

TELEPHONE SETS

564HDR

COMMON BATTERY — CONNECTIONS

1.00 GENERAL

1.01 This section is reissued to:

- Show the black and red ringer leads wired to the RR and RT terminals.
- Change Table B.
- Include information identifying the 565HDR telephone sets wired with the ringer leads on the RR and RT terminals.

1.02 The 564HDR telephone set is equivalent to the 564HBR telephone set but is equipped with a plug-ended (D30B) mounting cord.

1.03 The 6-button F-53149 telephone set was a predecessor, in limited quantities, of the 564HDR set.



*Due to extensive mounting cord connection changes in the 564HDR telephone set as compared with the F-53149 telephone set, the two sets are **not** electrically interchangeable unless the A25B connector cable pairs are rearranged at the relay equipment or distribution terminals (see Tables D and E).*

1.04 The 564HDR telephone set is arranged so that cabling connections are made in sequence by cable pair and color code. Features are provided on a per-button basis: tip, ring, A1 (or balance), A (or hold), lamp ground and ground for lines 1 through 5, with miscellaneous circuits following at the end of the cable-pair count (see Table E).

1.05 Telephone sets wired with the black and red ringer leads on the RT and RR terminals will have a (+) sign after the code number on the base of the set.

2.00 CONNECTIONS

2.01 The 564HDR telephone set is shop-wired for use with 1A1 key systems. Conversion tables used in conjunction with Fig. 1 are for rearrangement for various applications. The information notes should be used in determining the methods of connection.

2.02 Where external services are required at 564HDR set locations and access to cable pair leads supplying such auxiliary service at the connector is desired, a 148A or 149A adapter may be employed. See sections covering 148A and 149A adapters.

TABLE A OF FIG. 1, 101, AND 102

1A and 1A1 System Conversion — Station Busy-Signal Connections — Connection of Hold Key and Switch Leads — See Note 5 and Fig. 101 and 102							
Option	Key Tel Sys	Switchhook Leads			Hold Key		M1W Cord
		SL-W	SL-GN	SL-Y	Y	Y-BK	
No Station Busy Lamp	1A	1B	1B	N	R	M	
	1A1	1B	N	R	M	N	
With Station Busy Lamp (See Note 5)	1A	SG	L2*	N	R	M	G* to N
	1A1	1B	L2*	R	M	N	

* Terminal on network.

TABLE B OF FIG. 1

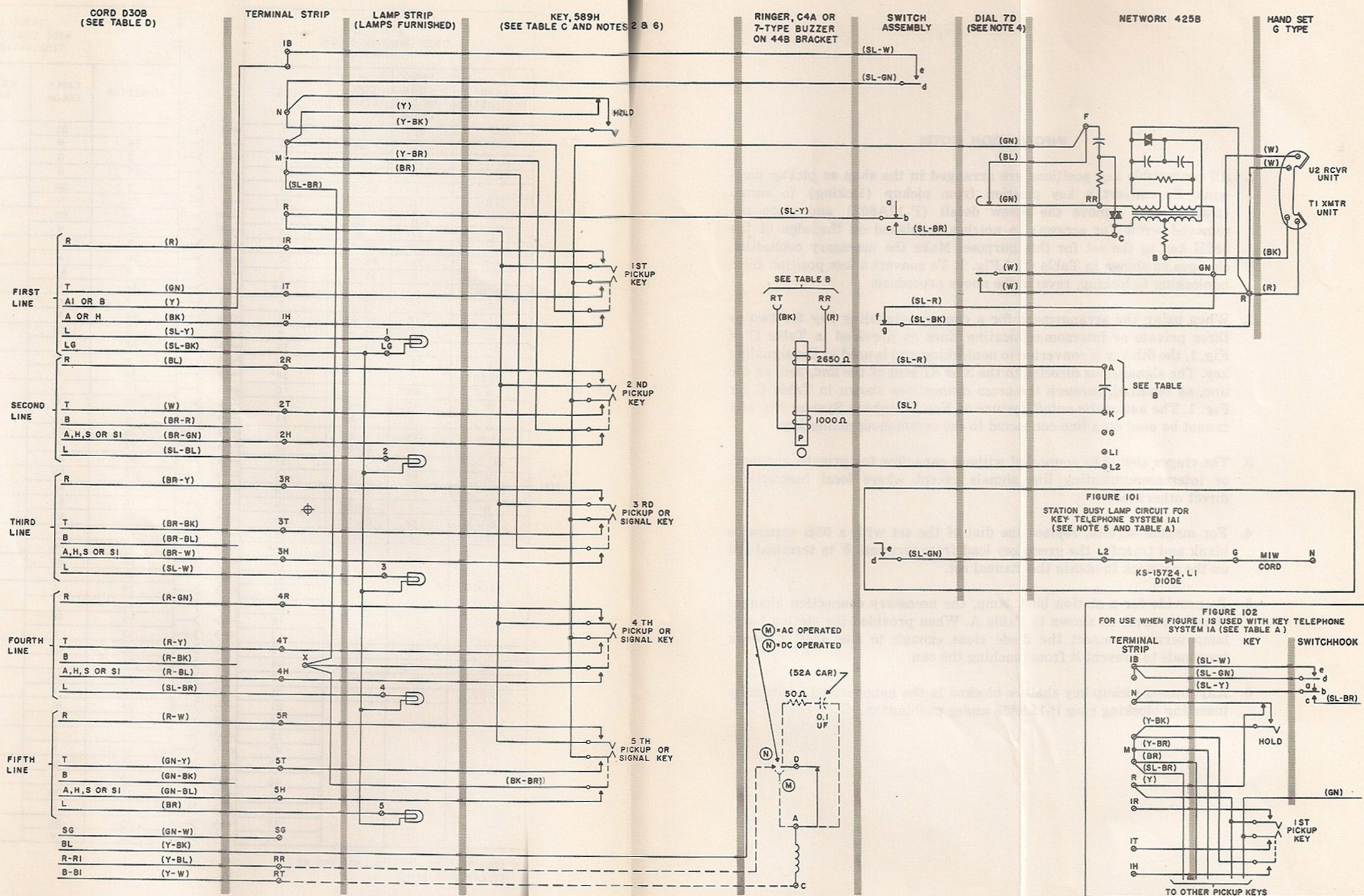
Ringer or Buzzer Connections					
Option		Ringer or Buzzer Lead			
		SL-R	SL	BK	R
When used as bridged ringer on any one line†		A	K	RT	RR
When used as private line, common sig, or other use (See Note 3)	with capacitor	A	K		
	without capacitor	A	A		
Set ringer not used‡		A	K		

† Connect cable pair associated with the ringer leads to the desired line at distribution terminal.

‡ Do not terminate associated cable pair at distribution terminal when ringer is not used.

TABLE C OF FIG. 1

Pickup — Signal Conversion — Convert from Locking to Nonlocking or Vice Versa — See Note 1 and Change Leads as Follows:						
Total Number of Keys			Key Leads			
Pickup Keys	Sig Keys Converted from Pickup Keys	Private and Intercommunicating Lines with Common Sig Key	Y-BR	BR	SL-BR	BK-BR
5			M	M	M	X
4	1		M	M	M	SG
3	2		M	M	SG	X
2	3		M	X	SG	X
4	1	2	M	X	5H	SG
4	1	3	X	X	5H	SG



**Fig. 1 — Key Telephone Sets,
Common Battery Connections**

INFORMATION NOTES

1. All convertible key positions are arranged in the shop as pickup positions. To convert a key position from pickup (locking) to signal (nonlocking), remove the screw detail (P-12A892) and store the removed screw (or screws) in notches furnished on the edge of the 589H key in the set for this purpose. Make the necessary connection changes as shown in Table C of Fig. 1. To convert a key position from nonlocking to locking, reverse the above procedure.
2. When using the arrangement for a common-signaling key for two or three private or intercommunicating lines as provided in Table C of Fig. 1, the 6th key is converted to nonlocking and is used as the signaling key. The signaling is directed to the S or S1 lead of the 2nd, 3rd, or 4th line, as required, through the cross connections shown in Table C for Fig. 1. The automatic-cutoff feature of Key Telephone System No. 1A1 cannot be used on a line connected to the common-signaling key.
3. The ringer should be connected without capacitor for private, common, or intercommunicating line signals except where local instructions direct otherwise.
4. For manual service, replace the dial of the set with a 95B apparatus blank and transfer the green key lead from terminal F to terminal RR on the network to obtain the manual set.
5. To provide for a station busy lamp, the necessary connection changes should be made as shown in Table A. When provided for station busy-lamp service, connect the diode close enough to the 425B network terminals to prevent it from touching the can.
6. Any unused pickup key shall be blocked in the nonoperated position by inserting blocking ring P-12A858 under pushbutton.

TABLE D D30B (MOUNTING) CORD TERMINATION			
LEAD DESIGNATION	TERM. STRIP ON KEY ASSEM	CORD COLOR	PLUG
R	1R	R	1
T	1T	GN	26
A1-B	1B	Y	2
A-H	1H	BK	27
L	1	SL-Y	3
LG	LG	SL-BK	28*
R	2R	BL	4
T	2T	W	29
B	†	BR-R	5
A-H	2H	BR-GN	30
L	2	SL-BL	6
VACANT			31*
R	3R	BR-Y	7
T	3T	BR-BK	32
B	†	BR-BL	8
A-H	3H	BR-W	33
L	3	SL-W	9
VACANT			34*
R	4R	R-G	10
T	4T	R-Y	35
B	†	R-BK	11
A-H	4H	R-BL	36
L	4	SL-BR	12
VACANT			37*
R	5R	R-W	13
T	5T	GN-Y	38
B	†	GN-BK	14
A-H	5H	GN-BL	39
L	5	BR	15
VACANT			40*
			16
			41
			17
			42
SG	SG	GN-W	43
			19
			44
			20
			45
BL	L2‡	Y-BK	44
R-RI	RR	Y-BL	20
B-BI	RT	Y-W	45
VACANT			21
			46
			22
			47
			23
			48
			24
			49
			25
			50

←See
Notes

TABLE E A25B CONNECTOR TERMINATION					
CONNECTOR	CABLE COLOR	CABLE PAIR	LEAD DESIGNATION	TO	
1	BL	1	R	DISTRIBUTION TERMINAL OR APPARATUS CABINET	
26	W		T		
2	O	2	A1-B		
27	W		A-H		
3	GN	3	L		
28	W		LG		
4	BR	4	R		
29	W		T		
5	SL	5	B		
30	W		A-H		
6	BL	6	L		
31	R		LG		
7	O	7	R		
32	R		T		
8	GN	8	B		
33	R		A-H		
9	BR	9	L		
34	R		LG		
10	SL	10	R		
35	R		T		
11	BL	11	B		
36	BK		A-H		
12	O	12	L		
37	BK		LG		
13	GN	13	R		
38	BK		T		
14	BR	14	B		
39	BK		A-H		
15	SL	15	L		
40	BK		LG		
16	BL	16	SPARE		
41	Y				
17	O	17			
42	Y				
18	GN	18	SPARE		
43	Y				
19	BR	19			SG
44	Y				BL
20	SL	20	R-RI		
45	Y		B-BI		
21	BL	21	SPARE		
46	V				
22	O	22			
47	V				
23	GN	23			
48	V				
24	BR	24			
49	V				
25	SL	25			
50	V				

* TERMINALS 28, 31, 34, 37, AND 40
STRAPPED IN PLUG.

† LEADS TAPED AND STORED UNDER
TERMINAL PLATE OF KEY.

‡ TERMINAL ON NETWORK.