G	T1	T (Polarity Guard)
BR-V	IR	7
V-BR	IT	*
S-V	LK	L1 (425G network)
V-S	AG	N

\* Insulated and stored.



**Fig. 3 — Buzzer Connections**

TABLE D

## CONDUCTOR ASSIGNMENTS USING 66E-TYPE CONNECTING BLOCK OR A25B CONNECTOR CABLE

LEAD DESIG	MOUNTING CORD			A25B CONNECTOR CABLE			66E-TYPE CONNECTING BLOCK	
	CORD CONDUCTOR	TEL SET TERMINAL	PIN NO.	CONNECTOR CABLE PAIR NO.	CONDUCTOR COLOR	PIN NO.	CLIP TERMINAL NO.	BLOCK NO.
T	W-BL	1T	26	1	W-BL	26	1	1
R	BL-W	1R	1		BL-W	1	2	
A	W-O	1H	27	2	W-O	27	3	
A1	O-W	1B	2		O-W	2	4	
LG	W-G	LG	28	3	W-G	28	5	
L1	G-W	L1	3		G-W	3	6	
T	W-BR	2T	29	4	W-BR	29	7	
R	BR-W	2R	4		BR-W	4	8	
A	W-S	2H	30	5	W-S	30	9	
B	S-W	*	5		S-W	5	10	
LG	R-BL	LG	31	6	R-BL	31	11	
L2	BL-R	L2	6		BL-R	6	12	
T	R-O	3T	32	7	R-O	32	13	
R	O-R	3R	7		O-R	7	14	
A, H, or S	R-G	3H	33	8	R-G	33	15	
B	G-R	*	8		G-R	8	16	
LG	R-BR	LG	34	9	R-BR	34	17	
L3	BR-R	L3	9		BR-R	9	18	
T	R-S	4T	35	10	R-S	35	19	
R	S-R	4R	10		S-R	10	20	
A, H, or S	BK-BL	4H	36	11	BK-BL	36	21	
B	BL-BK	*	11		BL-BK	11	22	
LG	BK-O	LG	37	12	BK-O	37	23	
L4	O-BK	L4	12		O-BK	12	24	
T	BK-G	5T	38	13	BK-G	38	25	
R	G-BK	5R	13		G-BK	13	26	
A, H, or S	BK-BR	5H	39	14	BK-BR	39	27	
B	BR-BK	*	14		BR-BK	14	28	
LG	BK-S	LG	40	15	BK-S	40	29	
L5	S-BK	L5	15		S-BK	15	30	
FW	Y-BL	1	41	16	Y-BL	41	31	
Spare	BL-Y	*	16		BL-Y	16	32	
RT	Y-O	5	42	17	Y-O	42	33	
RR	O-Y	6	17		O-Y	17	34	
	Y-G	LG	43	18	Y-G	43	35	
	G-Y	LH	18		G-Y	18	36	
Spare	Y-BR	*	44	19	Y-BR	44	37	
G or SG	BR-Y	4	19		BR-Y	19	38	
B or B1	Y-S	RT	45	20	Y-S	45	39	
R or R1	S-Y	RR	20		S-Y	20	40	
ET or T	V-BL	ET	46	21	V-BL	46	41	
ER or R	BL-V	ER	21		BL-V	21	42	
A	V-O	EH	47	22	V-O	47	43	
B	O-V	EB	22		O-V	22	44	
T1	V-G	*†	48	23	V-G	48	45	
R1	G-V	*†	23		G-V	23	46	
IT	V-BR	*†	49	24	V-BR	49	47	
IR	BR-V	*†	24		BR-V	24	48	
AG	V-S	*†	50	25	V-S	50	49	
LK	S-V	*†	25		S-V	25	50	

\*Leads individually insulated and stored.

†For speakerphone feature, terminate these leads as shown in Table C.

TABLE E

## 2568HU TELEPHONE SET RINGER OR BUZZER CONNECTIONS

OPTION		N1A RINGER LEADS				BUZZER	
		S-R	S	R	BK	STRAP (R) BETWEEN	CONNECT USING M1W CORD OR EQUIV.
Bridged ringer on any line		*	*	K of net.	T†	A of network and R†	
Common or private line ringer or buzzer§	With Capacitor	*	*	K of net.	RT	A of network and RR‡	
	Without Capacitor§	*	*	A of net.	RT	A of network and RR‡	RT RR
Ringer permanently silenced		*	*	K of net.	*	A of network and RR‡	

\* Individually insulated and stored.

† Terminals of line involved.

‡ RR terminal on terminal strip.

§ Connect ringer without capacitor as common, private, or intercommunicating line signal unless otherwise directed.

*Note:* Connect KS-8100 type buzzer in place of set ringer (Fig. 3).

TABLE F

## 2568HP (MD) TELEPHONE SET RINGER OR BUZZER CONNECTIONS

OPTION		H1A RINGER LEADS				BUZZER	
		S-R	S	R	BK	CONNECT USING M1W CORD OR EQUIV.	
Bridged ringer on any line		A of net.	K of net.	R†	T†		
Common or private line ringer or buzzer§	With Capacitor	A of net.	K of net.	RR‡	RT		
	Without Capacitor	A of net.	A of net.	RR‡	RT	RR‡ RT	
Ringer permanently silenced		A of net.	K of net.	*	*		

\* Individually insulated and stored.

† Terminals of line involved.

‡ RR terminal on terminal strip.

§ Connect ringer without capacitor as common, private, or intercommunicating line signal unless otherwise directed.

*Note:* Connect KS-8100 type buzzer in place of set ringer (Fig. 3).