

TELEPHONE SETS

568HN, 568HS, AND 568HSM

CONNECTIONS

1. GENERAL

1.01 This section contains information for the 568HN (MD), 568HS (MD), and 568HSM key telephone sets intended solely for use on specially engineered lines—*not for general telephone use.*

1.02 This section is reissued to add that T1 (V-G) and R1 (G-V) speakerphone leads should be insulated and stored if sets are not used as a speakerphone set.

1.03 The 568HSM (modular) set is similar to the 568HS except the modular G15Y handset with its associated H4DU handset cord and 616D jack assembly is used in place of the hard-wired G3Y handset and cord.

1.04 These sets are arranged for 2- and 4-wire service and used with 1A1, 1A2, 6A, or 6B 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).

1.05 These sets are also arranged for use with 4A speakerphone, refer to SD-69909-01 and SD-69923-01. For 3-type (MD) speakerphone, refer to SD-69487-01.

1.06 When a 568HN (MD), 568HS (MD), or 568HSM (manufactured prior to July 20, 1979) telephone set is not used as a speakerphone set and is multipled with any other set capable of furnishing speakerphone feature, the T1 (V-G) and R1 (G-V) speakerphone leads must be disconnected, insulated, and stored at the telephone set. If not disconnected, these speakerphone leads will provide a common path between the circuits of the multipled telephone sets.

1.07 The FW relay (Fig. 1) or MA4 relay (Fig. 2 and 3) switches the receiver from 2- to 4-wire circuitry.

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

(b) On 4-wire lines, contacts of the operated relay disconnect the receiver from the network and connect it to the RR and RT leads. The transmitter and network function in the normal 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.

1.08 Current sets are equipped with:

- KS-20419L1 (10 volt ac only) buzzer connected as shown
- T1A ringer connected as shown
- Satin silver (-87) mounting cord.

1.09 The hold key position can be illuminated, but 51A lamp must be ordered separately. If hold position lamp is required, use spare pair and terminate on LH and LG terminals.

2. CONNECTION INDEX



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

Table A—Pickup-Signal Key Conversion

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

Table B—Exclusion Conversion

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

Table D—568HN (MD) Telephone Set Ringer or Buzzer Connections

Table E—568HS (MD) and 568HSM Telephone Set Ringer or Buzzer Connections

Fig. 1—568HN (MD) Telephone Set, Connections

Fig. 2—568HS (MD) Telephone Set, Connections

Fig. 3—568HSM (Modular) Telephone Set, Connections

Fig. 4—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	4
HPPPSS	M	4	X
HPPSSS	X	4	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 811218924 (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.

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
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		
	S-W	*	5		S-W	5	10		
LG	R-BL	LG	31	6	R-BL	31	11	2	
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, S, or S1	R-G	3H	33	8	R-G	33	15		
	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, S, or S1	BK-BL	4H	36	11	BK-BL	36	21		
	BL-BK	*	11		BL-BK	11	22		
LG	BK-O	LG	37	12	BK-O	37	23	3	
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, S, or S1	BK-BR	5H	39	14	BK-BR	39	27		
	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		4
	BL-Y	2	16		BL-Y	16	32		
RT	Y-O	5	42	17	Y-O	42	33		
RR	O-Y	6	17		O-Y	17	34		
BZ1	Y-G	TB2-2	43	18	Y-G	43	35		
BZ	G-Y	TB2-1	18		G-Y	18	36		
	Y-BR	L2+	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		
	O-V	EB	22		O-V	22	44		
T1	V-G	RR+	48	23	V-G	48	45		
R1	G-V	9	23		G-V	23	46		
P3	V-BR	8	49	24	V-BR	49	47		
P4 or ON	BR-V	7	24		BR-V	24	48		
AG	V-S	N	50	25	V-S	50	49		
LK	S-V	L1+	25		S-V	25	50		

* Leads individually insulated and stored.

† Terminals on network.

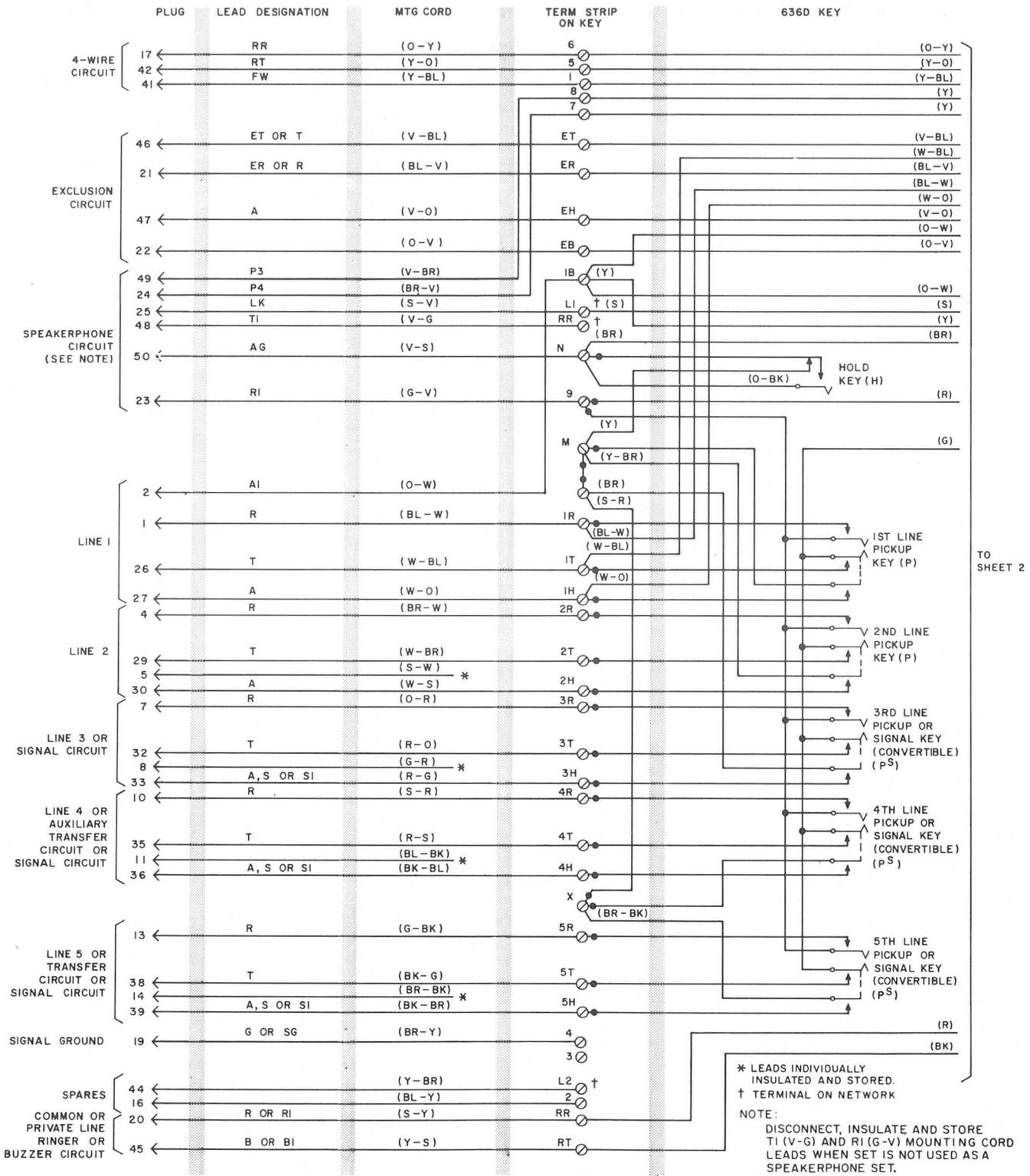


Fig. 1—568HN (MD) Telephone Set, Connections (Sheet 1 of 2)

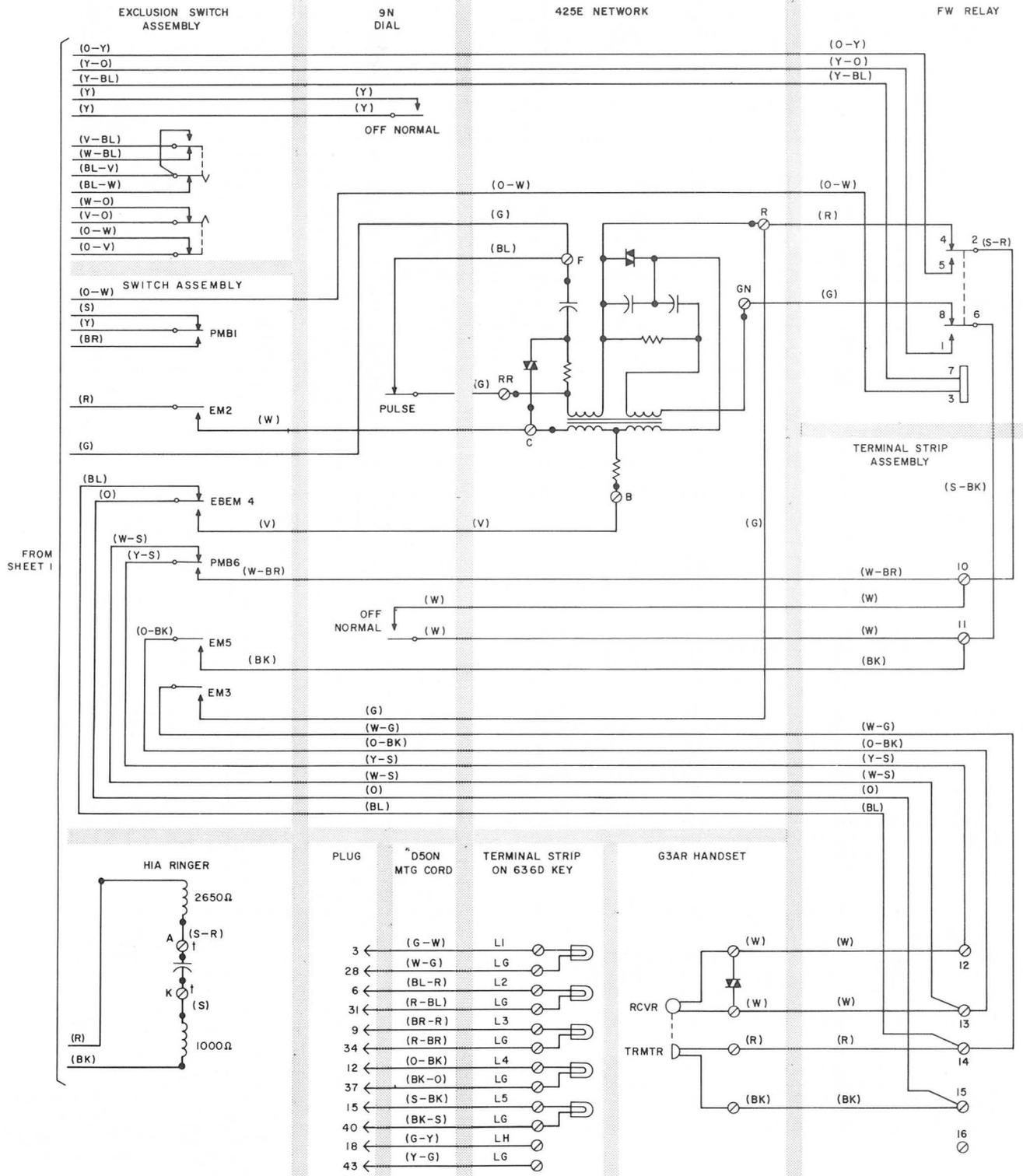


Fig. 1—568HN (MD) Telephone Set, Connections (Sheet 2 of 2)

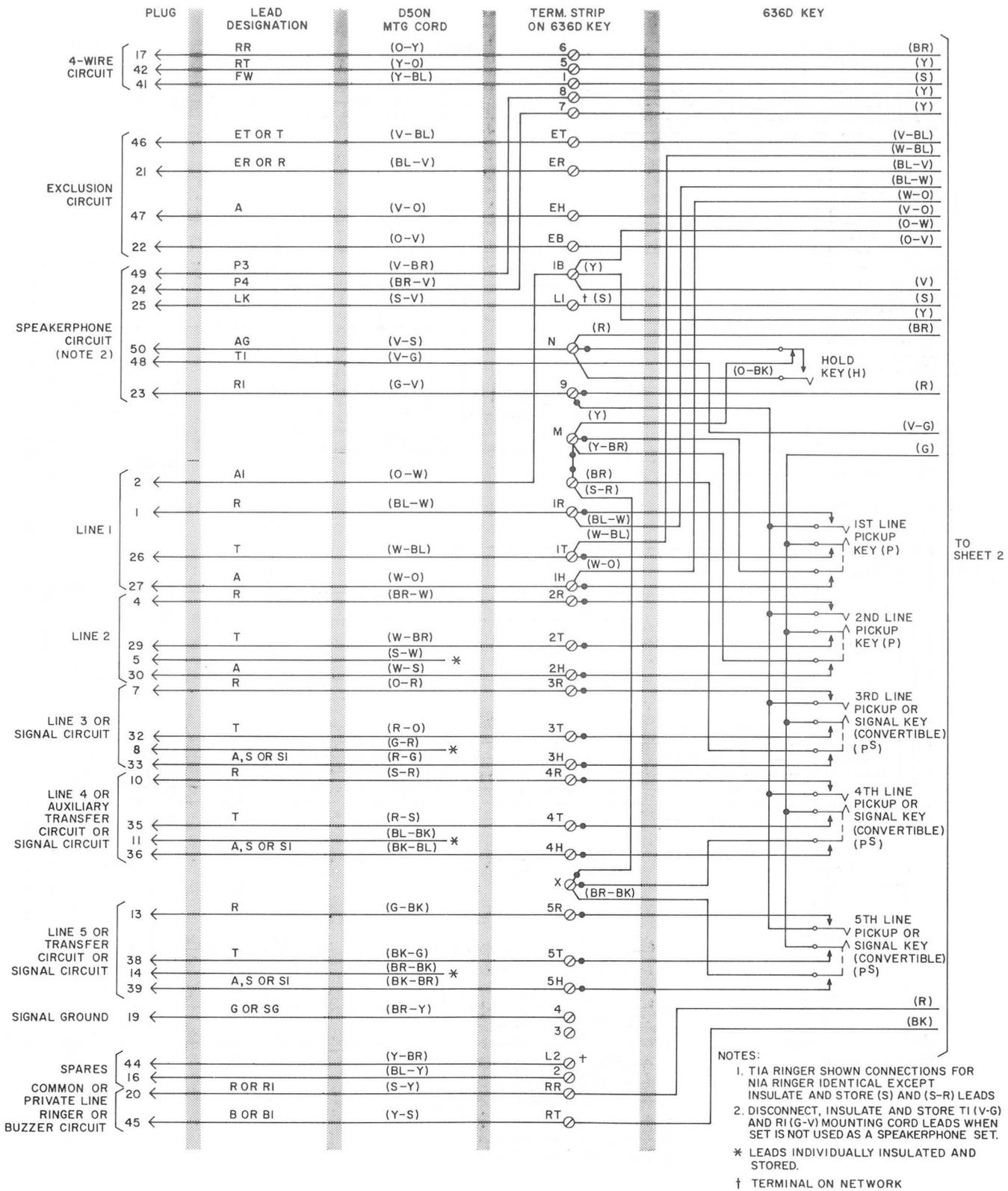


Fig. 2—568HS (MD) Telephone Set, Connections (Sheet 1 of 2)

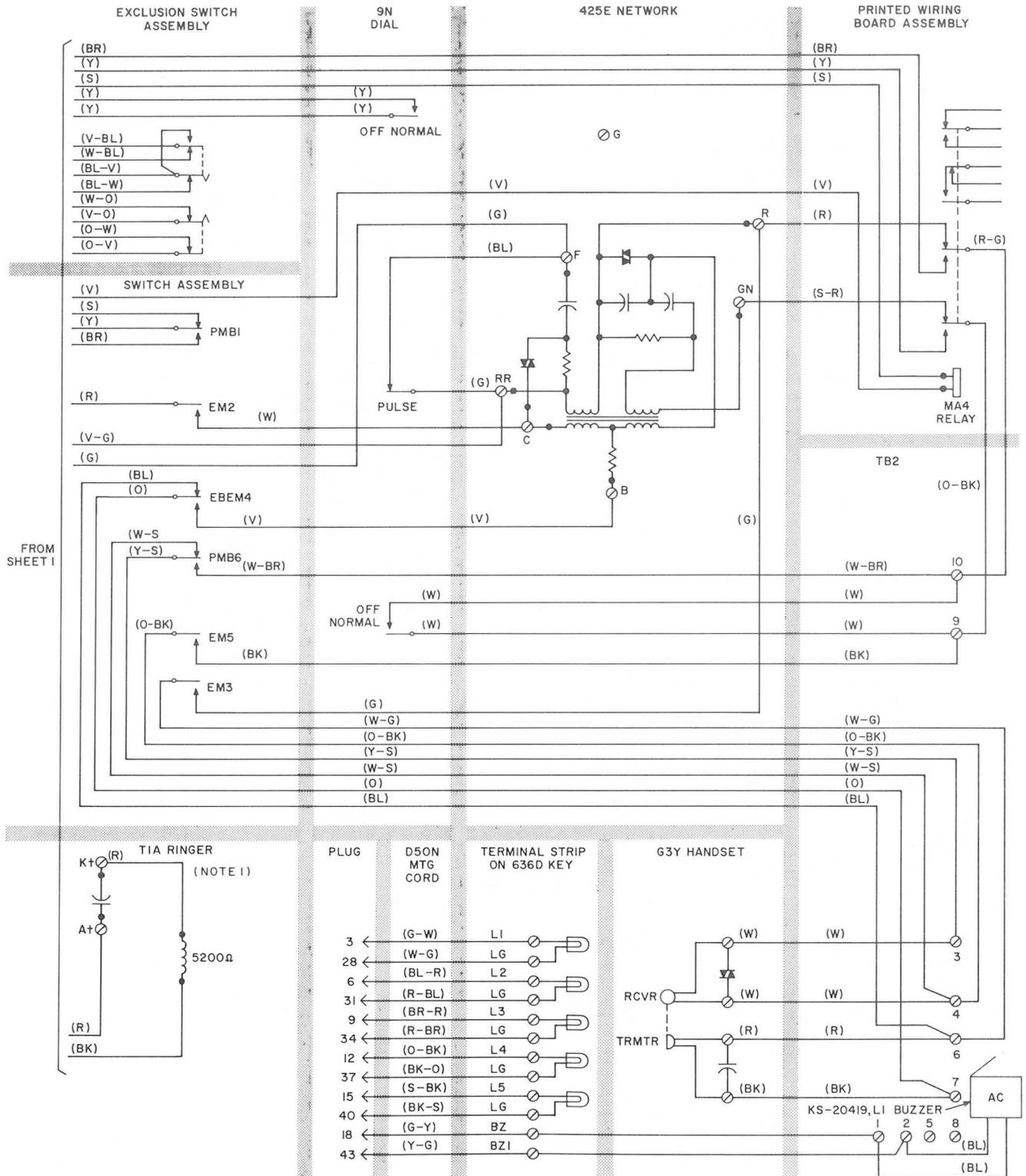


Fig. 2—568HS (MD) Telephone Set, Connections (Sheet 2 of 2)

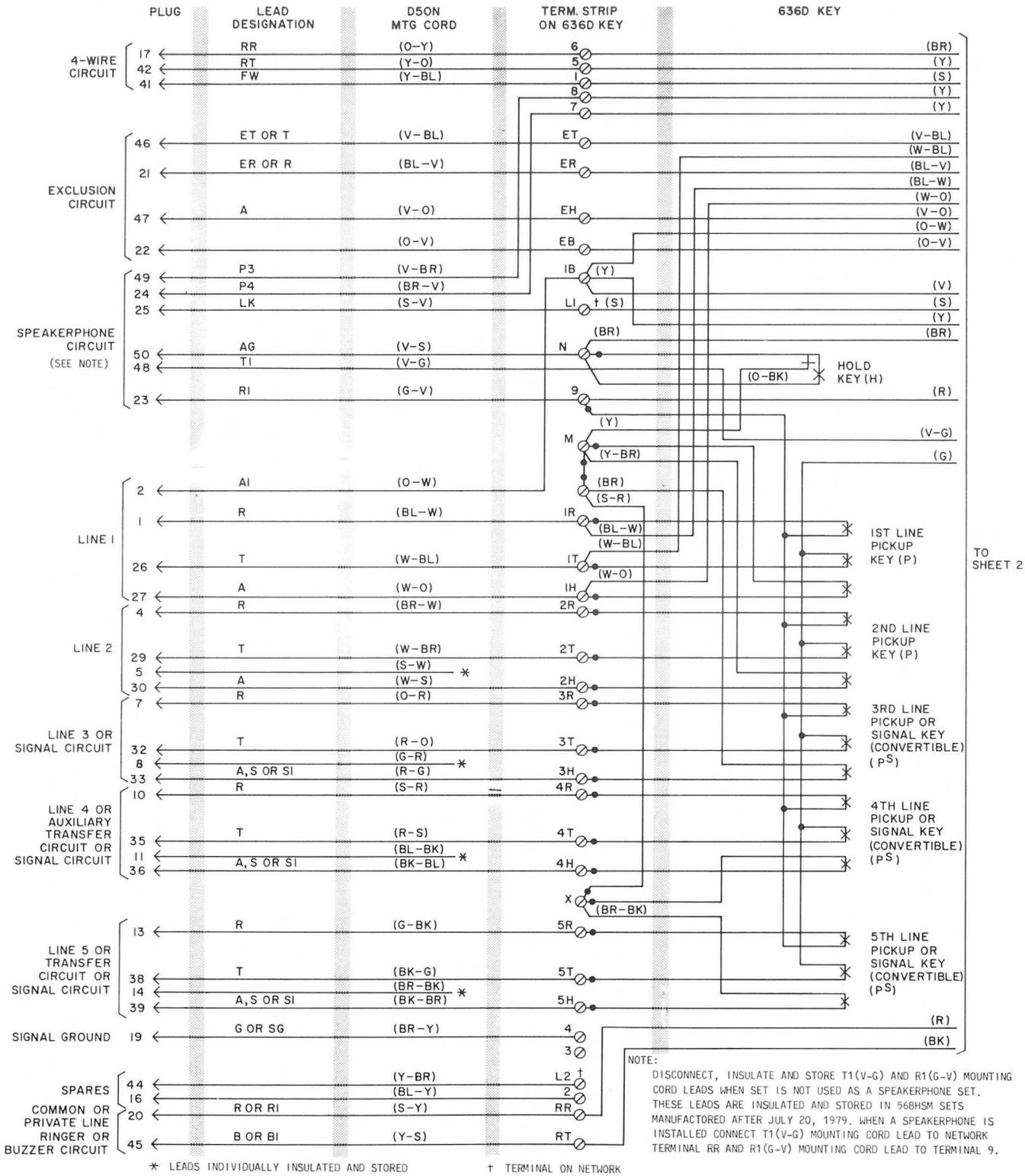


Fig. 3—568HSM Telephone Set, Connections (Sheet 1 of 2)

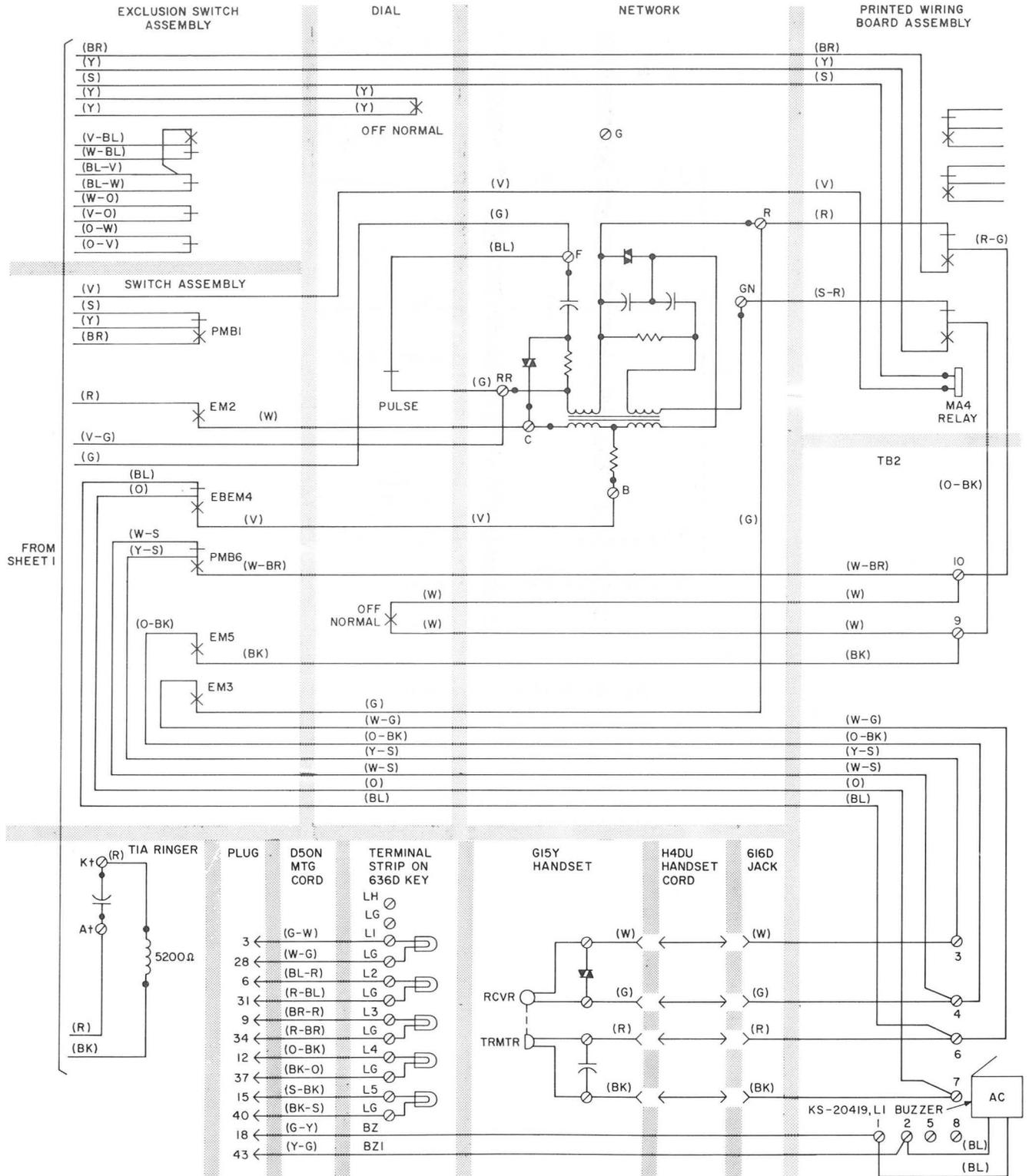


Fig. 3—568HSM Telephone Set, Connections (Sheet 2 of 2)

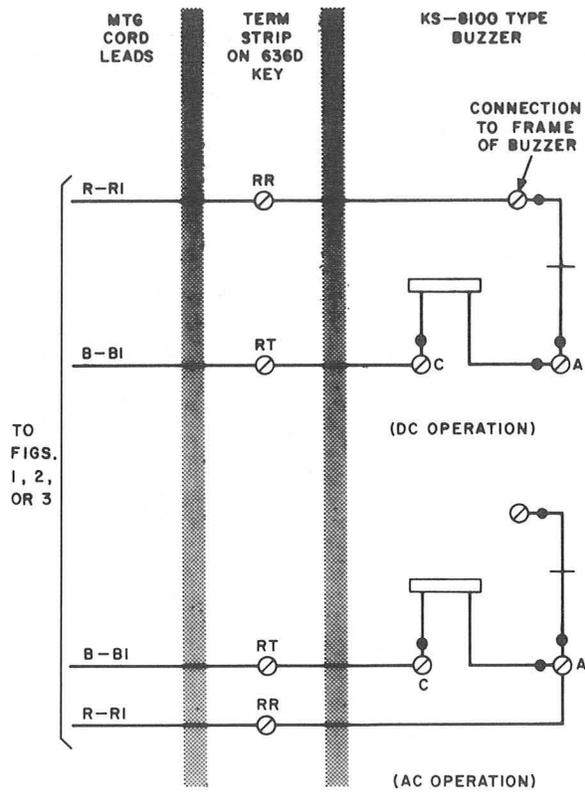


Fig. 4—Buzzer Connections

TABLE D
568HN (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. 4).

TABLE E
568HS(MD) AND 568HSM TELEPHONE SET RINGER OR BUZZER CONNECTIONS

OPTION		T1A OR 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. [(S) and (S-R) leads not on T1A ringer]

† 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. 4).

