

TELEPHONE SETS

634, 635, 1634, AND 1635 TYPES

CONNECTIONS

1. GENERAL

1.01 This section contains connection data for various service feature arrangements of 18- and 30-button CALL DIRECTOR® telephone sets used with station line concentrators. It includes terminal board connections in the set, mounting cord and connector cable conductors, and associated plugs and conductors. See Table A for description of modules and Table B for telephone set codes and module arrangements.

1.02 This section is reissued to:

- Revise Fig. 5.
- Add information on P-44E409 (Modified) Bracket Assembly
- Add information on the 235B and 236B key telephone units.

1.03 Connection figures in this section pertain to 634- and 635-type rotary dial sets, and 1634- and 1635-type TOUCH-TONE® dial sets. However, these figures also apply to preceding 600C and 601C types which are rated MD.

1.04 Fig. 8 shows the 18-button set and Fig. 9 shows the 30-button set using either MD color-coded or even-count color-coded cords and connector cables. Convert to even-count color codes and lead designations wherever possible.



Some mounting cord conductors are dead dressed with insulators (tubing). When necessary to use these conductors, do not use long-nose pliers to pull off the insulators. This may break the conductor or pull off the spade tip. Cut off the insulation with electrician scissors or diagonal pliers.

1.05 See appropriate sections for connections to station line concentrator using 235B and 236B key telephone units and also SD-69498 (key telephone systems No. 6A, 1A1, and 1A2).

1.06 A bracket, suitable for mounting a KS-8109 type buzzer is provided in the telephone set. If a 7-type buzzer is desired, the bracket can be removed and a 7-type buzzer can be mounted on the bracket supports. If a steel mounting bracket is provided, the KS-8109 buzzer shall be mounted using 2 nylon screws and 2 fiber washers to insulate the buzzer from the bracket. When a molded bracket is supplied, the insulating screws and washers are not required (Fig. 8).



For sets produced between June 1964 and April 1966 equipped with a P-44E410 molded bracket, it is recommended that the supplied molded bracket be replaced by a modified molded bracket — P-44E409 (Modified) Bracket Assembly.

2. APPLICATION

2.01 These telephone sets may be used with 1A1, 1A2, and 6A key telephone systems.

2.02 The 235B is intended to replace the 235A key telephone unit and the 236B is intended to replace the 236A key telephone unit.

2.03 A 235B KTU is associated with each 634- or 1634-type telephone set. A 236B KTU is associated with each 635- or 1635-type telephone set. Because of the single common talking and control lead pattern in these sets, a line concentrator unit must be associated with each telephone set installed and cannot be shared, even on a bridged station basis.

2.04 Table C shows the combination of operated line concentrator relays when each individual key button is operated. Table D shows conversion to provide additional service feature options on sets equipped with MD color-coded cords. Table E shows the same conversion for sets equipped with even-count color-coded cords.

2.05 A 661A or 667-type speakerphone transmitter unit may be used in the third key position of an 18-button set or fifth key position of a 30-button set. See appropriate section for connection to speakerphone systems.

2.06 A 599B key may be used in the first key position to provide ringer or line cutoff, transfer or switching features. (Notes 7 and 8, Fig. 8.) When other than internal ringer cutoff is required, these features must be provided for by means of an auxiliary relay separately mounted and controlled by the turn key contacts. This is because there are insufficient mounting cord leads to permit full mechanical switching at the 599B key.

TABLE A
DESCRIPTION OF MODULES

MODULE	DESCRIPTION
105B Blank	Apparatus blank
598A Key	6 pickup keys
599A Key	5 pickup keys and hold key
599B Key	Turnbutton key, 4 pickup keys, and hold key
617A Key	12 signal keys
661A (MD) Transmitter	For use with 1A1 speakerphone system
667A (MD), B Transmitter	For use with 3A speakerphone system

TABLE B
TELEPHONE SET CODES AND MODULE ARRANGEMENTS

TELEPHONE SET		SET EQUIPPED WITH									
		1ST MODULE (LEFT)		2ND MODULE		3RD MODULE		4TH MODULE		5TH MODULE	
TYPE	CODE	KEY	FIG.	KEY	FIG.	KEY	FIG.	KEY	FIG.	KEY	FIG.
634A 634B 634C 1634C	1	599A	1	598A	2	105B					
	2					598A	2				
	3 MD					661A	4				
	4					617A	6				
	5 MD					661A	4				
	6	599B	3	598A	2	105B					
	7					598A	2				
	8 MD					661A	4				
	9					105B					
	10					598A	2				
	11	599A	1	617A	6	667A	5				
	12					598A	2				
	13					599B	3				
635A 635C 1635C	1	599A	1	598A	2	598A	2	105B		105B	
	2							598A	2	598A	2
	3							617A	6		
	4							105B		661A	4
	6 MD							598A	2		
	7 MD							617A	7		
	8 MD							105B		105B	
	10							599B	3	598A	2
	11	599A	1			105B		598A	2		
	12					598A	2	667A	5		
	16					105B					
17	598A					2					
18					617A	7					

TABLE C
 COMBINATIONS OF OPERATED RELAYS OF LINE CONCENTRATOR UNIT
 WHEN RESPECTIVE LINE PICKUP BUTTON IS DEPRESSED

KEY POS	RELAYS																
	236B KTU										235B KTU						
	A	B	C	CA1	D	E	F	G	H	J	A	B	C	D	E	F	G
1					
2				
3					
4			
5				
6						
7				
8			
9				
10							
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12					
13						
14					
15					
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17
18	
19			.						.								
20					.				.								
21						.			.								
22							.		.								
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24	.									.							
25		.								.							
26			.							.							
27					.					.							
28						.				.							
29							.			.							
30								.		.							

TABLE D

CONVERSION OF 634- AND 635-TYPE TELEPHONE SETS EQUIPPED WITH MANUFACTURE DISCONTINUED (MD) CORDS

FEATURE	WORK OPERATION	PICKUP BUTTON POSITION							
		1-7-13-19-25	2-8-14-20-26	3-9-15-21-27	4-10-16-22-28	5-11-17-23-29	12-24-30	18	6
Optional Buzzer in Tel Set	Connect stored spade-tipped lead indicated to term. SG of TB VI.	BK	BR-G	BR-W	R-BL	G-BL	S-BR	S-BR	634—Not convertible. 635—Connect S-BR to term. SG of TB VI. Connect one of two spares (BR or S-BR) from Plug 2 to term. 6 of TB I (Fig. 9)
	Disconnect spade-tipped lead indicated from assoc TB. Insulate and store.	S-BK	S-W	BR	BK-W	S	O-W	O-W	
6A Add-on	Connect stored spade-tipped lead indicated to term. PB of TB VI.	BK	BR-G	BR-W	R-BL	G-BL	S-BR	S-BR	634—Not convertible. 635—Connect S-BR to term. PB of TB VI. Connect one of two spares (BR or S-BR) from Plug 2 to term. 6 of TB I (Fig. 9).
	Disconnect spade-tipped lead indicated from assoc TB. Insulate and store.	S-BK	S-W	BR	BK-W	S	O-W	O-W	
6A Pushbutton	Connect stored spade-tipped lead indicated to term. A (634) or to term. 1A (635) of TB VI.	BK	BR-G	BR-W	R-BL	G-BL	S-BR	S-BR	634—Not convertible. 635—Connect S-BR to term. 1A of TB VI. Connect one of two spares (BR or S-BR) from Plug 2 to term. 6 of TB I (Fig. 9).
	Disconnect spade-tipped lead indicated from assoc TB. Insulate and store.	S-BK	S-W	BR	BK-W	S	O-W	O-W	
Locked-in Lamp Release	Connect stored spade-tipped lead indicated to term. SG of TB VI.	BK	BR-G	BR-W	R-BL	G-BL	S-BR	S-BR (635) (634—Not convertible.)	634—Not convertible. 635—Connect S-BR to term. SG of TB VI. Connect one of two spares (BR or S-BR) from Plug 2 to Term. 6 of TB I (Fig. 9). Connect O-W to avail. lamp grd.
	Move spade-tipped lead indicated from assoc TB to avail. lamp grd.	S-BK	S-W	BR	BK-W	S	O-W	O-W (635) (634—Not convertible.)	
Line Pickup		Factory equipped and wired						635—Factory equipped. 634—Connect O-W to avail. lamp grd.	Replace 599A key with 598A key. Connect O-W to avail. lamp grd. Connect BR-BL to term. A (634) or to term. 1A (635) of TB VI.

Note: All pickup key positions converted to nonlocking for features in Table D must have P-11E977 insulating details placed over the two key contacts adjacent to the key plunger. Insulating details are furnished with the telephone set. Remove the P-10E837 screw detail entirely from the plunger at the key position to be converted.

TABLE E — CONVERSION OF 634- AND 635-TYPE TELEPHONE SETS EQUIPPED WITH EVEN-COUNT COLOR-CODED CORDS

KEY POSITION		SERVICE FEATURE OPTIONS								LINE PICKUP
		OPTIONAL BUZZER IN SET		6A ADD-ON		6A PUSHBUTTON		LOCKED-IN LAMP RELEASE		
		CONNECT STORED SPADE-TIPPED LEAD INDICATED TO TERM. SG OF TB VI.	DISCONNECT SPADE-TIPPED LEAD INDICATED FROM ASSOC TB. INSULATE AND STORE.	CONNECT STORED SPADE-TIPPED LEAD INDICATED TO TERM. PB OF TB VI.	DISCONNECT SPADE-TIPPED LEAD INDICATED FROM ASSOC TB. INSULATE AND STORE.	CONNECT STORED SPADE-TIPPED LEAD INDICATED TO TERM. A (634) OR TO TERM. 1A (635) OF TB VI.	DISCONNECT SPADE-TIPPED LEAD INDICATED FROM ASSOC TB. INSULATE AND STORE.	CONNECT STORED SPADE-TIPPED LEAD INDICATED TO TERM. SG OF TB VI.	MOVE SPADE-TIPPED LEAD INDICATED FROM ASSOC TB TO AVAIL. LAMP GRD.	
634 TEL SET	635 TEL SET									
1	1	BL	R-BR	BL	R-BR	BL	R-BR	BL	R-BR	634 and 635— Factory equipped and wired
2	2	O	R-S	O	R-S	O	R-S	O	R-S	
3	3	G	BK-BL	G	BK-BL	G	BK-BL	G	BK-BL	
4	4	BR	BK-O	BR	BK-O	BR	BK-O	BR	BK-O	
5	5	S	BK-G	S	BK-G	S	BK-G	S	BK-G	
6	6	634—Not convertible. 635—Connect W to term. SG of TB VI. Connect one of two spares (S-BK or BK-S) from Plug 2 to term. 6 of TBI (Fig. 9).		634—Not convertible. 635—Connect W to term. PB of TB VI. Connect one of two spares (S-BK or BK-S) from Plug 2 to term. 6 of TBI (Fig. 9).		634—Not convertible. 635—Connect W to term. 1A of TB VI. Connect one of two spares (S-BK or BK-S) from Plug 2 to term. 6 of TBI (Fig. 9).		634—Not convertible. 635—Connect W to term. SG of TB VI. Connect one of two spares (S-BK or BK-S) from Plug 2 to term 6 of TBI (Fig. 9). Connect G-R to avail. lamp grd.		Replace 599A key with 598A key. Connect G-R to avail. lamp grd. Connect W-O to term. A (634) or to term. 1A or TB VI.
7	7	BL	BK-BR	BL	BK-BR	BL	BK-BR	BL	BK-BR	634 and 635— Factory equipped and wired
8	8	O	BK-S	O	BK-S	O	BK-S	O	BK-S	
9	9	G	Y-BL	G	Y-BL	G	Y-BL	G	Y-BL	
10	10	BR	Y-O	BR	Y-O	BR	Y-O	BR	Y-O	
11	11	S	Y-G	S	Y-G	S	Y-G	S	Y-G	
12	12	W	Y-BR	W	Y-BR	W	Y-BR	W	Y-BR	
	13	BL	W-BL	BL	W-BL	BL	W-BL	BL	W-BL	
	14	O	W-O	O	W-O	O	W-O	O	W-O	
	15	G	W-G	G	W-G	G	W-G	G	W-G	
	16	BR	W-BR	BR	W-BR	BR	W-BR	BR	W-BR	
	17	S	W-S	S	W-S	S	W-S	S	W-S	
	18	W	R-BL	W	R-BL	W	R-BL	W (635) (634—Not convertible.)	R-BL (635) (634—Not convertible.)	635—Factory equipped. 634—Connect R-BL to avail. lamp grd.
	19	BL	R-O	BL	R-O	BL	R-O	BL	R-O	635—Factory equipped and wired
	20	O	R-G	O	R-G	O	R-G	O	R-G	
	21	G	R-BR	G	R-BR	G	R-BR	G	R-BR	
	22	BR	R-S	BR	R-S	BR	R-S	BR	R-S	
	23	S	BK-BL	S	BK-BL	S	BK-BL	S	BK-BL	
	24	W	BK-O	W	BK-O	W	BK-O	W	BK-O	
13	25	BL	Y-S	BL	Y-S	BL	Y-S	BL	Y-S	
14	26	O	V-BL	O	V-BL	O	V-BL	O	V-BL	
15	27	G	V-O	G	V-O	G	V-O	G	V-O	
16	28	BR	V-G	BR	V-G	BR	V-G	BR	V-G	
17	29	S	V-BR	S	V-BR	S	V-BR	S	V-BR	
18	30	W	V-S	W	V-S	W	V-S	W	V-S	

Note 1: Reference to 634- and 635-type sets also applies to the 1634- and 1635-type sets.

Note 2: All pickup key positions converted to nonlocking for features in Table E must have P-11E977 insulating details placed over the two key contacts adjacent to the key plunger. Insulating details are furnished with telephone set. Remove P-10E837 screw detail entirely from the plunger at the key position to be converted.

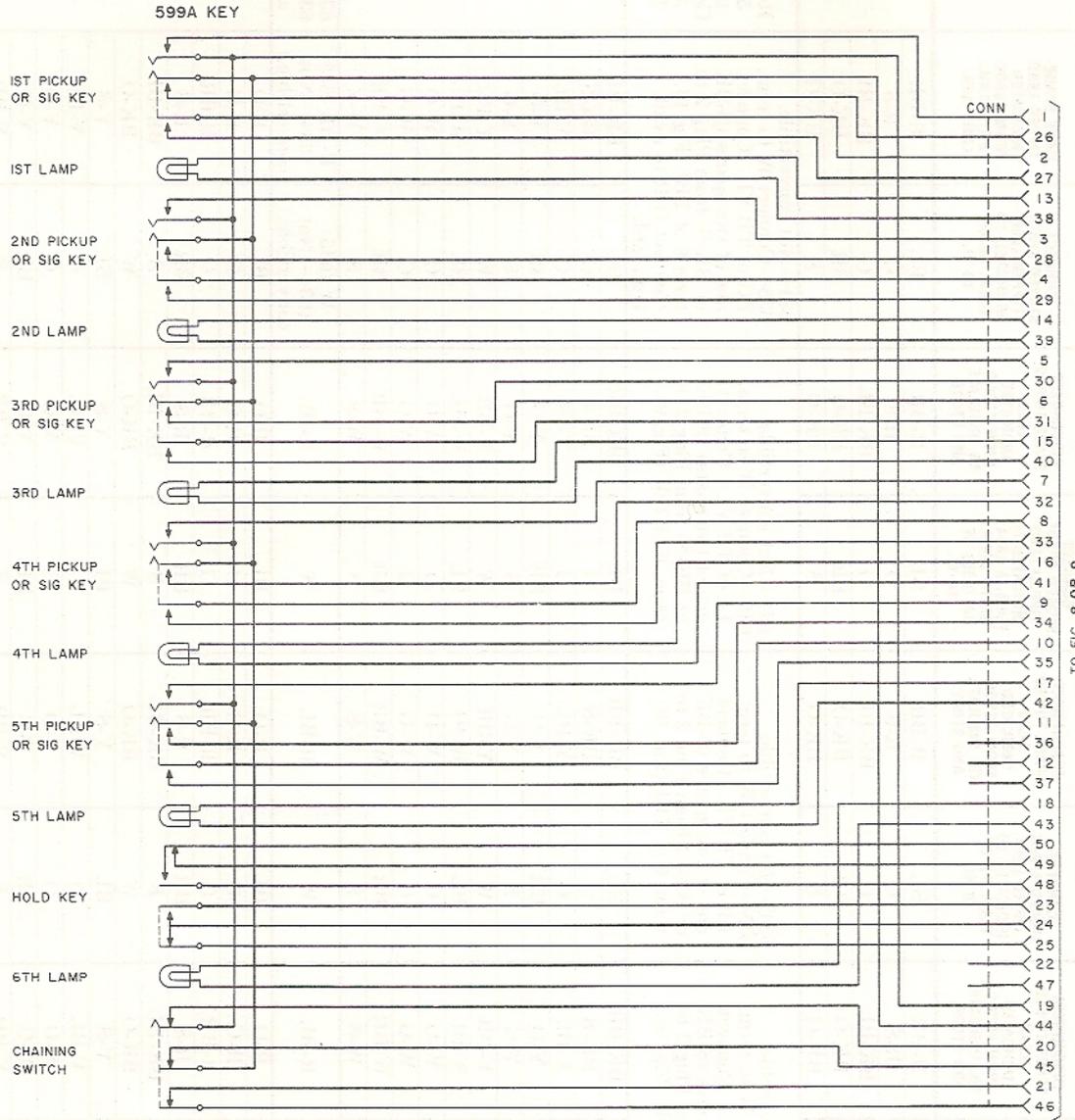


Fig. 1 — 599A Key

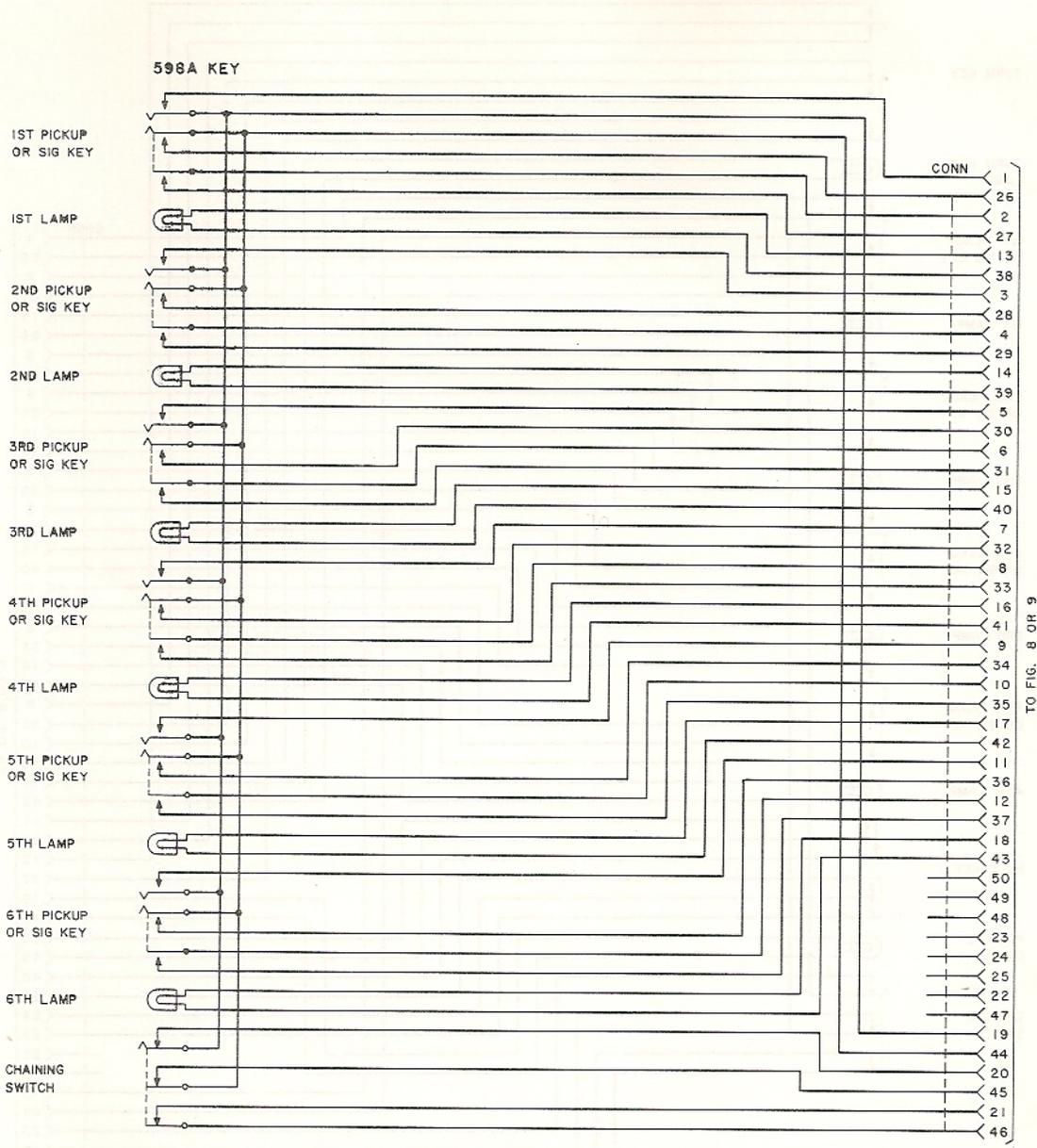
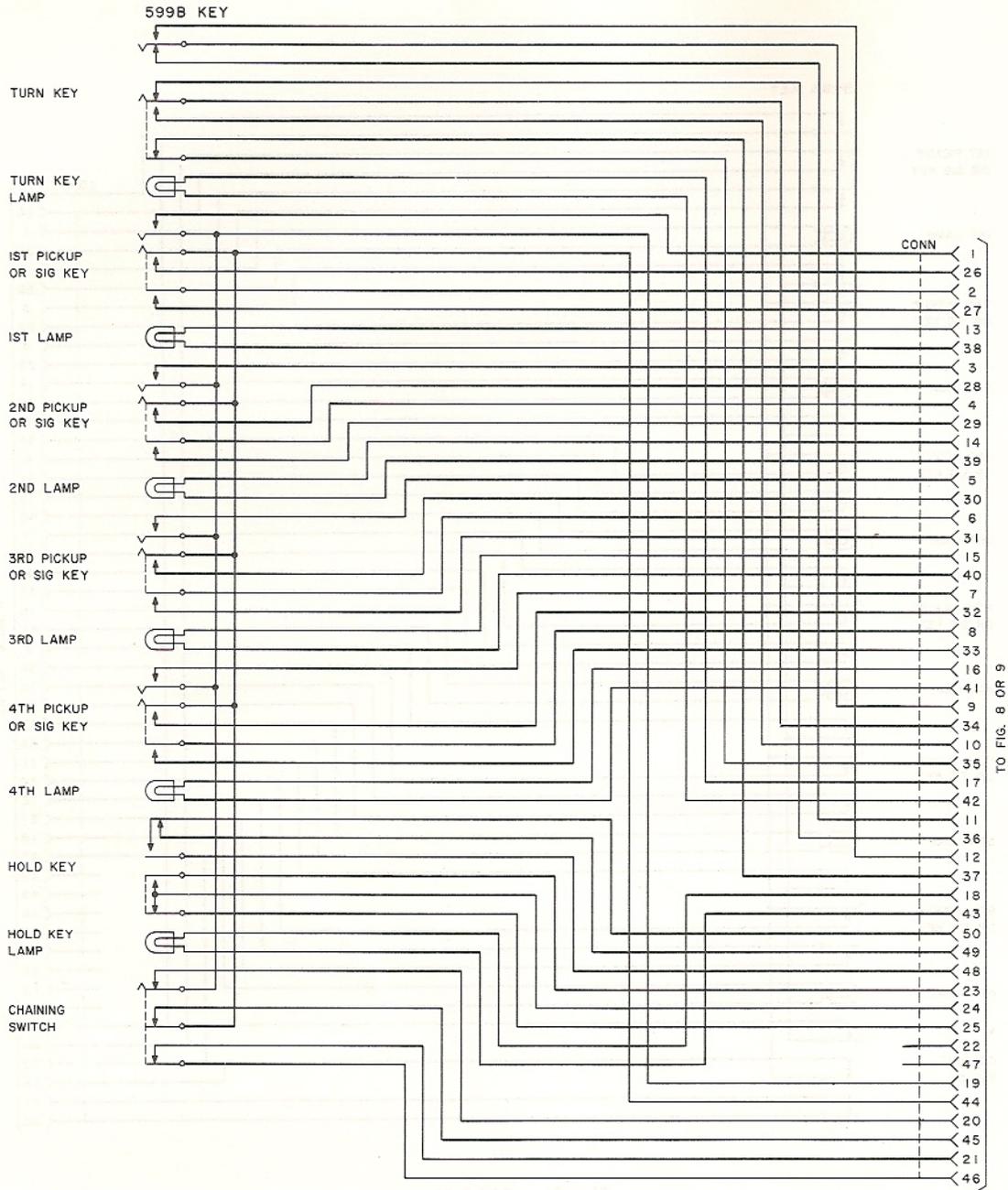


Fig. 2 — 598A Key



NOTES:

1. CONTACTS OF TURN KEY CONNECTED TO TERMINALS 9 AND 11 MUST BE ISOLATED FROM EACH OTHER WITH INSULATING DETAIL P13E443 (FURNISHED WITH 599B KEY) TO PREVENT INTERFERENCE WITH WORKING CIRCUITS.
2. THE TURN KEY LAMP CAN BE ILLUMINATED IN ACCORDANCE WITH, OR INDEPENDENT OF TURN KEY OPERATION.

Fig. 3 — 599B Key

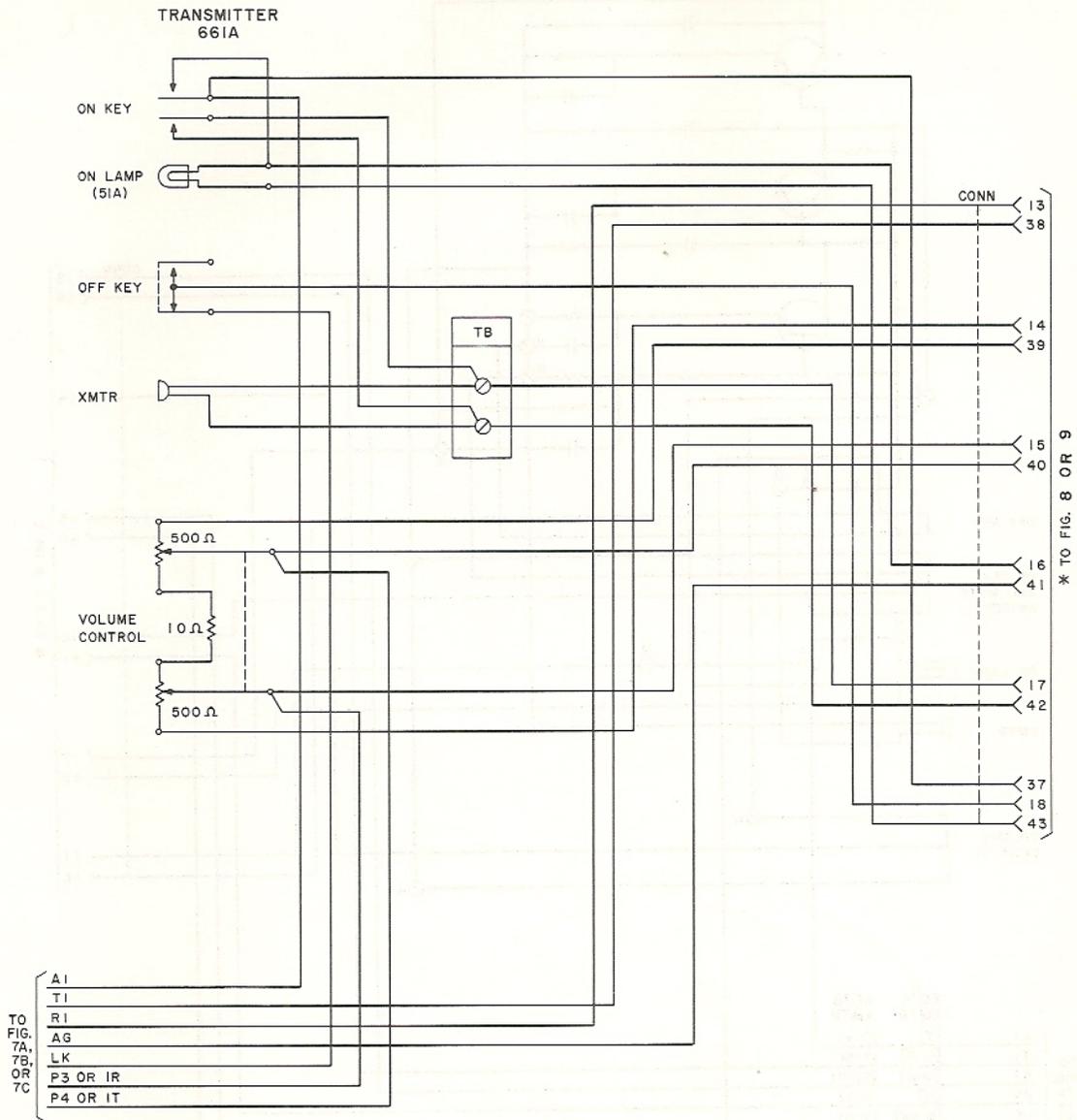
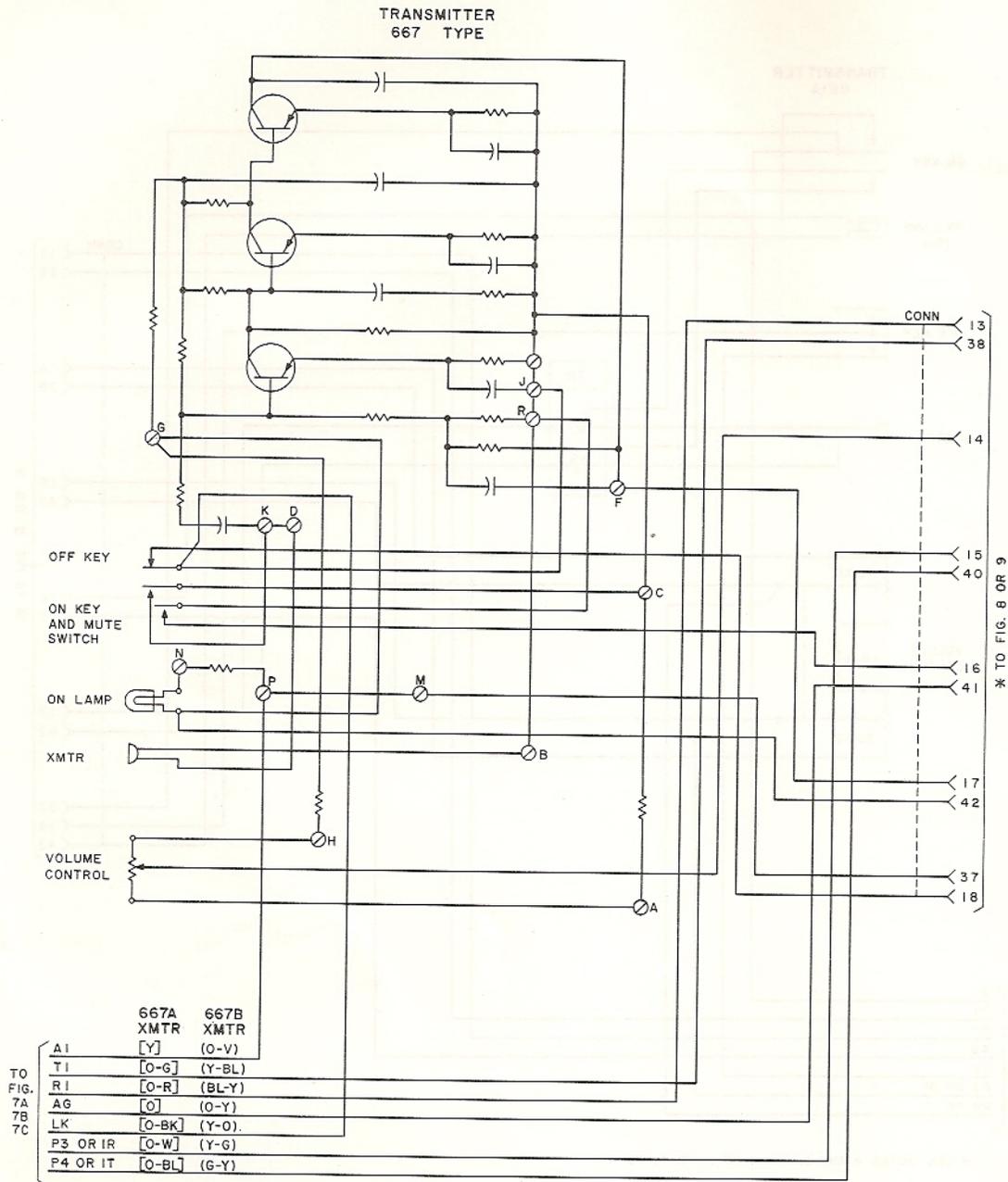
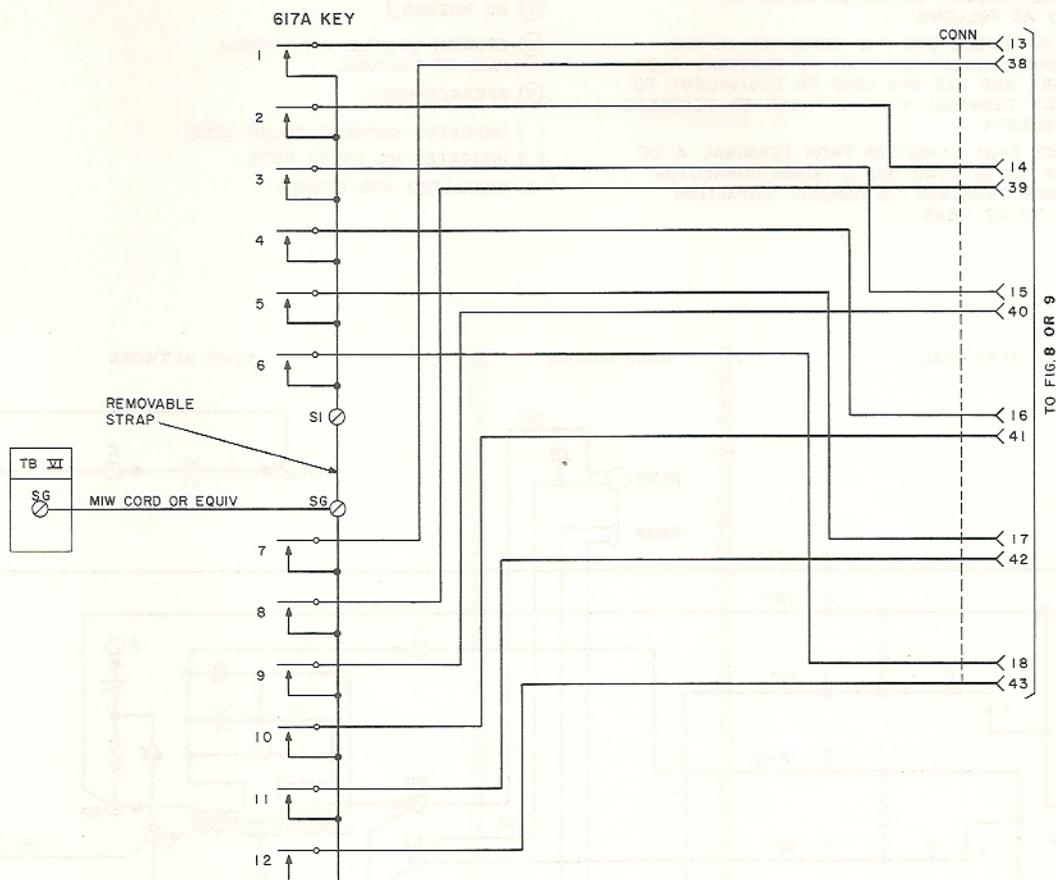


Fig. 4 — 661A Transmitter (MD)



* SEE NOTES 4 AND 5, FIG. 8 OR NOTE 4, FIG. 9.
 () INDICATES CURRENT COLOR CODE.
 [] INDICATES MD COLOR CODE.

Fig. 5 — 667A (MD) and B Transmitters



NOTE:
 WHEN THE 617A KEY IS REQUIRED AS A DUAL-PURPOSE KEY,
 THE BRASS STRAP BETWEEN THE SI AND SG TERMINALS OF THE
 KEY MAY BE REMOVED. USE MIW CORD OR EQUIVALENT TO CONNECT
 SI TERMINAL OF 617A KEY TO A DISSIMILAR GROUND OR A NONGROUND
 CIRCUIT.

Fig. 6 — 617A Key

NOTES:

1. INSTALL KS-8100 TYPE BUZZER ON MOUNTING BRACKET; INSTALL 7-TYPE BUZZER, WITH COVER REMOVED, IN PLACE OF MOUNTING BRACKET.
2. WHEN A 7-TYPE BUZZER IS USED WITH A COMMON AUDIBLE ALARM AND POWER FAILURE FEATURE, A 548A OR EQUIVALENT CAPACITOR SHALL BE INSTALLED AS FOLLOWS:

WHEN AVAILABLE USE THE CAPACITOR IN THE NETWORK. CONNECT BZ LEAD TO TERMINAL A OF NETWORK AND USE MIW CORD OR EQUIVALENT TO CONNECT TERMINAL K OF NETWORK TO TERMINAL A OF BUZZER.

CONNECT 548A CAPACITOR FROM TERMINAL A OF BUZZER TO BZ LEAD. USE D-161488 CONNECTOR OR SPARE TERMINAL TO CONNECT CAPACITOR LEADS TO BZ LEAD.

- (Q) DC BUZZER } KS-8100 TYPE (LIST 2)
 - (R) AC BUZZER }
 - (S) DC BUZZER } 7 TYPE
 - (T) AC BUZZER }
 - (U) COMMON AUDIBLE WITH POWER FAILURE FEATURE.
 - (V) SPEAKERPHONE.
- () INDICATES CURRENT COLOR CODE.
 [] INDICATES MD COLOR CODE.
 * INSULATED AND STORED.

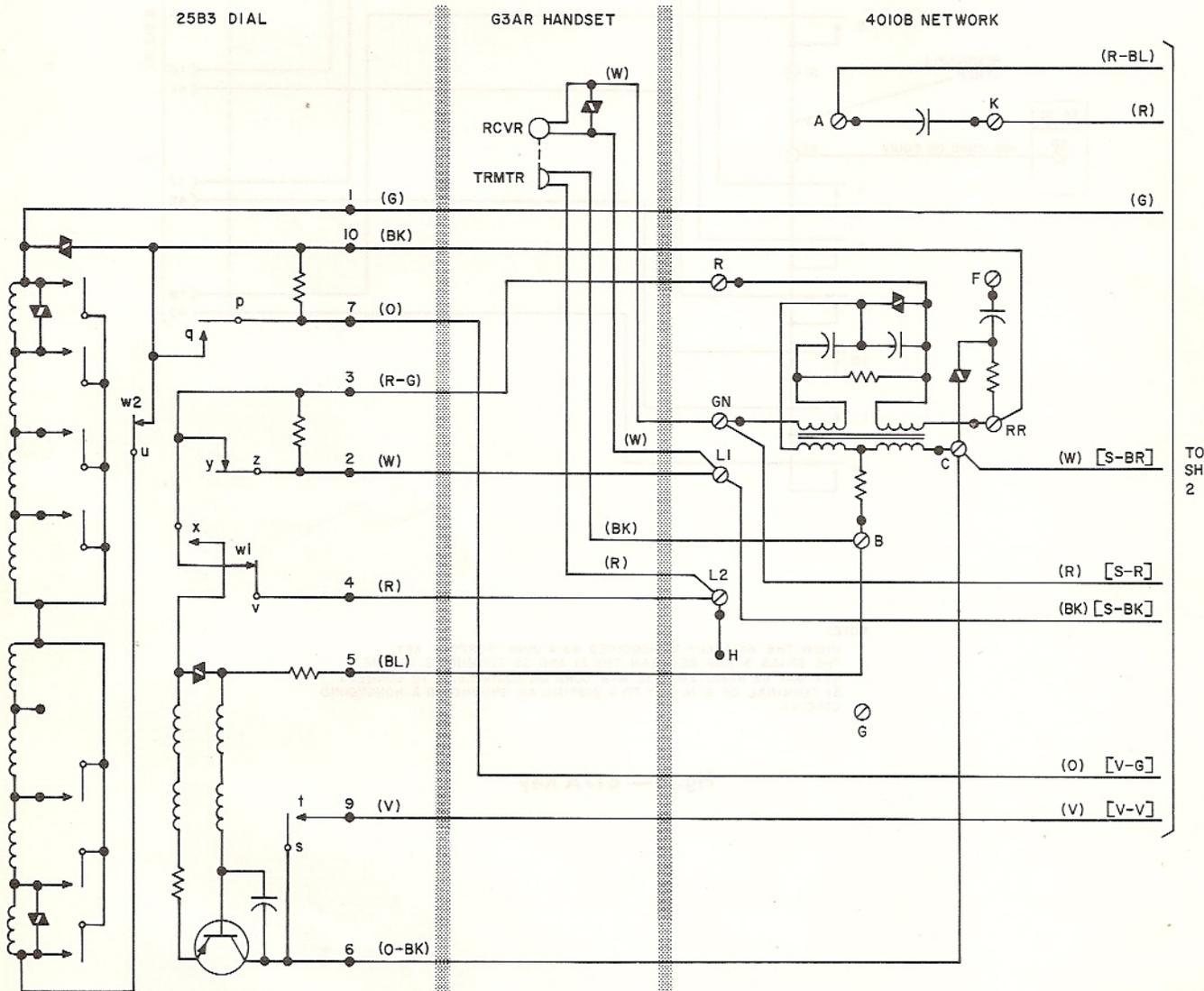


Fig. 7A — Telephone Set Circuit, TOUCH-TONE Dial (Sheet 1 of 2)

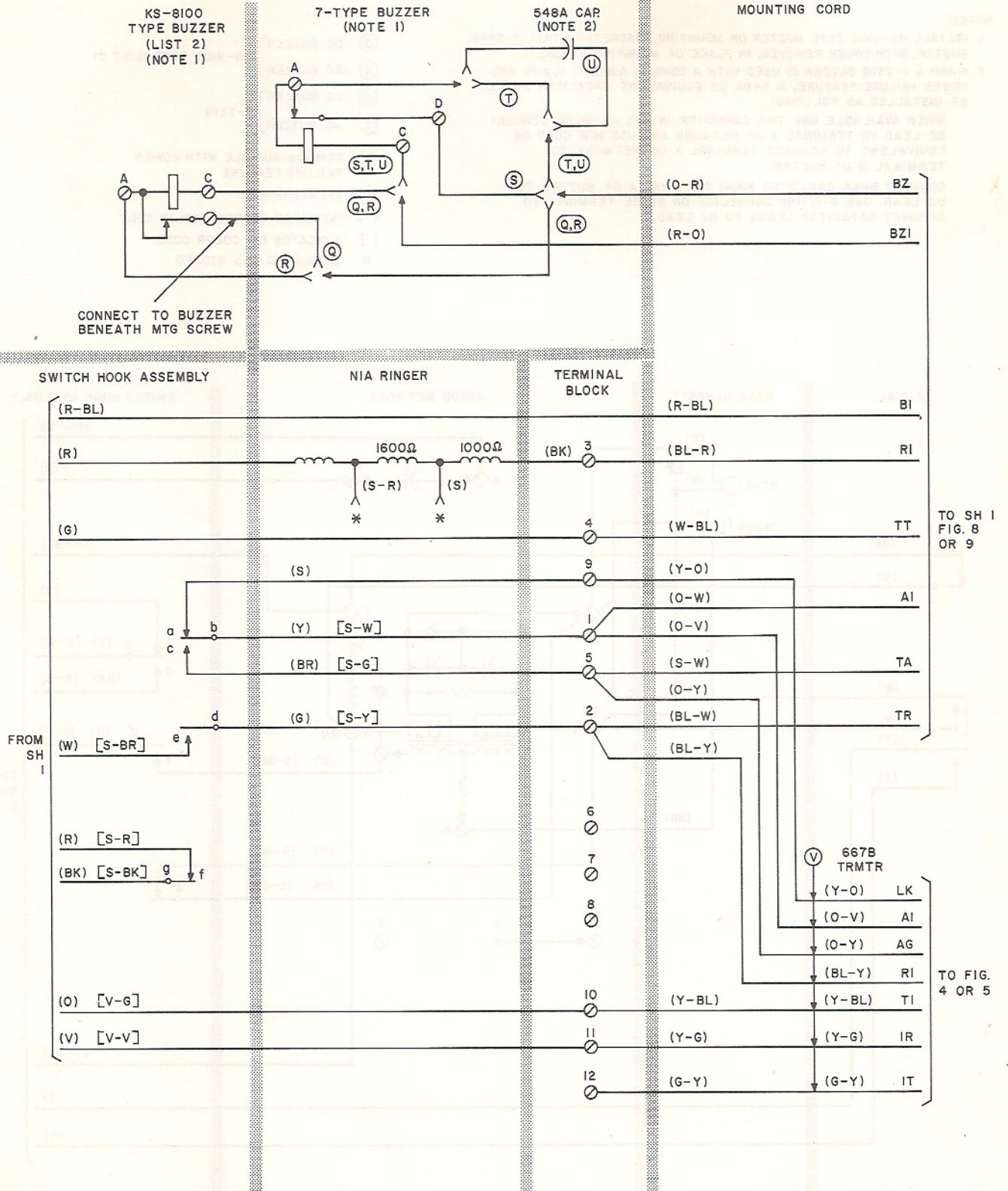


Fig. 7A — Telephone Set Circuit, TOUCH-TONE Dial (Sheet 2 of 2)

NOTES:

1. INSTALL KS-8100 TYPE BUZZER ON MOUNTING BRACKET; INSTALL 7-TYPE BUZZER, WITH COVER REMOVED, IN PLACE OF MOUNTING BRACKET.
2. WHEN A 7-TYPE BUZZER IS USED WITH A COMMON AUDIBLE ALARM AND POWER FAILURE FEATURE, A 548A OR EQUIVALENT CAPACITOR SHALL BE INSTALLED AS FOLLOWS:

WHEN AVAILABLE USE THE CAPACITOR IN THE NETWORK. CONNECT BZ LEAD TO TERMINAL A OF NETWORK AND USE MIW CORD OR EQUIVALENT TO CONNECT TERMINAL K OF NETWORK TO TERMINAL A OF BUZZER.

CONNECT 548A CAPACITOR FROM TERMINAL A OF BUZZER TO BZ LEAD. USE D-161488 CONNECTOR OR SPARE TERMINAL TO CONNECT CAPACITOR LEADS TO BZ LEAD.

- ⊙ DC BUZZER } KS-8100 TYPE (LIST 2)
- ⊙ AC BUZZER }
- ⊙ DZ BUZZER } 7-TYPE
- ⊙ AC BUZZER }
- ⊙ COMMON AUDIBLE WITH POWER FAILURE FEATURE
- ⊙ SPEAKERPHONE
- () INDICATES CURRENT COLOR CODE
- [] INDICATES MD COLOR CODE
- * INSULATED AND STORED

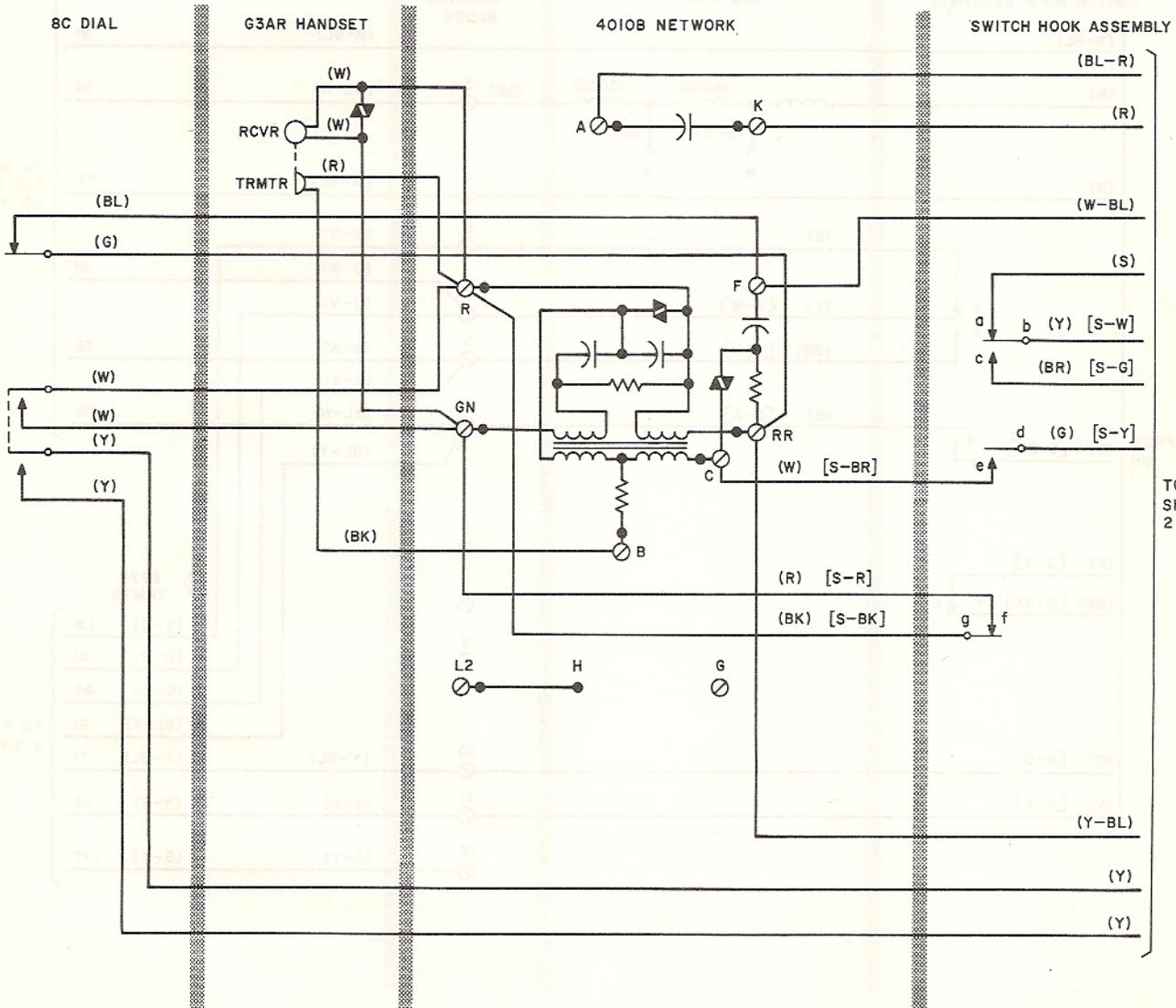
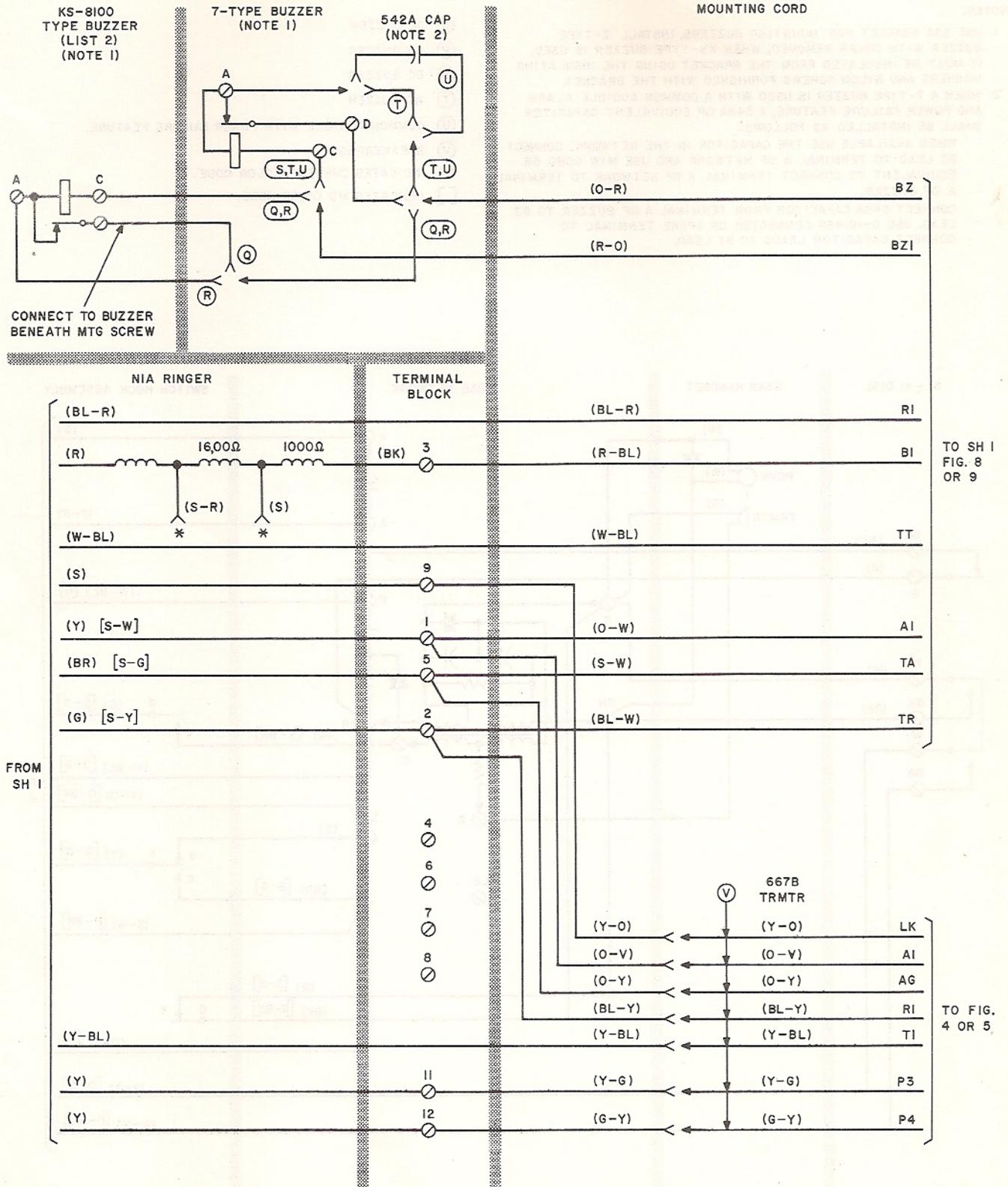


Fig. 7B - Telephone Set Circuit, 8C Dial and New Components (Sheet 1 of 2)



TO SH I
FIG. 8
OR 9

TO FIG.
4 OR 5

Fig. 7B - Telephone Set Circuit, 8C Dial and New Components (Sheet 2 of 2)

SECTION 502-634-401

NOTES:

1. USE 65A BRACKET FOR MOUNTING BUZZERS. INSTALL 7-TYPE BUZZER WITH COVER REMOVED; WHEN KS-TYPE BUZZER IS USED, IT MUST BE INSULATED FROM THE BRACKET USING THE INSULATING WASHERS AND NYLON SCREWS FURNISHED WITH THE BRACKET.
2. WHEN A 7-TYPE BUZZER IS USED WITH A COMMON AUDIBLE ALARM AND POWER FAILURE FEATURE, A 548A OR EQUIVALENT CAPACITOR SHALL BE INSTALLED AS FOLLOWS:

WHEN AVAILABLE USE THE CAPACITOR IN THE NETWORK. CONNECT BZ LEAD TO TERMINAL A OF NETWORK AND USE MIW CORD OR EQUIVALENT TO CONNECT TERMINAL K OF NETWORK TO TERMINAL A OF BUZZER.

CONNECT 548A CAPACITOR FROM TERMINAL A OF BUZZER TO BZ LEAD. USE D-161488 CONNECTOR OR SPARE TERMINAL TO CONNECT CAPACITOR LEADS TO BZ LEAD.

- Ⓚ DC BUZZER
- Ⓡ AC BUZZER
- Ⓢ DC BUZZER
- Ⓣ AC BUZZER
- Ⓤ COMMON AUDIBLE WITH POWER FAILURE FEATURE.
- Ⓥ SPEAKERPHONE
- () INDICATES CURRENT COLOR CODE.
- [] INDICATES MD COLOR CODE.

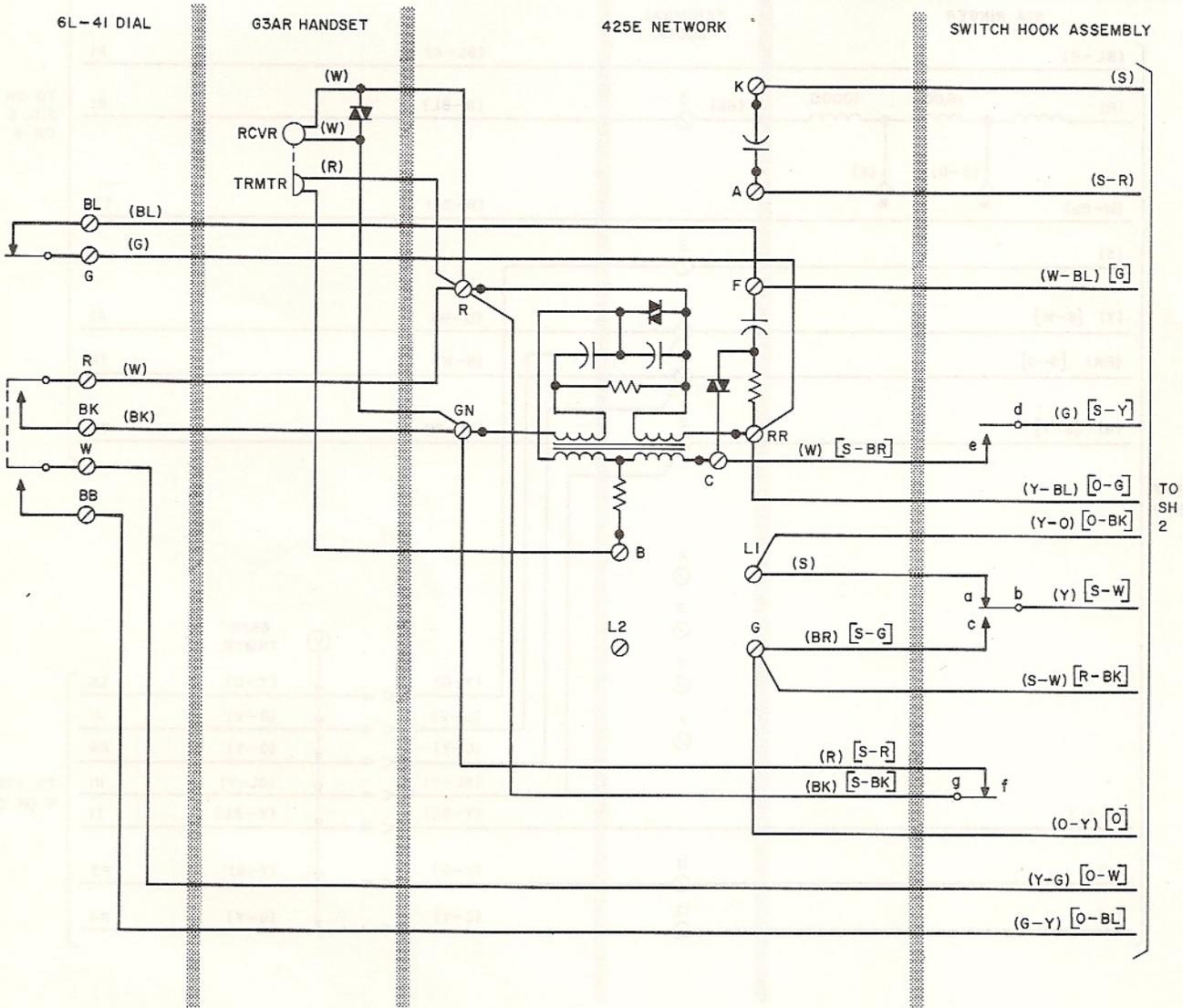


Fig. 7C - Telephone Set Circuit, 6L Dial (Sheet 1 of 2)

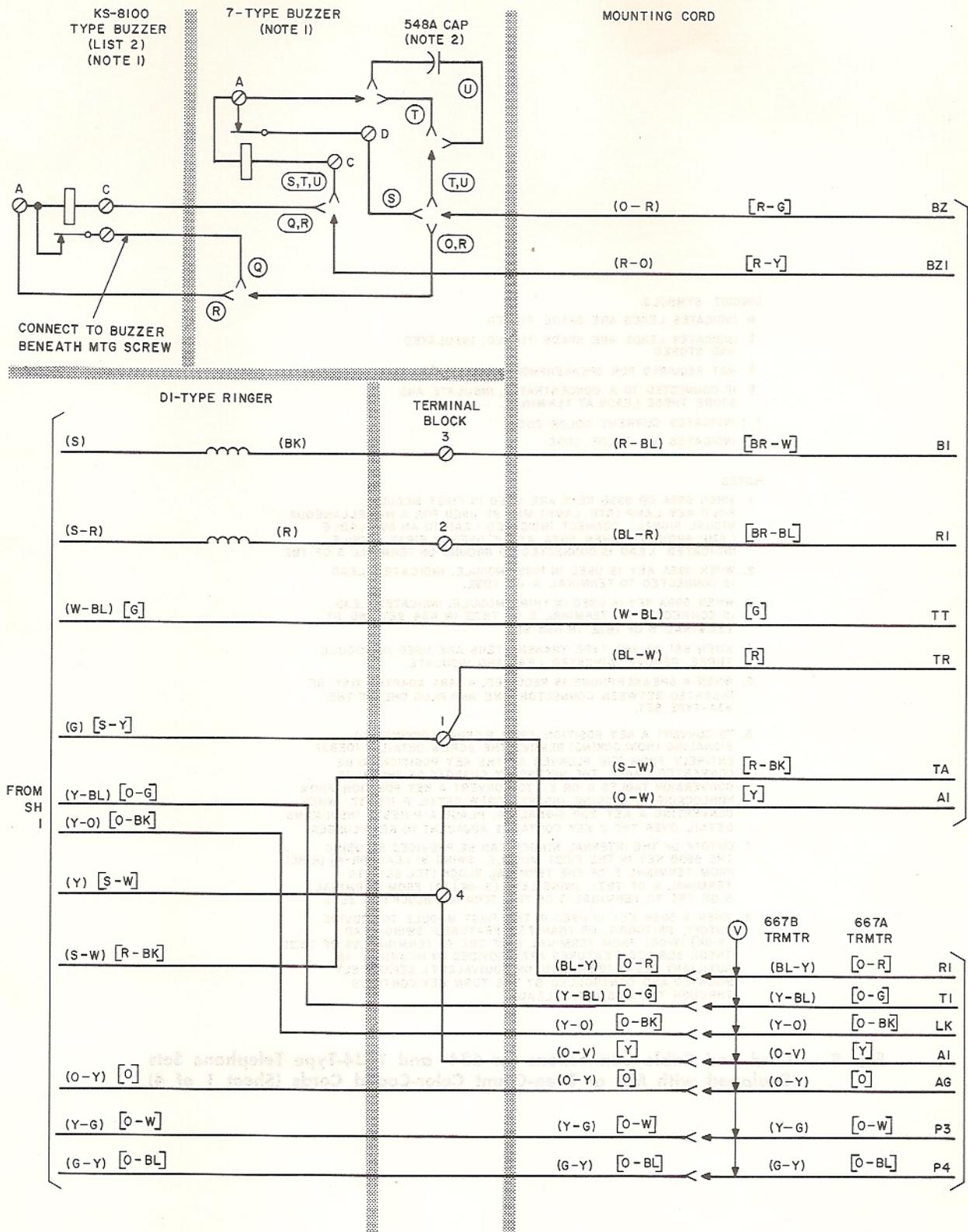
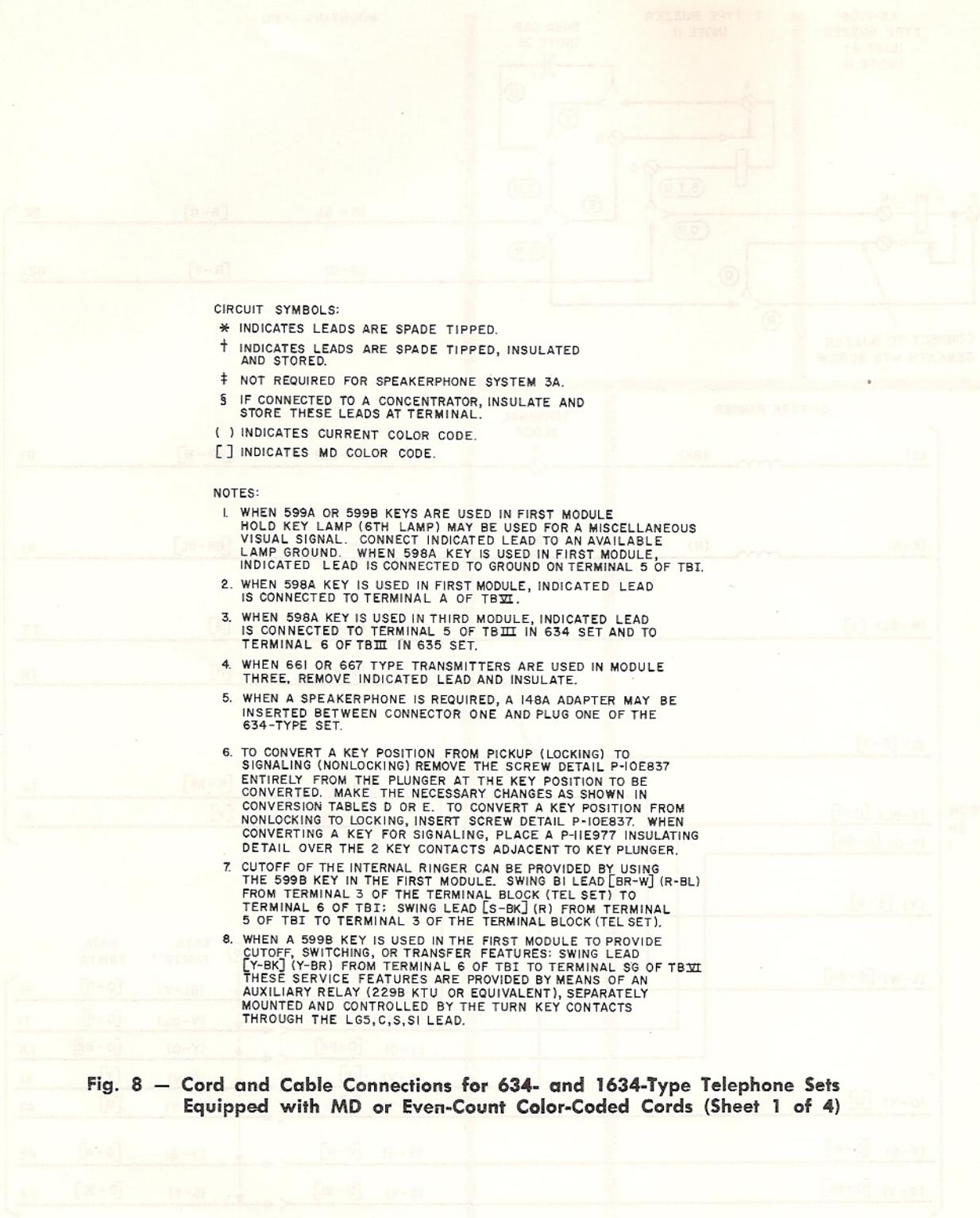


Fig. 7C — Telephone Set Circuit, 6L Dial (Sheet 2 of 2)



CIRCUIT SYMBOLS:

- * INDICATES LEADS ARE SPADE TIPPED.
- † INDICATES LEADS ARE SPADE TIPPED, INSULATED AND STORED.
- ‡ NOT REQUIRED FOR SPEAKERPHONE SYSTEM 3A.
- § IF CONNECTED TO A CONCENTRATOR, INSULATE AND STORE THESE LEADS AT TERMINAL.
- () INDICATES CURRENT COLOR CODE.
- [] INDICATES MD COLOR CODE.

NOTES:

1. WHEN 599A OR 599B KEYS ARE USED IN FIRST MODULE HOLD KEY LAMP (6TH LAMP) MAY BE USED FOR A MISCELLANEOUS VISUAL SIGNAL. CONNECT INDICATED LEAD TO AN AVAILABLE LAMP GROUND. WHEN 598A KEY IS USED IN FIRST MODULE, INDICATED LEAD IS CONNECTED TO GROUND ON TERMINAL 5 OF TBI.
2. WHEN 598A KEY IS USED IN FIRST MODULE, INDICATED LEAD IS CONNECTED TO TERMINAL A OF TBVI.
3. WHEN 598A KEY IS USED IN THIRD MODULE, INDICATED LEAD IS CONNECTED TO TERMINAL 5 OF TBIII IN 634 SET AND TO TERMINAL 6 OF TBIII IN 635 SET.
4. WHEN 661 OR 667 TYPE TRANSMITTERS ARE USED IN MODULE THREE, REMOVE INDICATED LEAD AND INSULATE.
5. WHEN A SPEAKERPHONE IS REQUIRED, A 148A ADAPTER MAY BE INSERTED BETWEEN CONNECTOR ONE AND PLUG ONE OF THE 634-TYPE SET.
6. TO CONVERT A KEY POSITION FROM PICKUP (LOCKING) TO SIGNALING (NONLOCKING) REMOVE THE SCREW DETAIL P-10E837 ENTIRELY FROM THE PLUNGER AT THE KEY POSITION TO BE CONVERTED. MAKE THE NECESSARY CHANGES AS SHOWN IN CONVERSION TABLES D OR E. TO CONVERT A KEY POSITION FROM NONLOCKING TO LOCKING, INSERT SCREW DETAIL P-10E837. WHEN CONVERTING A KEY FOR SIGNALING, PLACE A P-11E977 INSULATING DETAIL OVER THE 2 KEY CONTACTS ADJACENT TO KEY PLUNGER.
7. CUTOFF OF THE INTERNAL RINGER CAN BE PROVIDED BY USING THE 599B KEY IN THE FIRST MODULE. SWING BI LEAD [BR-W] (R-BL) FROM TERMINAL 3 OF THE TERMINAL BLOCK (TEL SET) TO TERMINAL 6 OF TBI; SWING LEAD [S-BK] (R) FROM TERMINAL 5 OF TBI TO TERMINAL 3 OF THE TERMINAL BLOCK (TEL SET).
8. WHEN A 599B KEY IS USED IN THE FIRST MODULE TO PROVIDE CUTOFF, SWITCHING, OR TRANSFER FEATURES: SWING LEAD [Y-BK] (Y-BR) FROM TERMINAL 6 OF TBI TO TERMINAL 56 OF TBVI THESE SERVICE FEATURES ARE PROVIDED BY MEANS OF AN AUXILIARY RELAY (229B KTU OR EQUIVALENT), SEPARATELY MOUNTED AND CONTROLLED BY THE TURN KEY CONTACTS THROUGH THE LG5,C,S,SI LEAD.

Fig. 8 — Cord and Cable Connections for 634- and 1634-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 1 of 4)

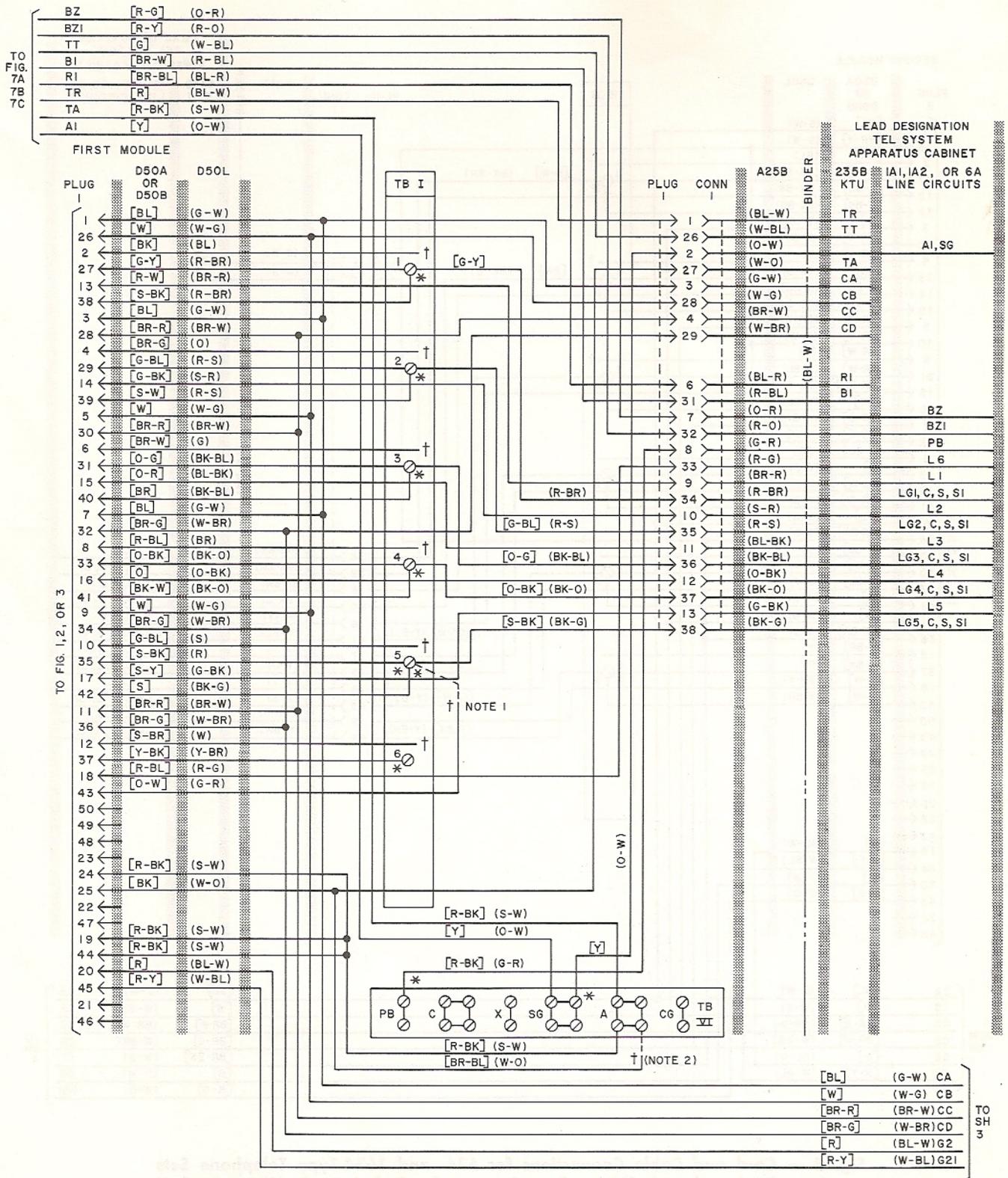


Fig. 8 — Cord and Cable Connections for 634- and 1634-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 2 of 4)

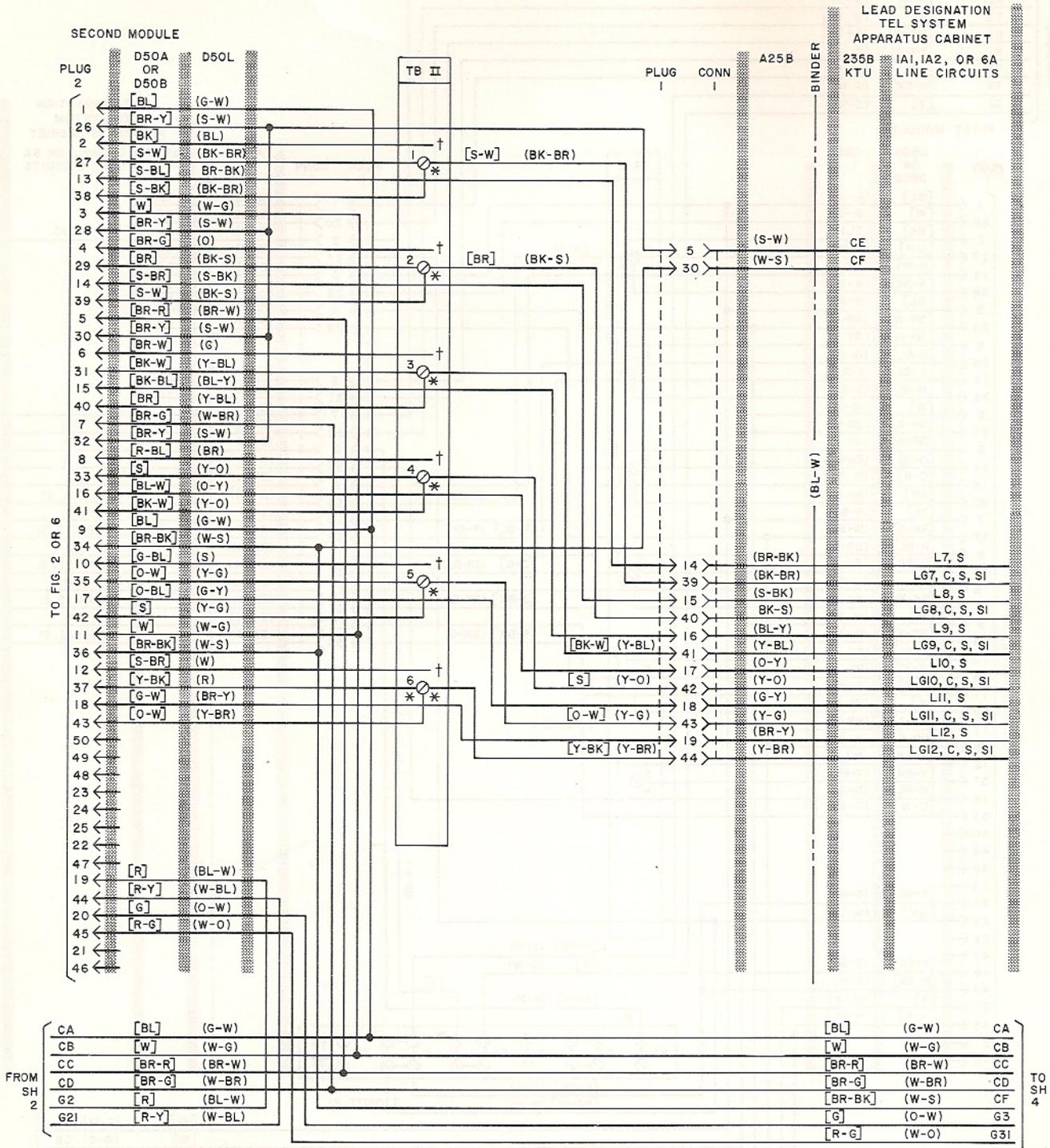


Fig. 8 — Cord and Cable Connections for 634- and 1634-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 3 of 4)

CIRCUIT SYMBOLS:

- * INDICATES LEADS ARE SPADE TIPPED.
- † INDICATES LEADS ARE SPADE TIPPED, INSULATED AND STORED.
- ‡ NOT REQUIRED FOR SPEAKERPHONE SYSTEM 3A.
- § IF CONNECTED TO CONCENTRATOR, INSULATE AND STORE THESE LEADS AT THE TERMINAL.
- () INDICATES CURRENT COLOR CODE.
- [] INDICATES MD COLOR CODE.

NOTES:

1. WHEN 599A OR 599B KEYS ARE USED IN FIRST MODULE, HOLD KEY LAMP (6TH LAMP) MAY BE USED FOR A MISCELLANEOUS VISUAL SIGNAL. CONNECT INDICATED LEAD TO AN AVAILABLE LAMP GROUND. WHEN 598A KEY IS USED IN FIRST MODULE, INDICATED LEAD IS CONNECTED TO GROUND ON TERMINAL 5 OF TBI.
2. WHEN 598A KEY IS USED IN FIRST MODULE, INDICATED LEAD IS CONNECTED TO TERMINAL 1A OF TB VI.
3. WHEN 598A KEY IS USED IN THIRD MODULE, INDICATED LEAD MAY BE CONNECTED TO TERMINAL 5 OF TB III IN 634 SET AND TO TERMINAL 6 OF TB III IN 635 SET.
4. WHEN A SPEAKERPHONE IS REQUIRED, A 148A ADAPTER MAY BE INSERTED BETWEEN CONNECTOR ONE AND PLUG ONE OF THE 635-TYPE SET.
5. TO CONVERT A KEY POSITION FROM PICKUP (LOCKING) TO SIGNALING (NONLOCKING) REMOVE THE SCREW DETAIL P-10E837 ENTIRELY FROM THE PLUNGER AT THE KEY POSITION TO BE CONVERTED. MAKE THE NECESSARY CHANGES AS SHOWN IN TABLES D OR E. TO CONVERT A KEY POSITION FROM NONLOCKING TO LOCKING, INSERT SCREW DETAIL P-10E837. WHEN CONVERTING A KEY FOR SIGNALING, PLACE A P-11E979 INSULATING DETAIL OVER THE 2 KEY CONTACTS ADJACENT TO KEY PLUNGER.
6. CUTOFF OF THE INTERNAL RINGER CAN BE PROVIDED BY USING THE 599B KEY IN THE FIRST MODULE. SWING BI LEAD [BR-W] (R-BL) FROM TERMINAL 3 OF THE TERMINAL BLOCK (TEL SET) TO TERMINAL 6 OF TBI; SWING LEAD [S-BK] (R) FROM TERMINAL 5 OF TBI TO TERMINAL 3 OF THE TERMINAL BLOCK (TEL SET).
7. WHEN A 599B KEY IS USED IN THE FIRST MODULE TO PROVIDE CUTOFF, SWITCHING, OR TRANSFER FEATURES; SWING LEAD [Y-BK] (Y-BR) FROM TERMINAL 6 OF TBI TO TERMINAL SG OF TB VI. THESE SERVICE FEATURES ARE PROVIDED BY MEANS OF AN AUXILIARY RELAY (229B KTU OR EQUIVALENT), SEPARATELY MOUNTED AND CONTROLLED BY THE TURN KEY CONTACTS THROUGH THE LG5, C, S, SI LEAD.

Fig. 9 — Cord and Cable Connections for 635- and 1635-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 1 of 6)

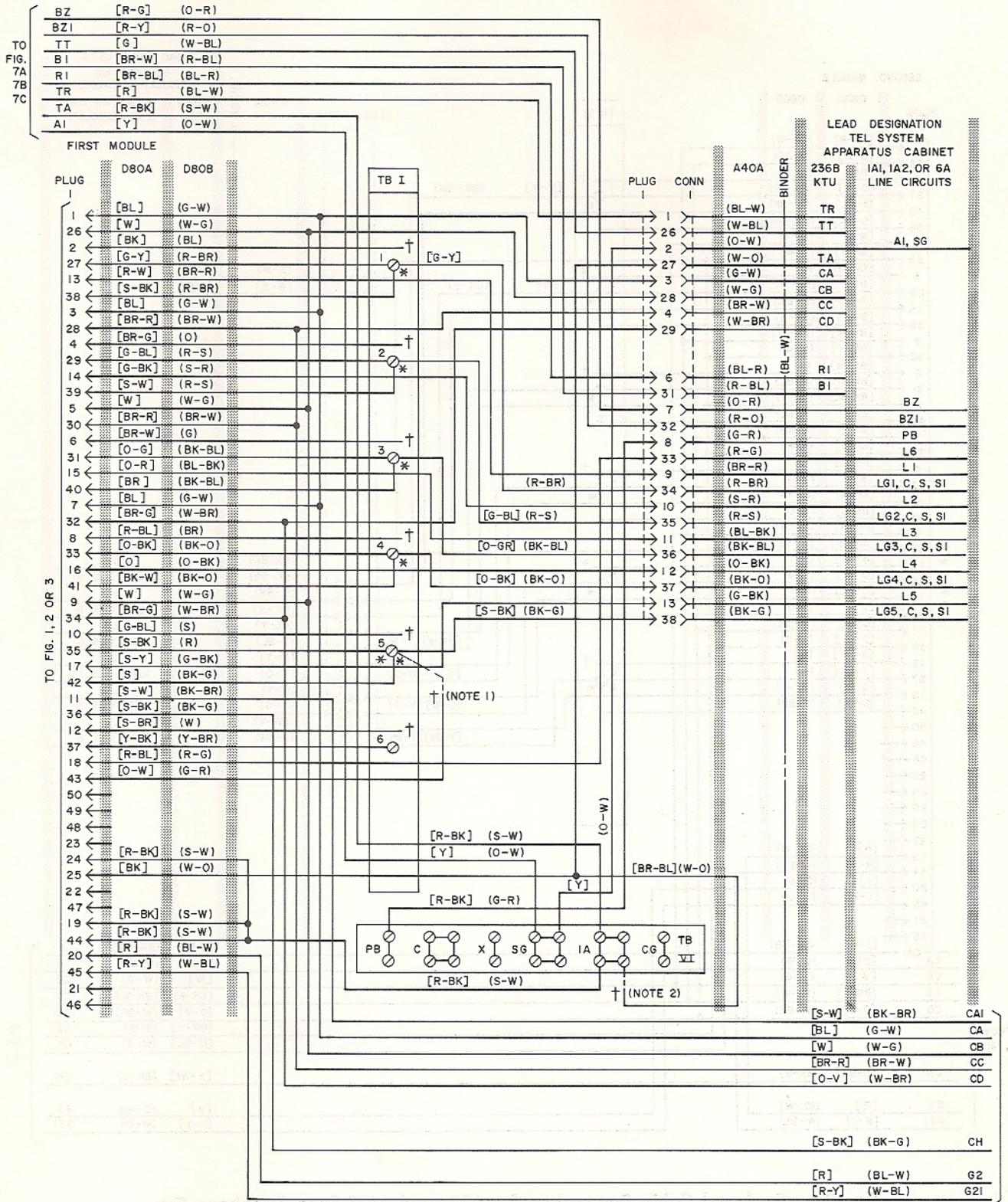


Fig. 9 — Cord and Cable Connections for 635- and 1635-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 2 of 6)

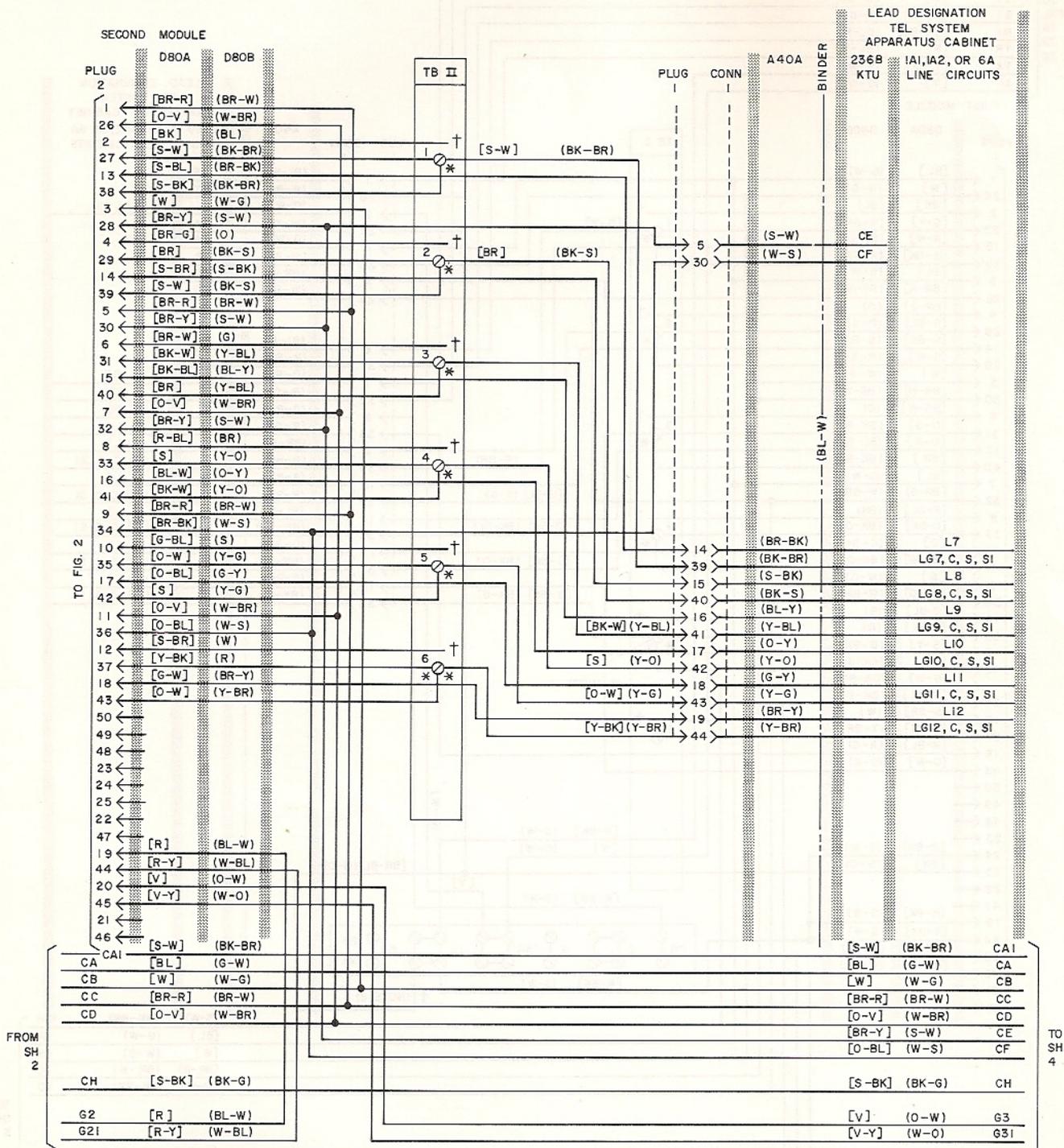


Fig. 9 — Cord and Cable Connections for 635- and 1635-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 3 of 6)

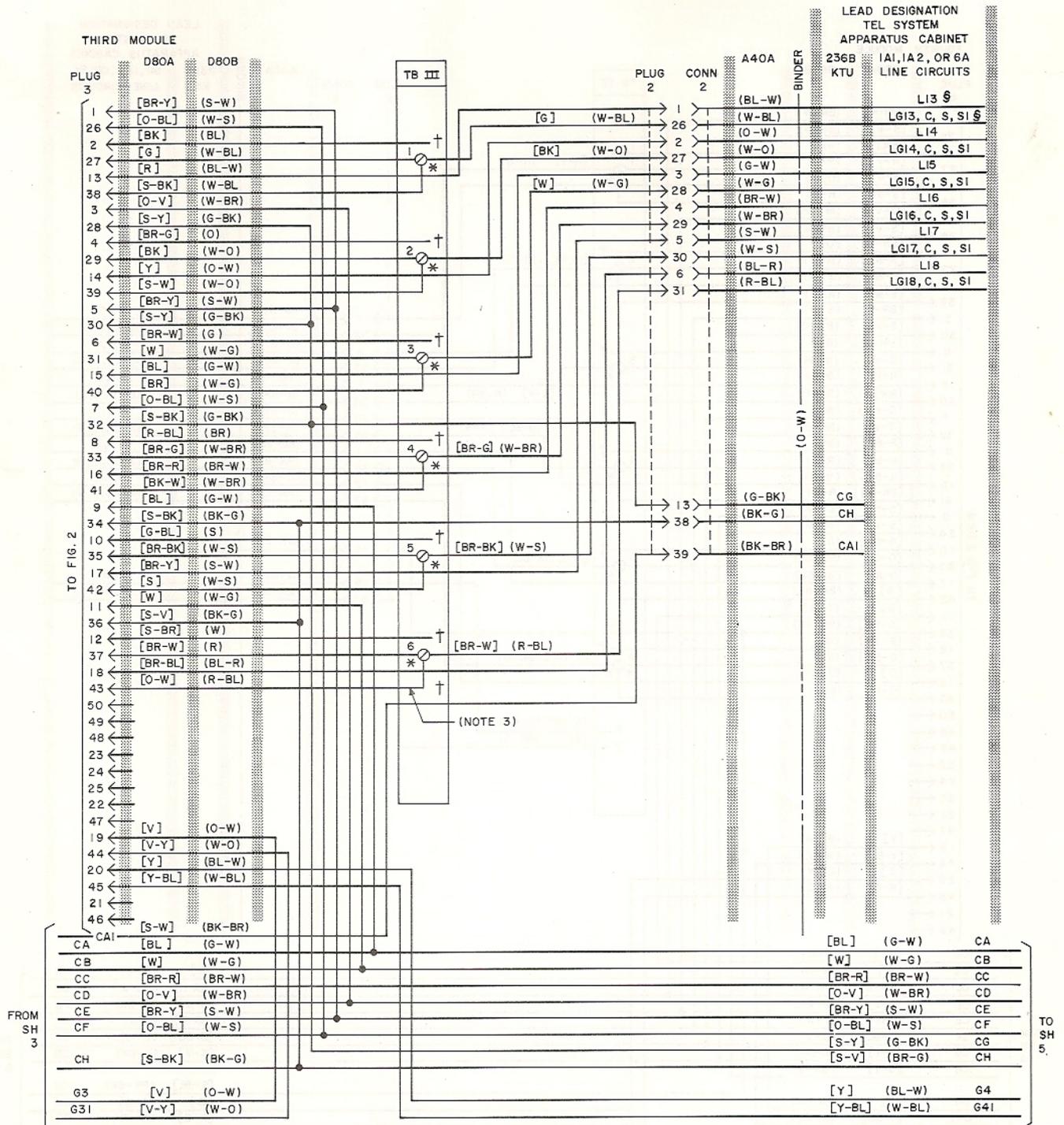


Fig. 9 — Cord and Cable Connections for 635- and 1635-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 4 of 6)

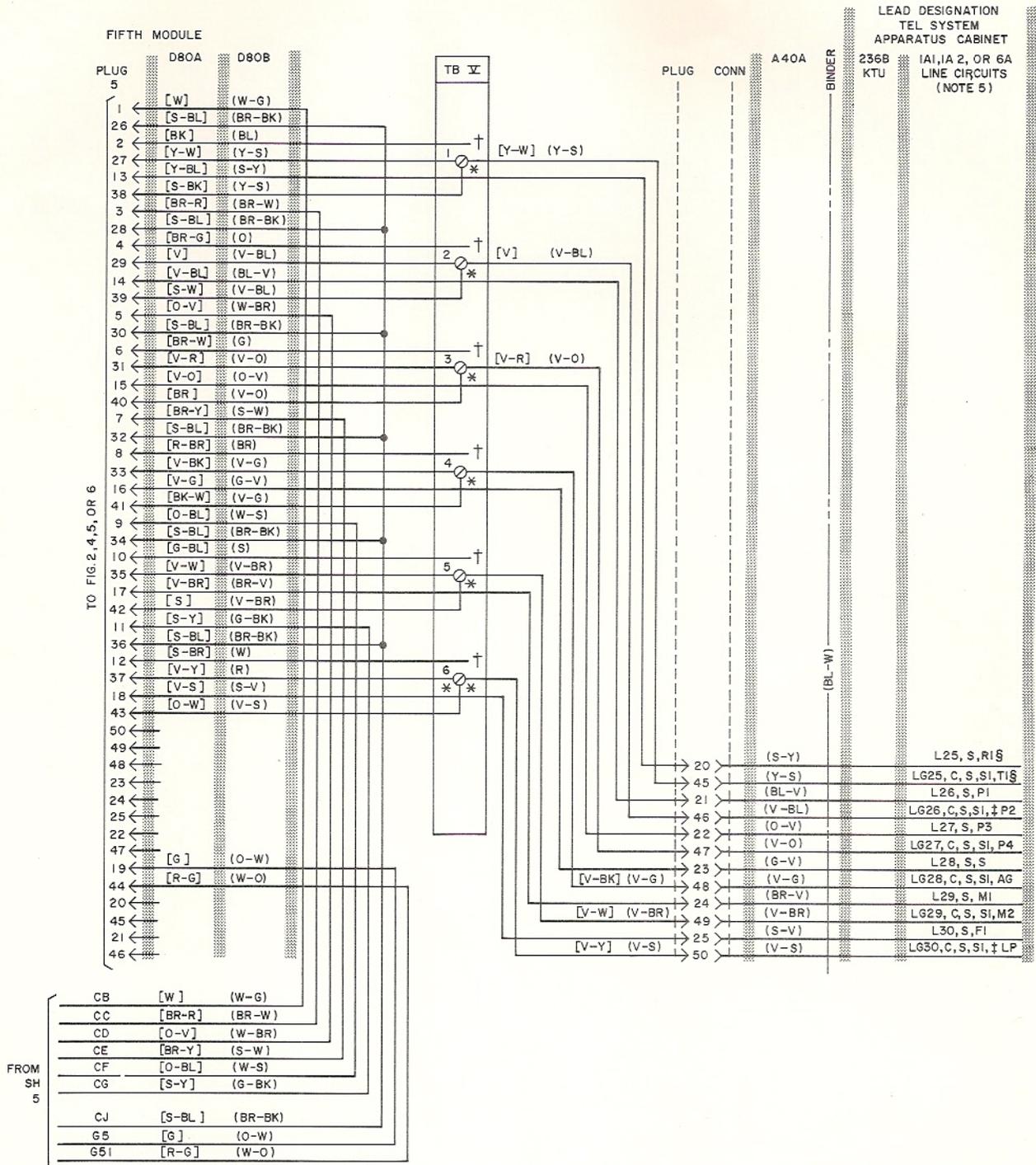


Fig. 9 -- Cord and Cable Connections for 635- and 1635-Type Telephone Sets Equipped with MD or Even-Count Color-Coded Cords (Sheet 6 of 6)