

SERVICE

1664-TYPE TELEPHONE SETS

1. GENERAL

1.01 These sets are supplied factory-wired as 1664A1 or 1664B1 (MD) sets only. For conversion to 1664A2, 1664A3, 1664B2, or 1664B3 (MD) code the appropriate key unit (Fig. 1 or 2) must be ordered and installed separately. To provide for headset operation, a 242B amplifier is supplied with each set. A 52- or 53-type headset must be ordered separately.

1.02 Connection information contained in this section was formerly found in Section 502-660-414 which will be canceled.

TABLE A

POLARITY GUARD CONNECTIONS
(P-90D095 GUARD ASSEMBLY 1664A-TYPE)
(P-90D012 GUARD ASSEMBLY 1664B-TYPE)

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

* MD color code 1664A type telephone set.

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

() Current color code.

[] MD color code.

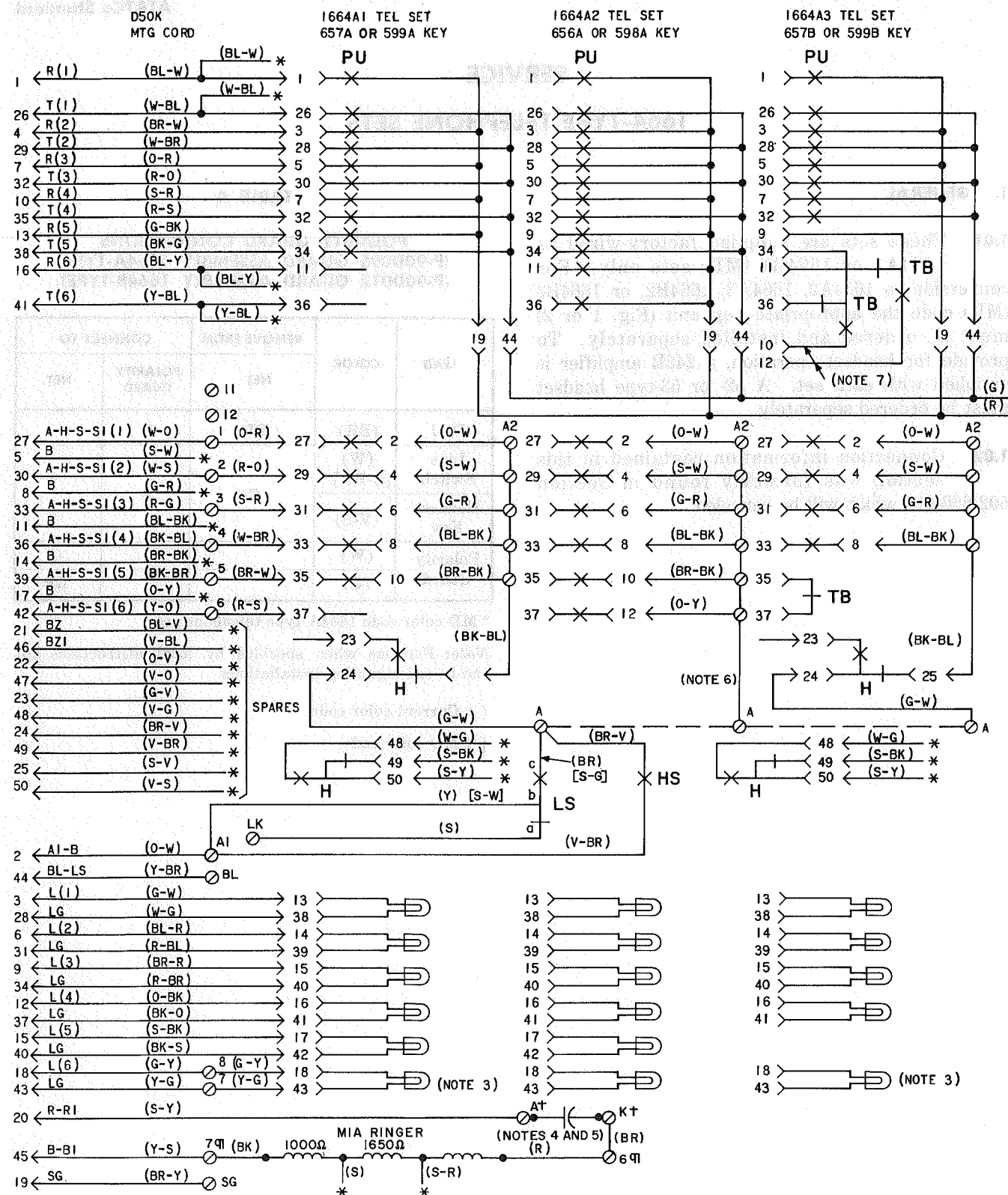


Fig. 1—1664A (MD) Telephone Set Connections (Sheet 1 of 2)

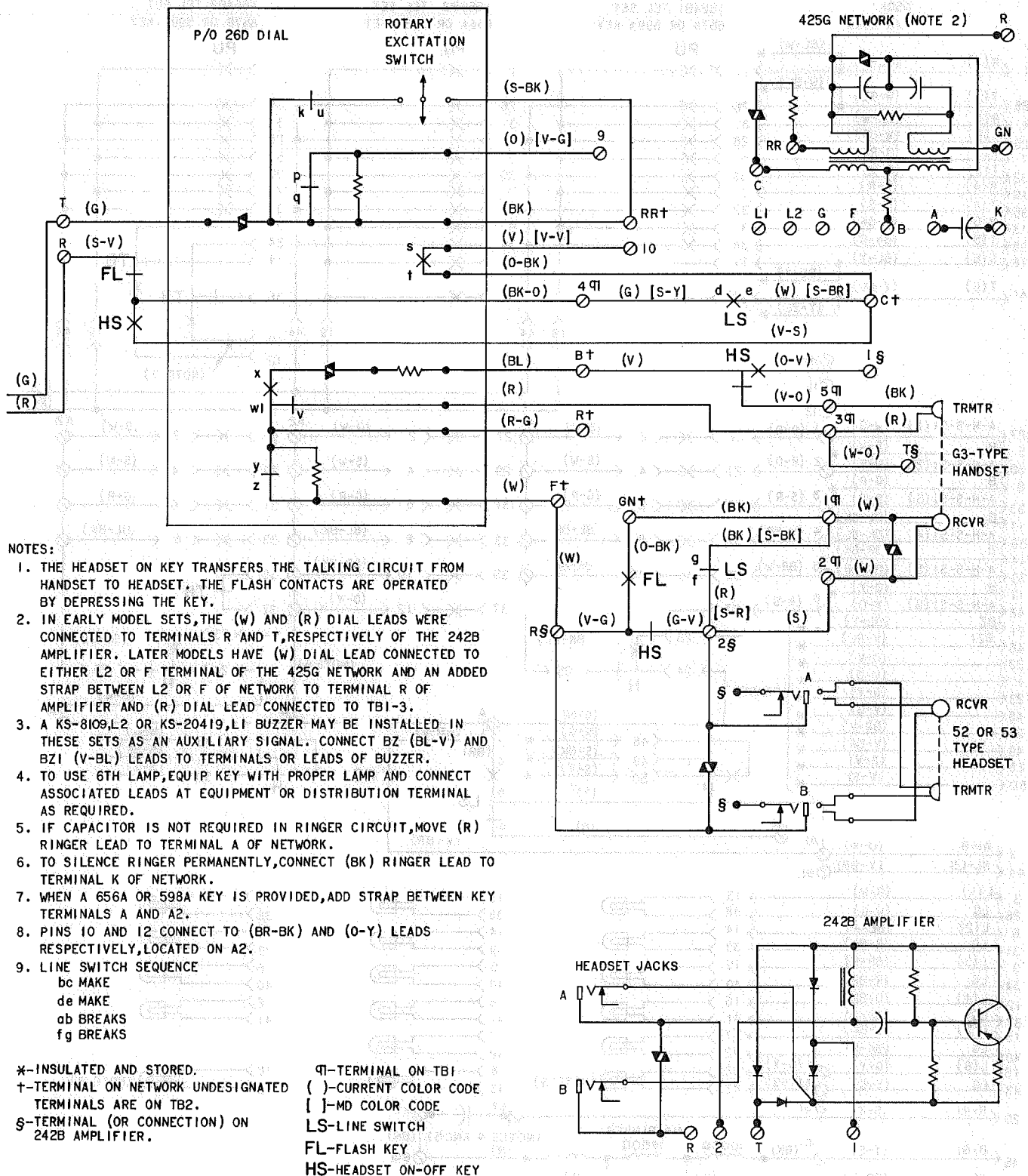


Fig. 1—1664A (MD) Telephone Set Connections (Sheet 2 of 2)

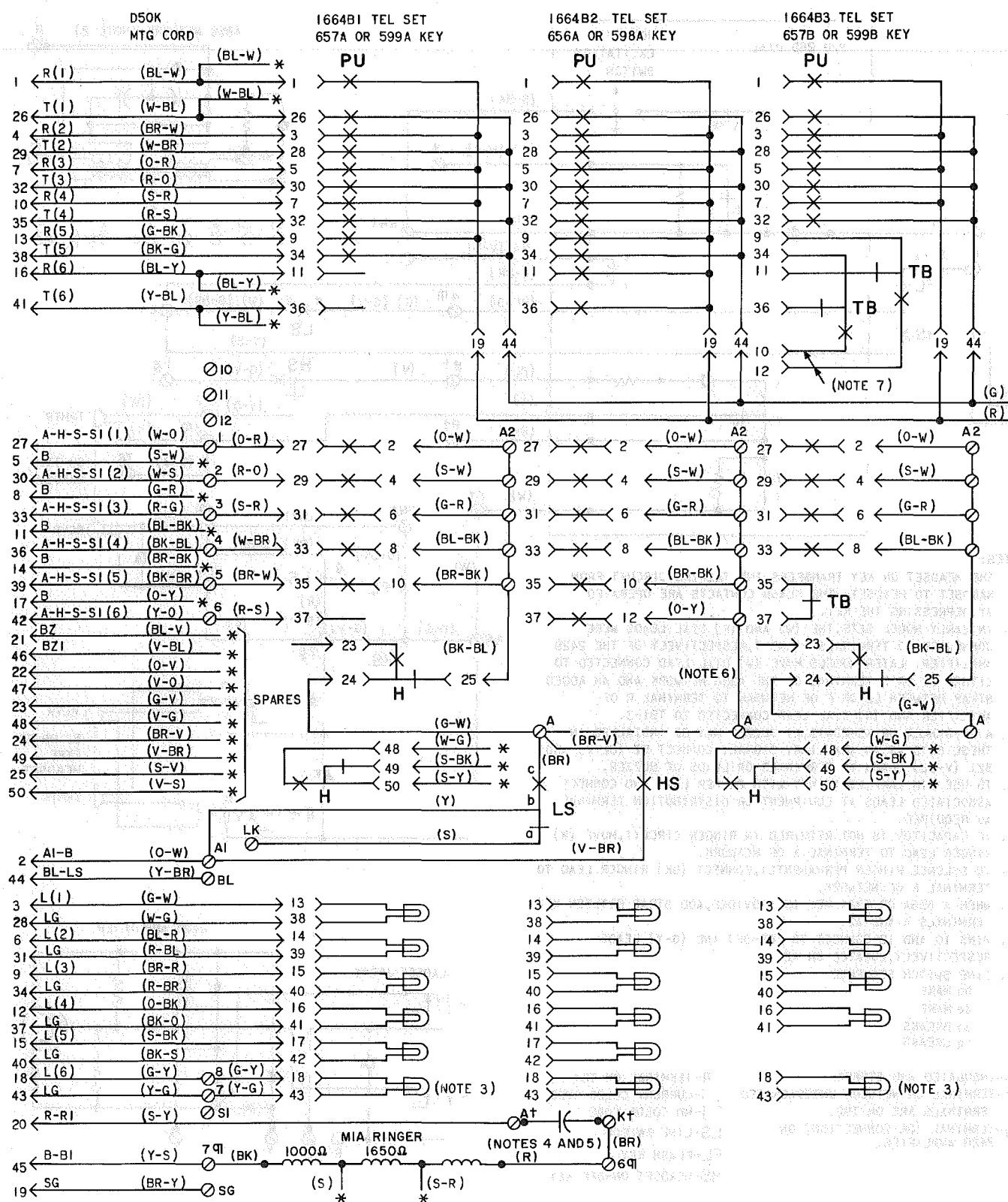


Fig. 2—1664B (MD) Telephone Set Connections (Sheet 1 of 2)

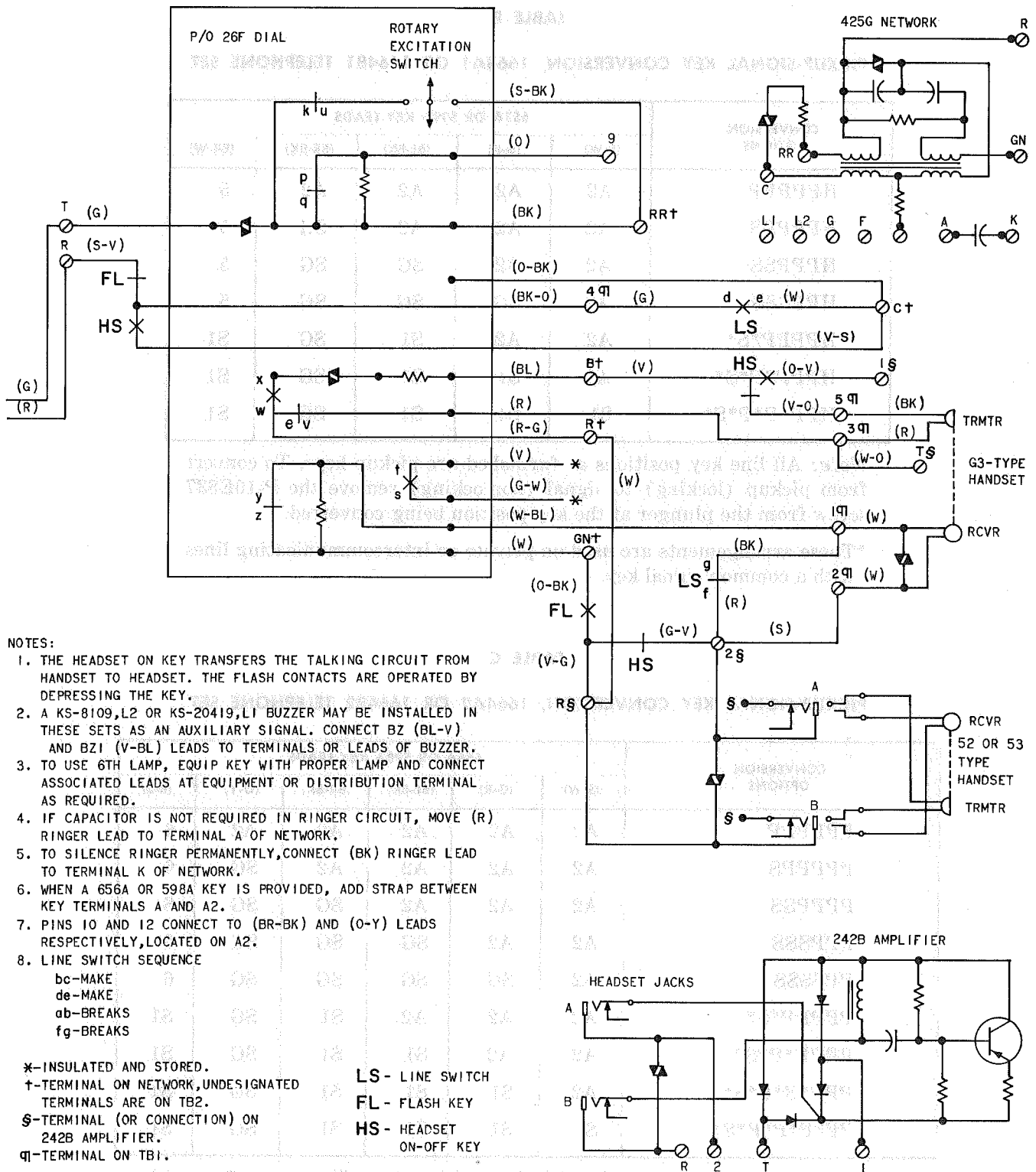


Fig. 2—1664B (MD) Telephone Set Connections (Sheet 2 of 2)

TABLE B

PICKUP-SIGNAL KEY CONVERSION, 1664A1 OR 1664B1 TELEPHONE SET

CONVERSION OPTIONS	657A OR 599A KEY LEADS				
	(S-W)	(G-R)	(BL-BK)	(BR-BK)	(BR-W)
HPPPPP	A2	A2	A2	A2	5
HPPPPS	A2	A2	A2	SG	5
HPPPSS	A2	A2	SG	SG	5
HPPSSS	A2	SG	SG	SG	5
HPPPP*S*	A2	A2	S1	SG	S1
HPPP*P*S*	A2	S1	S1	SG	S1
HPP*P*P*S*	S1	S1	S1	SG	S1

Note: All line key positions as furnished are pickup keys. To convert from pickup (locking) to signal (nonlocking) remove the P-10E837 screw from the plunger at the key position being converted.

*These arrangements are used on private or intercommunicating lines with a common signal key.

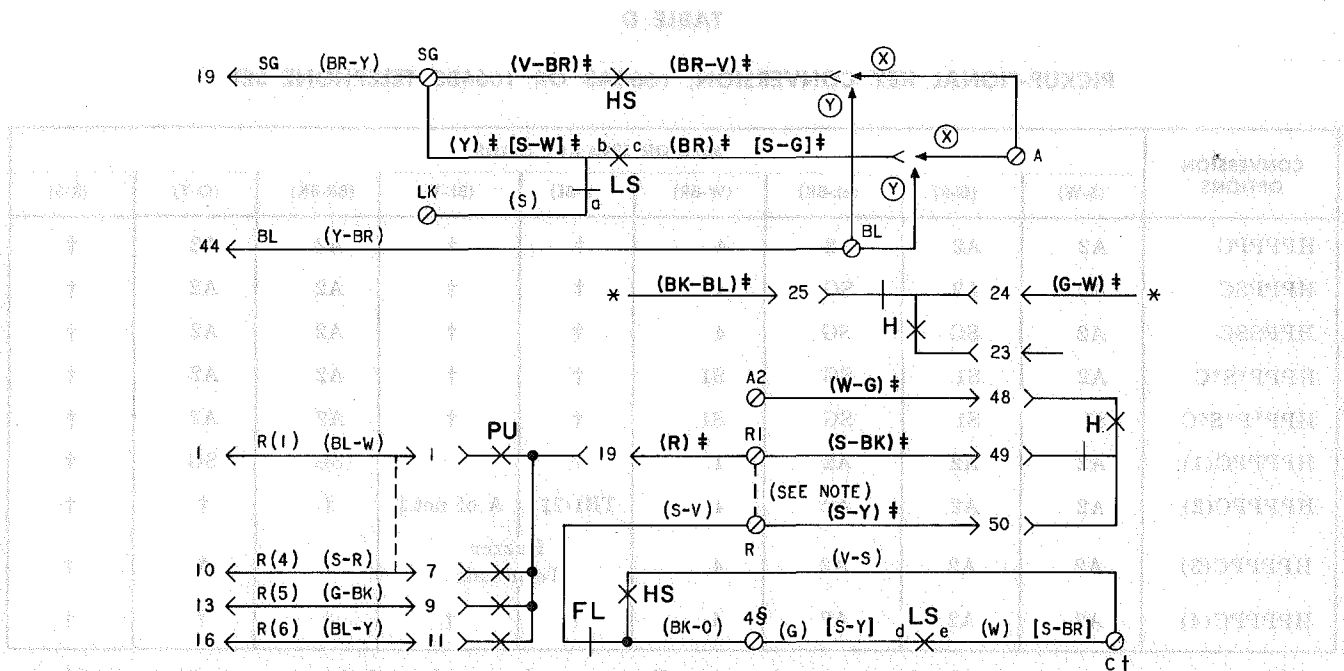
TABLE C

PICKUP-SIGNAL KEY CONVERSION, 1664A2 OR 1664B2 TELEPHONE SET

CONVERSION OPTIONS	656A OR 598A KEY LEADS					
	(S-W)	(G-R)	(BL-BK)	(BR-BK)	(O-Y)	(R-S)
PPPPPP	A2	A2	A2	A2	A2	6
PPPPPS	A2	A2	A2	A2	SG	6
PPPPSS	A2	A2	A2	SG	SG	6
PPPSSS	A2	A2	SG	SG	SG	6
PPSSSS	A2	SG	SG	SG	SG	6
PPPPPP*S*	A2	A2	A2	S1	SG	S1
PPPP*P*S*	A2	A2	S1	S1	SG	S1
PPP*P*P*S*	A2	S1	S1	S1	SG	S1
PP*P*P*P*S*	S1	S1	S1	S1	SG	S1

Note: All line key positions as furnished are pickup keys. To convert from pickup (locking) to signal (nonlocking) remove the P-10E837 screw from the plunger at the key position being converted.

*These arrangements are used on private or intercommunicating lines with a common signal key.



NOTE:

IF 656A OR 598A KEY IS PROVIDED, ADD STRAP BETWEEN TERMINALS R AND RI.

- H - HOLD KEY
- FL - FLASH KEY
- HS - HEADSET ON-OFF KEY
- LS - LINE SWITCH
- ⊗ - WITHOUT BUSY LAMP
- ⊙ - WITH BUSY LAMP
- * - INSULATED AND STORED
- † - NETWORK TERMINAL, UNDESIGNATED TERMINALS ARE ON TB2
- ‡ - LEADS INVOLVED IN MODIFICATION
- § - TERMINAL ON TBI
- () - CURRENT COLOR CODE
- [] - MD COLOR CODE

Fig. 3—1664-Type Telephone Set Connections for 1A KTS—With or Without Station Busy Lamp

TABLE D
PICKUP-SIGNAL KEY CONVERSION, 1664A3 OR 1664B3 TELEPHONE SET

CONVERSION OPTIONS	657B OR 599B KEY LEADS								
	(S-W)	(G-R)	(BL-BK)	(W-BR)	(Y-BL)	(BL-Y)	(BR-BK)	(O-Y)	(R-S)
HPPPPC	A2	A2	A2	4	†	†	A2	A2	†
HPPFSC	A2	A2	SG	4	†	†	A2	A2	†
HPPSSC	A2	SG	SG	4	†	†	A2	A2	†
HPPP*S*C	A2	S1	SG	S1	†	†	A2	A2	†
HPP*P*S*C	S1	S1	SG	S1	†	†	A2	A2	†
HPPPPC(1)	A2	A2	A2	4	†	†	SG	SG	†
HPPPPC(2)	A2	A2	A2	4	TB1-7†	A of net.†	†	†	†
HPPPPC(3)	A2	A2	A2	4	Buzzer Terminals		†	†	†
HPPPPC(4)	A2	A2	A2	4	†	†	†	†	†

Note: All line key positions as furnished are pickup keys. To convert from pickup (locking) to signal (nonlocking) remove the P-10E837 screw from the plunger at the key position being converted.

*These arrangements are used on private or intercommunicating lines with a common signal key.

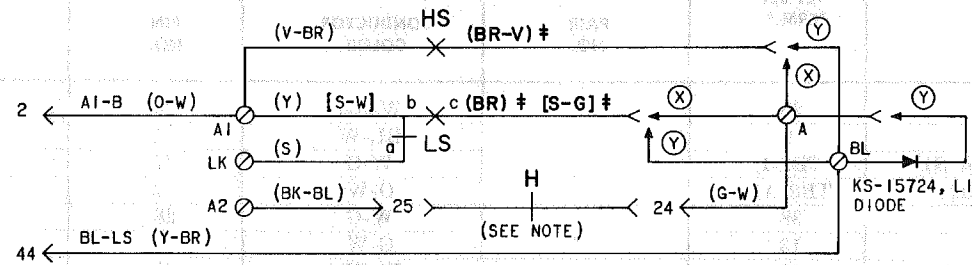
†Insulate and store.

‡Remove mounting cord (S-Y) (Y-S) leads, insulate and store.

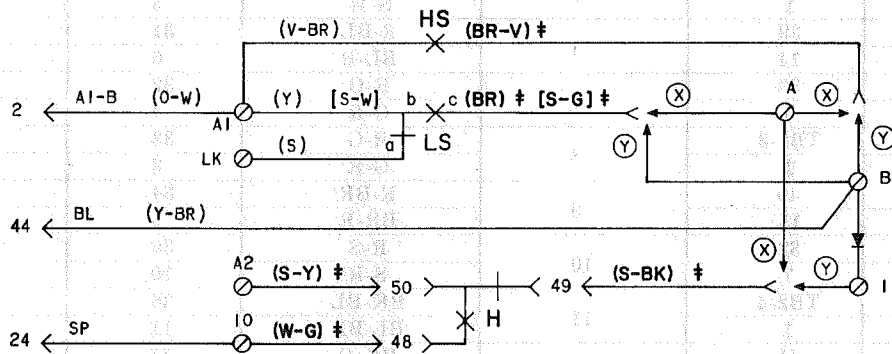
Turnbutton used to:

- (1) Operate auxiliary relay [through 5th R and T (G-BK) (BK-G) pair].
- (2) Cutoff ringer in set.
- (3) Cutoff buzzer set.
- (4) Cutoff external audible signal [Connect 5th R and T (G-BK) (BK-G) pair to signal circuit; connect 6th R and T (Y-BL) (BL-Y) pair to external signal].

TABLE 2
CONNECTION ASSIGNMENTS USING 1664-TYPE CONNECTOR BLOCK OR 1664-TYPE CONNECTOR CABLE



A. WITHOUT I HOLD



B. WITH I HOLD

NOTE:

WHEN 656A OR 598A KEY IS PROVIDED, ADD STRAP BETWEEN TERMINALS A AND A2.

H - HOLD KEY

HS - HEADSET ON-OFF KEY

LS - LINE SWITCH

⊗ - WITHOUT BUSY LAMP

⊙ - WITH BUSY LAMP

‡ - LEADS INVOLVED IN MODIFICATION

() - CURRENT COLOR CODE

[] - MD COLOR CODE

Fig. 4—1664-Type Telephone Set Connections for 1A1 or 1A2 KTS—I Hold and/or Station Busy Lamp

TABLE E

CONDUCTOR ASSIGNMENTS USING 66E-TYPE CONNECTOR BLOCK OR A25B CONNECTOR CABLE

LEAD DESIG	TEL SET TERM.*	MTG CORD OR A25B CONN CABLE		PLUG OR CONN	66E-TYPE CONN BLOCK
		PAIR NO.	CONDUCTOR COLOR	PIN NO.	CLIP TERM. NO.
T	26	1	W-BL	26	1
R	1		BL-W	1	2
A, H, S, or S1	TB2-1	2	W-O	27	3
A1 or B†	TB2-A1		O-W	2	4
LG	38	3	W-G	28	5
L1	13		G-W	3	6
T	28	4	W-BR	29	7
R	3		BR-W	4	8
A, H, S, or S1	TB2-2	5	W-S	30	9
Spare or B†	‡		S-W	5	10
LG	39	6	R-BL	31	11
L2	14		BL-R	6	12
T	30	7	R-O	32	13
R	5		O-R	7	14
A, H, S, or S1	TB2-3	8	R-G	33	15
Spare or B†	‡		G-R	8	16
LG	40	9	R-BR	34	17
L3	15		BR-R	9	18
T	32	10	R-S	35	19
R	7		S-R	10	20
A, H, S, or S1	TB2-4	11	BK-BL	36	21
Spare or B†	‡		BL-BK	11	22
LG	41	12	BK-O	37	23
L4	16		O-BK	12	24
T	34	13	BK-G	38	25
R	9		G-BK	13	26
A, H, S, or S1	TB2-5	14	BK-BR	39	27
Spare or B†	‡		BR-BK	14	28
LG	42	15	BK-S	40	29
L5	17		S-BK	15	30
T	36	16	Y-BL	41	31
R	11		BL-Y	16	32
A, H, S, or S1	TB2-6	17	Y-O	42	33
Spare or B†	‡		O-Y	17	34
LG	TB2-7	18	Y-G	43	35
L6	TB2-8		G-Y	18	36
BL or LS	TB2-BL	19	Y-BR	44	37
SG	TB2-SG		BR-Y	19	38
B or B1	TB1-7	20	Y-S	45	39
R or R1	A of net		S-Y	20	40
Spare or BZ1	‡	21	V-BL	46	41
Spare or BZ	‡		BL-V	21	42
Spare	‡	22	V-O	47	43
Spare	‡		O-V	22	44
Spare	‡	23	V-G	48	45
Spare	‡		G-V	23	46
Spare	‡	24	V-BR	49	47
Spare	‡		BR-V	24	48
Spare	‡	25	V-S	50	49
Spare	‡		S-V	25	50

*Contacts of key plug unless otherwise noted.

†When set is used in 1A key telephone system, these balance leads must not be used for other purposes.

‡Insulate and store.