

REFERENCE

1500M, 1500S, 1500Y, AND 1514B TELEPHONE SETS

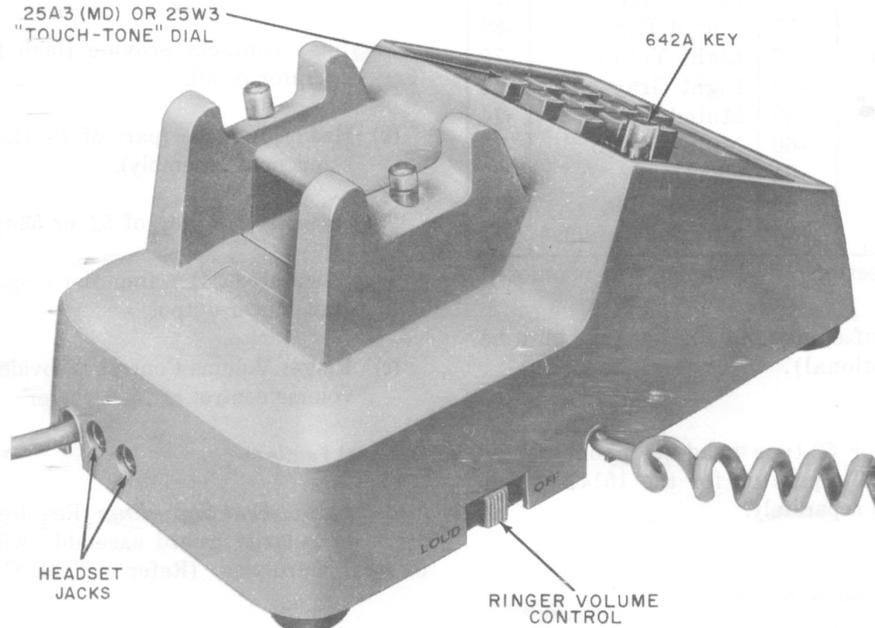


Fig. 1—1514B Telephone Set

1. GENERAL

1.01 This section provides identification, installation, maintenance, and connection information for special purpose telephone sets previously contained in Sections 502-510-111, 502-510-433, 502-510-434, 502-510-445, 502-520-101, and 502-520-421 which are hereby canceled.

2. IDENTIFICATION

Purpose

2.01 Special purpose TOUCH-TONE® dial desk-type telephone sets.

Ordering Guide *

2.02 Basic Telephone Sets:

Set, Telephone, 1500M-†

Set, Telephone, 1500S-†

Set, Telephone, 1500Y-†

Set, Telephone, 1514B-†

* Refer to Table B for ordering replaceable components.

† Refer to Table A for color.

TABLE A
COLOR ORDERING GUIDE*

TEL SET, CORD HOUSING, HANDSET COLOR		COORDINATED FACEPLATE† COLOR	
Black	-03	Charcoal	-70
Ivory	-50	Muted Ivory	-80
Moss Green	-51	Light Green	-71
Red	-53	Muted Red	-69
Pastel Yellow	-56	Light Yellow	-72
White	-58	Light Gray	-73
Rose Pink	-59	Muted Pink	-74
Light Beige	-60	Muted Beige	-75
Light Gray	-61	Charcoal	-70
Aqua Blue	-62	Muted Blue	-76
Turquoise	-64	Muted Turquoise	-77

* Refer to Section 500-120-100 for promoted colors.

† Faceplates of same color as housing may be ordered (optional).

2.03 The 52- or 53-type head telephone set is associated apparatus for the 1514B which must be ordered separately.

Design Features and Application

2.04 The 1500M telephone set provides an *A* lead control circuit and bridged ringer for use in 1A1 or 1A2 Key telephone system. Can be modified for separate ringer control.

2.05 The 1500S telephone set provides connections for 3-type speakerphone system.

2.06 The 1500Y telephone set provides a message waiting feature.

2.07 The 1514B telephone set (Fig. 1) is a single line desk set providing handset or headset operation, operator recall (headset operation), and AC or DC operated buzzer (optional),

2.08 The 1514B telephone set is used on CO or PBX lines in 1A, 1A1, or 1A2 key telephone systems.

2.09 *Operating Features of the 1514B Telephone Set:*

- (a) 642A Key:
- Turn contacts provide headset ON-OFF function, transfer between headset and handset operation.
 - Push contacts provide flash function for operator recall.
- (b) Headsets Jacks (part of P-44E420 jack and component assembly):
- Accepts cord plug of 52- or 53-type headset
 - Associated 241A amplifier amplifies headset transmitter output
- (c) Ringer Volume Control: Provides for manual volume control of N1A ringer

Optional Features

2.10 *End-to-End Signaling:* Requires installation of polarity guard assembly when specified by local instruction. (Refer to Table C.)

3. INSTALLATION

3.01 Refer to Section 502-120-201 for installation information.

4. MAINTENANCE

4.01 Plungers, operating bracket switch, and line switch shall move freely without binding or squeaking.

(1) Clean with KS-2423 cloth moistened with KS-7860 petroleum spirits.

(2) Lubricate plungers and bearing surfaces with No. 2 or softer graphite pencil.

4.02 Clean line switch contacts when required with 265C tool. Replace set if other trouble exists in line switch assembly.

4.03 Maintenance of the headset ON-OFF key in the 1514B consists of cleaning contacts and checking for contact follow. *Do not attempt any other maintenance.*

transmitter. **DO NOT ATTEMPT FIELD REPAIRS ON THE 241A AMPLIFIER.** If amplifier is defective, replace.

4.04 In the 1514B, a defective 241A amplifier will cause loss or low output from the headset

TABLE B
COMPONENT ORDERING GUIDE*

REPLACEABLE COMPONENTS	TELEPHONE SET			
	1500M	1500S	1500Y	1514B
Cord, Mounting	D4BJ	D10P D10H†	D3BN	D10P
Dial	25W3 25A3†	25Y3 25B3†	25W3 25A3†	25W3 25A3†
Housing	P-83A300	P-83A300	P-83A300	P-84E700
Lamp			KS-16893L1	
Plate, Face, Assembly	P-84G000†	P-84G000†	P-84G100†	P-84G200†
Plate, Face	P-26E022†	P-26E022†	P-26E023†	P-89H500
Retainer, Card	P-25E803 P-25E846†	P-25E803 P-25E846†	P-25E803 P-25E846†	P-25E803 P-25E846†
Ringer	C4A	C4A	C4A	N1A
Set, Hand	G3AR	G3AR	G3AR	G3AR
Key				642A
OPTIONAL Polarity Guard §	P-90D052	P-90D052	P-90D052	P-90D052
Buzzer				KS-8109L2
Diode				KS-15724L1 (Station busylamp)
Dial Conversion Kit				D-180115

* Refer to Table A for color selection.

† MD

‡ Includes P-25E803 Card Retainer.

§ Telephone set must be equipped with a 25W3 or 25Y3 dial as appropriate, if intended for use with amplifying handset or 3-type speakerphone system.

SECTION 502-502-110

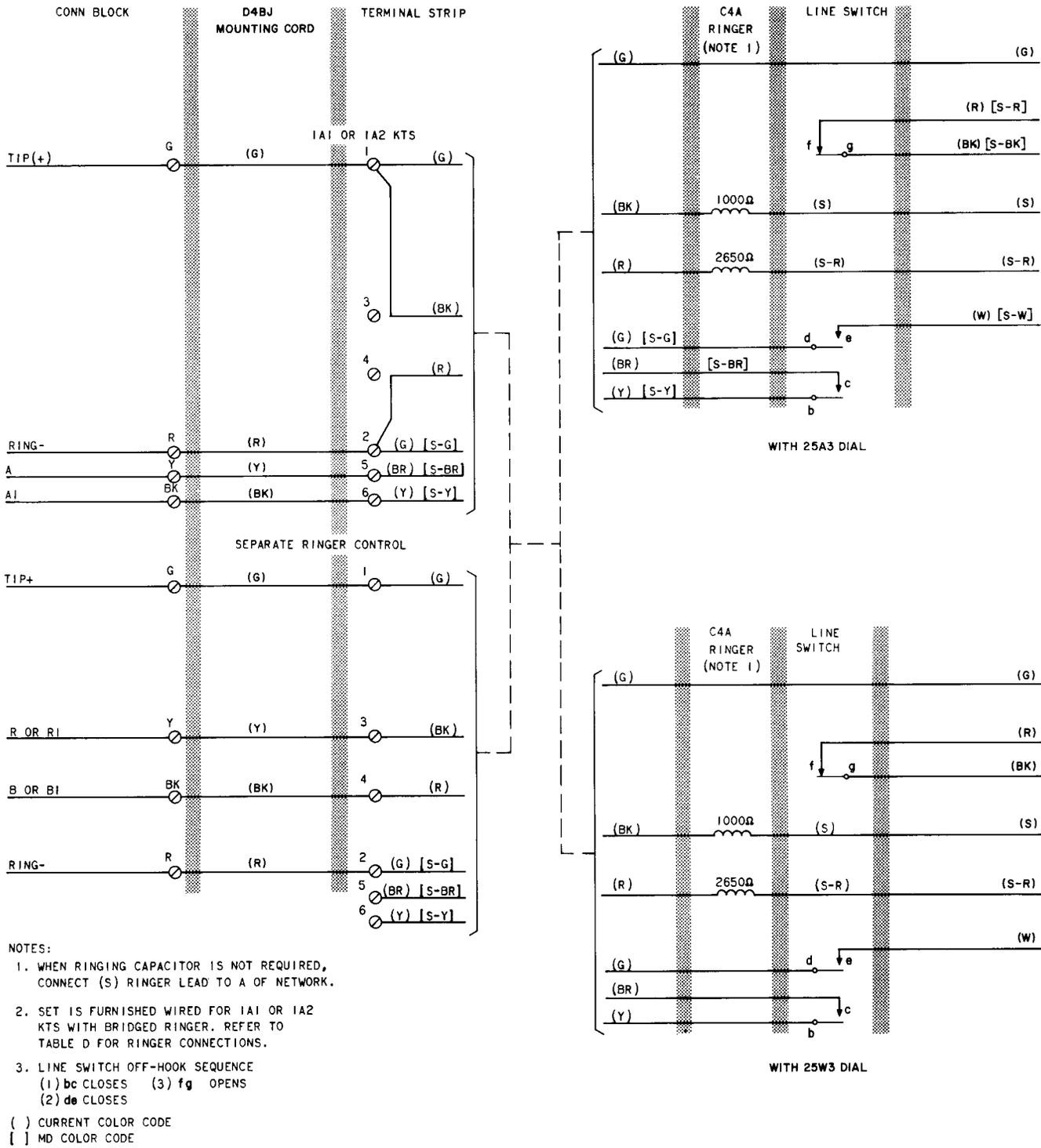


Fig. 2—1500M Telephone Set, Connections (Sheet 1 of 2)

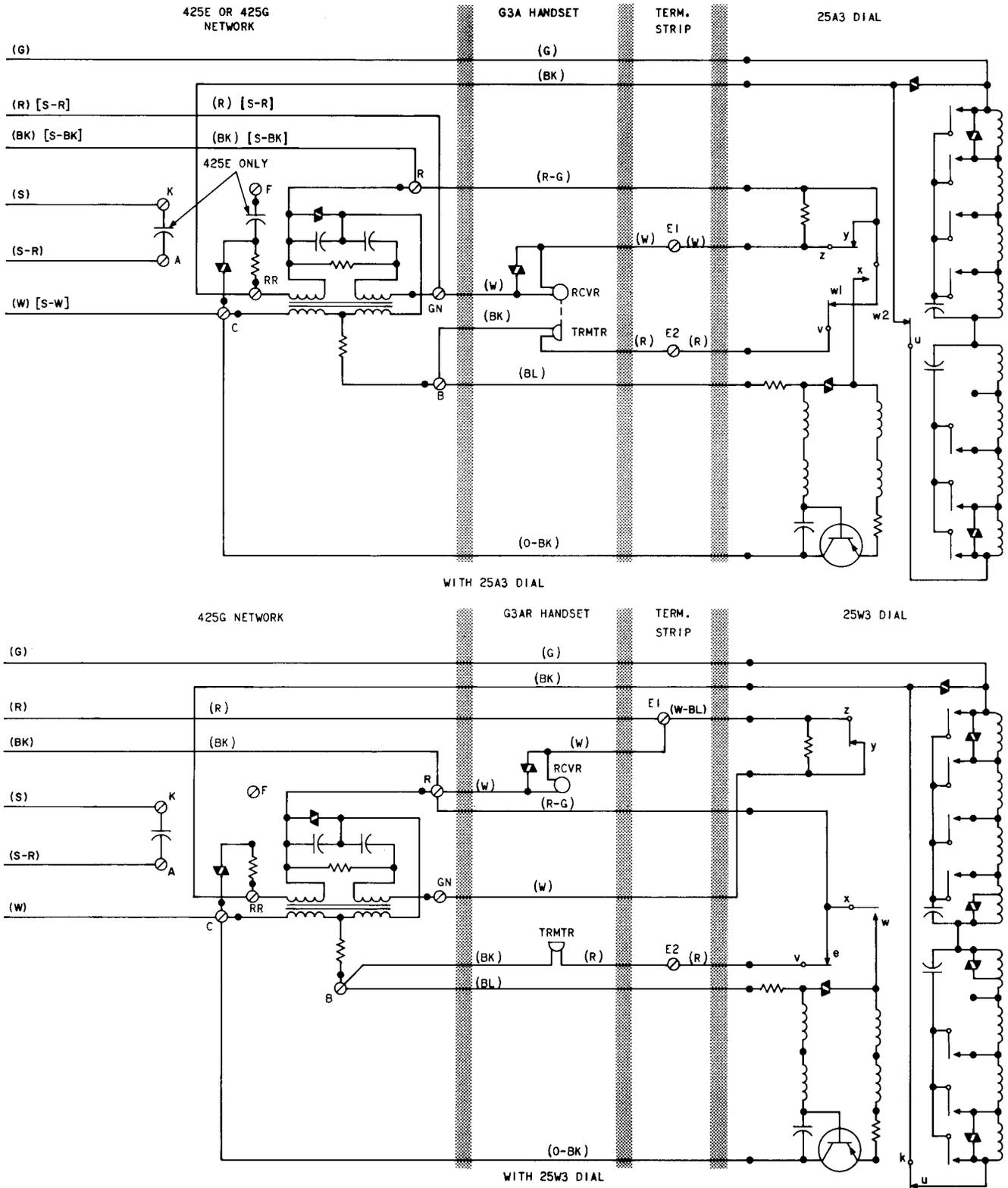
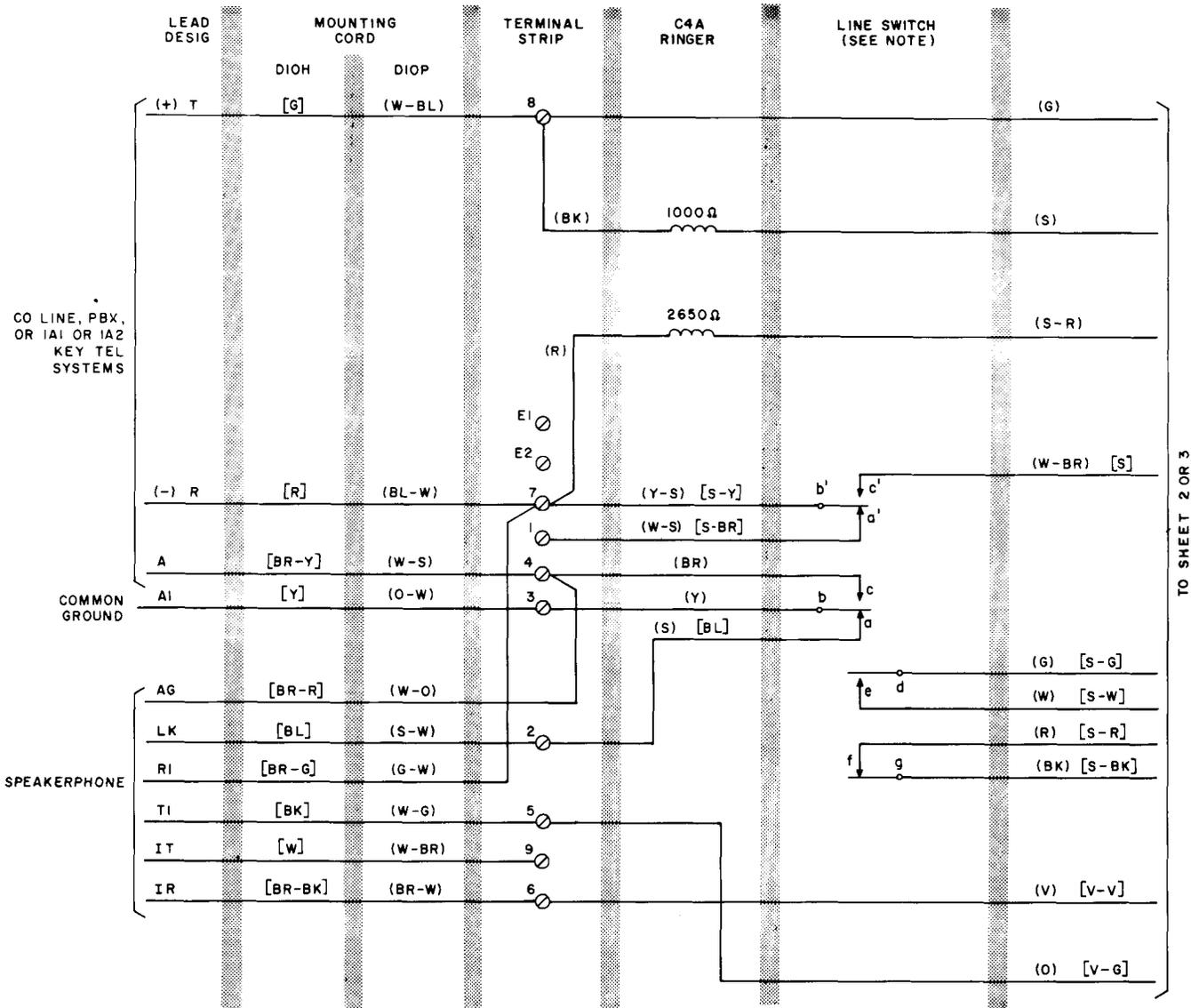


Fig. 2—1500M Telephone Set, Connections (Sheet 2 of 2)



NOTES:

1. SET FACTORY-WIRED FOR BRIDGED SERVICE. FOR RING PARTY MOVE RINGER (BK) LEAD FROM TERM. 8 TO TERM. 3 FOR TIP PARTY MOVE RINGER (R) LEAD FROM TERM. 7 TO TERM. 3.
2. TO SILENCE RINGER PERMANENTLY REMOVE (S-R) RINGER LEAD FROM TERM. A AND CONNECT TO TERM. G.
3. REFER TO TABLE E FOR STATION BUSY LAMP MODIFICATION.
4. CONTACTS d,e AND ASSOCIATED LEADS WERE NOT PROVIDED ON SETS OF EARLIER MANUFACTURE.
5. LINE SWITCH OFF-HOOK SEQUENCE:

(1) bc CLOSES	(3) de CLOSES	(5) a' b' OPENS	() CURRENT COLOR CODE.
(2) b'c' CLOSES	(4) ab OPENS	(6) fg OPENS	[] MD COLOR CODE.

Fig. 3—1500S Telephone Set, Wired for Speakerphone (Sheet 1 of 3)

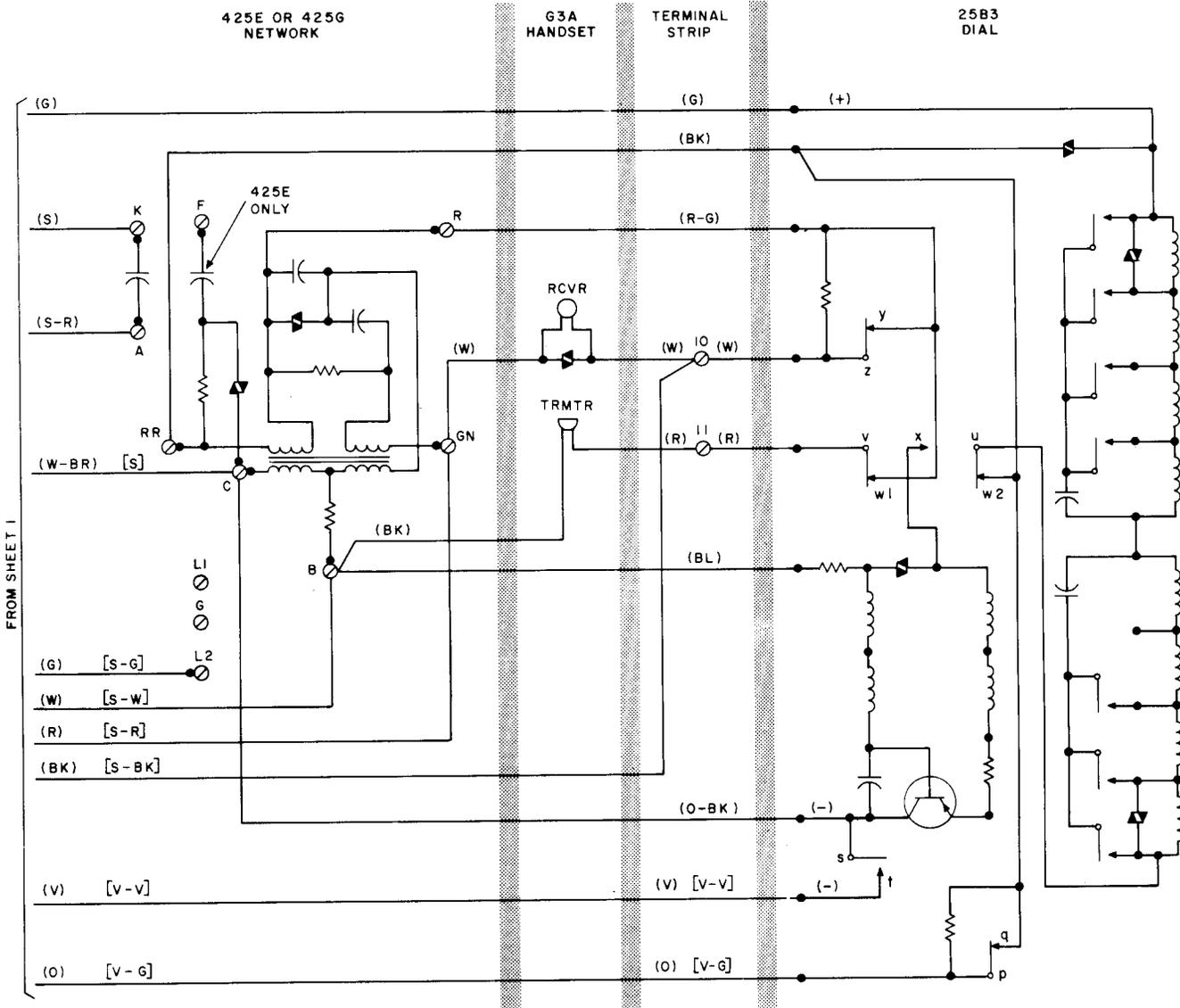


Fig. 3—1500S Telephone Set, Wired for Speakerphone (Sheet 3 of 3)

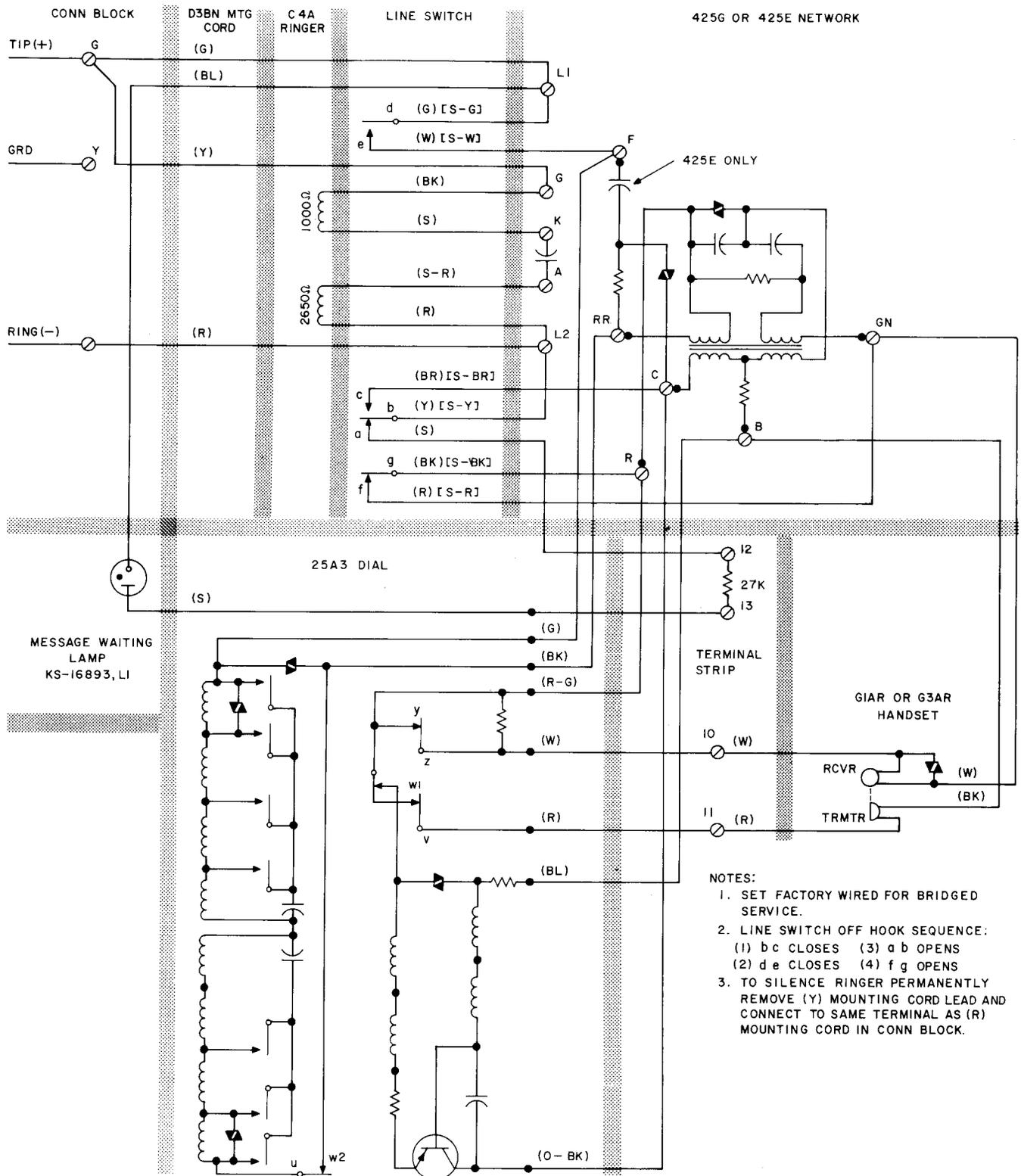


Fig. 4—1500Y Telephone Set, Connections With 25A3 Dial

SECTION 502-502-110

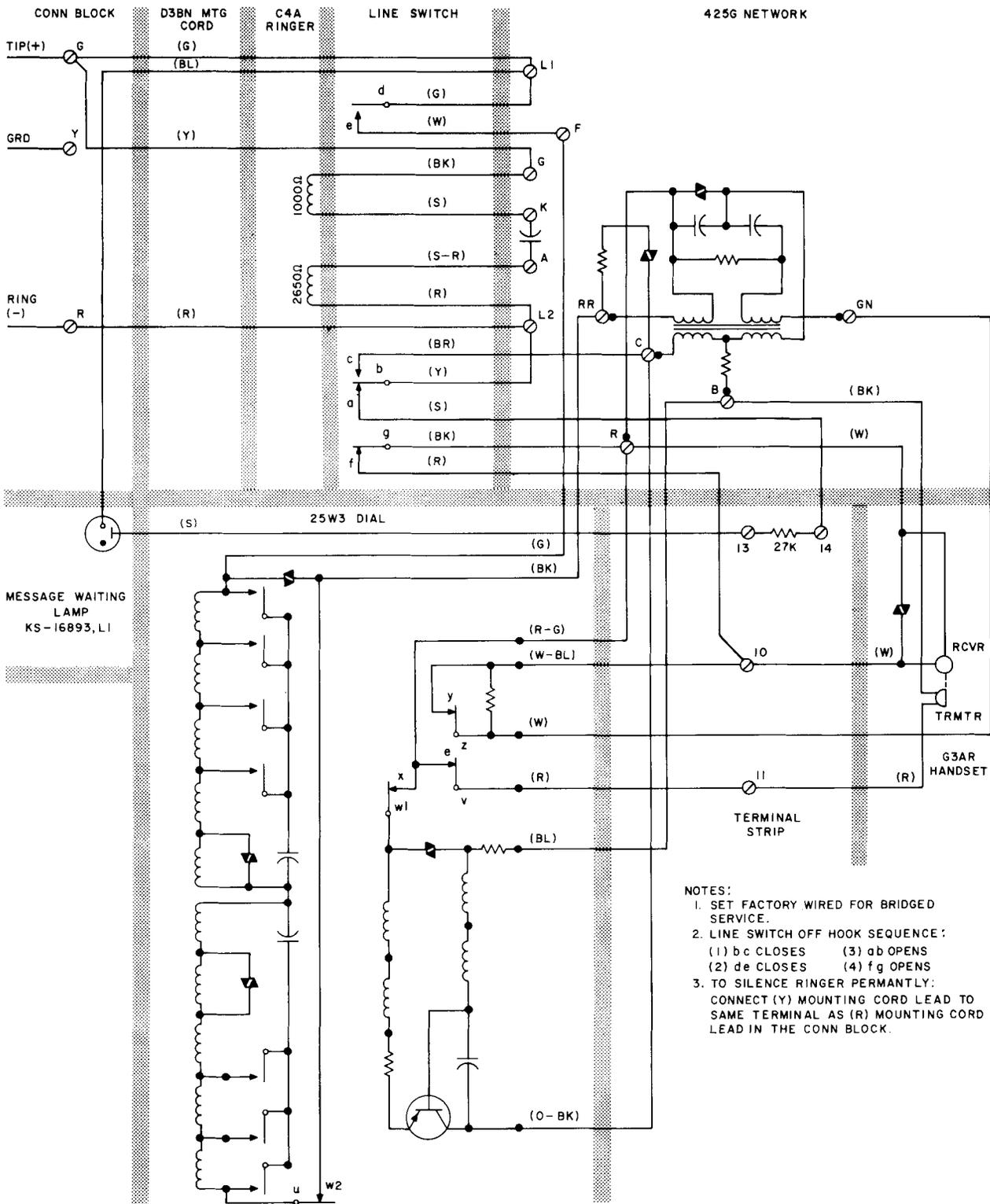


Fig. 5—1500Y Telephone Set, Connections With 25W3 Dial

TABLE C
MODIFICATIONS FOR ADDING (P-90D052)
POLARITY GUARD

LEAD	COLOR	REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Line Switch	(W)* (BR)[S-BR]† (W-BR)‡ (W)[S-W]§	C		S
Dial	(BK) (G-W)¶	RR		T
Polarity Guard	(W) (G)		C RR	
Headset On-Off Key	(S-R)*	C		S

* Applies to 1514B only.

† Applies to 1500Y only.

‡ Applies to 1500S only.

§ Applies to 1500M only.

¶ This dial lead found in 1500S only.

SECTION 502-502-110

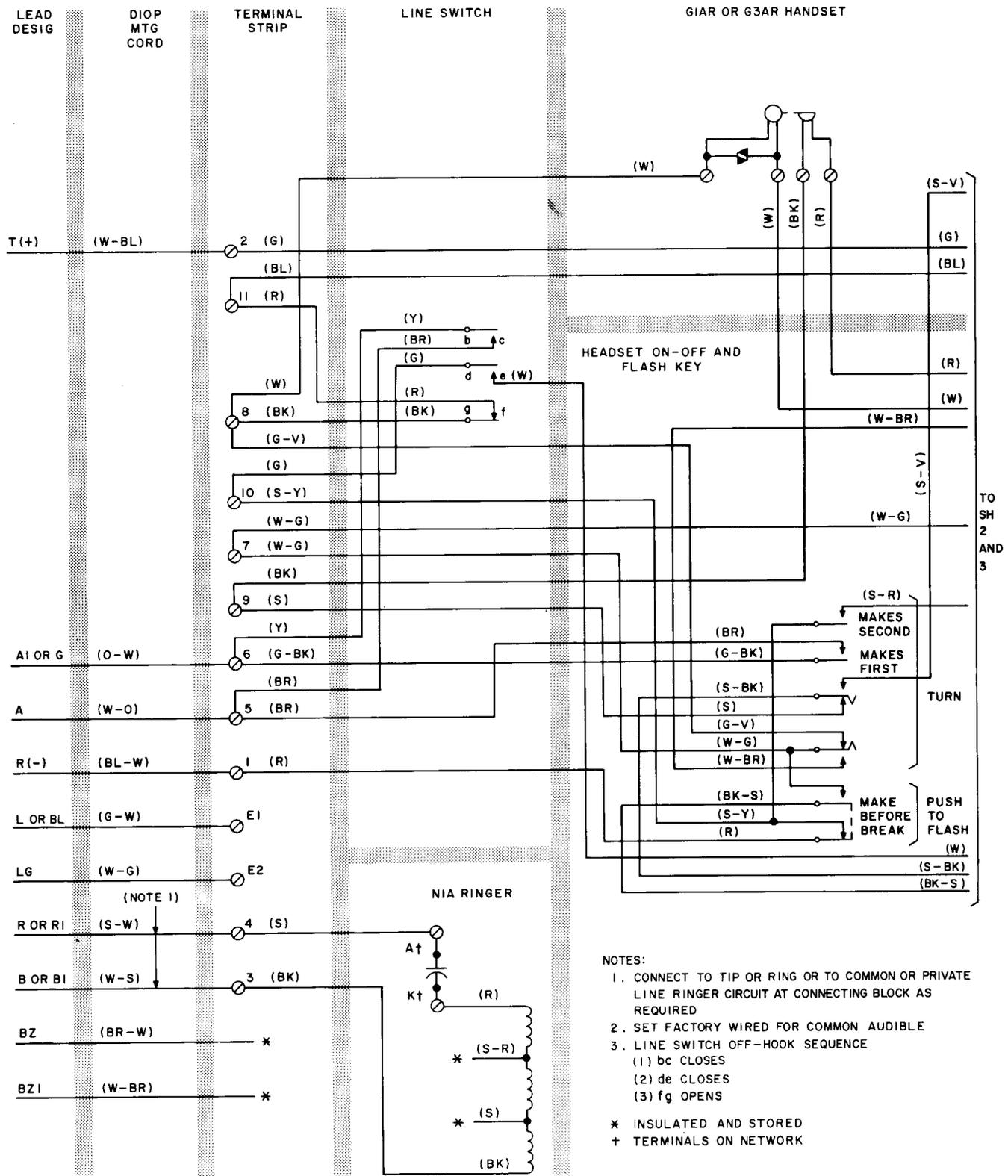


Fig. 6—1514B Telephone Set, Connections (Sheet 1 of 3)

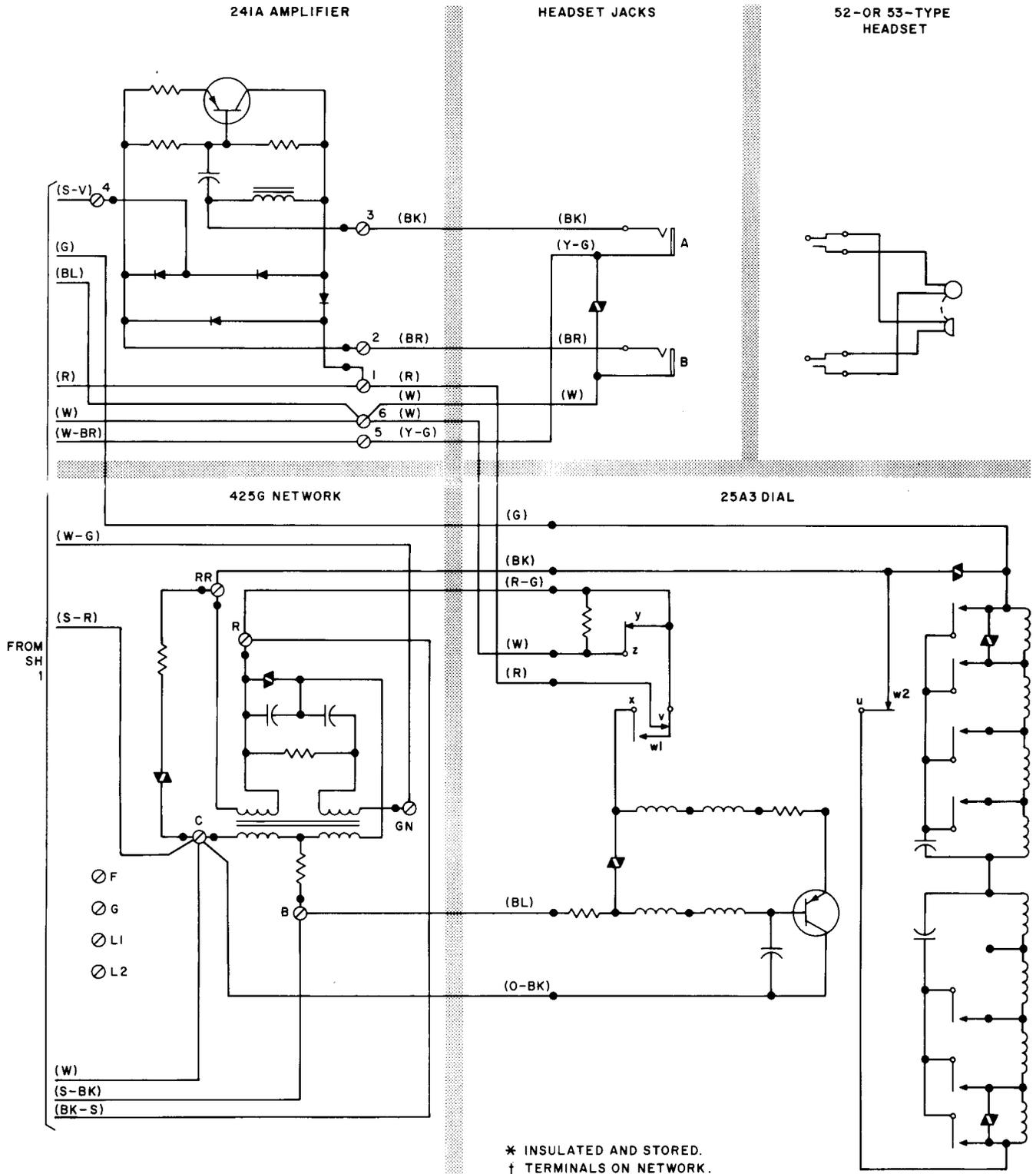


Fig. 6—1514B Telephone Set, Connections (Sheet 2 of 3)

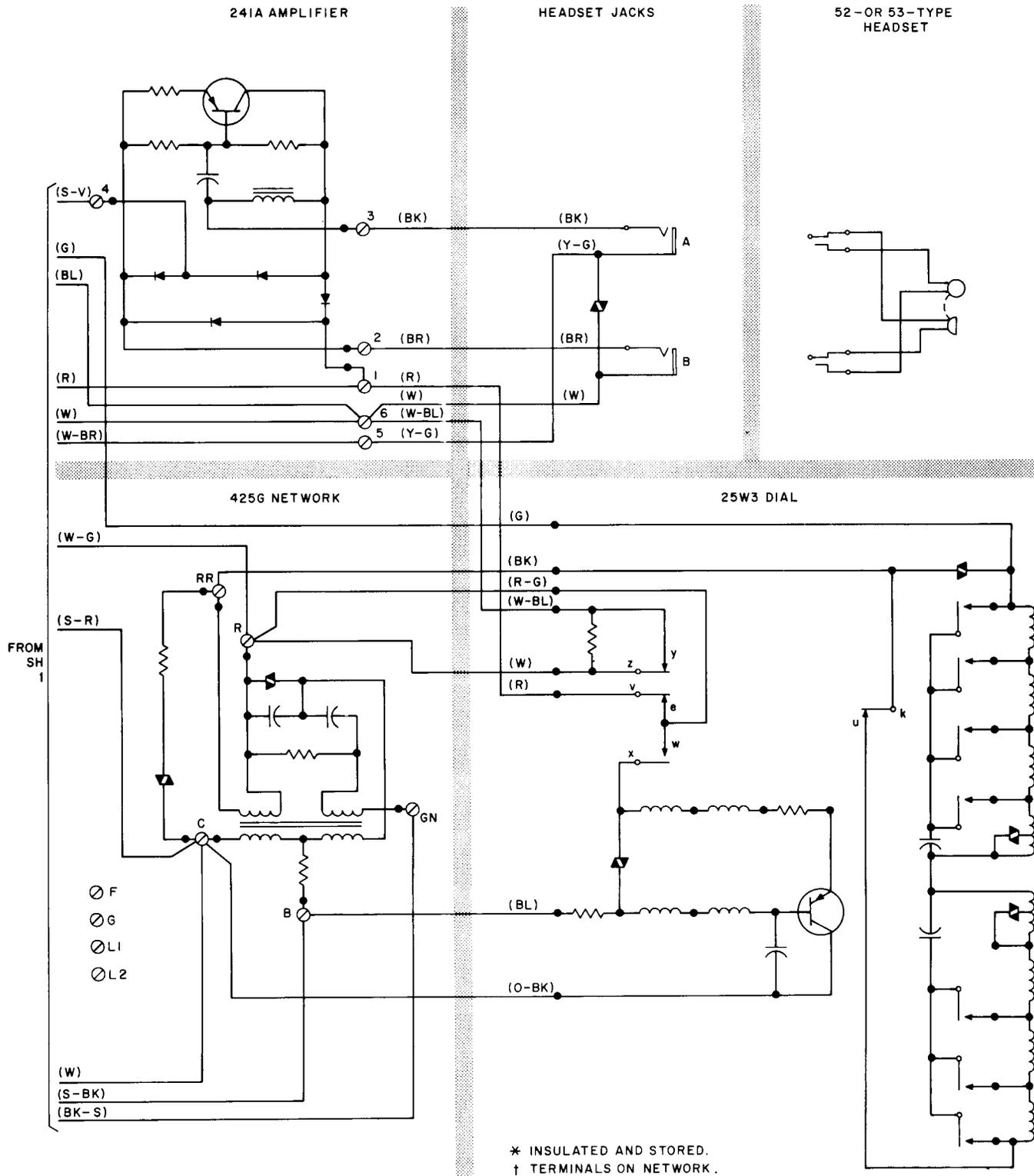


Fig. 6—1514B Telephone Set, Connections (Sheet 3 of 3)

TABLE D
LINE AND RINGER CONNECTIONS FOR 1500M TELEPHONE SET

FEATURE (NOTE 1)	CONNECTIONS IN SET										MTG CD AT CONN BLK					
	MTG CORD						RINGER LEADS				LINE		PVT. OR COM. RING		1A1 OR 1A2 KTS	
	G	R	Y	BK	BL	W	BK	S	S	S-R	TIP	RING	R-R1	B-B1	A	A1
Separate Ringer	1	2	3	4			3	4			G	R	Y	BK		
Separate Ringer and 1A1 or 1A2 KTS (Note 2)	1	2	5	6	3	4	3	4			G	R	BL	W	Y	BK

Notes:

1. Replace D4BJ mounting cord with D6AA.
2. To silence ringer permanently when wired for 1A1 or 1A2 KTS: Remove (BK) ringer lead from 1 and connect to 2 on terminal strip.

TABLE E
MODIFICATION TO PROVIDE STATION BUSY LAMP FOR 1500S TELEPHONE SET

LEAD	COLOR	REMOVE FROM	CONNECT TO
Mtg Cord	(G-W)	7	4
	[BR-G]		
KS-15724L1 Diode	(W-S)	4	E2
	[BR-Y]		
			E2 ← 4

Notes:

1. R1 lead must be added between ring side of line at connecting block and 55B control unit.
 2. (G-W) lead is BL lead at key equipment.
- () Current color code.
[] MD color code.

TABLE F
MODIFICATION TO PROVIDE STATION BUSY LAMP FOR 1514B TELEPHONE SET

LEAD		REMOVE FROM	CONNECT TO
Line Switch	(BR)	5	E1
Headset On-Off Key	(BR)	5	E1
KS-15724, L1 Diode			E1 → 5