SERVICE

2630- AND 2631-TYPE TELEPHONE SETS CONNECTIONS AND MAINTENANCE

1. GENERAL

1.01 This section contains information for the 2630DA (MD), 26630DAM (MD), or 2630DAMS1 (18-button) and 2631DA (MD), 2631DAM (MD), or 2631DAMS1 (30-button) (Fig. 1, 2, and 3) telephone sets. These sets may be equipped with different modular key arrangements. The telephone sets will accommodate 635-type or 658A keys, 76A lamp sockets, and/or a 679A (MD) internal transmitter.

1.02 This section is reissued to:

- Show the 2630DAM and 2631DAM telephone sets MD
- Add the 2630DAMS1 and 2631DAMS1 telephone sets
- Add new Fig. 1
- Revise Tables A, B, C, and E
- Add new 841364376 polarity guard.

1.03 The new S coded telephone sets are similar to the previous type sets except they are equipped with a new line switch which breaks both the tip and ring side of the line. Previous type sets only broke the ring side of the line.

2. CONNECTIONS

2.01 The 2630- and 2631-type telephone sets were equipped with a 635A5C (5-line pickup and hold) or a 635AD5C (4-line pickup, cutoff, and hold) key in the first module position. ♦Current 2630- and 2631-type sets are only equipped with a 635A5C key in the first module position.♦ Contact strip assemblies [required with sets equipped with a D120K (MD) or D200S (MD) mounting cord] 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.

Note: Contact strips are not required with sets equipped with a D120M or D200AA mounting cord or sets equipped with a modified D120K or D200S mounting cord.

2.02 The 2630DAM (MD) and 2631DAM (MD) modular telephone sets are similar to the 2630DA (MD) or 2631DA (MD), respectively, except the modular G15A handset with its associated H4DU cord and 616E jack assembly are used in place of the hard wired G3A-type handset. ♦The S coded sets also use the same modular handset, cord, and jack.♥

2.03 Because of the physical arrangement of the 635-type key, the contact strips do not extend to the chaining switch. This requires a second tip and ring conductor to each module (except the last). See Fig. 4, Sheets 1 through 5.

- 2.04 The line conductors of the mounting cords for these sets terminate in individual plugs on a per line basis and are connected to the rear of the keys. This permits rearrangement of line appearances either in the set or at the key equipment distribution point.
- 2.05 These sets can be used with 1A, 1A1, 1A2, 6A, or 6B KTS. Refer to Table A or B for key modular arrangements.

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- 2.06 Refer to Table C for connections when 635AD5C cut off key is used in first module.
- 2.07 All line pickup key positions are convertible to signaling cr common signaling arrangements by removing the 812857738 (P-28E773) screw from key positions involved and making the necessary wiring changes per Table D.
- 2.08 A KS-20419L1 (10 volt ac only) buzzer is factory-installed for use as a second audible signal, when required. This arrangement uses (S-Y) and (Y-S) mounting cord conductors from (O) binder in the second module (Fig. 4).
- 2.09 These sets may be used with either the 3-type (MD) or 4A speakerphone systems.
- 2.10 Sets may be equipped for 3-type (MD) speakerphone by the addition of a 679A (MD) transmitter in the 3rd (2630-type) or 5th (2631-type) module (Fig. 5). Refer to Section 512-620-440 for necessary wiring changes and connections.
- 2.11 When the 3-type (MD) speakerphone control unit is located near the telephone set and an internal transmitter (679A) is used, an A25B connector cable should be plugged into the last mounting cord plug and terminated on the 55-type control unit terminal board.
- 2.12 To retain the maximum number of keys in the CALL DIRECTOR telephone sets and still have 3-type (MD) speakerphone feature, a 666A (MD) or 666B (MD) transmitter and 760A (MD) loudspeaker may be installed as adjuncts to the telephone set. Spare leads and hold key lamp leads from the first module are used to supply the external speakerphone function. When control unit and telephone set are at same location, an auxiliary mounting cord (D10R) may be used. Refer to Section 512-620-440 for complete connections to 3-type (MD) speakerphone.
- 2.13 Refer to Section 512-730-400 for connections to the current 4A speakerphone system.
- 2.14 The hold key in the first module is used for normal hold functions or if required I Hold. An additional hold key can be installed in the second key module location for Priority Hold. The D-180411 Kit of Parts consisting of a 635A5C key, two contact strip assemblies, and a pink plug

assembly must be ordered separately for **Priority** Hold.

- (a) Install as follows.
 - (1) Unplug and remove existing 635G5C key from second module.
 - (2) Install contact strips and associated leads if applicable (see note).

Note: Contact strips are not required with sets equipped with a D120M or D200AA mounting cord or sets equipped with a modified D120K or D200S mounting cord.

- (3) Place the pink plug assembly from the kit of parts into the hold position on the 635A5C key. Insulate and store the white set plug. Place the remaining set plugs into there proper positions on the key.
- (4) Make the necessary wiring connections and modifications as shown in Fig. 6.

2.15 When required, these sets may be equipped with a polarity guard. Polarity guards should be installed only when specified by local instructions for end-to-end signaling purposes when battery and ground reversals are encountered. An 840364376 guard assembly must be ordered separately and connected as shown in Table E.

2.16 For station busy lamp feature with 3-type (MD) or 4A speakerphone system, refer to Fig. 7 and 8, respectively.

3. MAINTENANCE

3.10 Maintenance of these sets should be limited to replacement of items available through regular supply channels. Refer to the reference Section 502-603-100.

3.02 Maintenance of components of these sets such as dials, ringers, etc. is covered in sections pertaining to the particular component. Maintenance information common to CALL DIRECTOR sets can be found in Section 502-600-100.

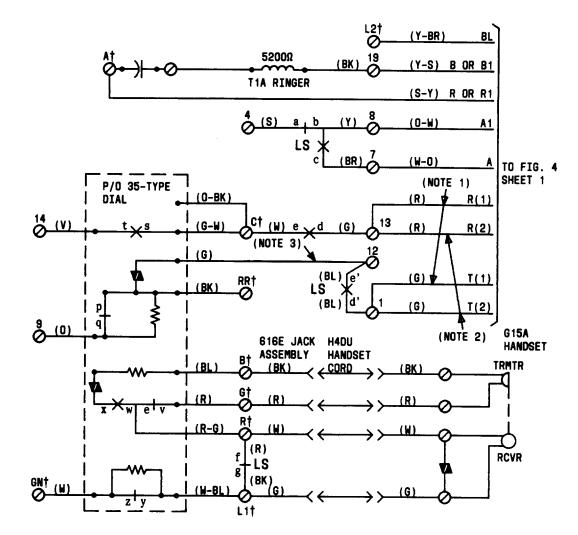
3.03 Do not use solvents to clean plastic parts of these sets. Use a damp cloth only. If discolored, replace part.

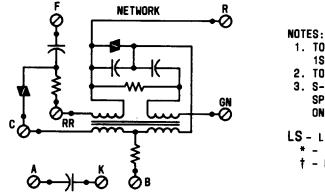
\$TABLE A

1A, 1A1, AND 1A2 CONVERSION-2630DA (MD), 2630DAM (MD), AND 2630DAMSI TELEPHONE SETS

	LEAD											
KEY MODULE	HOLD KEY				CHAINING PLUG				CONTACT STRIP OR PLUG LEAD			LINE SW.
ARRANGEMENT	Y	G	BR-V	V-BR	V-G 1ST MOD	V-G 2ND MOD	R 1ST MOD	R 2ND MOD	R 1ST MOD	R 2ND MOD	R 3RD MOD	Y
1A1/1A2 Only	10	10	*	*	5	15	13	11	13	11	21	8
1A1/1A2 — 1st, 2nd Mod 1A — 3rd Mod	10	35	21	40	5	35	13	11	13	11	40	8
1A1/1A2 — 1st Mod 1A — 2nd, 3rd Mod	10	35	11	40	35	15	13	40	13	40	21	8
1A Only	*	10	13	26	5	15	26	11	26	11	21	18

* Insulated and stored.





ITES:

- 1. TO MOUNTING CORD PLUGS -
 - 1ST MODULE.
- 2. TO CHAINING SWITCH 1ST MODULE.
- 3. S-CODED TELEPHONE SETS WHEN USED WITH SPEAKERPHONE MUST HAVE THE(G) DIAL LEAD ON TERMINAL 12 MOVED TO TERMINAL 1.

LS - LINE SWITCH

- * INSULATED AND STORED
- **†** NETWORK TERMINAL-UNDESIGNATED
 - TERMINALS ARE ON TERMINAL BOARD

Fig. 1—\$2630DAMS1 and 2631DAMS1 Telephone Set, Connections\$

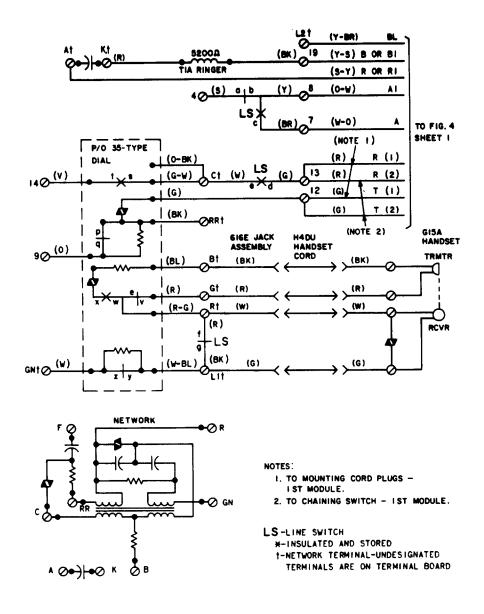


Fig. 2-\$2630DAM and 2631DAM Telephone Set, Connections

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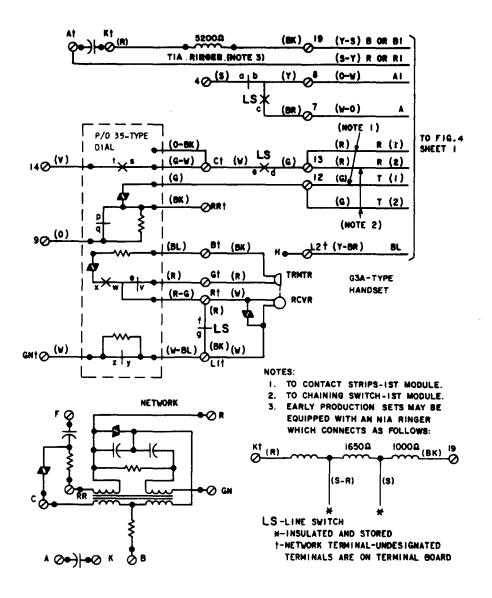


Fig. 3—2630DA (MD) and 2631DA (MD) Telephone Set, Connections

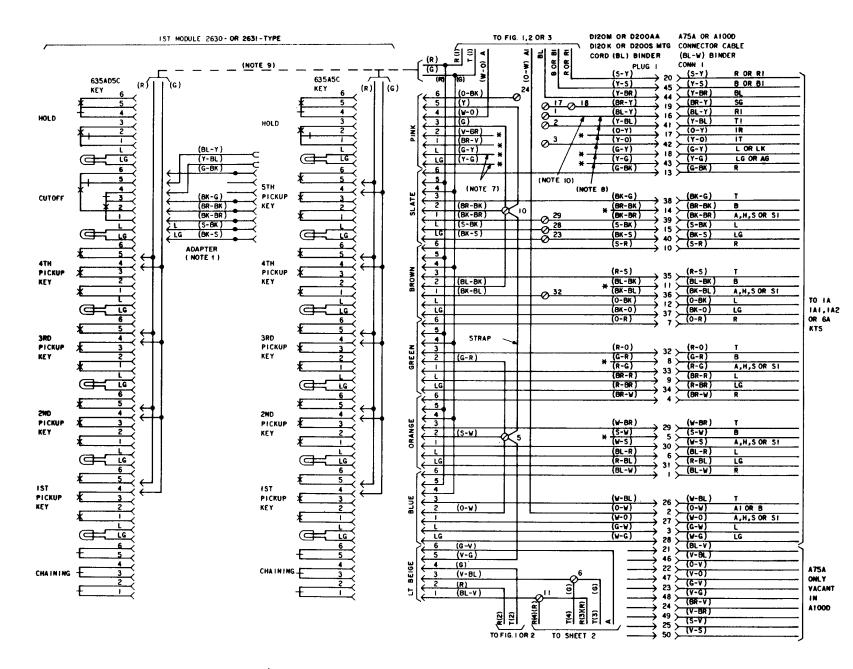


Fig. 4—♦Module and Connector Cable Arrangements (Sheet 1 of 5)♥

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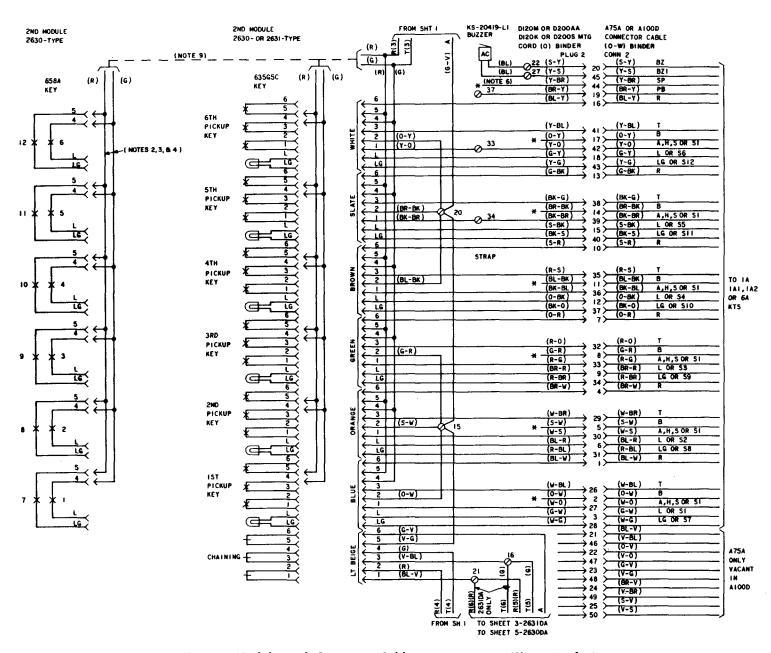


Fig. 4—Module and Connector Cable Arrangements (Sheet 2 of 5)

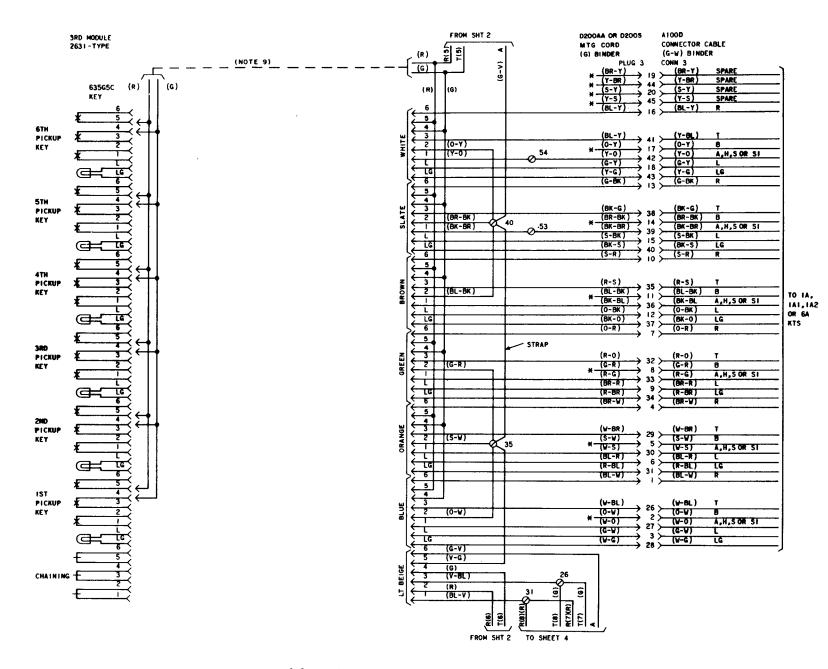
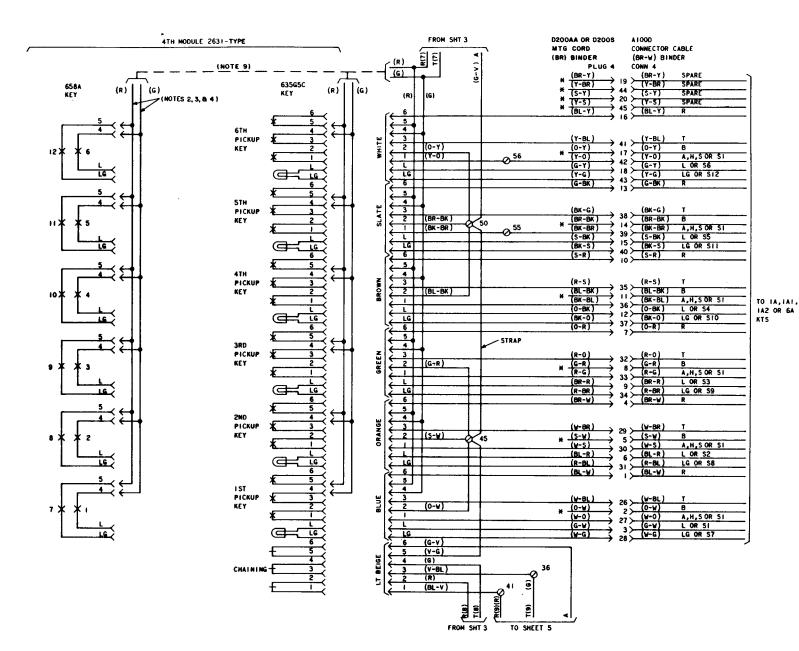


Fig. 4—Module and Connector Cable Arrangements (Sheet 3 of 5)

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Fig. 4—Module and Connector Cable Arrangements (Sheet 4 of 5)

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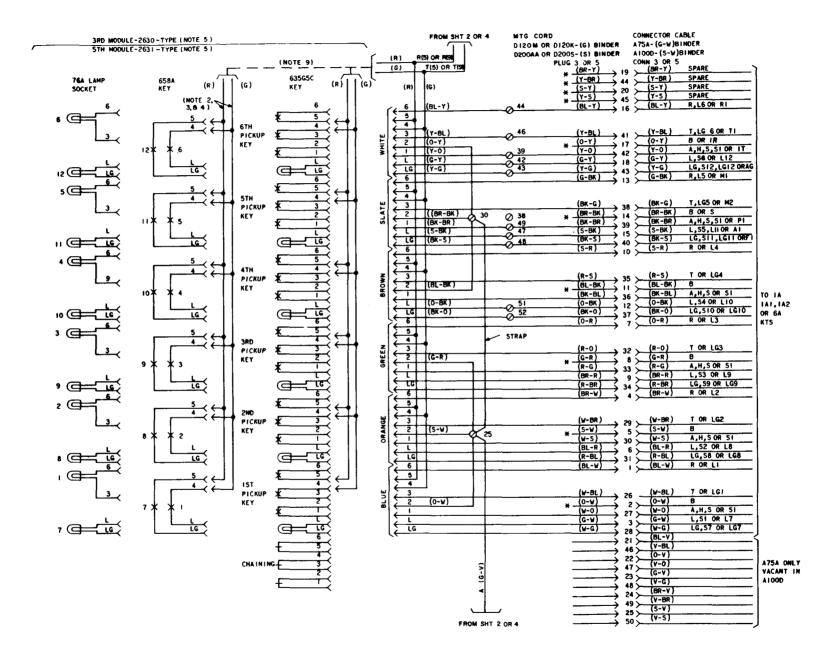


Fig. 4—Module and Connector Cable Arrangements (Sheet 5 of 5)

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NOTES FOR FIG. 4:

- 1. THE 635AD5C KEY IS SUPPLIED WITH AN ADAPTER IN THE CUTOFF KEY POSITION. THE SLATE MOUNTING CORD PLUG CONNECTS TO THE ADAPTER. REFER TO TABLE C FOR SPADE-TIPPED LEAD CONNECTIONS. BALANCE OF PLUGS CONNECT DIRECTLY TO KEY.
- 2. IN SETS EQUIPPED WITH A 658A KEY THE (G) CONTACT STRIP LEAD IS TERMINATED ON 17 AND (R) ON 18. IF A 658A KEY IS ADDED IN THE FIELD, LEADS MUST BE MOVED FROM PRECEDING MODULE CHAINING CIRCUIT TO TERMINALS 17 AND 18.
- 3. PROVISIONS ARE MADE FOR MECHANICALLY STORING THE LIGHT BEIGE PLUG ON THE 658 KEY. NO ELECTRICAL CONNECTION IS MADE.
- 4. WHEN THE 658A KEY IS REQUIRED AS A DUAL PURPOSE KEY, REMOVE STRAP BETWEEN TERMINALS 17 AND 18. USE M1W CORD OR EQUIVALENT TO CONNECT TERMINAL 17 TO A GROUND OTHER THAN SIGNAL GROUND.
- 5. MODULE MAY ALSO BE EQUIPPED WITH A 679A (MD) INTERNAL TRANSMITTER FOR SPEAKERPHONE. SEE FIG. 5 AND SECTION 512-620-440 FOR WIRING CHANGES.
- 6. TO SUPPLY "I" HOLD FEATURE TERMINATE (Y-BR) MOUNTING CORD LEAD FROM (0) BINDER GROUP TO TERMINAL 24. LEAD BECOMES SP LEAD AT EQUIPMENT.
- 7. IF HOLD POSITION LAMP IS REQUIRED CONNECT (G-Y) AND (Y-G) PINK PLUG LAMP LEADS TO THE (G-Y) AND (Y-G) MOUNTING CORD CONDUCTORS USING SPARE TERMINALS OR D-161488 CONNECTORS. LAMP MUST BE SEPARATELY ORDERED AND INSTALLED. HOLD POSITION LAMP CANNOT BE ILLUMINATED WHEN EXTERNAL TRANSMITTER IS WIRED FOR 3-TYPE (MD) SPEAKERPHONE USING MOUNTING CORD LEADS.
- 8. 3-TYPE (MD) SPEAKERPHONE LEADS WHEN ASSOCIATED WITH EXTERNAL TRANSMITTER.
- 9. THESE CONTACT STRIPS ARE REQUIRED WHEN TELEPHONE SET IS EQUIPPED WITH THE D120K (MD) OR THE D200S (MD) MOUNTING CORD. THESE CONTACT STRIPS SHOULD NOT BE USED WHEN TELEPHONE SET IS EQUIPPED WITH THE D120M OR D200AA MOUNTING CORD OR WHEN TELEPHONE SET IS EQUIPPED WITH A MODIFIED D120K OR D200S MOUNTING CORD.
- 10. THE CURRENT S CODED TELEPHONE SETS HAVE THE (BL-Y) LEAD INSULATED AND STORED. * INSULATED AND STORED.

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									LE	AD								
KEY MODULE		HOLE) KEY				C	HAININ	G PLU	G			CONTACT STRIP OR PLUG LEAD				·	LINE SW.
ARRANGEMENT	Y	G	BR-V	V-BR	V-G 1ST MOD	V-G 2ND MOD	V-G 3RD MOD	V-G 4TH MOD	R 1ST MOD	R 2ND MOD	R 3RD MOD	R 4TH MOD	1ST 2ND 3RD 4TH 5				R STH MOD	Y
1A1/1A2 Only	10	10	*	*	5	15	35	45	13	11	21	31	13	11	21	31	41	8
1A1/1A2 — 1st, 2nd, 3rd, 4th Mod. 1A — 5th Mod.	10	22‡	41	3†	5	15	35	22	13	11	21	31	13	11	21	31	3	8
1A1/1A2 — 1st, 2nd, 3rd Mod. 1A — 4th, 5th Mod.	10	22‡	31	3†	5	15	22	45	13	11	21	3	13	11	21	3	41	8
1A1/1A2 — 1st, 2nd Mod. 1A — 3rd, 4th, 5th Mod.	10	22‡	21	3†	5	22	35	45	13	11	3	31	13	11	3	31	41	8
1A1/1A2 — 1st Mod. 1A — 2nd, 3rd, 4th, 5th Mod.	10	22‡	11	3†	22	15	35	45	13	3	21	31	13	3	21	31	41	8
1A Only	*	10	13	3†	5	15	35	45	3	11	21	31	3	11	21	31	41	18

♦TABLE B€ 1A, 1A1, AND 1A2 CONVERSION—2631DA (MD), 2631DAM (MD), AND 2631DAMS1 TELEPHONE SETS

* Insulated and stored.

† Remove (Y-O) mounting cord lead. Insulate and store.

‡ Remove (Y-G) mounting cord and key plug leads from terminal 22, insulate and store. If hold lamp position is being used, these leads must be terminated on a D-161488 connector.

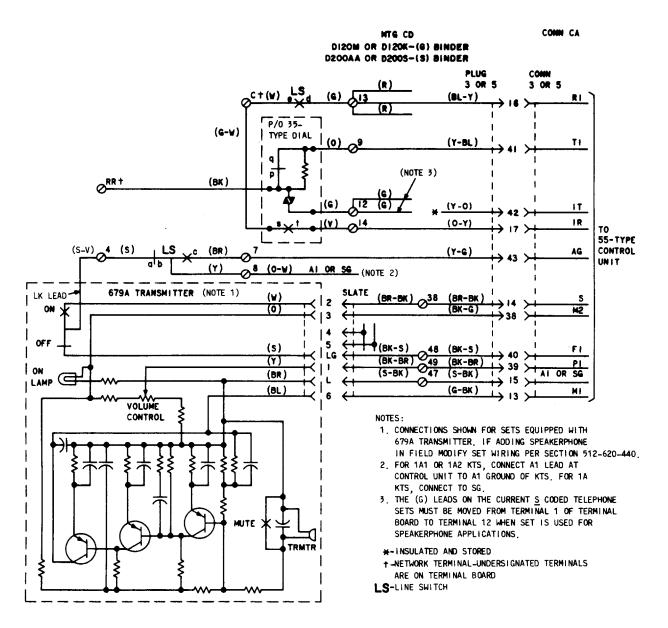


Fig. 5—\$3-Type (MD) Speakerphone Connections Using Internal 679A (MD) Transmitter\$

♦ TABLE C ♦

CUT OFF KEY (635AD5C) CONNECTIONS

FEATURE	635AD5C KEY ADAPTER		MOUNTING CORD (BL) BINDER			INECTOR CA BL-W) BINDE	RINGER	PLACE	
	BL·Y	BL·Y Y·BL		Y-BL	G-BK BK-G		BK-BR	ВК	
Cutoff Ringer in Set (Note 1)	TB1-1 (Note 5)	TB1-2	•	•	(Note 2)			TB1-1 (Note 5)	A (Net.) to TB1-2
Cutoff Ext Ringer or Buzzer (Note 1)	TB1-1 (Note 5)	TB1-2	TB1-1 (Note 5)	TB1-2	(Note 3)				
Cutoff Ext Station (Note 4)	*	•	T81-1	TB1-2		To Aux. Relay	To Relay Grd		

Note 1: Remove (BR-BK) and (BK-BR) slate plug leads from terminals 10 and 29, insulte and store.

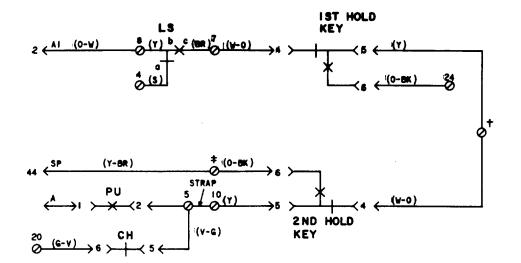
Note 2: To individual line or common ringer circuit at equipment.

Note 3: Connect (G-BK) (BK-G) leads to external ringer or buzzer and connect ringer or buzzer circuit to (BL-Y) (Y-BL) connector cable leads at equipment.

Note 4: Connect T, R, and A leads from equipment and station to be cut off through contacts of auxiliary relay. Connect battery to relay winding. Use 227B or 421A KTU.

Note 5: On 2630DAMS1 and 2631DAMS1 sets use spare terminal or D-161488 connector to connect leads together.

* Insulate and store.



LS - LINE SWITCH

PU - PICKUP KEY

CH - CHAINING SWITCH

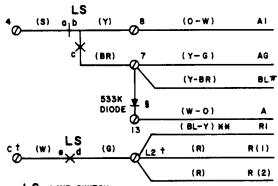
MOI	DIFICATIO	N
WIRE OR LEAD	FROM	то
IST HOLD KEY (Y)	10	+
2ND HOLD KEY (0-BK) (Y) (W-0)		+ 10 +
(Y-BR)	*	, +

* STORED LOCATION, (O) BINDER GROUP IN MOUNTING CORD

+ CONNECT (Y) LEAD FROM IST HOLD KEY AND (W-O) LEAD OF 2ND HOLD KEY TO THE SAME SPARE TERMINAL OR D-16(488 CONNECTOR.

+ CONNECT (0-8K) LEAD OF 2ND HOLD KEY AND (Y-BR) MOUNTING CORD LEAD(0) BINDER GROUP TO THE SAME SPARE TERMINAL OR D-161488 CONNECTOR

Fig. 6-Modifications for Priority Hold



LS-LINE SWITCH

MODIFICATION							
LEAD	FROM	то					
Y-BR	L2 †	7					
w- 0	7	13					
533K DKODE		7 TO 13					
G	13	L2†					
R ‡	13	L2†					
BL-Y	1 # #	L2 T					

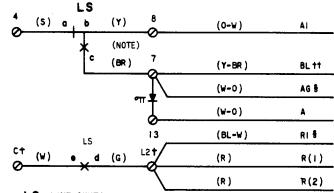
* NETWORK TERMINAL - UNDESIGNATED TERMINALS ARE ON TERMINAL BOARD

+ MOVE BOTH (R) LEADS FROM TERMINAL 13 TO L2 OF NETWORK SORDER AND INSTALL 533K

BUSY LAMP DIODE TFOR BATTERY SUPPLY AND ADDITIONAL INFORMATION ON STATION BUSY LAMP REFER TO SECTION 502-110-100.

HAN S CODED SETS HAVE THE (BL-Y) LEAD INSULATED AND STORED.

Fig. 7—\$Station Busy Lamp Circuit with 3-Type (MD) Speakerphone System\$



LS - LINE SWITCH

	MODIFICATION							
LEAD	FROM	то						
Y-BR	L2+	7						
W- 0	7	13						
533K D10DE		7 TO 13						
G	13	L2 †						
R 🛊	13	L2 †						
BL-W \$	13	L2 †						

NOTE :

- FOR BUSY LAMP CONTROLLED BY SPEAKERPHONE ONLY, MOVE (BR) LINE SWITCH LEAD FROM TERMINAL 7 TO 13.
- + NETWORK TERMINAL, UNDESIGNATED TERMINALS
- ARE ON TERMINAL BOARD
- \$ MOVE BOTH (R) LEADS FROM TERMINAL 13 TO L2
- ST ~ LEAD IN M16C (MD) OR M16H CORD
- TT- ORDER AND INSTALL 533K BUSY LAMP DIODE
- ++- FOR BATTERY SUPPLY AND ADDITIONAL INFORMATION ON STATION BUSY LAMP REFER TO SECTION 502-110-100.

Fig. 8—\$Station Busy Lamp Circuit with 4A Speakerphone System\$

TABLE D

NO. OF	NO. OF PVT OR INTER-		KEY PLUG LEADS AND TERMINALS									
SIGNAL KEYS	NAL COM LINES	0-W	s-w	G-R	BL-BK	BR-BK	0-Y	Y-0				
1		25	25	25	30	30	18	39				
2		25	25	25	30	18	18	39				
3		25	25	25	18	18	18	39				
4		25	25	18	18	18	18	39				
5		25	18	18	18	18	18	39				
6		18	18	18	18	18	18	39				
	2	25	25	25	39	39	30	39				
	3	25	25	39	39	39	30	39				
	4	25	39	39	39	39	30	39				
	5	39	39	39	39	39	30	39				

PICKUP-SIGNAL KEY CONVERSION 3RD (2630-TYPE) OR 5TH (2631-TYPE) MODULE

Notes:

- 1. When using converted 6th pickup button as common signaling key, remove, insulate and store (Y-O) mounting cord lead from terminal 39.
- 2. If more than six signal keys are required, replace 635G5C key with a 658A key. If more than five private or intercom lines are required, convert keys in 2nd (2630-type) or 4th (2631-type) module in same order. Connect plug leads to terminal 39 to utilize common signal key. If additional terminals are required, use any spare terminal and strap to 39.

		REMOVE FROM	CONNECT TO		
WIRE OR LEAD	COLOR	NET.	GUARD ASSY	NET.	
D:-1	BK	RR	Т		
Dial	G-W	С	S		
Line Switch	W	С	S		
Guard	G			RR	
Assembly	W			C*	

Note: For use when specified by local instructions for end-to-end signaling installations. The D-181006 Kit of Parts consists of an 840364376 polarity guard and instruction sheet. The polarity guard should be installed on any surface having an area equivalent to the adhesive backing.

* (O-BK) dial lead remains connected to C of network.