

## REFERENCE

# 2502-, 2510-, 2511-, 2515-, 2555-, AND 2558-TYPE TELEPHONE SETS IDENTIFICATION, INSTALLATION, OPERATION, MAINTENANCE, AND CONNECTIONS

### 1. GENERAL

1.01 This section contains information on the 2502-, 2510-, 2511-, 2515-, 2555-, and 2558-type telephone sets (Fig. 1).

1.02 This section is reissued to:

- Revise Tables B, C, D, and O to update information
- Revise Fig. 12 and 14 to include new exclusion key.

1.03 Modular desk sets are designated by the letter M in the code. Modular wall sets have the letter M and P in their codes. The letter P indicates set is equipped with a 523-type plug.

### 2. IDENTIFICATION

#### A. Purpose

2.01 Desk- and wall-type telephone sets having 12-button TOUCH-TONE® dials, exclusion or hold keys and/or 2-line pickup keys.

#### B. Ordering Guide

##### 2.02 *Basic Telephone Sets:*

- Set, Telephone, 2502BM-\* Single line with exclusion and A-lead control
- Set, Telephone, 2510FM-\* Two-line/signaling
- Set, Telephone, 2511HM-\* Two-line/signaling with exclusion and A-lead control
- Set, Telephone, 2515BM-\* Two-line/signaling with hold

- Set, Telephone, 2555BMP-\* Two-line/signaling with hold

- Set, Telephone, 2558DM-\* Two-line/signaling with exclusion.

2.03 *Replaceable components are listed in Tables B, C, and D.*

2.04 *Replaceable Optional Components (ordered separately):*

- 819040528 (P-90D052) Guard Assembly (dial polarity guard/surge protector) 2502BM, 2510FM, 2511HM, and 2515BM, Table E
- 819040536 (P-90D053) Guard Assembly (dial polarity guard/surge protector) 2555BMP and 2558DM, Table F.

**Note:** Use a D-180547 guard assembly if telephone set is equipped with baseplate with integral plug track and mounting slots for 630A4 connecting block.

#### C. Application

2.05 The 2511- and 2558-type telephone sets may be used with 1A1 and 1A2 key telephone systems. These sets are also arranged for use with 3-type (MD) or 4A speakerphone. Refer to Division 512 for speakerphone connections. The 2510-, 2515-, and 2555-type sets are intended for use with residential lines only.

**Note:** Do not use 2515- or 2555-type telephone sets with PBXs which are equipped with dial transfer, recall, flashing recall, etc., because the transfer from one line to another activates these recall features.

\*Add appropriate color suffix from Table A.

### NOTICE

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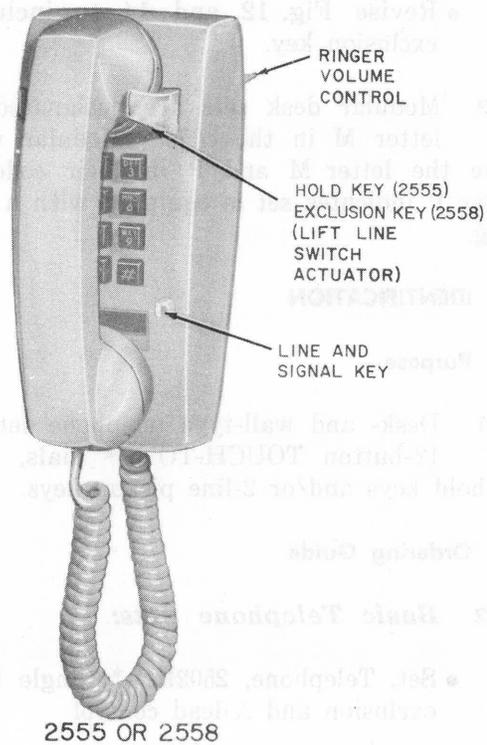
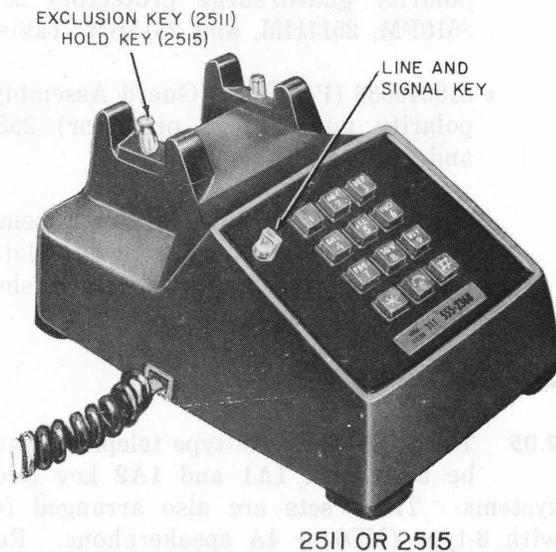


Fig. 1—2502-, 2510-, 2511-, 2515-, 2555-, and 2558- Type Telephone Sets

**3. INSTALLATION**

**3.01** Desk-type sets are installed in accordance with standard procedures.

**3.02** To install wall-type sets and for complete installation information for all sets, refer to

Division 502 section entitled 0- and 1-Button Sets, Common Installation and Maintenance Information.

**Polarity Guard (Optional, Ordered Separately)**

**Note:** Polarity guards should be installed only when instructed by local administrative

**TABLE A**  
**COLOR ORDERING GUIDE**

TEL SET, MTG CORD, HOUSING, HANDSET COLOR*		COORDINATED FACEPLATE COLOR	
Black	-03	Charcoal	-70
Ivory	-50	Muted Ivory	-80
Green	-51	Lt. Green	-71
Red	-53	Muted Red	-69
Yellow	-56	Lt. Yellow	-72
White	-58	Lt. Gray	-73
Lt. Beige	-60	Muted Beige	-75
Aqua Blue	-62	Muted Blue	-76

\* In addition to the colors listed, certain mounting cords are available in (-29) Transparent and (-87) Satin Silver only.

practices or procedures for end-to-end signaling purposes where battery-ground reversals are encountered.

**3.03** To install polarity guard assembly in desk-type sets:

- (1) Remove set housing and loosen right-hand dial mounting screw.
- (2) Mount guard assembly to the dial upright with the component side of the board oriented to the rear of the set. The bracket is placed under the dial mounting screw with its lip over the top of the dial upright.
- (3) Tighten dial mounting screw.
- (4) Polarity guard connections are shown in Tables E and F.
- (5) Replace set housing.

**3.04** To install a D-180191 polarity guard assembly in wall-type sets which do not have integral

plug track and mounting slots for 630A4 connecting block:

- (1) Remove set housing. If set is mounted on wall surface, remove set to gain access to rear of baseplate.
- (2) Remove dial but do not disconnect dial leads.
- (3) From the rear of the baseplate, place two screws through the holes located below the ringer resonator. Place the guard assembly terminal board over the screws with its components facing the front of the set. Secure using two hex nuts furnished with the guard assembly.
- (4) Connect polarity guard in accordance with the appropriate connection Table.
- (5) Replace dial.
- (6) Replace set (if removed from wall) and replace housing.

**4. OPERATION**

**4.01 Exclusion or Hold Key:** Pull up left-hand line switch plunger of desk-type sets or lift up line switch actuator (between arms of handset hanger) of wall sets to cutoff extension stations, or place unused line on hold, depending on set code.

**4.02 Line Pickup Key:** Turnbutton portion of key. Turn to connect talking circuit to either of two lines as desired.

**4.03 Signaling Key:** Pushbutton portion of line pickup key. Depress to activate external signaling device, if provided.

**4.04 Customer Instructions (2515- or 2555-Type):** If a call is received on one line and it is desired to hold the party while transferring to the other line:

- (1) Lift the hold key plunger and operate the line key to pick up second line (Fig. 1).
- (2) When call on second line is completed, do not hang up handset. Operate line key back to first line position and depress hold key plunger.

♦TABLE B♦

REPLACEABLE COMPONENT ORDERING GUIDE FOR MOUNTING CORDS, DIALS, KEYS  
RINGERS, HANDSETS, AND JACKS

TEL SET	DIAL	MTG CORD AND JACK	HANDSET CORD† AND JACK	HANDSET	RINGER	LINE KEY	EXCL (HOLD) KEY
2502B*	35A3A, 35Y3A, or 35Y3D	D6AA-†	Nonmodular	G3-Type	C4A or C4B	—	Yes
2502BM	35Y3D	D6AM-29 and 623D6	H4DU and 616D	G15A	H1B		
2510F*	35A3A, 35Y3A, or 35Y3D	D6AA-†	Nonmodular	G3-Type	C4A or C4B	Yes	—
2510FM	35Y3D	D6AL-87 and 623D6	H4DU and 616D	G15A	C4B		
2511F*	35C3A or 35AF3A	D20J-87	Nonmodular	G3-Type	H1A or H1B	Yes	Yes
2511H*		D20H-87					
2511HM		D16J-87	H4DU and 616D	G15A	H1B		
2515B*	35A3A, 35Y3A, or 35Y3D	D6AA-†	Nonmodular	G3-Type	C4A	Yes	Yes
2515BM	35Y3D	D6AL-87	H4DU and 616D	G15A			
2555B*	35A3A, 35Y3A, or 35Y3D	—	Nonmodular	G3-Type	P1A	Yes	Yes
2555BM*	25W3 or 35Y3D		H4DU and 616B	G15A			
2555BMP	35Y3D		523A4 Plug				
2558D*	35A3A, 35Y3A, or 35Y3D	—	Nonmodular	G3-Type	P1A	Yes	Yes
2558DM	35Y3D	D16J-87	H4DU and 616B	G15A	P13		

\* MD.

† Refer to Table A for color selection.

**TABLE C**  
**REPLACEABLE COMPONENT ORDERING GUIDE HOUSINGS, FACEPLATE ASSEMBLIES, AND EXCLUSION KEY**  
**(NONMODULAR SETS)**

HOUSINGS			PLATE, FACE, ASSEMBLY §		
TYPE TEL SET*	P-NUMBER†	COMCODE‡	TYPE TEL SET*	P-NUMBER†	COMCODE‡
2502B, 2511F, 2511H, 2515B	P-86C603	818636037	2502B	P-86D570	818645707
	P-86C650	818636508		P-86D580	818645806
	P-86C651	818636516		P-86D571	818645715
	P-86C653	818636532		P-86D569	818645699
	P-86C656	818636565		P-86D572	818645723
	P-86C658	818636581		P-86D573	818645731
	P-86C660	818636607		P-86D575	818645756
	P-86C662	818636623		P-86D576	818645764
2510F	P-83A303	818313033	2510F, 2511F, 2511H, 2515B	P-86D670	818646705
	P-83A350	818313504		P-86D680	818646804
	P-83A351	818313512		P-86D671	818646713
	P-83A353	818313538		P-86D669	818646697
	P-83A356	818313561		P-86D672	818646721
	P-83A358	818313587		P-86D673	818646739
	P-83A360	818313603		P-86D675	818646754
	P-83A362	818313629		P-86D676	818646762
2555B, 2558D	P-80H903	818089039	<b>KEY, EXCLUSION</b>		
	P-80H950	818089500	2502B 2511F } 2511H } 2515B } 2555B } 2558D }	P-19A410	811914100
	P-80H951	818089518		P-20F139	812061398
	P-80H953	818089534		P-21F195	812161958
	P-80H956	818089567		P-27E053	812750537
	P-80H958	818089583			
	P-80H960	818089603			
P-80H962	818089625				

\* MD.

† Last 2 digits of P-Number designates color code as shown by Table A.

‡ For these comcode numbers the seventh and eighth digits designate color code as shown by Table A.

§ Includes card retainer, 812558039 (P-25E803).

**Note:** Failure to depress hold key plunger when a held line is reconnected will automatically place a hold on the unused line preventing its use for either incoming or outgoing calls. Reversal of this procedure (i.e. depressing the hold key before operating line key back to held line) will disconnect held line. If the handset is hung up before the line key is operated to the first line, the hold plunger will be automatically released, disconnecting the call on the first line.

- (3) If the second line is to be held for pickup by an extension station, the hold key is left operated (lifted) until the extension is answered.

After the extension handset is lifted, the hold key (first set) must be depressed to connect the talking path of the extension.

## 5. MAINTENANCE

**5.01** Maintenance of handsets, dials, and ringers is outlined in sections covering these components.

- (a) When replacement of split coil ringers, i.e., C4A, H1A, or P1A is necessary, the single coil version C4B, H1B, or P1B can be used in certain sets if tip party identification is not required.

◆ TABLE D ◆

**REPLACEABLE COMPONENT ORDERING GUIDE FOR HOUSINGS, FACEPLATE  
ASSEMBLIES, LINE KEY, AND EXCLUSION KEY (MODULAR) SETS**

HOUSINGS			PLATES, FACE		
TEL SET	COLOR	COM CODE	TEL SET	COORDINATED COLOR	COM CODE
2502BM	Black (-03)	840698005	2502BM	Charcoal (-70)	818645707
	Ivory (-50)	840698013		Muted Ivory (-80)	818645806
	Green (-51)	840698021		Lt. Green (-71)	818645715
	Red (-53)	840698039		Muted Red (-69)	818645699
	Yellow (-56)	840698047		Lt. Yellow (-72)	818645723
	White (-58)	840698054		Lt. Gray (-73)	818645731
	Lt. Beige (-60)	840698062		Muted Beige (-75)	818645756
Aqua Blue (-62)	840698070	Muted Blue (-76)	818645764		
2510FM	Black (-03)	840181036	2510FM	Charcoal (-70)	818646705
	Ivory (-50)	840181507		Muted Ivory (-80)	818646804
	Green (-51)	840181515		Lt. Green (-71)	818646713
	Red (-53)	840181531		Muted Red (-69)	818646697
	Yellow (-56)	840181564		Lt. Yellow (-72)	818646721
	White (-58)	840181580		Lt. Gray (-73)	818646739
	Lt. Beige (-60)	840181606		Muted Beige (-75)	818646754
Aqua Blue (-62)	840181622	Muted Blue (-76)	818646762		
2511HM	Black (-03)	841024573	2511HM	Charcoal (-70)	818646705
	Ivory (-50)	841024581		Muted Ivory (-80)	818646804
	Green (-51)	841024599		Lt. Green (-71)	818646713
	Red (-53)	841024607		Muted Red (-69)	818646697
	Yellow (-56)	841024615		Lt. Yellow (-72)	818646721
	White (-58)	841024623		Lt. Gray (-73)	818646739
	Lt. Beige (-60)	841024631		Muted Beige (-75)	818646754
Aqua Blue (-62)	841024649	Muted Blue (-76)	818646762		
2515BM	Black (-03)	840698005	2515BM	Charcoal (-70)	818646705
	Ivory (-50)	840698013		Muted Ivory (-80)	818646804
	Green (-51)	840698021		Lt. Green (-71)	818646713
	Red (-53)	840698039		Muted Red (-69)	818646697
	Yellow (-56)	840698047		Lt. Yellow (-72)	818646721
	White (-58)	840698054		Lt. Gray (-73)	818646739
	Lt. Beige (-60)	840698062		Muted Beige (-75)	818646754
Aqua Blue (-62)	840698070	Muted Blue (-76)	818646762		
2555BM (MD) and 2555BMP	Black (-03)	841355001	<b>LINE KEY AND/OR EXCLUSION KEY</b>		
	Ivory (-50)	841355019	<b>TEL SET</b>	<b>LINE KEY</b>	<b>EXCLUSION KEY</b>
	Green (-51)	841355027	2502BM	—	811914100
	Red (-53)	841355035	2510FM	631A	—
	Yellow (-56)	841355043			
	White (-58)	841355050			
Lt. Beige (-60)	841355068				
Aqua Blue (-62)	841355076				
2558DM	Black (-03)	841023203	2511HM	631B	812061380
	Ivory (-50)	841023211			
	Green (-51)	841023229	2515BM	631C	812161958
	Red (-53)	841023237			
	Yellow (-56)	841023245	2555BM (MD)	812162279	812750537
	White (-58)	841023252	2555BMP		842620692
Lt. Beige (-60)	841023260	2558DM	812750586	842620700	
Aqua Blue (-62)	841023278				

**TABLE E**  
**2502-, 2510-, 2511-, AND 2515-TYPE**  
**TELEPHONE SETS**  
**POLARITY GUARD CONNECTIONS**  
**819040528 (P-90D052) GUARD ASSEMBLY**

LEAD	COLOR	REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	(BK)	RR		T
Line Switch	(W)* [S-BR]	C		S
Polarity Guard	(G)		RR	
	(W)		C	

\* This lead is (BR) in 2510- and 2515-type telephone sets.

**Note:** For use when specified by local instructions for end-to-end signaling installations.

( ) Current color code

[ ] MD color code

**TABLE F**  
**2555- AND 2558-TYPE TELEPHONE SETS**  
**POLARITY GUARD CONNECTIONS**  
**819040536 (P-90D053) GUARD ASSEMBLY**

LEAD	COLOR	REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Line Switch	W	C		S
Dial	BK	RR		T
Polarity Guard	W		C	
	G		RR	

**Note:** For use when specified by local instructions for end-to-end signaling installations.

(b) The G3-type or G15A handset in these sets may be replaced by a G6-type for persons with impaired hearing, a G7-type for weak speech, or a G8-type in noisy locations. Refer to appropriate section in Division 501 for additional information.

**5.02** For complete maintenance information for all components of these sets, refer to Division 502 section entitled 0- and 1-Button Sets, Common Installation and Maintenance Information.

**6. CONNECTIONS**

**6.01** These telephone sets are factory-wired as shown in Fig. 2 through 14.

**6.02** Tables G through O lists wiring changes to be made when these telephone sets are to be connected for optional features.

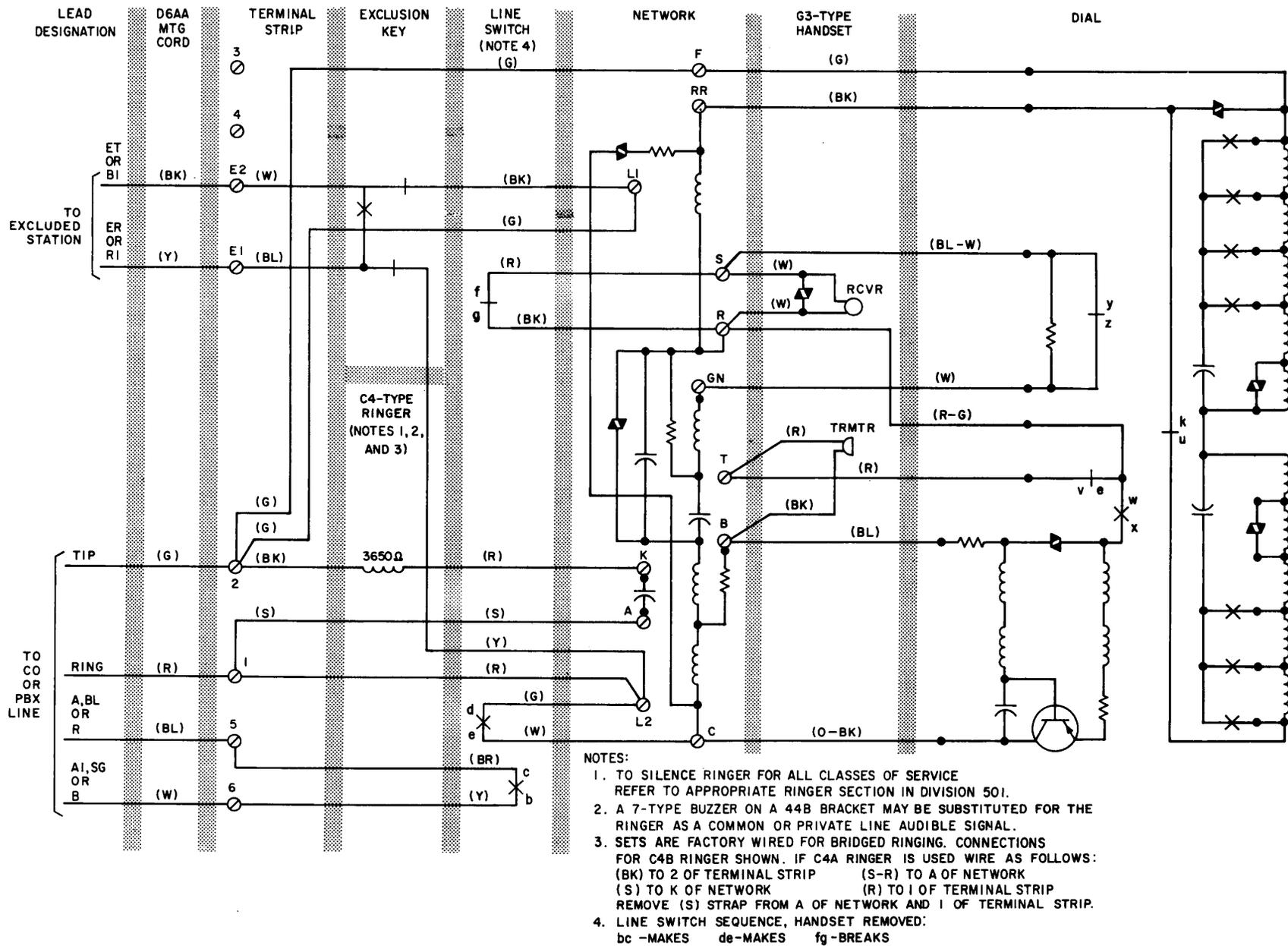


Fig. 2—2502B (MD) Telephone Set, Connections

**TABLE G  
2510F OR 2510FM LINE AND RINGER CONNECTIONS**

FEATURES							CONNECTIONS TO TERMINALS INSIDE SET													EXTERNAL CONNECTIONS FOR MOUNTING CORD											
NUMBER OF LINES PICKED UP	SIGNALING	RNGR IN SET USED AS		TURNKEY USED IN CUT OFF			MOUNTING CORD OR JACK LEADS						LINE TURN-KEY LEADS		C4A RNGR LEADS			C4B RNGR LEADS		LINE 1		LINE 2		SIGNAL CIRCUIT		CUTOFF CIRCUIT		COM OR PVT LINE RNGR CIRCUIT			
		LINE RNGR	COM OR PVT LINE RNGR	EXT STA OR EXT LINE RNGR	RINGER IN SET	AUX RCVR	R	G	Y	BK	BL	W	S-R	G-BK	R	BK	S	S-R	S*	BK	R	RING	TIP	RING	TIP	S	GRD	RING	TIP	R	B
		1	•	•		•			L2	L1	3	4	5	6	L2	L1	L2	L1	K	A	L2	L1	K	R	G			BL	W	Y	BK
1	•	•		•	•		L2	L1	3	4	5	6	L2	L1	1	2	K	A	1	2	K	R	G			BL	W	Y	BK		
1	•	•				•	L2	L1	3	4	5	6	G	R	L2	L1	K	A	L2	L1	K	R	G			BL	W	Y	BK		
2	•	•					1	2	3	4	5	6	L2	L1	1	2	K	A	1	2	K	R	G	Y	BK	BL	W				
2			•				1	2	3	4	E1	E2	L2	L1	E1	E2	A	A	E1	E2	A	R	G	Y	BK					BL	W

\*(S) Strap from A of network

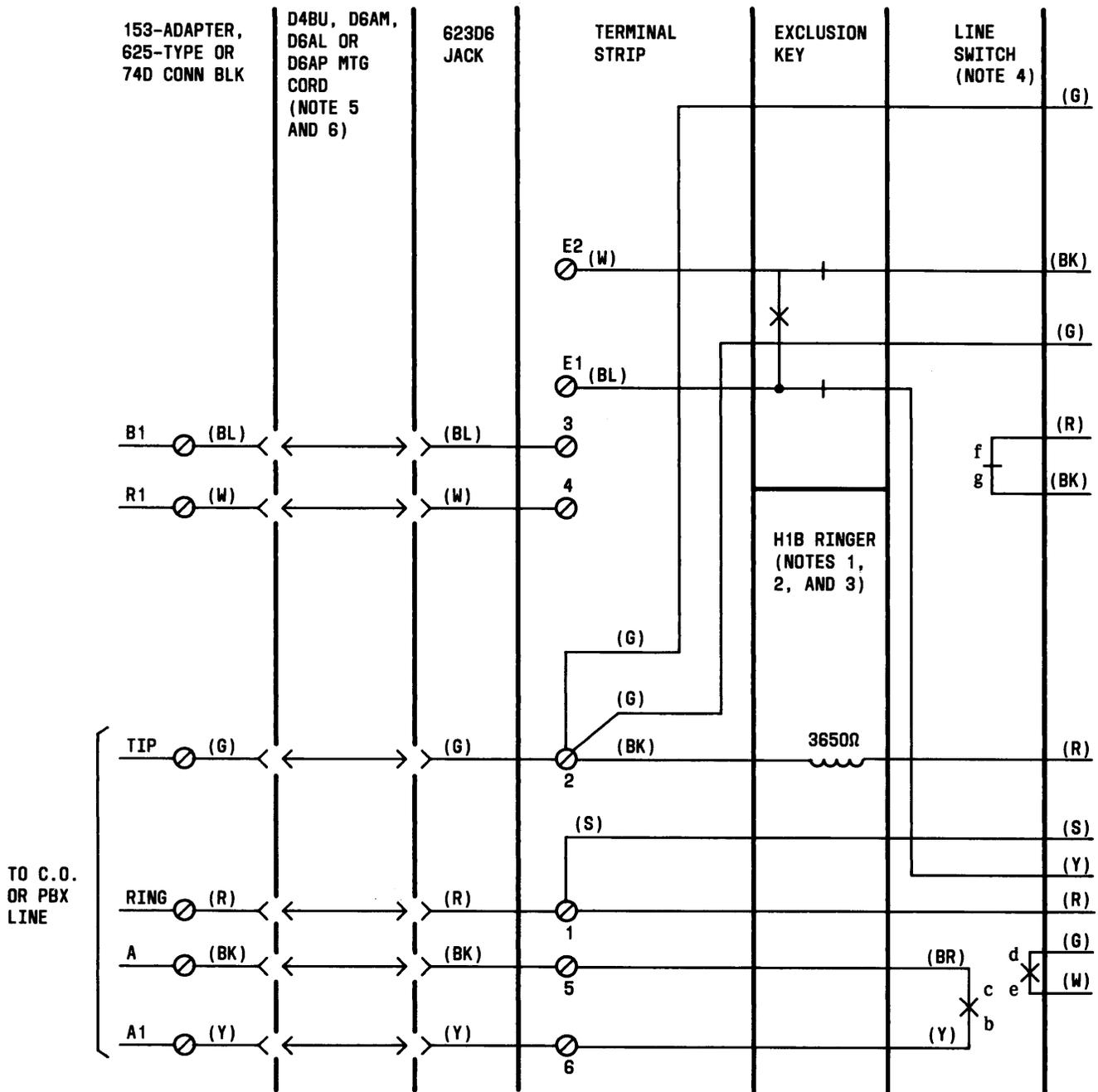
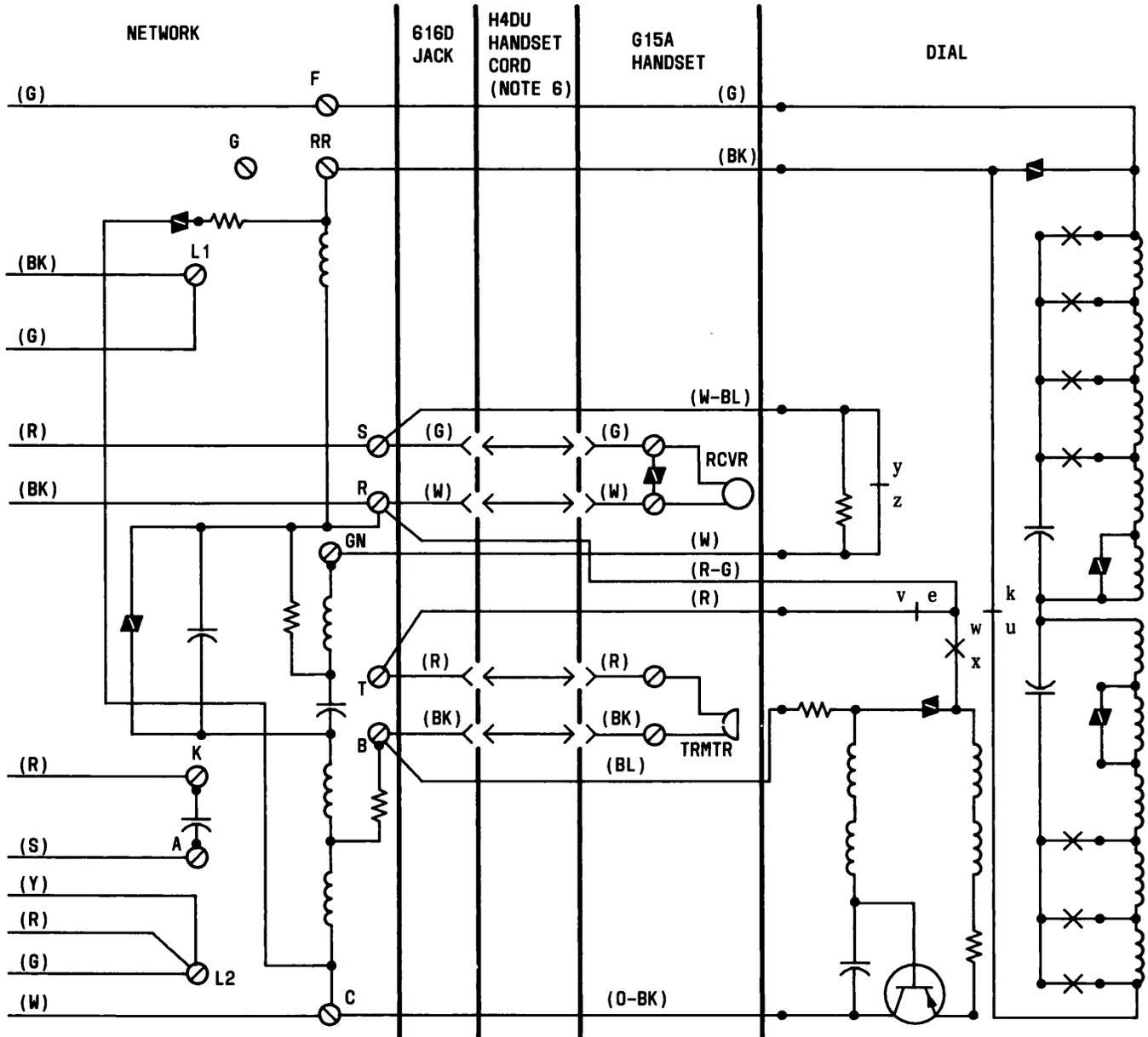


Fig. 3—2502BM Telephone Set, Connections (Factory-Wired) (Sheet 1 of 2)



NOTES:

1. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
2. A 7-TYPE BUZZER ON A 44B BRACKET MAY BE SUBSTITUTED FOR THE RINGER AS A COMMON OR PRIVATE LINE AUDIBLE SIGNAL.
3. SETS ARE FACTORY WIRED FOR BRIDGED RINGING.
4. TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON HOOK THE TIP AND RING LINE SWITCH CONTACTS MUST BREAK BEFORE THE A LEAD CONTACTS BREAK.
5. IF 8 MTG. CORD CONDUCTORS ARE REQUIRED A D-180810 KIT OF PARTS (641D JACK AND MTG. BRACKET) MUST BE INSTALLED. THIS WILL ALLOW USE OF A DBAA MTG. CORD WITH 635-TYPE CONN BLK. THE 641D JACK CONNECTIONS ARE SHOWN IN TABLE.
6. MUST BE ORDERED SEPARATELY.

COLOR	SET TERM.
BL-W	1
W-BL	2
O-W	6
W-O	5
G-W	3
W-G	4
BR-W	E1
W-BR	E2

Fig. 3—2502BM Telephone Set, Connections (Factory-Wired) (Sheet 2 of 2)

TABLE H

2511F AND H OR HM

WIRING CHANGES TO PROVIDE 1-LINE PICKUP,  
CUTOFF EXTENSION STATION OR EXTENSION  
RINGER

LINE KEY			LINE SWITCH			EXCLUSION KEY			MIW SWITCH	
LEAD	FROM	TO	LEAD	FROM	TO	LEAD	FROM	TO	FROM	TO
V	2	*	BR	20	3	BK	1	*	1	F
R	2	*	G	15	2	Y	2	*	18†	L2†
W-O	20	3				S	3	*		
S-R	15	2				W	9	*		
						BR	10	*		

\*Insulate and store or connect to spare terminal.

†Omit on 2511HM E/W D16J-87 mounting cord. Provide A1 ground at extension station.

TABLE I

2511F AND H OR HM

WIRING CHANGES TO PROVIDE 2-LINE PICKUP,  
HOLD ON LINE 1, AND SIGNALING  
(USED WITHOUT 1A1 OR 1A2 KTS)

EXCLUSION KEY							
Lead	BR	W	BK	BL	Y	S	O
From	10	9	1	10	2	3	11
To	2	1	*	*	*	*	*

\*Insulate and store or connect to spare terminal.

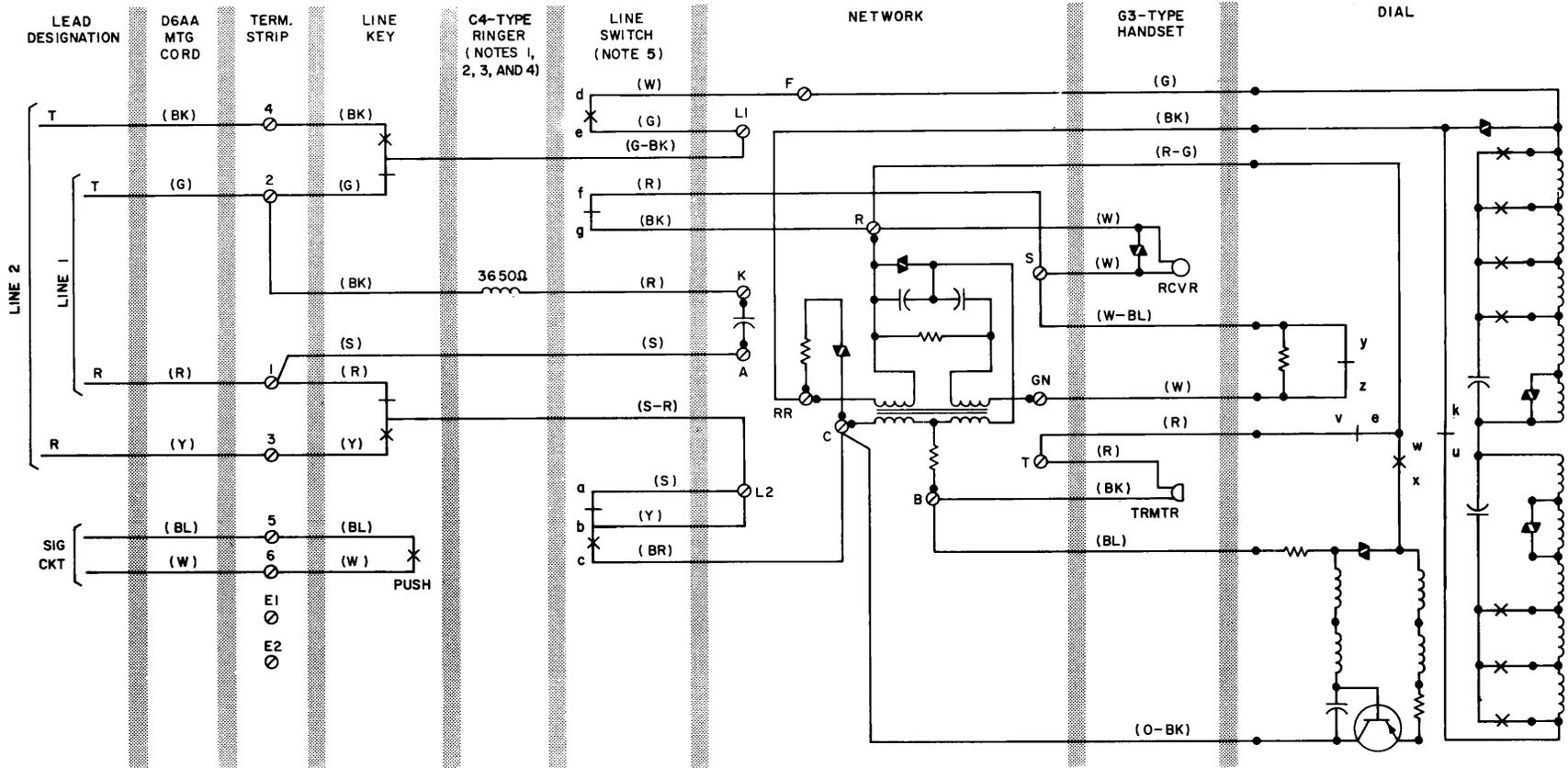
TABLE J

2511F AND H

WIRING CHANGES TO PROVIDE 1-LINE  
PICKUP, HOLD, AND SECRETARIAL SERVICE

EXCLUSION KEY			LINE KEY			MTG CORD		
LEAD	FROM	TO	LEAD	FROM	TO	LEAD	FROM	TO
BR	10	2	W-O	20	1	V-O	11	17
W	9	1				G-R	17	16
BK	1	*						
Y	2	*						

\*Insulate and store or connect to spare terminal.



**NOTES:**

1. CONNECTIONS SHOWN ARE FOR RINGING ON LINE 1. TO RING ON LINE 2, MOVE (S) STRAP LEAD FROM TERM. 1 TO TERM. 3 AND (BK) RINGER LEAD FROM TERM. 2 TO TERM. 4.
2. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
3. WHERE COMMON OR PRIVATE LINE RINGER IS REQUIRED, CONNECT (BL) AND (W) MTG CORD LEADS, (S) STRAP LEAD AND (BK) RINGER LEAD TO E1 AND E2.

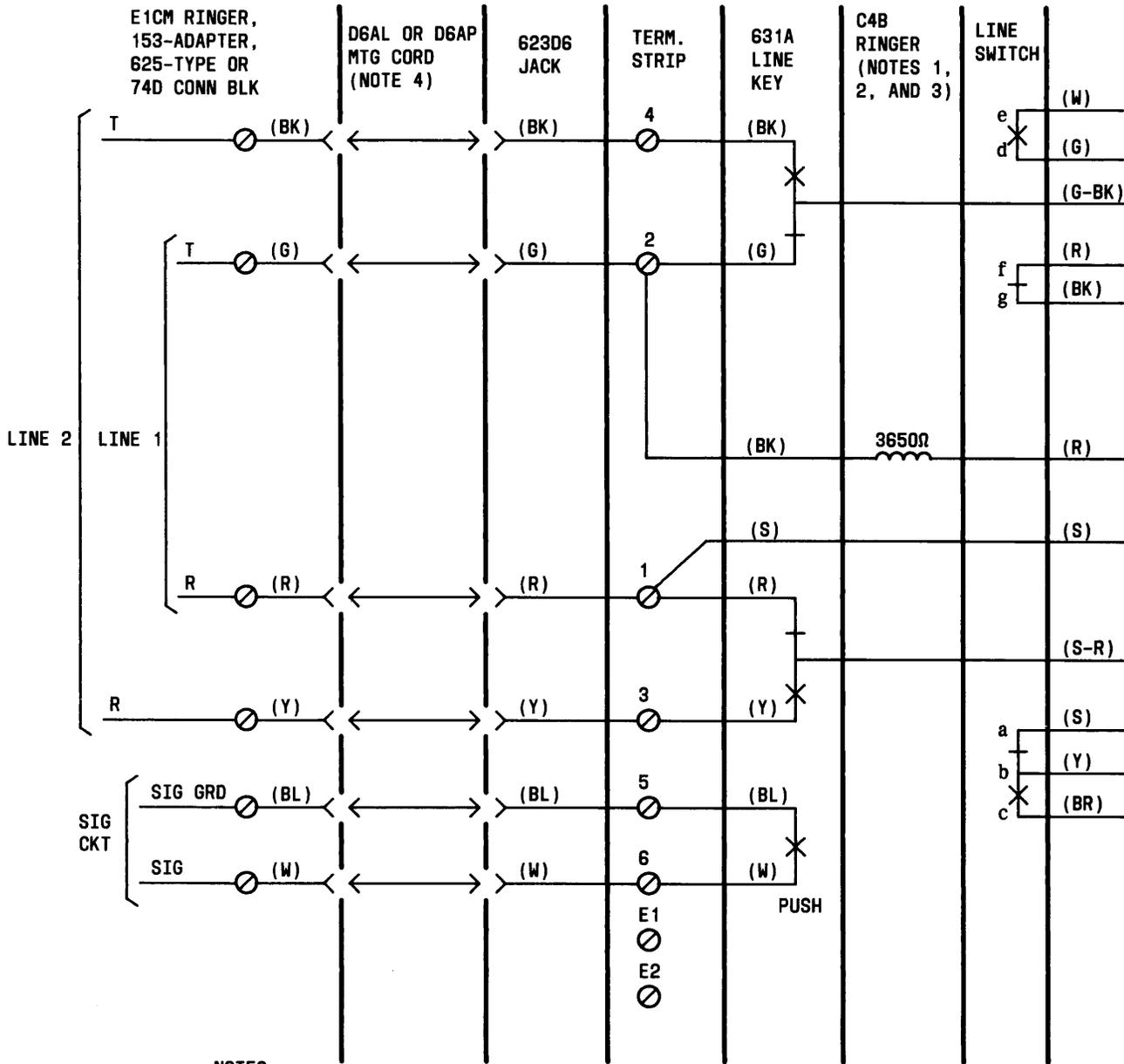
4. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. CONNECTIONS FOR C4B RINGER SHOWN. IF C4A RINGER IS USED WIRE AS FOLLOWS:

- (BK) TO 2 OF TERMINAL STRIP
- (S) TO K OF NETWORK
- (S-R) TO A OF NETWORK
- (R) TO 1 OF TERMINAL STRIP

5. LINE SWITCH SEQUENCE, HANDSET REMOVED:

- bc - MAKES    ab - BREAKS
- de - MAKES    fg - BREAKS

**Fig. 4—2510F (MD) Telephone Set, Connections**



NOTES:

1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING.
2. CONNECTIONS SHOWN ARE FOR RINGING ON LINE 1. TO RING ON LINE 2, MOVE (S) STRAP LEAD FROM TERM. 1 TO TERM. 3 AND (BK) RINGER LEAD FROM TERM. 2 TO TERM. 4.
3. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
4. MUST BE ORDERED SEPARATELY.

Fig. 5—2510FM Telephone Set, Connections (Factory-Wired) (Sheet 1 of 2)

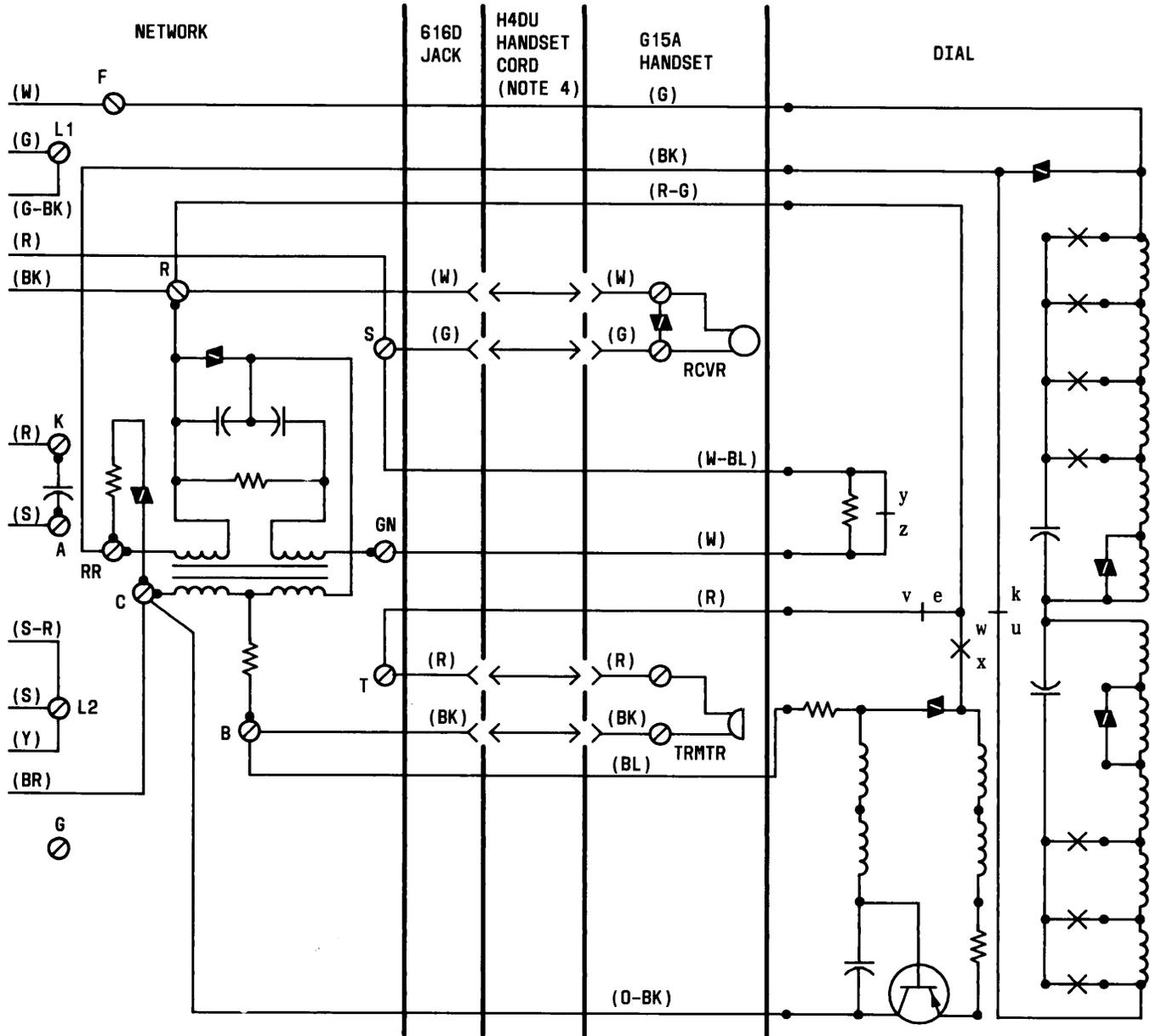


Fig. 5—2510FM Telephone Set, Connections (Factory-Wired) (Sheet 2 of 2)

SECTION 502-503-102

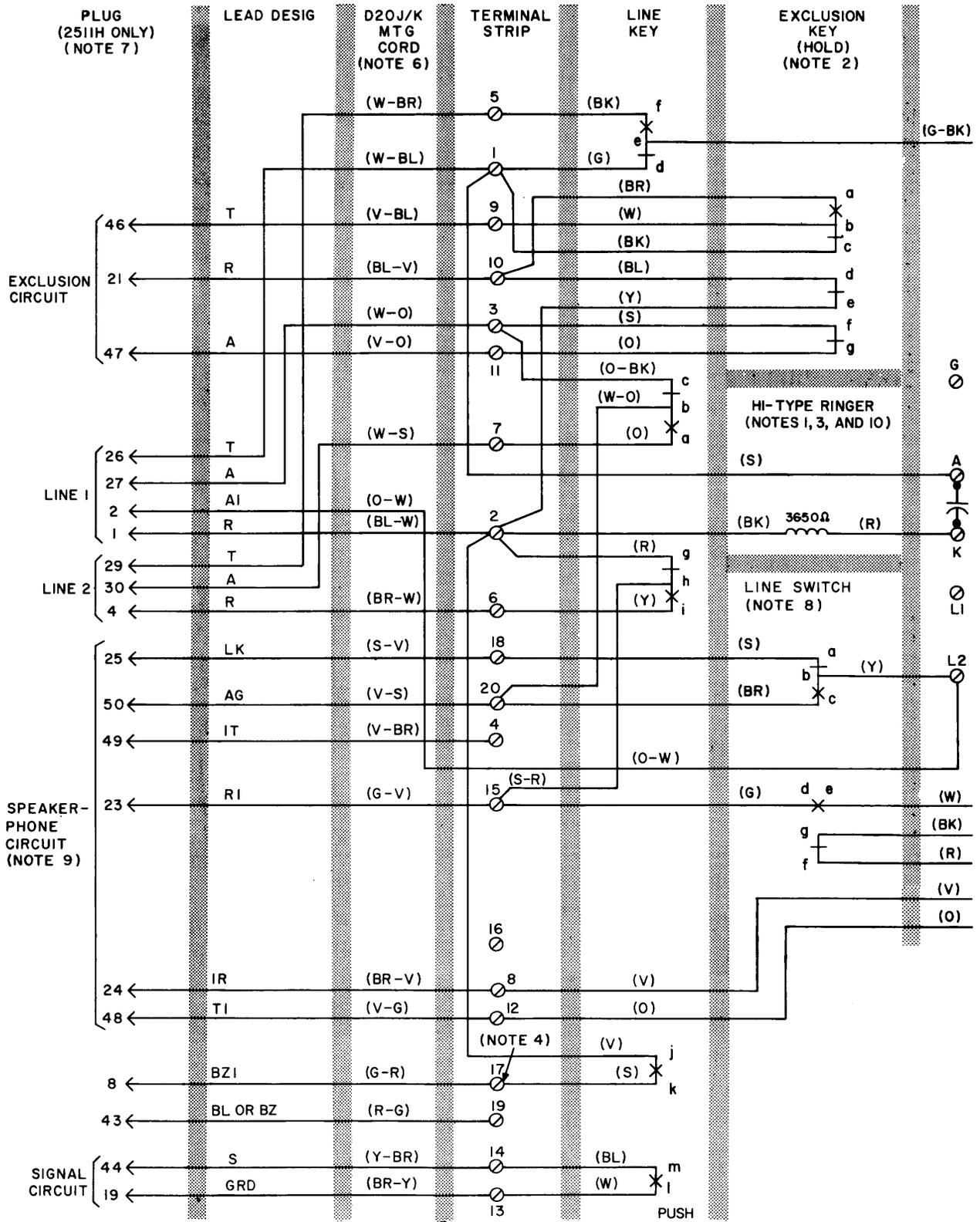
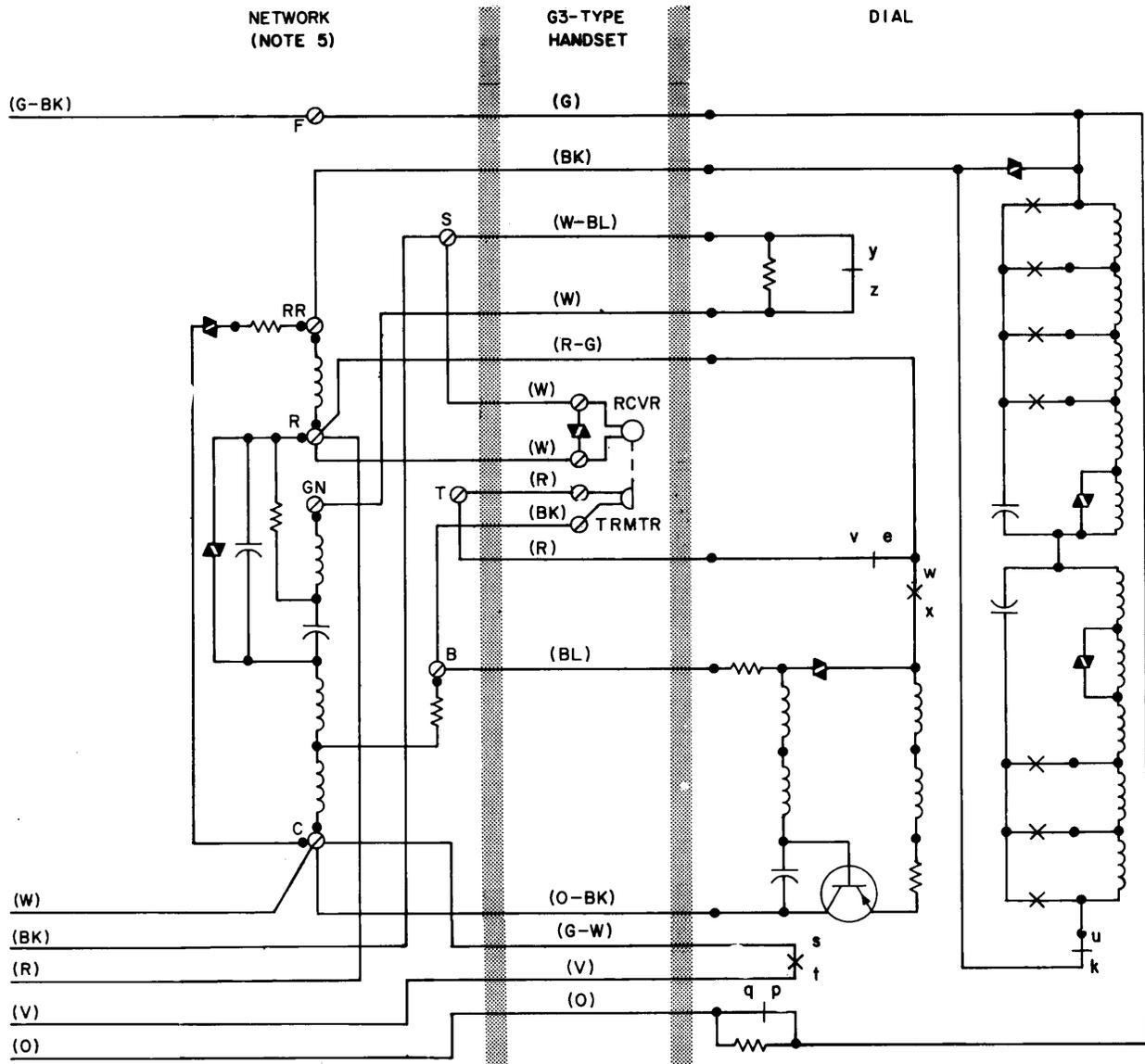


Fig. 6—2511F and H (MD) Telephone Set, Connections (Sheet 1 of 2)



## NOTES:

1. SETS ARE FACTORY WIRED FOR BRIDGE RINGING. CONNECTIONS SHOWN PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (S) STRAP LEAD AND (BK) RINGER LEAD TO TERMINALS 5 AND 6 RESPECTIVELY.
2. CONNECTIONS SHOWN PROVIDE FOR EXCLUSION ON LINE 1. FOR EXCLUSION ON LINE 2, CONNECT (BK), (Y), AND (S) EXCLUSION SWITCH LEADS TO TERMINALS 5, 6, AND 7 RESPECTIVELY.
3. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
4. WHEN BUZZER IS USED, CHANGE (G-R) MOUNTING CORD LEAD FROM TERMINAL 17 TO 16, CONNECT BUZZER BETWEEN TERMINALS 16 AND 19.
5. LEADS SHOWN CONNECTED AT TERMINALS S AND T ON 425K NETWORK ARE CONNECTED AT TERMINALS L1 AND G RESPECTIVELY, IN SETS EQUIPPED WITH 425G NETWORKS.
6. INSULATE AND STORE UNUSED MOUNTING CORD CONDUCTORS (D20J) ONLY.
7. 2511F TELEPHONE SET IS IDENTICAL EXCEPT EQUIPPED WITH D20J SPADE-TIPPED MOUNTING CORD.
8. LINE SWITCH SEQUENCE, HANDSET REMOVED:  
bc—MAKES                      ab—BREAKS  
de—MAKES                      fg—BREAKS
9. PROVIDE A1 GROUND AT SPEAKERPHONE CONTROL UNIT.
10. CONNECTIONS FOR H1B RINGER SHOWN. IF H1A RINGER IS USED WIRE AS FOLLOWS:  
(BK) TO 2 OF TERMINAL STRIP  
(S) TO K OF NETWORK  
(S-R) TO A OF NETWORK  
(R) TO I OF TERMINAL STRIP  
REMOVE (S) STRAP FROM A OF NETWORK AND I OF TERMINAL STRIP.

Fig. 6—2511F and H (MD) Telephone Set, Connections (Sheet 2 of 2)

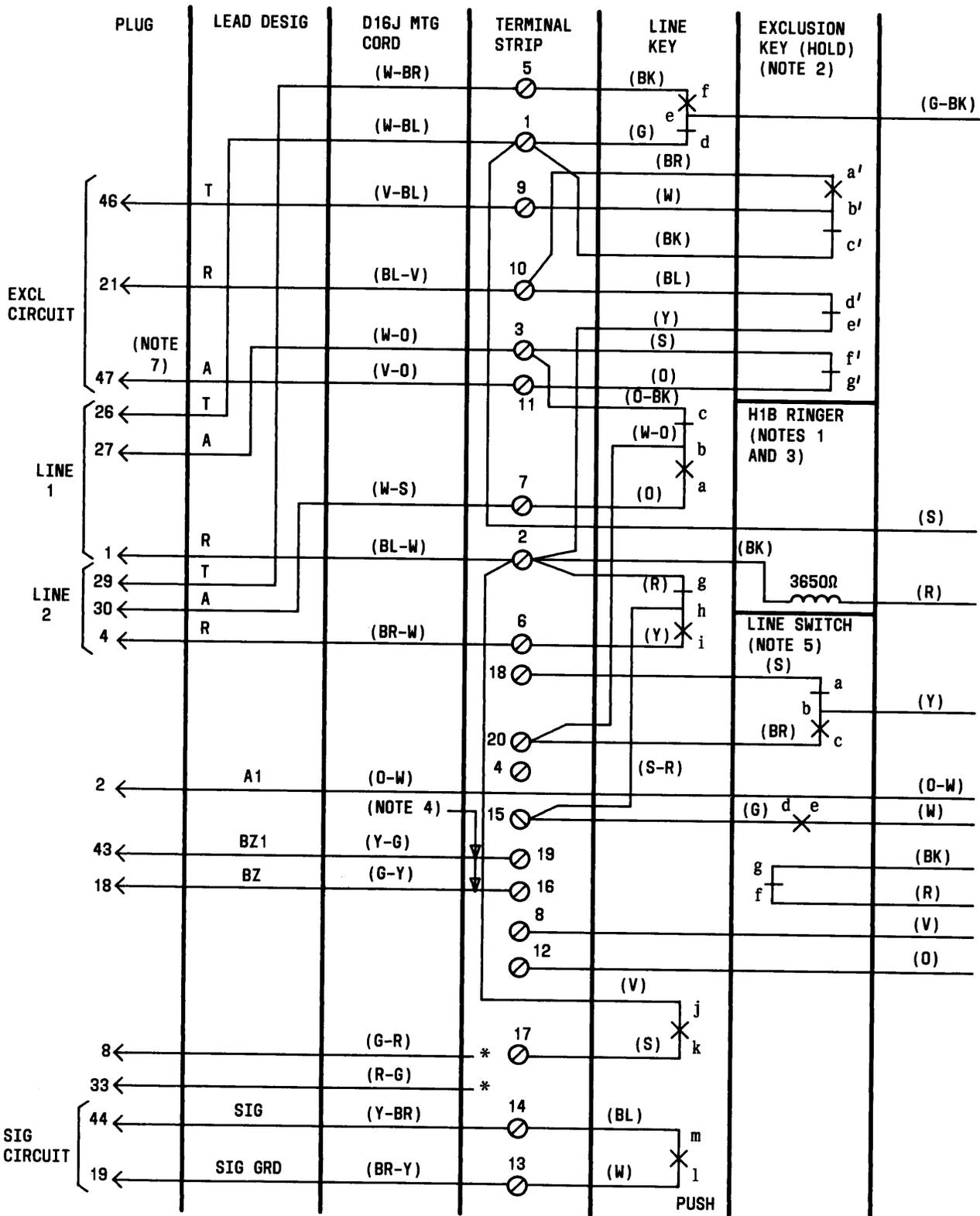
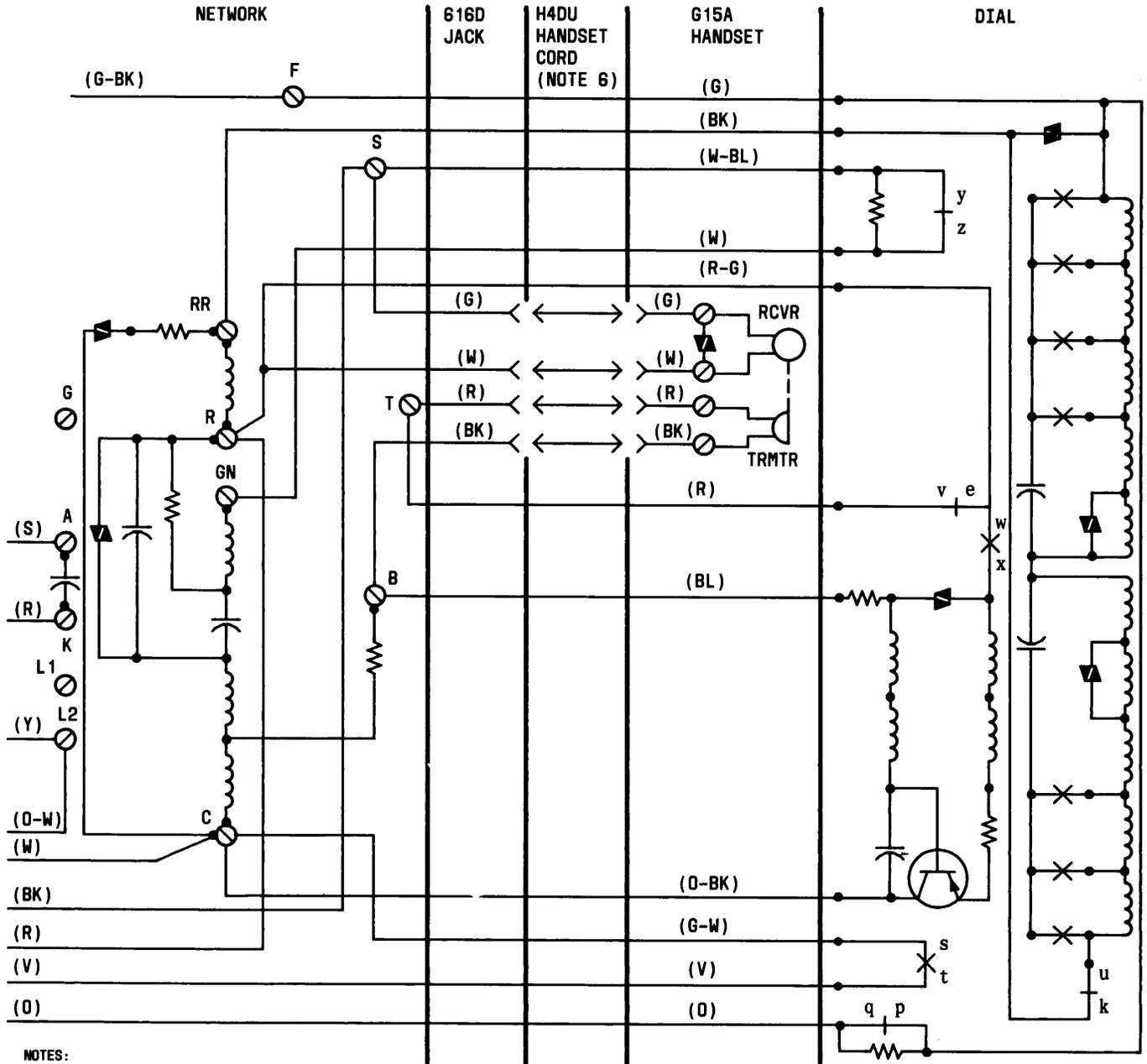


Fig. 7—2511HM Telephone Set, Connections (Factory-Wired) (Sheet 1 of 2)

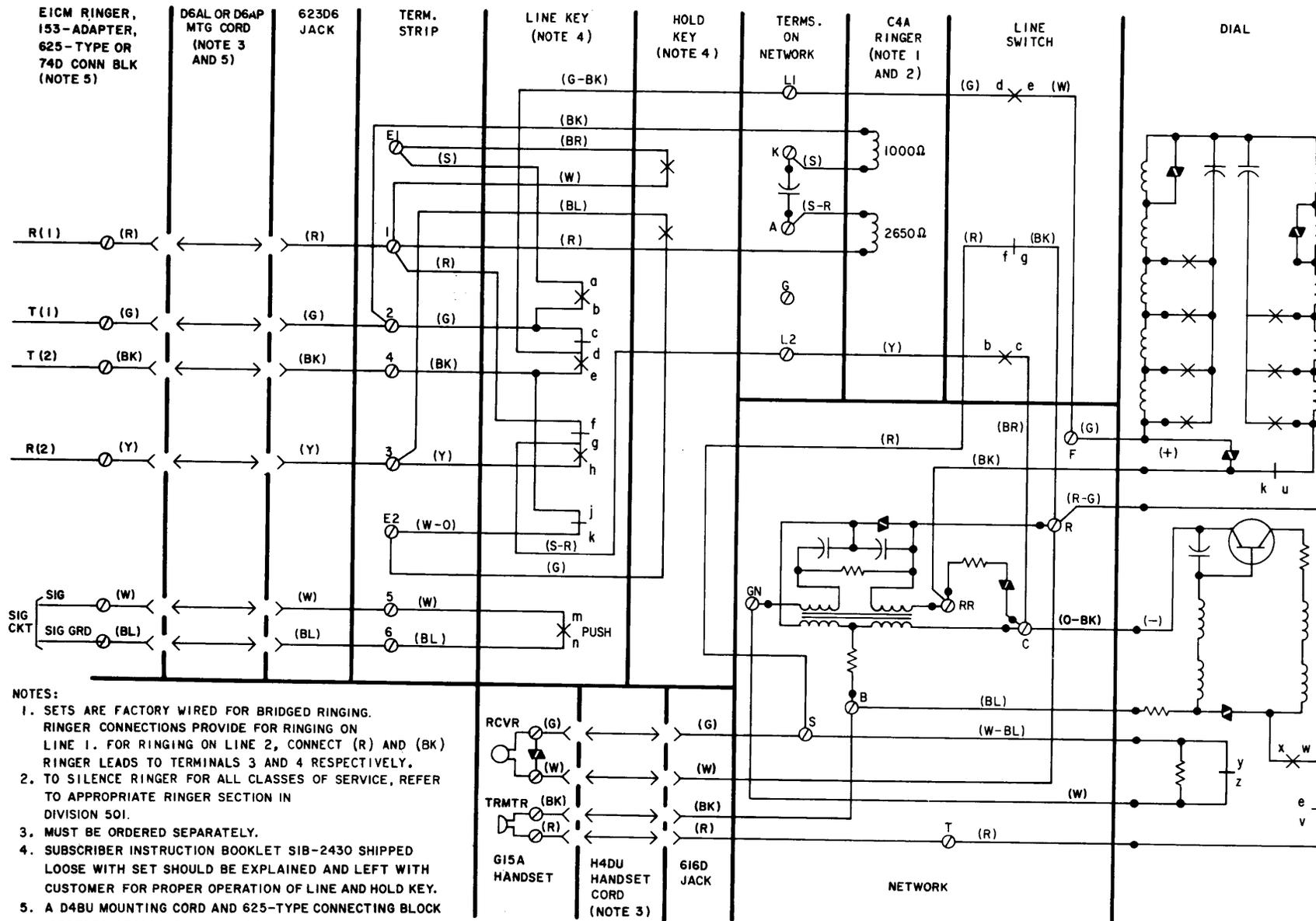


NOTES:

1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. CONNECTIONS SHOWN PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2. CONNECT (S) STRAP LEAD AND (BK) RINGER LEAD TO TERMINALS 5 AND 6 RESPECTIVELY.
  2. CONNECTIONS SHOWN PROVIDE FOR EXCLUSION ON LINE 1. FOR EXCLUSION ON LINE 2. CONNECT (BK), (Y), AND (S) EXCLUSION KEY LEADS TO TERMINALS 5, 6, AND 7 RESPECTIVELY. IF EXCLUSION IS NOT REQUIRED, DISCONNECT, INSULATE AND STORE (BK), (Y), AND (S) EXCLUSION KEY LEADS.
  3. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
  4. WHEN BUZZER IS USED, CONNECT BETWEEN TERMINALS 16 AND 19.
  5. TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON HOOK THE TIP AND RING LINE SWITCH CONTACTS MUST BREAK BEFORE THE A LEAD CONTACTS BREAK.
  6. MUST BE ORDERED SEPARATELY.
  7. PROVIDE A1 GROUND AT EXCLUDED STATION.
- \* INSULATED AND STORED.

Fig. 7—2511HM Telephone Set, Connections (Factory-Wired) (Sheet 2 of 2)





- NOTES:
1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (R) AND (BK) RINGER LEADS TO TERMINALS 3 AND 4 RESPECTIVELY.
  2. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
  3. MUST BE ORDERED SEPARATELY.
  4. SUBSCRIBER INSTRUCTION BOOKLET SIB-2430 SHIPPED LOOSE WITH SET SHOULD BE EXPLAINED AND LEFT WITH CUSTOMER FOR PROPER OPERATION OF LINE AND HOLD KEY.
  5. A D4BU MOUNTING CORD AND 625-TYPE CONNECTING BLOCK (ORDERED SEPARATELY) MAY BE USED WHEN SIGNALING FEATURE IS NOT REQUIRED.

Fig. 9—2515BM Telephone Set, Connections (Factory-Wired)

TABLE K

2558D OR DM

WIRING CHANGES TO PROVIDE 1-LINE PICKUP,  
CUTOFF EXTENSION STATION OR EXTENSION RINGER

LINE KEY			EXCLUSION KEY			LINE SWITCH		
LEAD	FROM	TO	LEAD	FROM	TO	LEAD	FROM	TO
R	1	*	BR	E1	*	G	(12)† L1	1
S-R	(12)† L1	1	Y	E1	*	Y	7	13
O-BK	5	*	BL	1	*	S	14	7
W-O	G	5	S	13	*	BR	G	5
			O	5	*			
			W	E2	*			
Strap 7 to 13 on terminal strip Strap F of network to 2 on terminal strip								

\*Insulate and store or connect to spare terminal  
†Terminal in (—) is for sets E/W 4010D network.

TABLE L

2558D OR DM

WIRING CHANGES TO PROVIDE 2-LINE PICKUP,  
HOLD ON LINE 1, AND SIGNALING  
(USED WITHOUT 1A1 OR 1A2 KTS)

HOLD KEY (EXCLUSION KEY)							
LEAD	BK	W	BR	Y	BL	S	O
FROM	2	E2	E1	E1	1	13	5
TO	*	2	1	*	*	*	*

\*Insulate and store or connect to spare terminal.

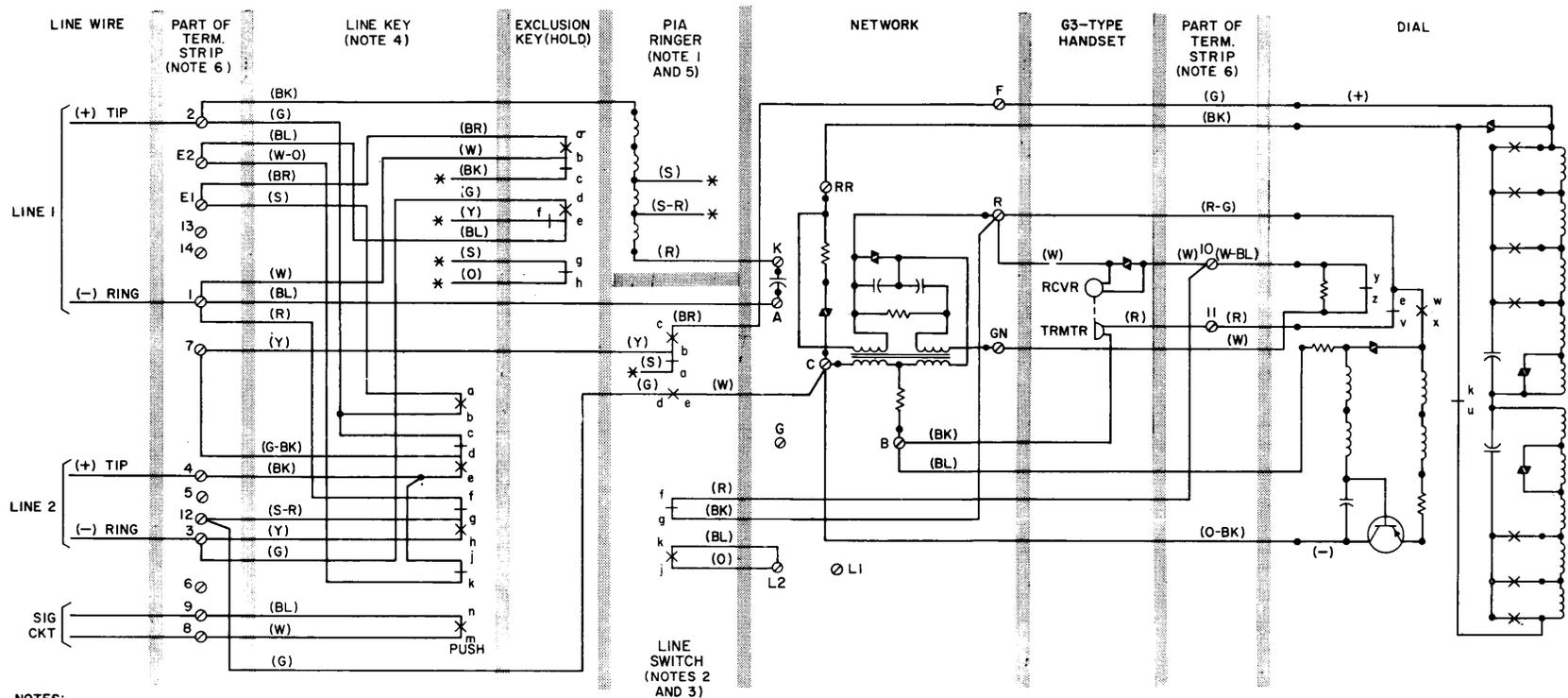
TABLE M

2558D

WIRING CHANGES TO PROVIDE  
SECRETARIAL SERVICE WITH HOLD

LINE KEY			EXCLUSION KEY		
LEAD	FROM	TO	LEAD	FROM	TO
W-O	G	2	W	E2	2
S	*	E2	BR	E1	1
V	*	1			

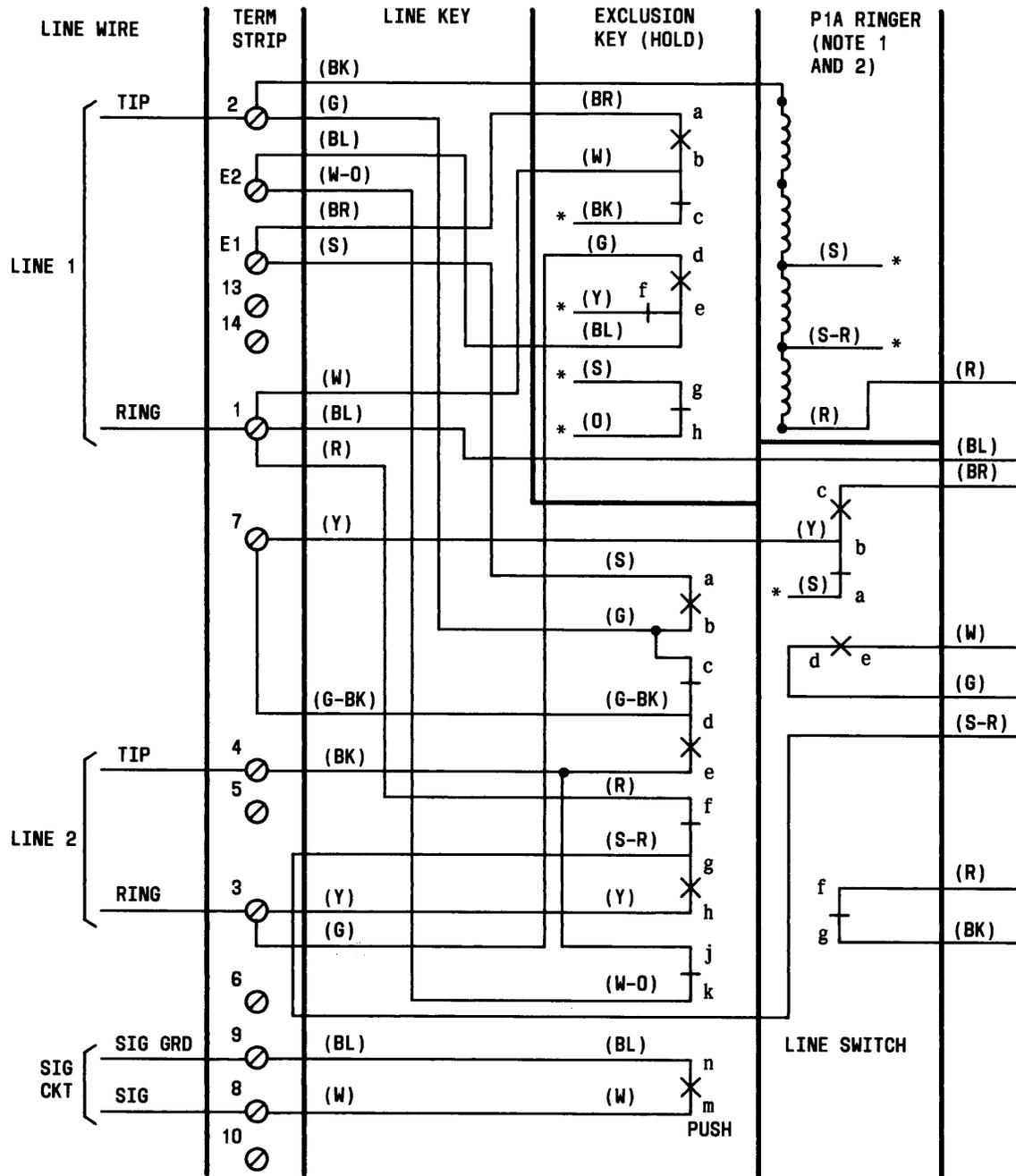
\*Insulate and store or connect to spare terminal.



**NOTES:**

1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (BL) STRAP FROM A OF NETWORK AND (BK) RINGER LEAD TO TERMINALS 3 AND 4, RESPECTIVELY.
2. CURRENT PRODUCTION SETS DO NOT HAVE CONTACTS j-k AND ASSOCIATED (O) AND (BL) LEADS.
3. LINE SWITCH SEQUENCE, HANDSET REMOVED:  
bc-MAKES    ab- BREAKS  
de-MAKES    fg- BREAKS
4. LINE KEY SEQUENCE:  
LINE 1 TO LINE 2  
ab-MAKES    de-MAKES  
cd-BREAKS    gh-MAKES  
fg-BREAKS    jk-BREAKS
5. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
6. WHEN 4228K NETWORK IS PROVIDED, TERMINALS 10,11, AND 12 ON THE TERMINAL STRIP SHALL BE REPLACED BY TERMINALS L2, T, AND L1 RESPECTIVELY ON THE NETWORK (SEE NOTE 2).  
\*- INSULATED AND STORED

**Fig. 10—2555B (MD) Telephone Set, Connections**



NOTES:

1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (BL) STRAP FROM A OF NETWORK AND (BK) RINGER LEAD TO TERMINALS 3 AND 4, RESPECTIVELY.
2. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.

3. MUST BE ORDERED SEPARATELY.
- \* INSULATED AND STORED

Fig. 11—2555BM (MD) Telephone Set, Connections (Sheet 1 of 2)

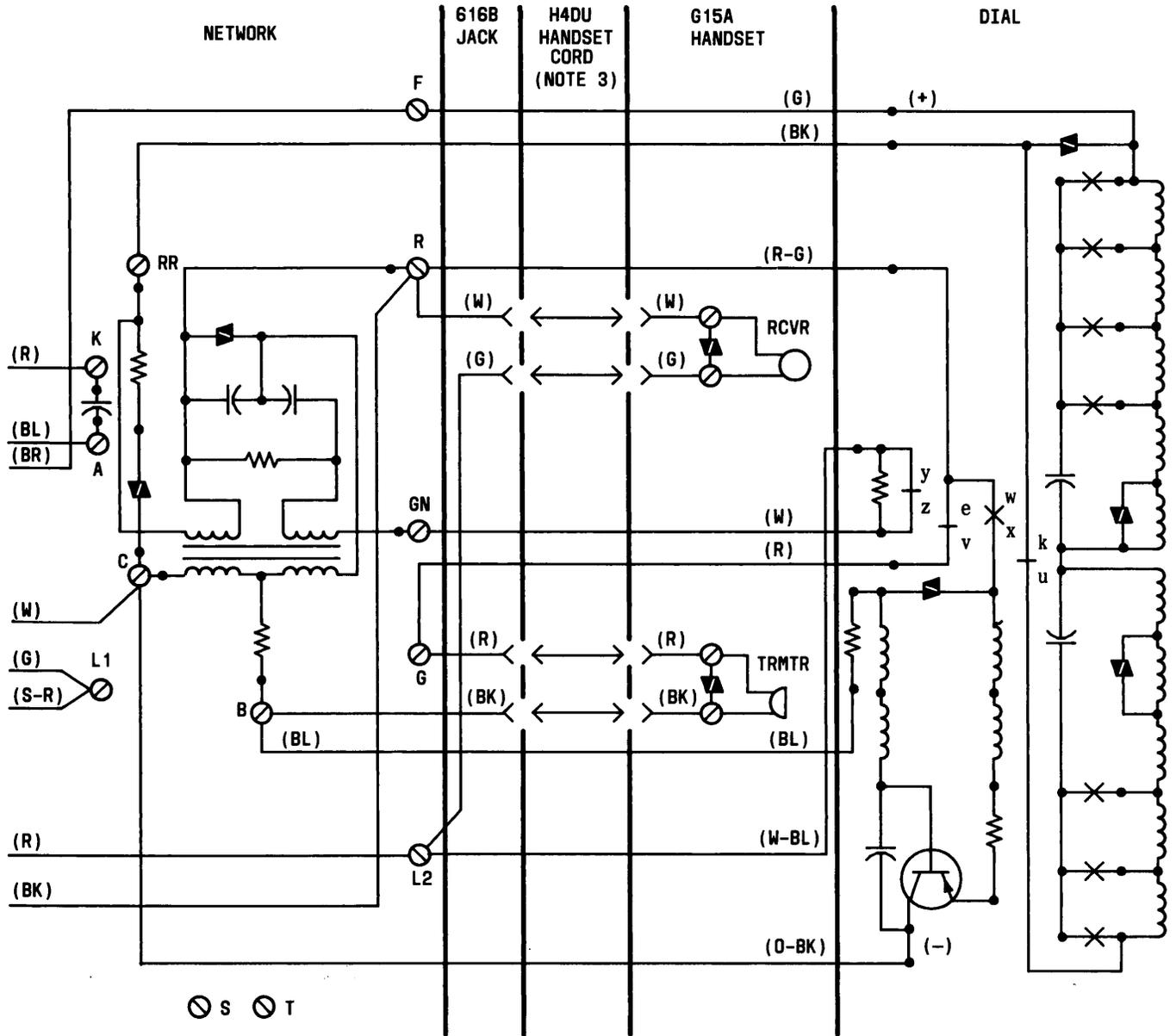
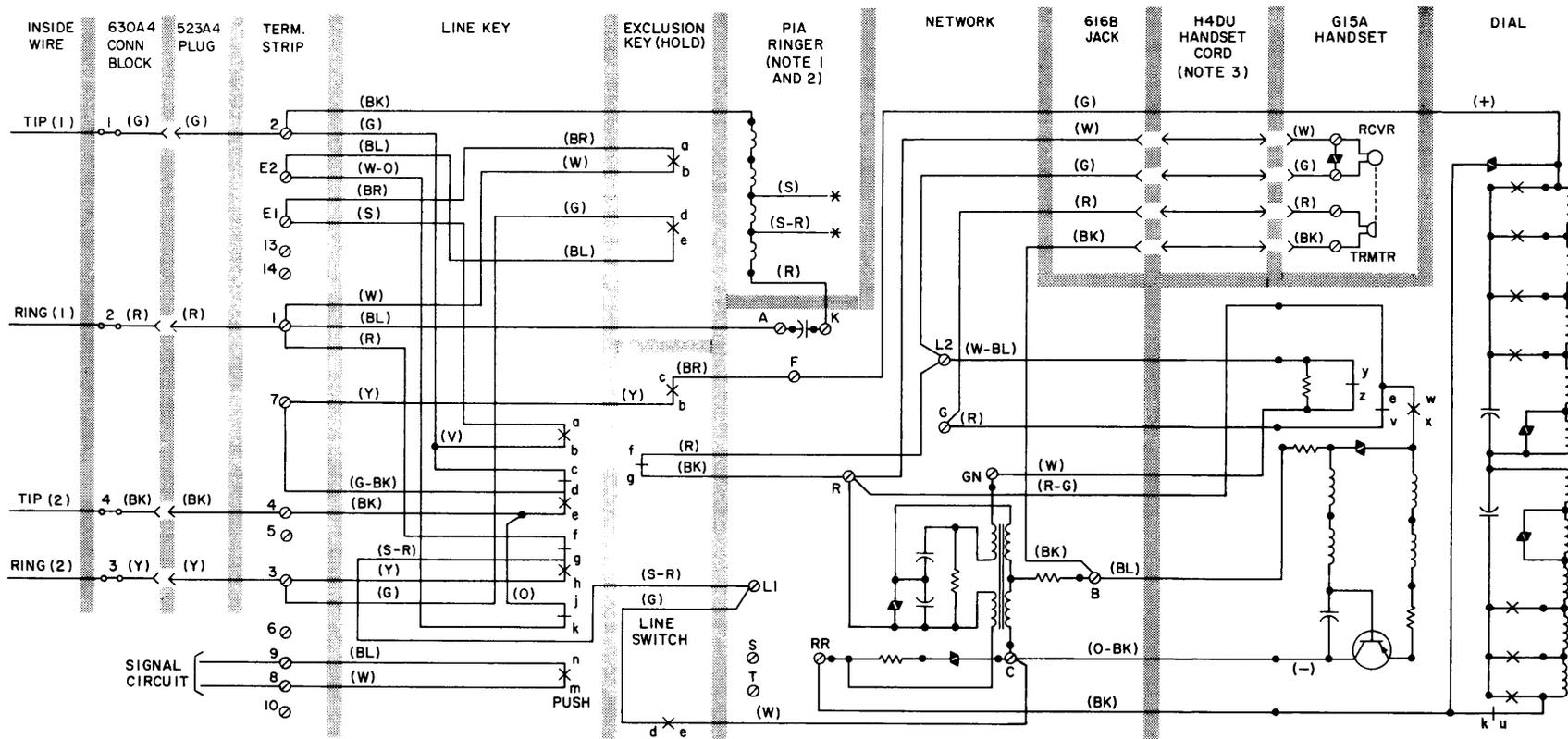


Fig. 11—2555BM (MD) Telephone Set, Connections (Sheet 2 of 2)



- NOTES:
1. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (BL) STRAP FROM A OF NETWORK AND (BK) RINGER LEAD TO TERMINALS 3 AND 4, RESPECTIVELY.
  2. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.
  3. MUST BE ORDERED SEPARATELY.
- \* INSULATED AND STORED

Fig. 12— $\phi$ 2555BMP Telephone Set, Connections (Factory-Wired) $\phi$



SECTION 502-503-102

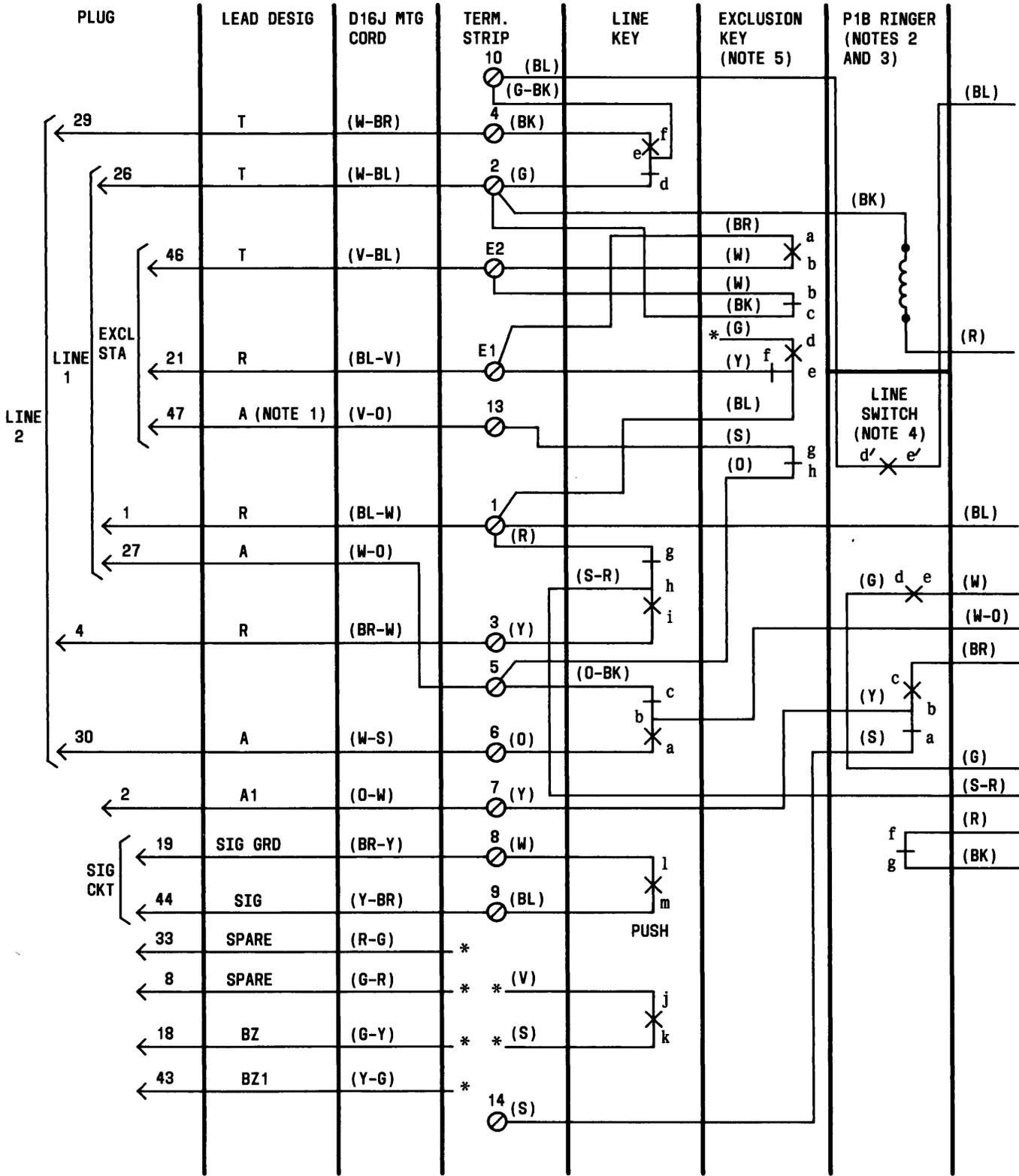
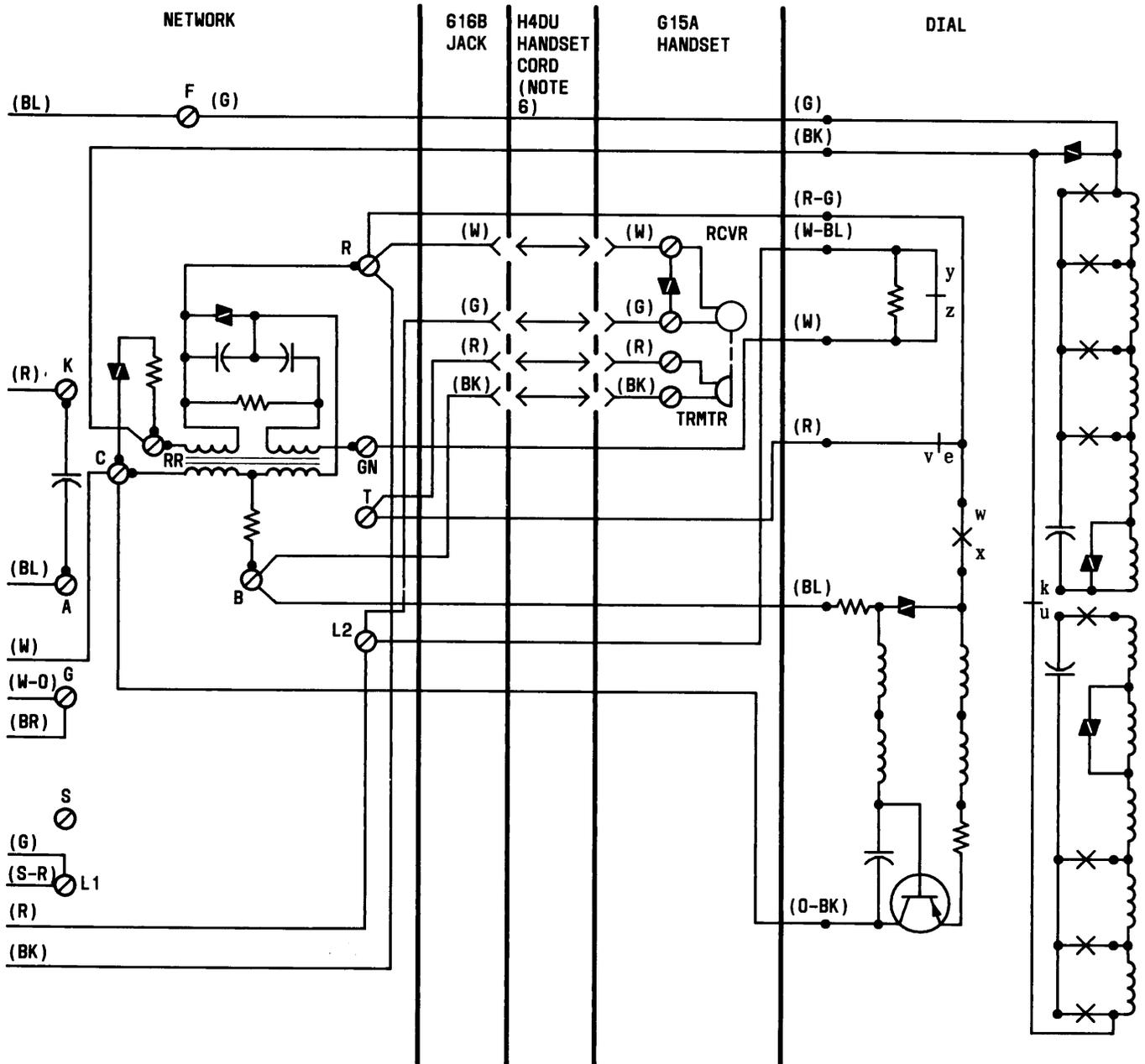


Fig. 14—2558DM Telephone Set, Connections (Factory-Wired) (Sheet 1 of 2)



## NOTES:

1. PROVIDE A1 GROUND AT EXCLUDED STATION.
2. SETS ARE FACTORY WIRED FOR BRIDGED RINGING. RINGER CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, CONNECT (BK) RINGER LEAD TO TERMINAL 4 AND (BL) STRAP FROM A ON NETWORK TO TERMINAL 3.
3. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE, REFER TO APPROPRIATE RINGER SECTION IN DIVISION 501.

4. TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON HOOK THE TIP AND RING LINE SWITCH CONTACTS MUST BREAK BEFORE THE A LEAD CONTACTS BREAK.
5. TO PROVIDE EXCLUSION FOR LINE 2, CONNECT (BK), (BL) AND (O) EXCLUSION KEY LEADS TO TERMINALS 4, 3 AND 6, RESPECTIVELY. IF EXCLUSION IS NOT REQUIRED DISCONNECT, INSULATE AND STORE (BK), (BL) AND (O) EXCLUSION KEY LEADS.
6. MUST BE ORDERED SEPARATELY.

\* INSULATED AND STORED

Fig. 14—2558DM Telephone Set, Connections (Factory-Wired) (Sheet 2 of 2)

TABLE N

2511HM

WIRING CHANGES TO PROVIDE 1-LINE  
PICKUP, HOLD, AND SECRETARIAL SERVICE

EXCLUSION KEY			LINE KEY			MTG CORD		
LEAD	FROM	TO	LEAD	FROM	TO	LEAD	FROM	TO
BR	10	2	W-O	20	1	V-O	11	*
W	9	1	O	7	9			
BK	1	*	S	17	10			
Y	2	*						
BL	10	*						

\*Insulate and store or connect to spare terminal.

◆ TABLE O ◆

2558DM

WIRING CHANGES TO PROVIDE 1-LINE  
PICKUP, HOLD, AND SECRETARIAL SERVICE

LINE KEY			EXCLUSION KEY		
LEAD	FROM	TO	LEAD	FROM	TO
W-O	G	2	W	E2	2
S	*	E1	BR	E1	1
V	*	1	Y	E1	*
O	6	E2			

\*Insulate and store or connect to spare terminal.