

## SPEAKERPHONE SYSTEMS — 3-TYPE

### 1662-TYPE TELEPHONE SET

#### CONNECTIONS

#### 1. GENERAL

**1.01** This section replaces the speakerphone connection information formerly found in Section 512-620-404, Issue 2 which is canceled. Information on the new 1662-type telephone set is included.

#### 2. CONNECTION INDEX

Table A — Telephone Set Connections for 3-Type Speakerphone for 1A or 1A1 and 1A2 Key Telephone Systems

Table B — Polarity Guard Connections

Table C — Conductor Assignments using 66E-Type Connector Block

Fig. 1 — 1662A Telephone Set — Wired for Speakerphone

Fig. 2 — 1662B Telephone Set — Wired for Speakerphone

Fig. 3 — 1662-Type Telephone Set Connections for 3-Type Speakerphone



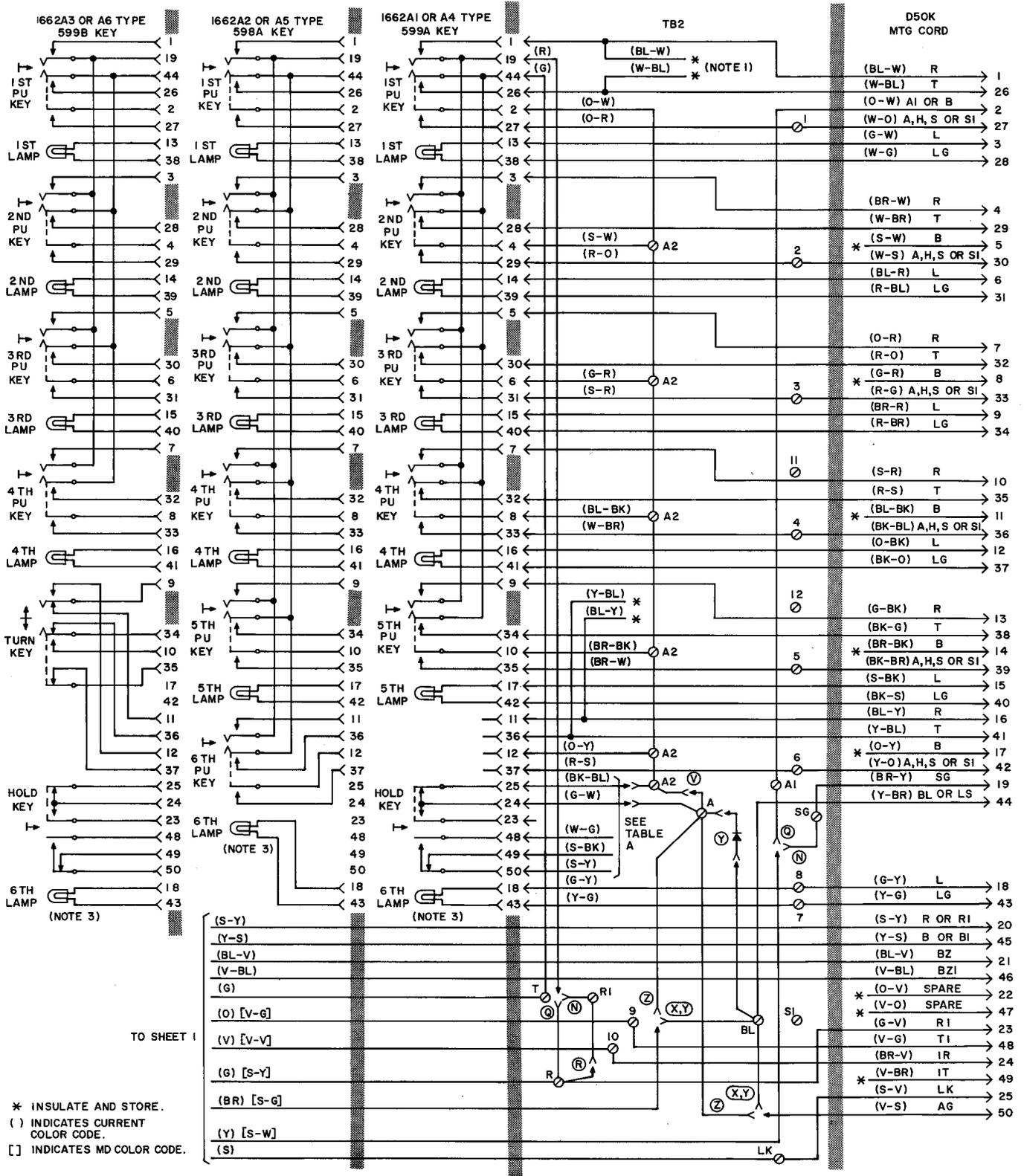
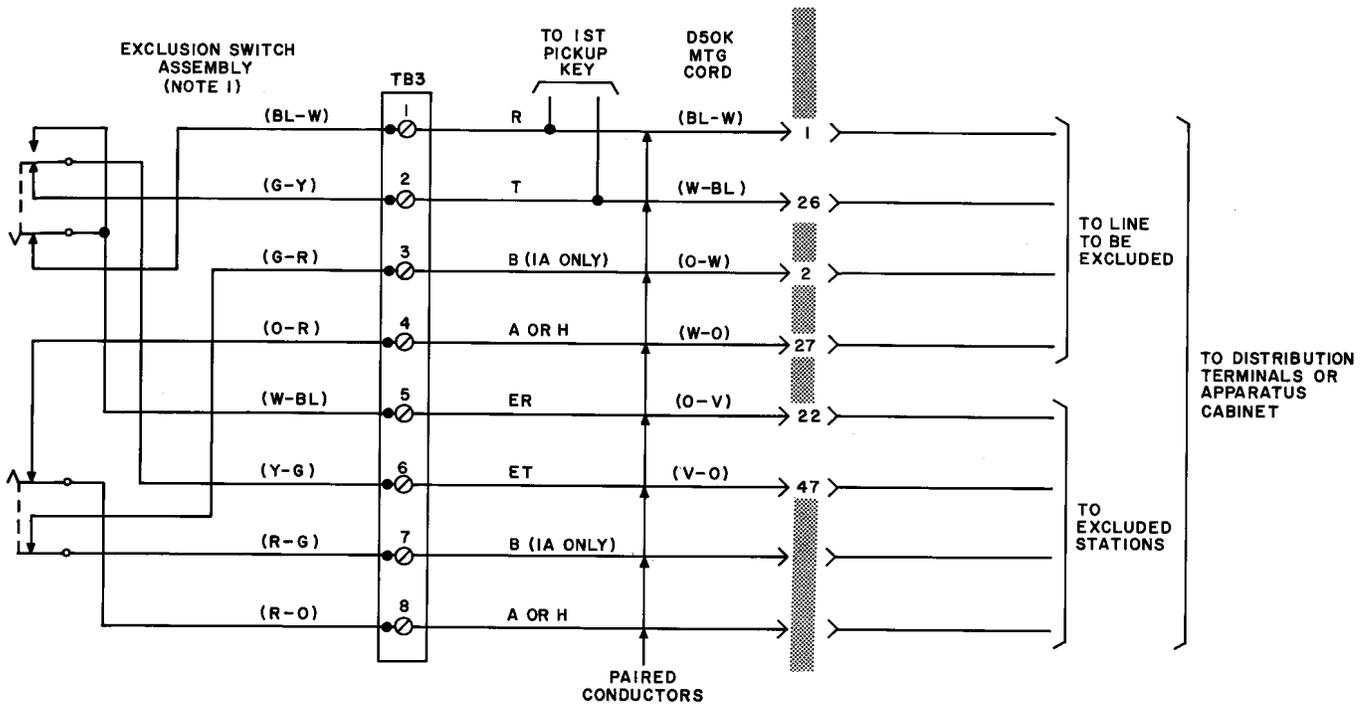


Fig. 1 - 1662A Type Telephone Set Wired for Speakerphone (Sheet 2 of 3)

SECTION 512-621-462



NOTES:

1. WHEN EXCLUSION FEATURE IS DESIRED, CONNECT EXCLUSION SWITCH TO STATIONS BY MEANS OF CORD CONDUCTORS NOT IN USE FOR OTHER FUNCTIONS. WHEN EXCLUSION SWITCH IS CONNECTED TO IA KEY TELEPHONE SYSTEM, THE H AND B LEADS MUST BE PAIRED. WHEN CONNECTED TO IA1 OR IA2 KEY TELEPHONE SYSTEM, THE A LEADS MAY BE CONNECTED TO PAIRED OR NONPAIRED CONDUCTORS.
2. WHEN KS-8109 TYPE BUZZER IS PROVIDED, CONNECT BZ (BL-V) AND BZ1 (V-BL) TO TERMINALS OF BUZZER. BE SURE BUZZER IS INSULATED FROM BASE OF SET.
3. TO USE 6TH LAMP, EQUIP KEY WITH PROPER LAMP AND CONNECT ASSOCIATED LEADS AT EQUIPMENT OR DISTRIBUTION TERMINAL AS REQUIRED.

LEGEND:

- (M) AC OPERATION
- (W) DC OPERATION
- (N) IA KEY TELEPHONE SYSTEM
- (X) IA WITH BUSY LAMP
- (R) IA WITHOUT HOLD KEY, (598A KEY)
- (Q) IA1 AND IA2 KEY TELEPHONE SYSTEMS
- (Y) IA1 AND IA2 WITH STATION BUSY LAMP (KS-15724, LI DIODE)
- (Z) IA1 AND IA2 WITHOUT STATION BUSY LAMP
- (V) IA1 AND IA2 WITHOUT HOLD KEY, (598A KEY)

Fig. 1 — 1662A Type Telephone Set Wired for Speakerphone (Sheet 3 of 3)

TABLE A

TELEPHONE SET CONNECTIONS FOR 3-TYPE SPEAKERPHONE FOR 1A OR  
1A1 AND 1A2 KEY TELEPHONE SYSTEMS

		LEAD COLOR	KEY TELEPHONE SYSTEM			
			WITHOUT STATION BUSY LAMP		WITH STATION BUSY LAMP	
			1A1 AND 1A2	1A	1A1 AND 1A2	1A
Leads	Switch Hook	[S-W] (Y)	A1	SG	A1	SG
		[S-G] (BR)	A	A	BL	BL
	Key	(R)	R	R1	R	R1
		(BK-BL)	A2	*	A2	*
		(G-W)	A	*	A	*
		(W-G)	*	A2	*	A2
		(S-BK)	*	R1	*	R1
		(S-Y)	*	R	*	R
	Mtg. Cord	(G-V)	R	R	R	R
		(V-G)	9	9	9	9
		(BR-V)	10	10	10	10
		(V-BR)	*	*	*	*
		(S-V)	LK	LK	LK	LK
		(V-S)	A	A	BL	BL
	Without Hold (598A Key) Add Strap			A2 to A	R to R1	A2 to A
Diode KS-15724, L1					A to B6	

\* Insulate and store

**Note:** All terminal designations are on TB-2

TABLE B

## POLARITY GUARD CONNECTIONS

	TEL SET LEADS			POLARITY GUARD LEADS	
	1662A TYPE (W)[S-BR] SWITCH HOOK	1662B TYPE (W) SWITCH HOOK (G-W) DIAL	(BK) DIAL	(W)	(G)
REMOVE FROM	C of network		RR of network		
CONNECT TO	S of polarity guard		T of polarity guard	C of network	RR of network

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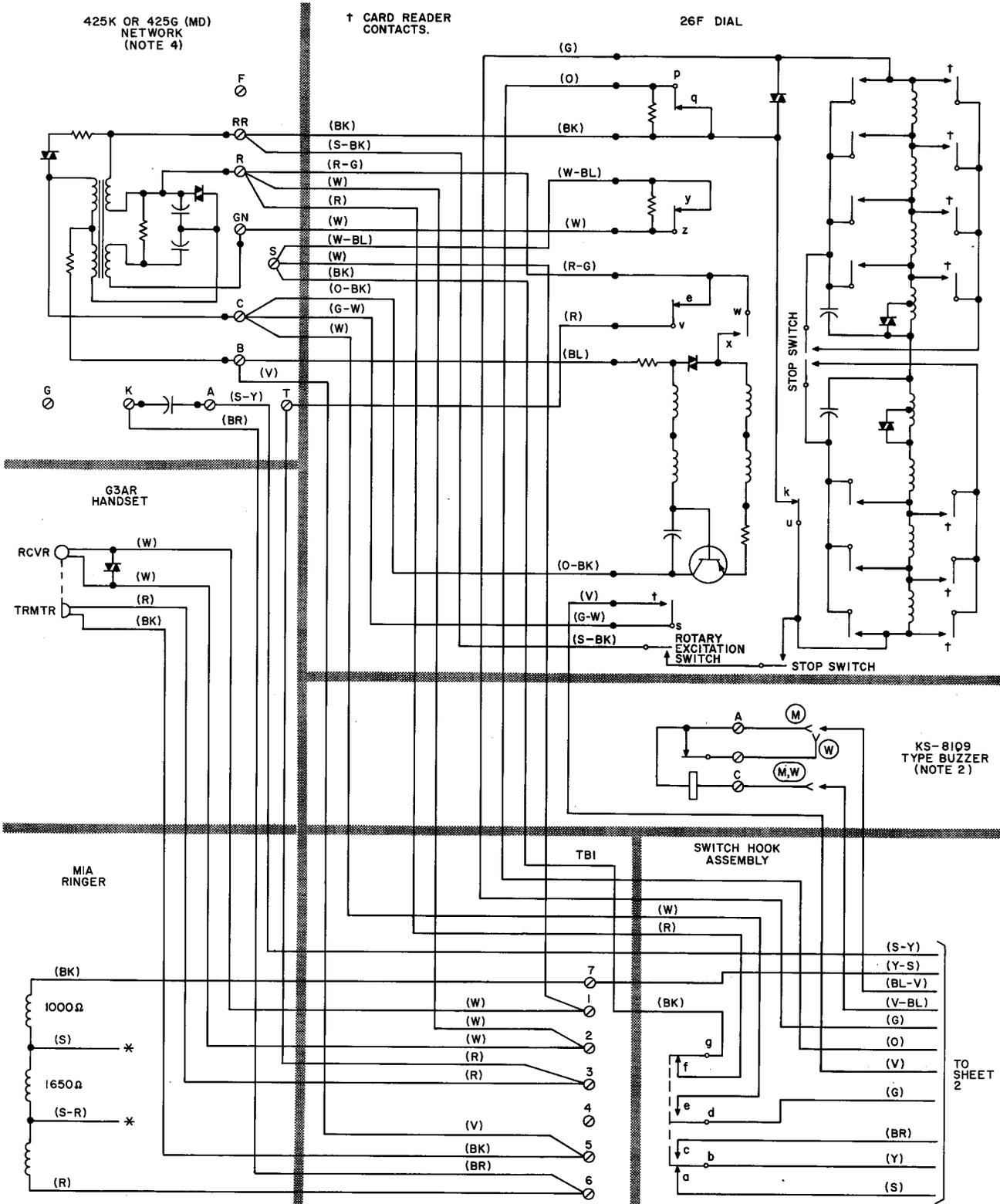


Fig. 2 - 1662B Type Telephone Set Wired for Speakerphone (Sheet 1 of 3)

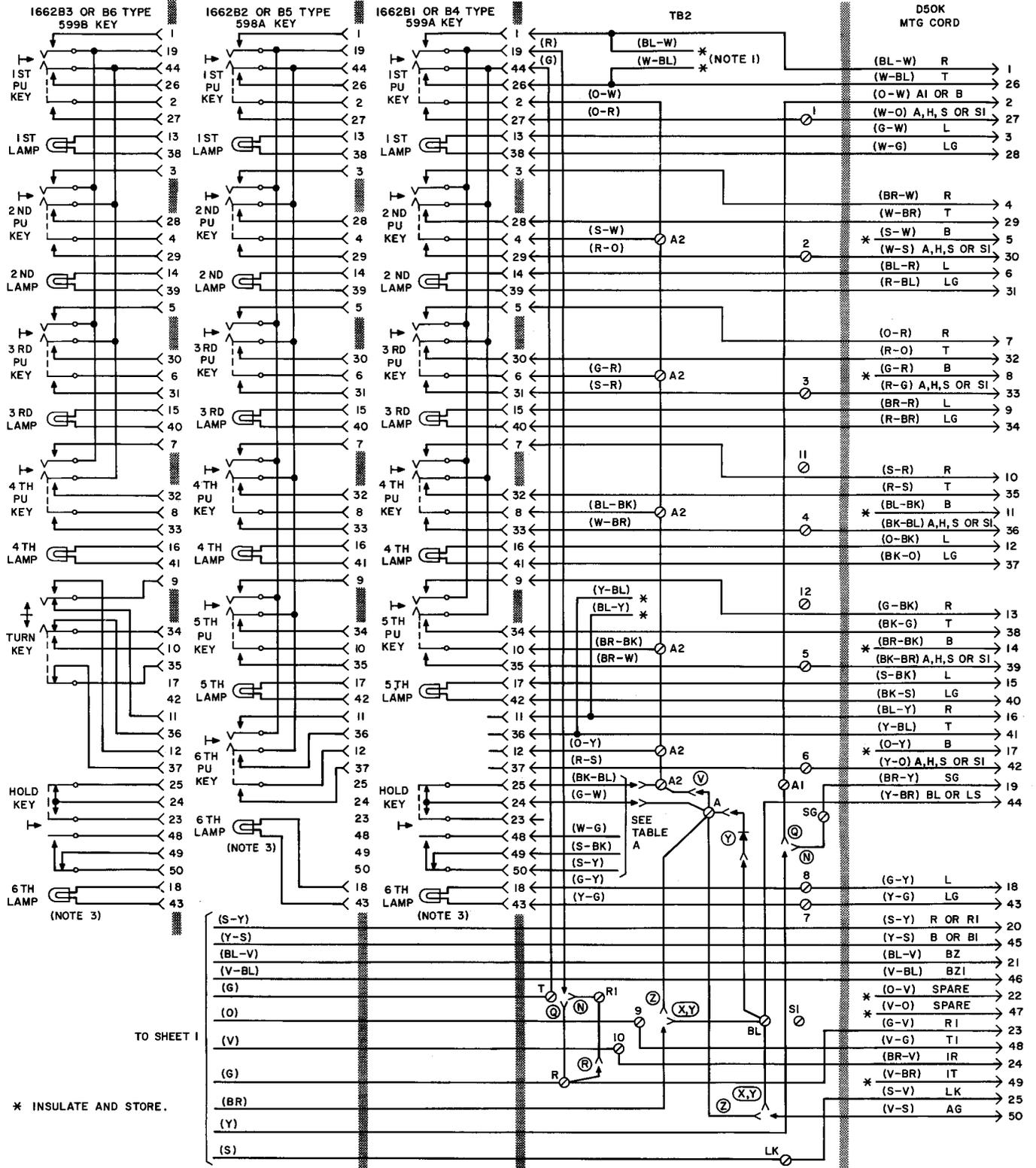
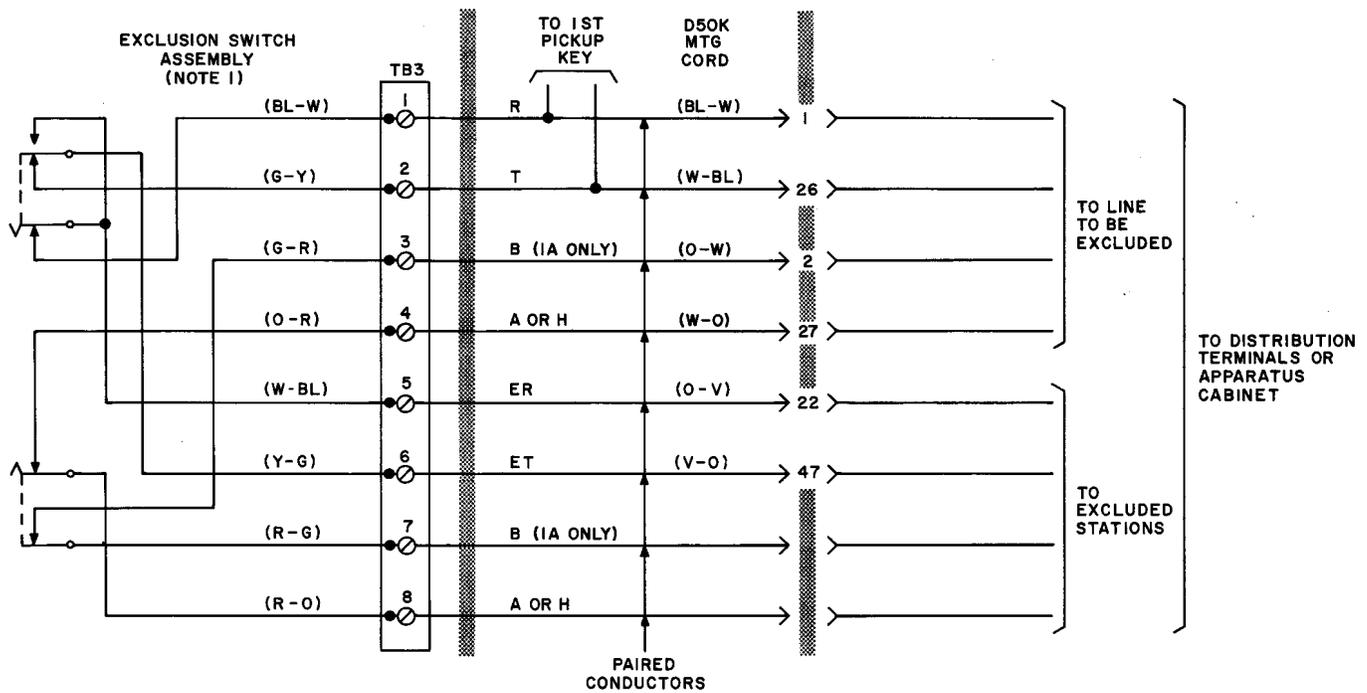


Fig. 2 - 1662B Type Telephone Set Wired for Speakerphone (Sheet 2 of 3)



NOTES:

1. WHEN EXCLUSION FEATURE IS DESIRED, CONNECT EXCLUSION SWITCH TO STATIONS BY MEANS OF CORD CONDUCTORS NOT IN USE FOR OTHER FUNCTIONS. WHEN EXCLUSION SWITCH IS CONNECTED TO IA KEY TELEPHONE SYSTEM, THE H AND B LEADS MUST BE PAIRED. WHEN CONNECTED TO IA1 OR IA2 KEY TELEPHONE SYSTEM, THE A LEADS MAY BE CONNECTED TO PAIRED OR NONPAIRED CONDUCTORS.
2. WHEN KS-8109 TYPE BUZZER IS PROVIDED, CONNECT BZ (BL-V) AND BZ1 (V-BL) TO TERMINALS OF BUZZER. BE SURE BUZZER IS INSULATED FROM BASE OF SET.
3. TO USE 6TH LAMP, EQUIP KEY WITH PROPER LAMP AND CONNECT ASSOCIATED LEADS AT EQUIPMENT OR DISTRIBUTION TERMINAL AS REQUIRED.
4. IN SETS EQUIPPED WITH THE 425G (MD) NETWORK, THE (W-BL) DIAL LEAD AND (BK) SWITCH HOOK LEAD ARE CONNECTED TO TBI-1; THE (R) DIAL LEAD IS CONNECTED TO TBI-3.

LEGEND:

- (M) AC OPERATION
- (W) DC OPERATION
- (N) IA KEY TELEPHONE SYSTEM
- (X) IA WITH BUSY LAMP
- (R) IA WITHOUT HOLD KEY, (598A KEY)
- (Q) IA1 AND IA2 KEY TELEPHONE SYSTEMS
- (Y) IA1 AND IA2 WITH STATION BUSY LAMP (KS-15724, LI DIODE)
- (Z) IA1 AND IA2 WITHOUT STATION BUSY LAMP
- (V) IA1 AND IA2 WITHOUT HOLD KEY, (598A KEY)

Fig. 2 — 1662B Type Telephone Set Wired for Speakerphone (Sheet 3 of 3)

**TABLE C**  
**CONDUCTOR ASSIGNMENTS USING 66E-TYPE CONNECTOR BLOCK**

LEAD DESIG	TEL SET TERM.*	MTG CORD		PLUG OR CONN	66E-TYPE CONN BLOCK
		PAIR NO.	CONDUCTOR COLOR		
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
T1	TB2-9	23	V-G	48	45
R1	TB2-R		G-V	23	46
1T	‡	24	V-BR	49	47
1R	TB2-10		BR-V	24	48
AG	TB2-A §	25	V-S	50	49
LK	TB2-LK		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.

§ For 1A, 1A1 or 1A2 KTS with busy lamp disconnect lead from term A and reconnect to TB2-BL.

