

## TELEPHONE SETS — 1563HB

### CONNECTIONS

#### 1. GENERAL

**1.01** This section covers connection information for the 1563HB telephone set. Modifications to provide optional service features are also covered.

**1.02** This section is reissued to include information on current production sets using 25W3 TOUCH-TONE® dials. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.03** The 1563HB telephone set is factory-wired for 1A1 and 1A2 key telephone system line circuits. Set can be used with 1A KTS provided wiring modifications are made (see Table A).

**1.04** Line exclusion can be provided by the installation of a D-179935 Kit of Parts (ordered separately). See Part 2 and Section 502-525-112 for installation procedures.

**1.05** Due to set design the optional general use kits of parts for polarity guard and station busy lamp features can not be used with present production 1563HB telephone sets. Station busy indication, showing that the handset is off-hook or that the headset jack is occupied (but does not indicate that a line button is depressed), can be arranged by installation of a KS-15724, List 1 diode (see Table B). No polarity guard kit is provided for this set.

#### 2. MODIFICATION

##### LINE EXCLUSION

**2.01** Install D-179935 Kit of Parts as follows:

- (1) Remove faceplate and housing (see Section 502-525-112 for procedure).
- (2) Insert tangs of long bracket into the two T-slots precut in the line switch bracket.

Insert the screw into the tapped hole in the bracket and tighten screw to secure bracket.

(3) Place switch assembly on bracket with spring contacts oriented to left side of set. Secure by hooking wire spring over T on rear of bracket and projections on either side of bracket (see Section 502-525-112 for details).

(4) Make connections as shown in Table B.

(5) Remove hand hold cover (in housing) and replace left side plunger with plunger from kit. Replace cover.

(6) Install housing and faceplate.

##### BUZZER

**2.02** Install KS-8109, List 2 buzzer (ordered separately) as follows:

- (1) Remove faceplate and housing (see Section 502-525-112).
- (2) Mount buzzer to two taped holes located above headset jacks and secure using two screws and insulating washers.

*Note:* Metal case of buzzer must be insulated from set baseplate.

- (3) Make connections for type of buzzer operation required as follows:

*Note:* For common line buzzer, (BK) ringer lead and (S) strap lead must be disconnected at *RR* and *RT* terminal of key terminal strip. These leads can be transferred to *R* and *T* of any line to provide line ringer with common buzzer or insulated and stored if ringer is not used.

(a) For AC operation use M1W cords or strap wire to connect terminal *A* of buzzer to *RT* of key terminal strip and terminal *C* of buzzer to *RR* of key terminal strip.

(b) For DC operation use M1W cords or strap wire to connect frame of buzzer

(place strap under one mounting screw) to *RT* of key terminal strip and terminal *C* of buzzer to *RR* of key terminal strip.

(4) Install housing and faceplate.

3. CONNECTION INDEX

Table A — Conversion For Use With 1A Key Telephone System

Table B — Station Busy Lamp Connections

Table C — Connections for Exclusion Switch

Table D — Pickup-Signal Key Conversion

Table E — Ringer Service Connections

Table F — Conductor Assignment Using Inside Wiring Cable With 66E-Type Connecting Blocks or A25-Type Connector Cable

Fig. 1 — 1563HB Telephone Set Using 425G Network and 25W3 Dial, Connections

Fig. 2 — 1563HB Telephone Set Using 425G Network and 25A3 Dial, Connections

TABLE A  
CONVERSION FOR USE WITH 1A KEY TELEPHONE SYSTEM

WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO
		TERMINAL BOARD OF 636A KEY	TERMINAL BOARD OF 636A KEY
644A Key	R	9	N
636A Key	Y	M	9
	O-BK	*	M

\* Stored location.

TABLE B  
STATION BUSY LAMP CONNECTIONS (NOTE)

WIRE OR LEAD	COLOR	636A KEY TERMINAL BOARD	
		REMOVE FROM	CONNECT TO
Line Switch	BR	N	1
644A Key	BR	N	1
KS-15724L1 Diode*			N to 1

\* Install diode with arrow (body marking) pointing *toward* terminal *N*.

**Note:** This connection will indicate *only* that the set handset is off-hook or the headset jack is occupied and the key is in the *ON* position. It will not indicate that a line button is depressed.

TABLE C  
CONNECTIONS FOR EXCLUSION SWITCH (NOTE)

EXCLUSION	KEY TEL SYS	EXCLUSION SWITCH LEADS (CONNECT TO 636AK TERM BOARD)							
		BL-W	W-BL	O-W	W-O	BL-V	V-BL	O-V	V-O
On any Line	1A, 1A1, or 1A2	R*	T*	EB	H*	ER	ET	EB	EH

\* Terminal of line involved.

**Note:** To allow access to and operation of the exclusion switch plunger during headset operation, *handset* must be lifted and left off of its cradle. Returning handset to on-hook position cancels exclusion.

**TABLE D**  
**PICKUP — SIGNAL KEY CONVERSION**

CONVERTIBLE KEY OPTIONS	636A KEY LEADS							
	BR		Y-BR		S-R STRAP		BR-BK	
	REMOVE FROM	CONNECT TO	REMOVE FROM	CONNECT TO	REMOVE FROM	CONNECT TO	REMOVE FROM	CONNECT TO
HPPPPP		M		M		M		X
HPPPPS		M		M		M	X	SG
HPPPSS		M		M	M	SG		X
HPPSSS	M	X		M	M	SG		X
HPPP*P*S*	M	X		M	M	5H	X	SG
HPP*P*P*S*	M	X	M	X	M	5H	X	SG

\* Private or intercommunicating lines with signal key (converted 5th key) common to each line (Note 3).

- Notes 1:** Remove screw detail from each key plunger to be converted. Store screws by taping to faceplate.
- 2:** When using convertible keys for signaling, use S lead of keys involved for signal circuit and G lead for common signal ground.
- 3:** These pickup key options are used on private or intercom lines with the signal key common to each line. The signal key operates the signaling circuit of each line when the associated pickup key is depressed. Use S lead of 2nd, 3rd, and 4th pickup key as required and G lead for common signal ground.

SECTION 502-525-423

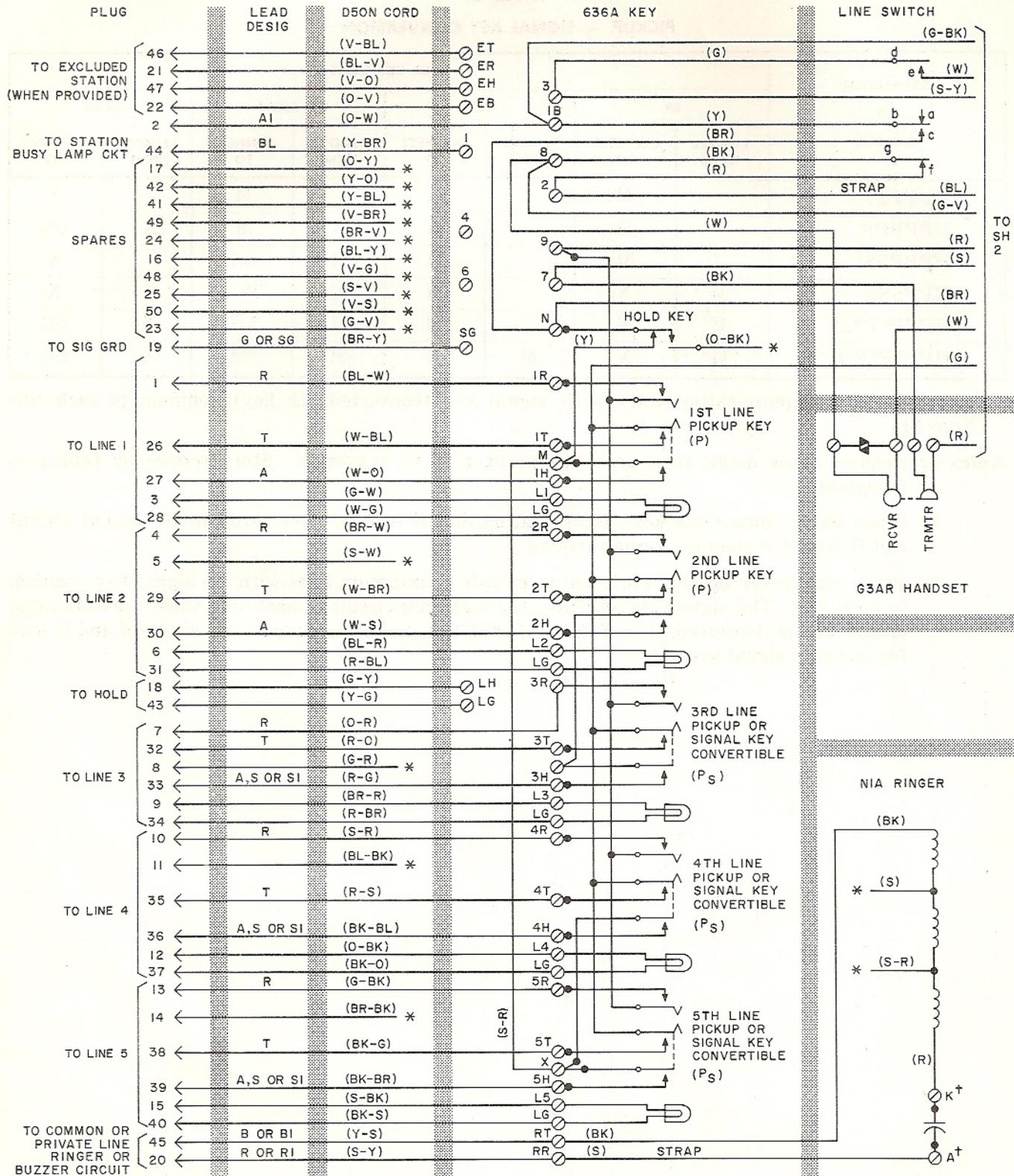


Fig. 1 - 1563HB Telephone Set Using 425G Network and 25W3 Dial, Connections (Sheet 1 of 2)

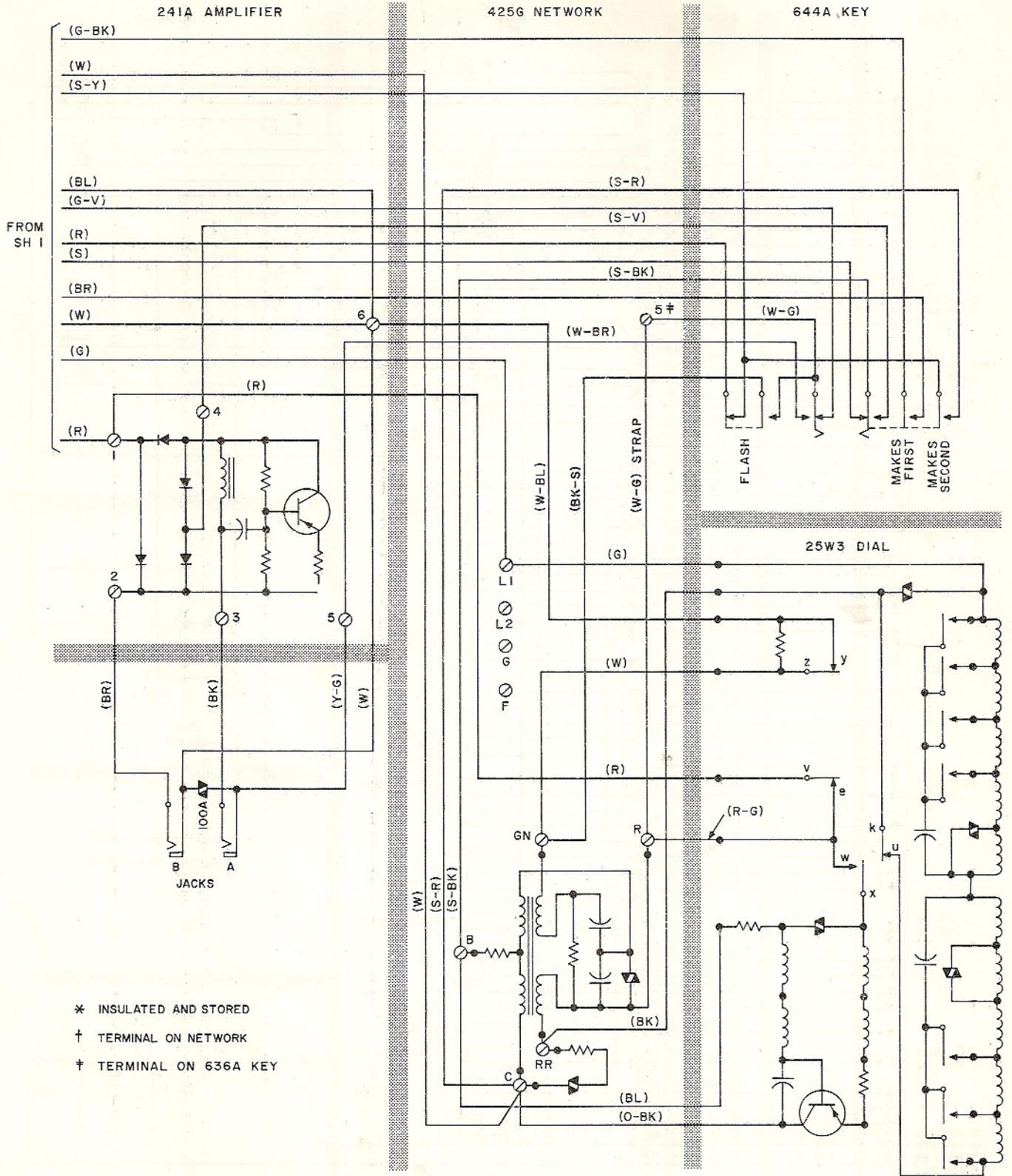


Fig. 1 — 1563HB Telephone Set Using 425G Network and 25W3 Dial, Connections (Sheet 2 of 2)



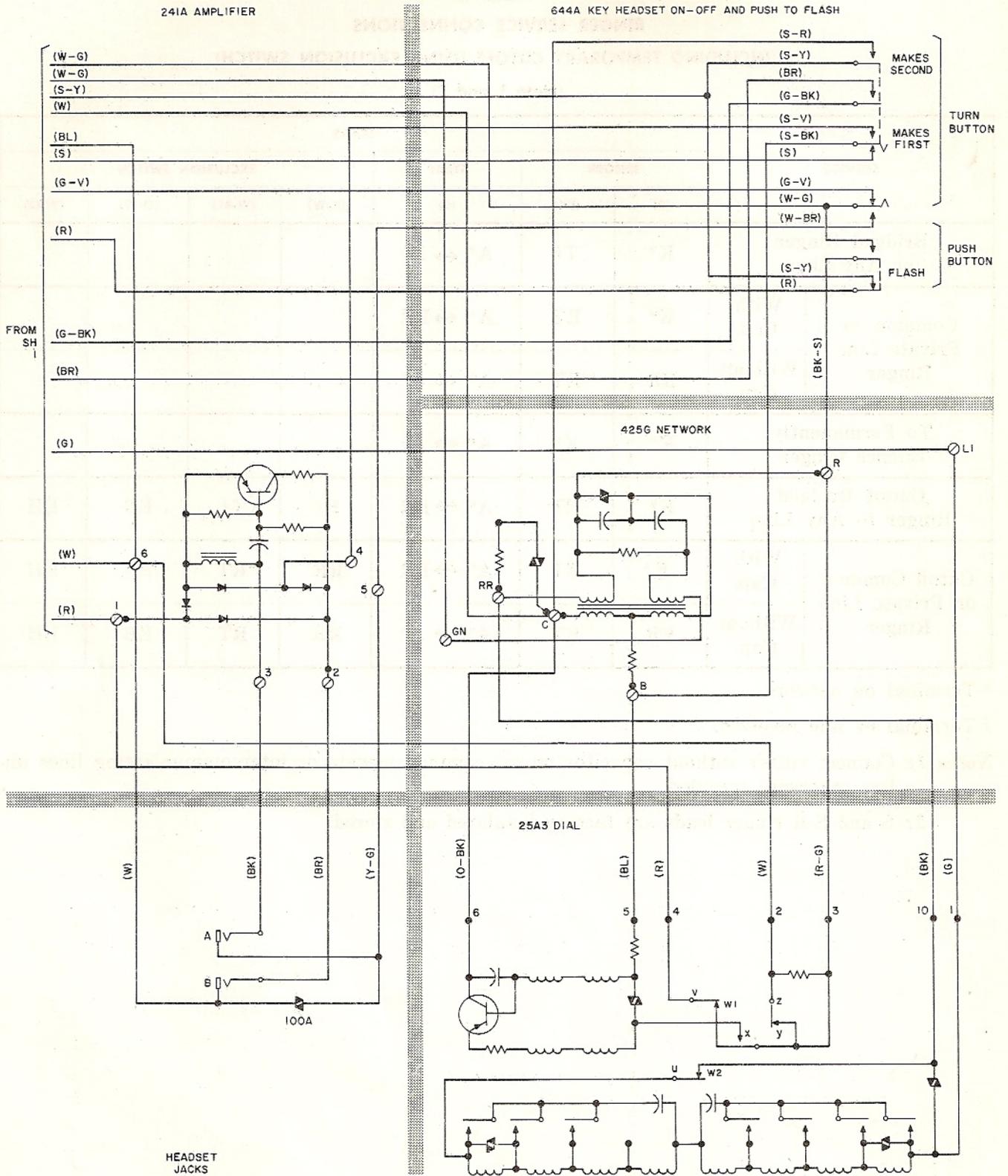


Fig. 2 — 1563HB Telephone Set Using 425G Network and 25A3 Dial, Connections (Sheet 2 of 2)

**TABLE E**  
**RINGER SERVICE CONNECTIONS**  
**(INCLUDING TEMPORARY CUTOFF USING EXCLUSION SWITCH)**  
**(Note 1 and 2)**

SERVICE		LEADS						
		RINGER		STRAP	EXCLUSION SWITCH			
		(R)	(BK)	(S)	(BL-W)	(W-BL)	(O-W)	(W-O)
Bridged Ringer on Any Line		K*	T†	A* ↔ R†				
Common or Private Line Ringer	With Cap.	K*	RT	A* ↔ RR				
	Without Cap.	RR	RT	A* ↔ A*				
To Permanently Silence Ringer		K*	K*	A* ↔ A*				
Cutoff Bridged Ringer to Any Line		K*	ET	A* ↔ ER	R†	T†	EB	EH
Cutoff Common or Private Line Ringer	With Cap.	K*	ET	A* ↔ ER	RR	RT	EB	EH
	Without Cap.	ER	ET	A* ↔ A*	RR	RT	EB	EH

\* Terminal on network.

† Terminal of line involved.

**Notes 1:** Connect ringer without capacitor on all common private or intercommunicating lines unless otherwise specified.

**2:** S and S-R ringer leads are factory insulated and stored.

**TABLE F**  
**CONDUCTOR ASSIGNMENT USING INSIDE WIRING CABLE WITH 66E-TYPE**  
**CONNECTING BLOCKS OR A25-TYPE CONNECTOR CABLE**

I/W CABLE OR A25B CONN. CABLE PAIR NO.	66E CONN. BLOCK		CONDUCTOR COLOR CABLE AND MTG CORD	PIN NO.	LEAD DESIG		TERM IN SET
	CLIP NO.	BLK. NO.			1A1 1A2	1A	
1	1	1	W-BL	26	T	T	1T
	2		BL-W	1	R	R	1R
2	3		W-O	27	A	H	1H
	4		O-W	2	A1	B	1B
3	5		W-G	28	LG	LG	LG
	6		G-W	3	L1	L1	L1
4	7		W-BR	29	T	T	2T
	8		BR-W	4	R	R	2R
5	9		W-S	30	A	H	2H
	10		S-W	5	Spare	B	*
6	11	2	R-BL	31	LG	LG	LG
	12		BL-R	6	L2	L2	L2'
7	13		R-O	32	T	T	3T
	14		O-R	7	R	R	3R
8	15		R-G	33	A, S, S1	H	3H
	16		G-R	8	Spare	B	*
9	17		R-BR	34	LG	LG	LG
	18		BR-R	9	L3	L3	L3
10	19		R-S	35	T	T	4T
	20		S-R	10	R	R	4R
11	21	3	BK-BL	36	A, S, S1	H	4H
	22		BL-BK	11	Spare	B	*
12	23		BK-O	37	LG	LG	LG
	24		O-BK	12	L4	L4	L4
13	25		BK-G	38	T	T	5T
	26		G-BK	13	R	R	5R
14	27		BK-BR	39	A, S, S1	H	5H
	28		BR-BK	14	Spare	B	*
15	29		BK-S	40	LG	LG	LG
	30		S-BK	15	L5	L5	L5
16	31	4	Y-BL	41	Spare	Spare	*
	32		BL-Y	16	Spare	Spare	*
17	33		Y-O	42	Spare	Spare	*
	34		O-Y	17	Spare	Spare	*
18	35		Y-G	43	LG	LG	LG
	36		G-Y	18	LH	LH	LH
19	37		Y-BR	44	BL	BL	1
	38		BR-Y	19	G or SG	G or SG	SG
20	39		Y-S	45	B or B1	B or B1	RT
	40		S-Y	20	R or R1	R or R1	RR
21	41	5	V-BL	46	T	T	ET
	42		BL-V	21	R	R	ER
22	43		V-O	47	A	H	EH
	44		O-V	22	B	B	EB
23	45		V-G	48	Spare	Spare	*
	46		G-V	23	Spare	Spare	*
24	47		V-BR	49	Spare	Spare	*
	48		BR-V	24	Spare	Spare	*
25	49		V-S	50	Spare	Spare	*
	50		S-V	25	Spare	Spare	*

\* Insulated and stored.