

## SERVICE

### 634DA AND 635DA TELEPHONE SETS

#### 1. GENERAL

**1.01** This section contains connection and maintenance information for 634DA (18-button) and 635DA (30-button) CALL DIRECTOR® telephone sets used with station line concentrators.

**1.02** This section is reissued to:

- Add information on 840157671 insulating detail
- Change part number of contact strip
- Change Tables A and B
- Reference 4-type speakerphone

#### 2. CONNECTIONS

**2.01** These sets are factory-wired for use with 1A1, 1A2, or 6A key telephone systems. Refer to Division 518 for connections to the 235- or 236-type key telephone units.

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

**2.03** ▶The 634DA and 635DA sets are equipped with a 635A5C (5-line pickup and hold) in the first module position. This may be replaced with a 635AD5C (4-line pickup, cutoff, and hold) key. Contact strip assemblies differ between the two keys. If ordered for field replacement, the 635AD5C is furnished with a piggy-back adapter in the cut-off key position, for storing the slate mounting cord plug associated with the fifth line. The necessary contact strip assemblies (840151039 and 840151047) will be shipped with the 635AD5C

and will replace the 840151120 and 840151138 assemblies supplied with the 635A5C key.▶

**2.04** Because of the physical arrangement of the 635-type key, the contact strips do not extend to the chaining switch. This requires additional A1 leads to each module (except the last), to extend A lead.

**2.05** Mounting cords of these CALL DIRECTOR sets terminate in individual plugs connected to the rear of the keys. This permits rearrangement of line appearance either in the set or at the key equipment distribution point. Current production sets are equipped with a satin-silver (-87) mounting cord.

**2.06** All line key positions are convertible from pickup (locking) to signaling (nonlocking). To convert a key position, remove the P-28E773 screw detail from key position involved and ▶place 840157671 insulating details over the two key contacts adjacent to the plunger (refer to Section 512-230-101).▶ Make the necessary wiring changes as shown in Table A for 634DA and Table B for 635DA.

**Note:** ▶If more than six signaling keys are required, replace 635G5C key in last module with a 658A key.▶

**2.07** The 634DA and 635DA telephone sets are factory-equipped with a KS-20419L1 (10 volt AC only) buzzer.

**2.08** For 3-type speakerphone operation, a 679A transmitter may be installed in the 3rd (634DA) or 5th (635DA) module. For necessary wiring changes and connections, see Table C. Replace the 8R dial with 8C dial.

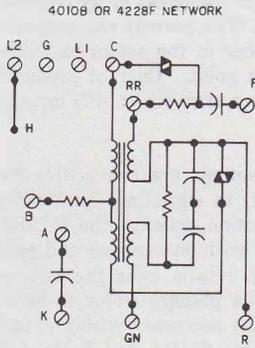
**2.09** ▶For use with a 4-type speakerphone, refer to Section 512-730-400.▶

3. MAINTENANCE

3.01 For maintenance information, refer to Division 502 section entitled 630, 1630, and 2630 Series Telephone Sets—Common Installation and Maintenance Information. Individual components

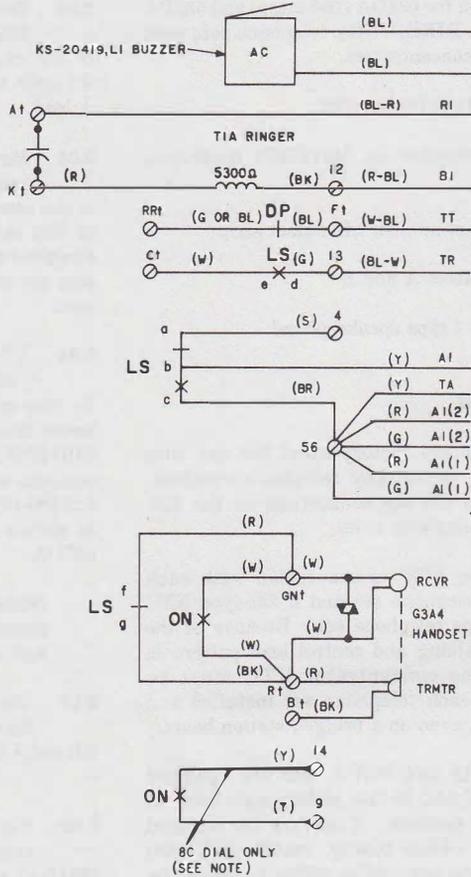
such as dials, keys, ringers, etc. are covered in sections located in Division 501.

3.02 *Do not use solvents to clean plastic parts of these sets.* Use a damp cloth only. If discolored, replace part.



NOTE:  
BOTH SETS USE 8R DIAL, EXCEPT WHEN 3RD OR 5TH MODULE IS EQUIPPED WITH 679A TRANSMITTER FOR SPEAKERPHONE USE. REPLACE 8R DIAL WITH 8C DIAL (ORDERED SEPARATELY) AND MAKE CONNECTIONS PER FIG. 1 AND 4.

† TERM. ON NETWORK  
LS—LINE SWITCH  
DP—DIAL PULSE CONTACTS  
ON—DIAL OFF NORMAL CONTACTS



FROM FIG. 2 OR 3 SHEET 1

Fig. 1—634DA and 635DA Telephone Set Connections

**TABLE A**  
**PICKUP-SIGNAL KEY CONVERSION—634DA TELEPHONE SET (THIRD MODULE ONLY)**

NO. OF SIGNAL KEYS	KEY PLUG LEADS																							
	1ST PICKUP				2ND PICKUP				3RD PICKUP				4TH PICKUP				5TH PICKUP				6TH PICKUP			
	BL	Y-S	BR-W	W-S	O	V-BL	W-BR	W-S	G	V-O	G-W	V-S	BR	V-G	W-G	V-S	S	V-BR	BR-W	V-S	W	V-S	W-BR	V-S
1	*	50	59	62	*	51	60	62	*	52	58	63	*	53	57	63	*	54	59	63	10	†	*	*
2	*	50	59	62	*	51	60	62	*	52	58	63	*	53	57	63	10	†	*	*	10	†	*	*
3	*	50	59	62	*	51	60	62	*	52	58	63	10	†	*	*	10	†	*	*	10	†	*	*
4	*	50	59	62	*	51	60	62	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*
5	*	50	59	62	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*
6	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*

\* Insulated and stored.

† From LG terminal of plugs — insulate and store.

**TABLE B**  
**PICKUP-SIGNAL KEY CONVERSION—635DA TELEPHONE SET (FIFTH MODULE ONLY)**

NO. OF SIGNAL KEYS	KEY PLUG LEADS																							
	1ST PICKUP				2ND PICKUP				3RD PICKUP				4TH PICKUP				5TH PICKUP				6TH PICKUP			
	BL	Y-S	W-G	BR-BK	O	V-BL	BR-W	BR-BK	G	V-O	W-BR	BR-BK	BR	V-G	S-W	BR-BK	S	V-BR	W-S	BR-BK	W	V-S	G-BK	BR-BK
1	*	50	57	65	*	51	59	65	*	52	60	65	*	53	61	65	*	54	62	65	10	†	*	*
2	*	50	57	65	*	51	59	65	*	52	60	65	*	53	61	65	10	†	*	*	10	†	*	*
3	*	50	57	65	*	51	59	65	*	52	60	65	10	†	*	*	10	†	*	*	10	†	*	*
4	*	50	57	65	*	51	59	65	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*
5	*	50	57	65	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*
6	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*	10	†	*	*

\* Insulated and stored.

† From LG terminal of plugs — insulate and store.

NOTES FOR FIGURES 2 AND 3:

1. THE 635AD5C KEY IS SUPPLIED WITH AN ADAPTER IN THE CUTOFF KEY POSITION. THE SLATE MOUNTING CORD PLUG CONNECTS TO THE ADAPTER. BALANCE OF PLUGS CONNECT DIRECTLY TO KEY.
2. IF A 635AD5C KEY IS ADDED IN THE FIELD, TERMINATE THE (BL-Y) AND (Y-BL) ADAPTER LEADS AS INDICATED IN NOTE 6 AND REMOVE (R) SLATE PLUG LEAD FROM TERMINAL 22. INSULATE AND STORE.
3. IF THE HOLD POSITION LAMP (6TH) 635A5C OR 635AD5C KEY IN THE FIRST MODULE IS USED FOR A VISUAL SIGNAL, REMOVE (Y-G) LAMP GROUND LEAD FROM STORED LOCATION IN FIRST MODULE AND CONNECT TO TERMINAL 22. CONNECT INSULATED AND STORED (G-Y) LAMP LEAD AND (R-G) MTG CORD LEAD USING SPARE TERMINAL OR D-161488 CONNECTOR.
4. IN SETS EQUIPPED WITH A 658A KEY, THE (G) CONTACT STRIP LEAD IS TERMINATED ON TERMINAL 10 AND (R) ON 11. IF A 658A KEY IS ADDED IN THE FIELD, LEADS MUST BE MOVED FROM PRECEDING MODULE CHAINING CIRCUIT TO TERMINALS 10 AND 11. PROVISIONS ARE MADE FOR MECHANICALLY STORING THE LIGHT BEIGE PLUG ON THE 658A KEY. NO ELECTRICAL CONNECTION IS MADE.
5. WHEN THE 658A KEY IS REQUIRED AS A DUAL PURPOSE KEY, REMOVE STRAP BETWEEN TERMINALS 10 AND 11. USE MIW CORD OR EQUIVALENT TO CONNECT TERMINAL 11 TO A DISSIMILAR GROUND OR NONGROUNDED CIRCUIT.
6. CUTOFF OF THE INTERNAL RINGER CAN BE PROVIDED USING THE 635AD5C KEY IN FIRST MODULE. TRANSFER B1 (R-BL) LEAD FROM TERMINAL 12 AND (BL-Y) ADAPTER LEAD TO SPARE TERMINAL OR D-161488 CONNECTOR. REMOVE (W-G) LEAD (SLATE PLUG) FROM TERMINAL 57 AND CONNECT TO 12.
7. WHEN 635AD5C KEY IS USED IN FIRST MODULE TO PROVIDE CUTOFF, SWITCHING, OR TRANSFER FEATURES, MOVE (W-BR) SLATE PLUG LEAD FROM TERM. 60 TO TERMINAL 11. THESE SERVICE FEATURES ARE PROVIDED BY AN AUXILIARY RELAY (229B KTU OR EQUIVALENT) SEPARATELY MOUNTED AND CONTROLLED BY THE CUTOFF KEY CONTACTS THROUGH LG5, C, S, S1 LEAD.
8. CONTROL LEADS CA TO CJ ARE CONNECTED TO TERMINALS 57 TO 65. THESE TERMINALS APPEAR ON MORE THAN ONE OF THE MODULE SHEETS OF FIG. 2 AND 3 BUT ARE THE SAME TERMINAL.

\* INSULATED AND STORED

† DEAD DRESSED

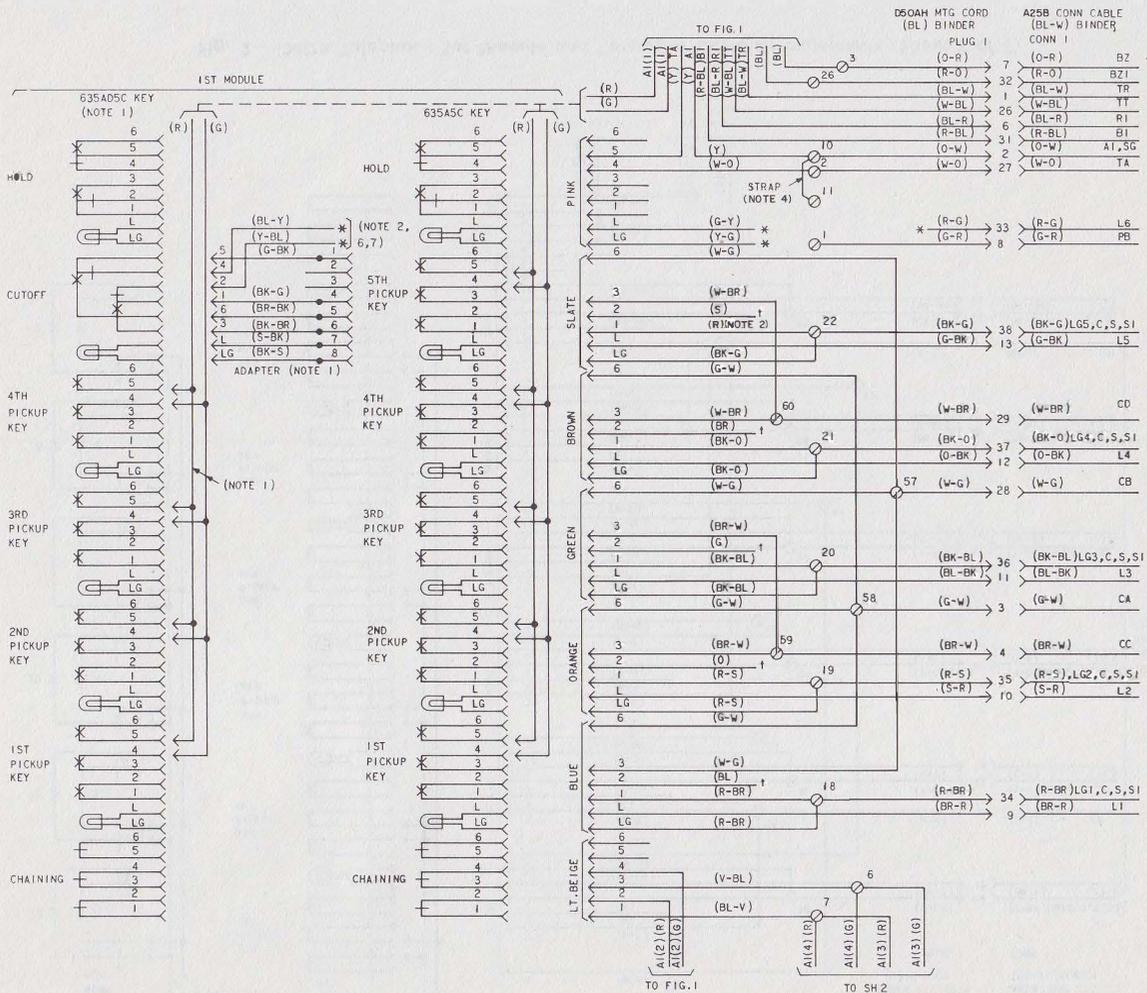


Fig. 2—634DA Telephone Set Module and Connector Cable Arrangements (Sheet 1 of 3)

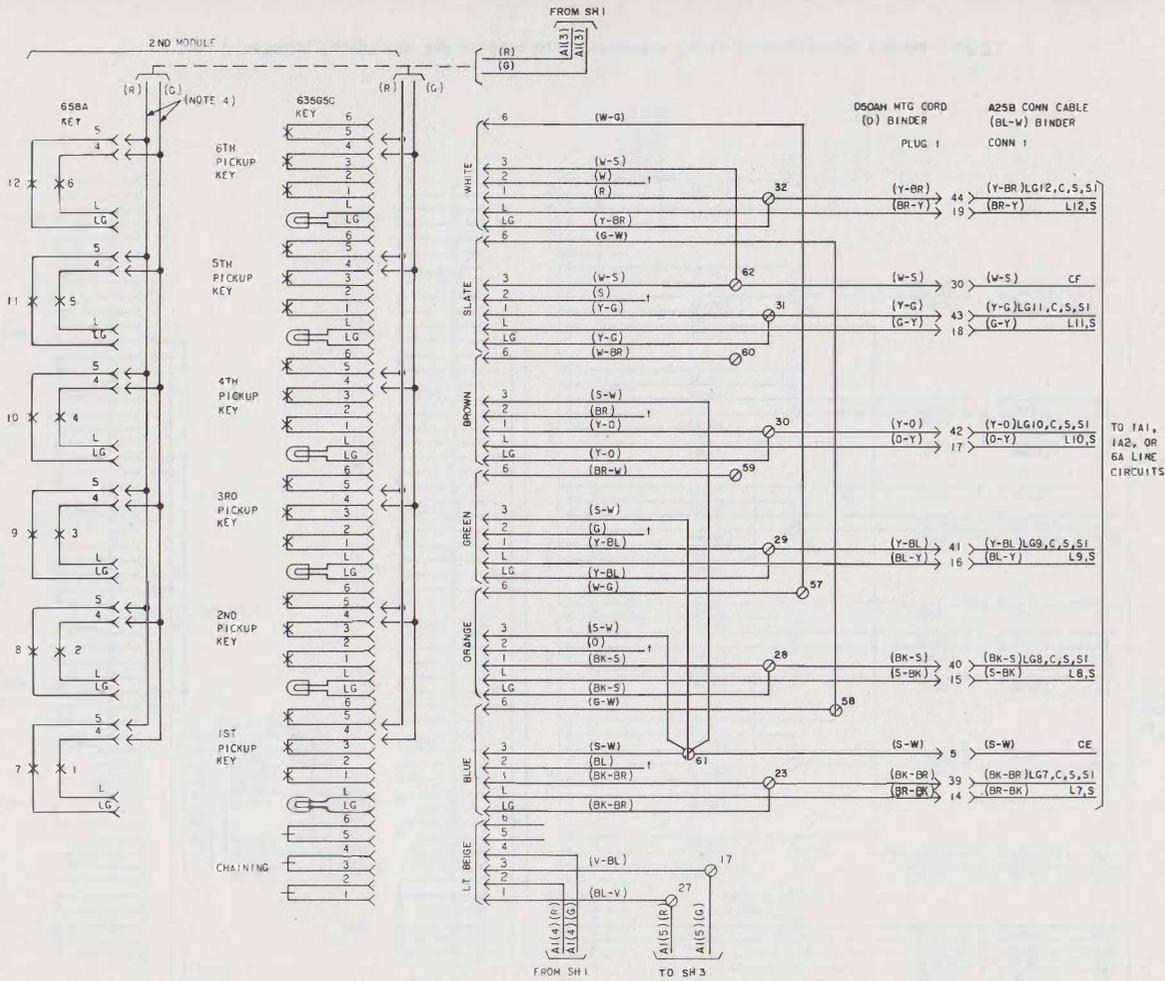


Fig. 2—634DA Telephone Set Module and Connector Cable Arrangements (Sheet 2 of 3)

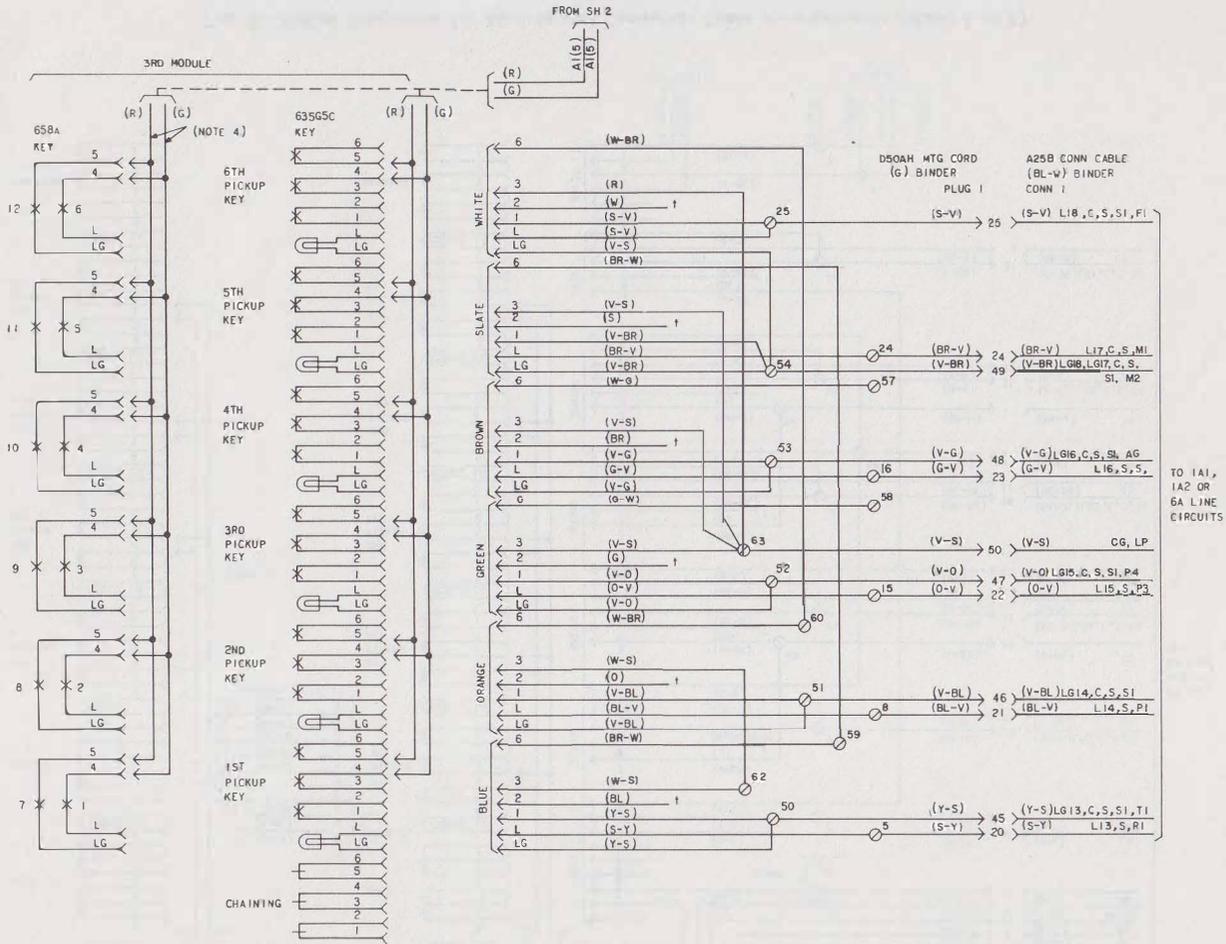


Fig. 2—634DA Telephone Set Module and Connector Cable Arrangements (Sheet 3 of 3)





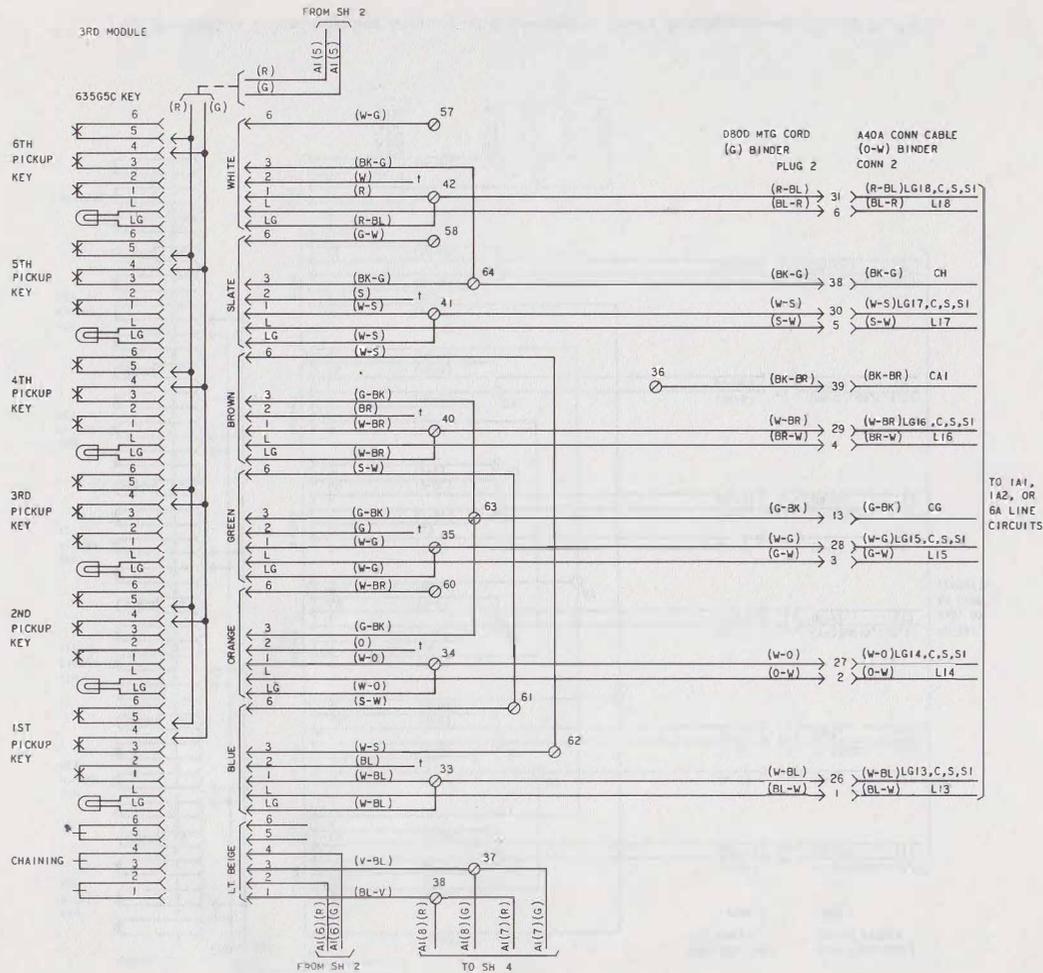


Fig. 3—635DA Telephone Set Module and Connector Cable Arrangements (Sheet 3 of 5)

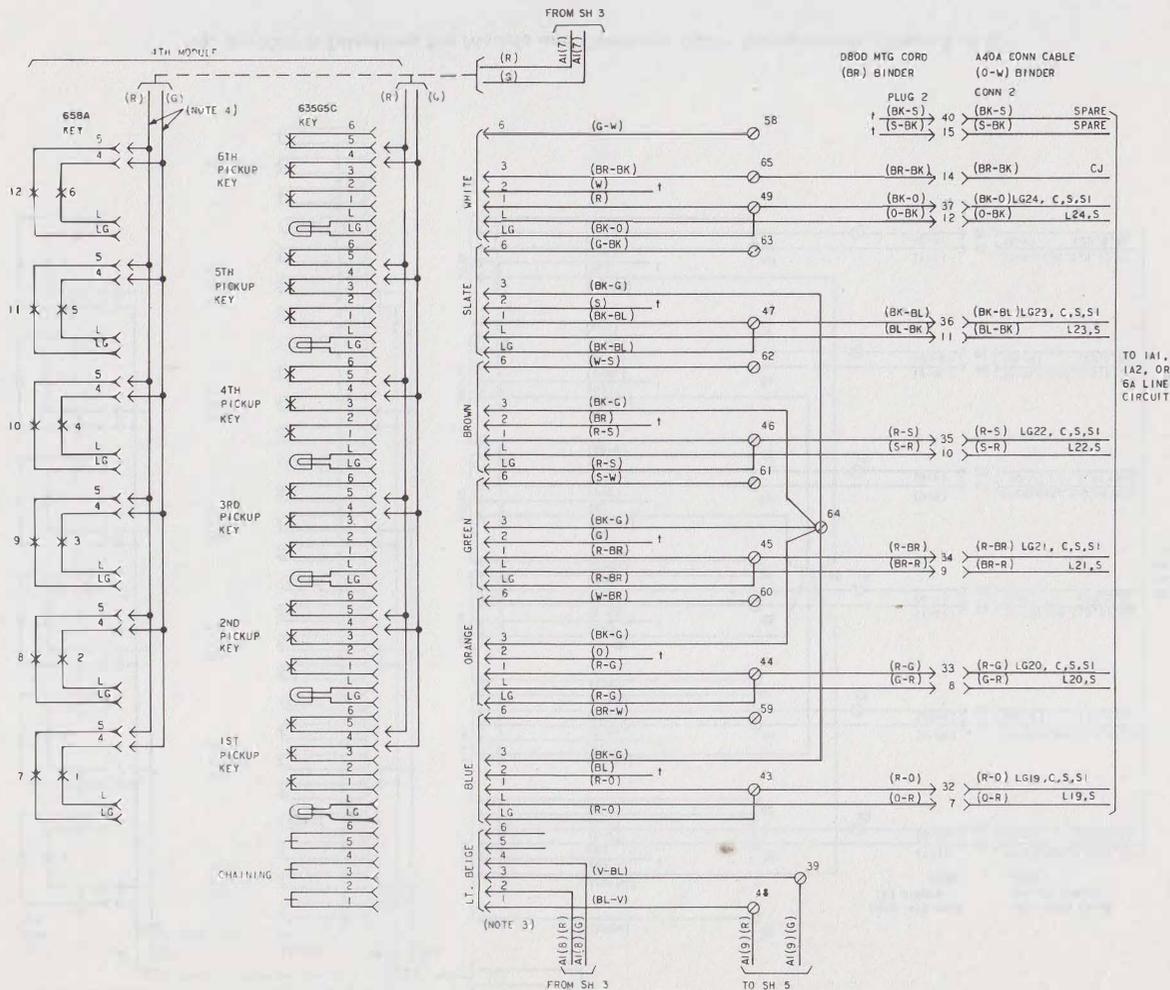


Fig. 3—635DA Telephone Set Module and Connector Cable Arrangements (Sheet 4 of 5)

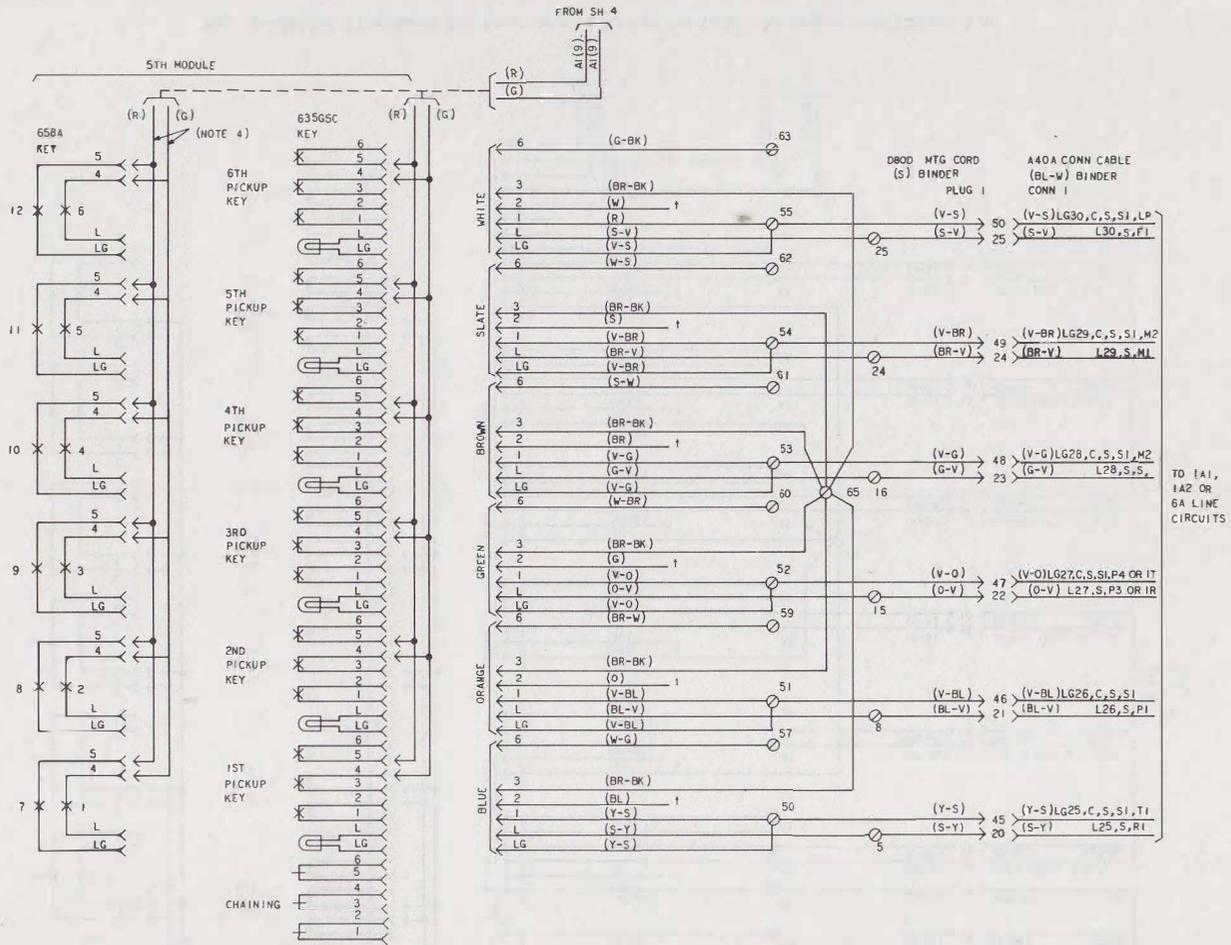


Fig. 3—635DA Telephone Set Module and Connector Cable Arrangements (Sheet 5 of 5)

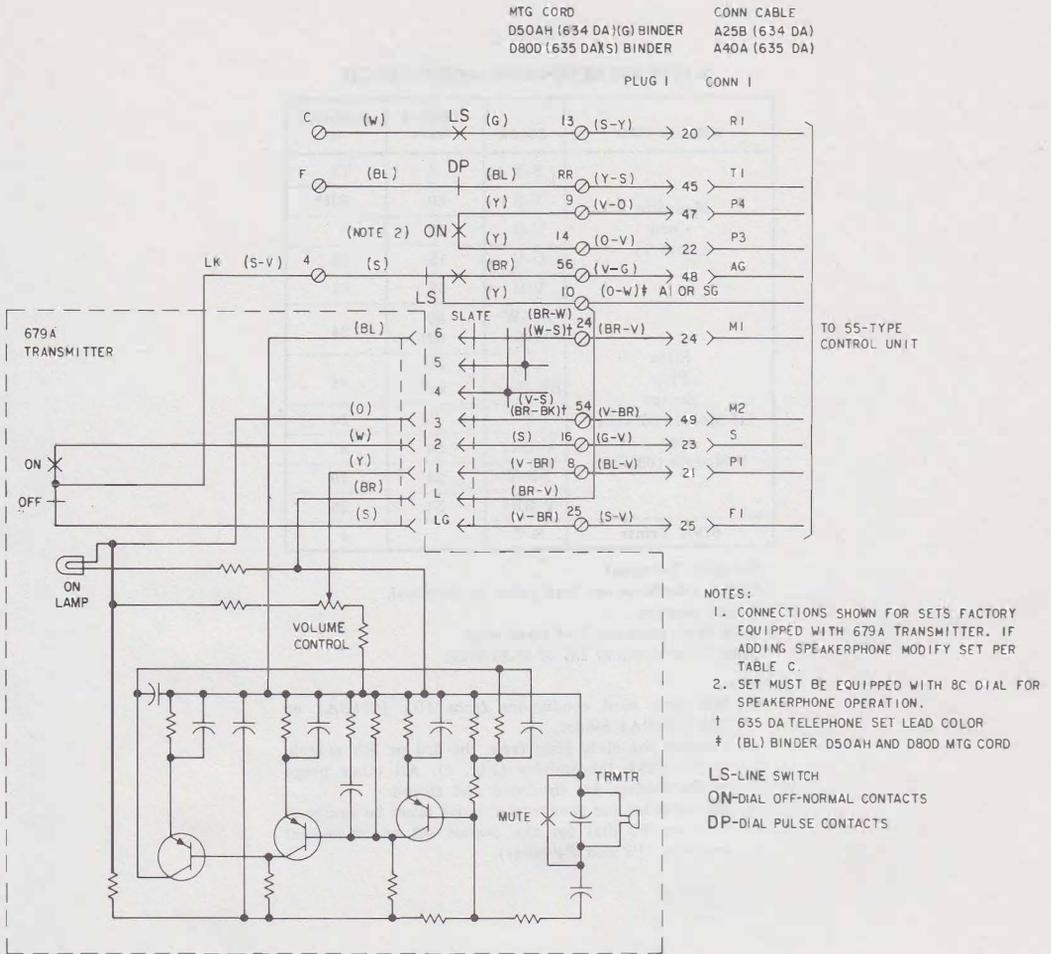


Fig. 4—3-Type Speakerphone Connections

**TABLE C**  
**3-TYPE SPEAKERPHONE MODIFICATION**

WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO
Mounting Cord (Note 1)	S-Y	5	13
	Y-S	50	RR*
	V-●	52	9
	●-V	15	14
	V-G	53	56
Slate Plug Straps III Module (634DA) or V Module (635DA)	BR-W	59	24
	W-S†	62†	
	V-S	63	54
	BR-BK†	65†	
	S	‡	16
	V-BR§	54	8
BR-V	24	10	
679A Trmtr	V-BR¶	54	25
	S-V		4

\* Network Terminal.

† 635DA telephone set lead color or terminal.

‡ Stored location.

§ Lead from terminal 1 of slate plug.

¶ Lead from terminal LG of slate plug.

**Notes:**

1. Mounting cord conductors from (G) (634DA) or (S) (635DA) binder.
2. Connect the slate plug from the 3rd or 5th module to the 679A transmitter (Fig. 4). All other plugs in the module are insulated and stored.
3. Set intended for speakerphone use must be equipped with an 8C dial for the second set of off-normal contacts (P3 and P4 leads).