

SERVICE

2565LK AND 2565LKM TELEPHONE SETS

1. GENERAL

1.01 This section provides connection information for the 2565LK (nonmodular) MD and 2565LKM (modular) telephone sets.

1.02 Reissued to:

- Show 2565LK rated MD
- Add information on 2565LKM (modular) telephone sets
- Add comcode numbers.

1.03 Older nonmodular 2565LK telephone sets are furnished from the factory equipped with a G3A6 handset and cord. Current modular 2565LKM telephone sets are equipped with a G15A handset, H4DU handset cord, and 616D jack assembly (Fig. 1).

2. CONNECTIONS

2.01 These sets are factory-wired for 1A1 or 1A2 KTS, 3-type or 4A speakerphone, and individual or common line ringer. They are equipped with hold key and cutoff key. Mounting cord conductors are provided for illuminating the hold key lamp, but the lamp is not provided with the set.

2.02 When used with 1A KTS and speakerphone, modify sets as shown in Fig. 2 or 3.

2.03 These sets are factory-equipped with a KS-20419L1 (10 volt AC only) buzzer.

2.04 The H1-type ringer leads are wired to terminals RR and RT. When power failure feature is provided in the KTS, the common audible signal must be wired with capacitor in series.

2.05 If speakerphone (3-type) control unit is located near the telephone set, the mounting cord conductors can be extended to the control unit by using a 149-type adapter or 66E-type connecting block. If control unit is located at key equipment, extend leads through an A25B connector cable or inside wiring cable. Speakerphone connections for the 2565-type telephone sets are shown in Division 512.

2.06 When a 2565-type set not furnishing speakerphone feature is multiplied with other sets furnishing speakerphone feature, certain control leads must be disconnected, insulated, and stored (Note 3, Fig. 1) to avoid interference with working circuits.

2.07 Exclusion can be provided with these sets by the addition of a D-179935 Kit of Parts which must be ordered separately. Exclusion switch can also be used to cutoff ringer or buzzer in set. Connect as shown in Table A.

2.08 Use an A20B connector cable when speakerphone and exclusion features are not provided.

2.09 Cutoff of extension stations, ringers, or buzzer can also be made using the cutoff key on the 589AJ key.

2.10 A polarity guard is used only when specified by local instruction for end-to-end signaling installation when battery and ground reversals may be encountered.

2.11 When polarity guard is required with these sets, install a 819040528 or P-90D052 guard assembly. Connect as shown in Table B.

2.12 An 811353135 or P-13E313 terminal strip assembly is available when additional terminating points are required for auxiliary services such as buzzers, lamp, etc. Assembly must be ordered separately.

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2.13 Installation instructions for the exclusion switch, polarity guard, and auxiliary terminal strip are given in Section 502-500-120.

2.14 The 4th key position is convertible from line pickup (locking) to signaling (nonlocking) by

removal of the #811218924 or P-12A892 screw detail. Arrange wiring as shown in Table C.

2.15 Lamp in Hold position can be furnished but must be separately ordered and installed.

TABLE A
EXCLUSION KEY CONNECTIONS

EXCLUSION	KEY TEL SYS	EXCLUSION KEY LEADS							
		BL-W	W-BL	O-W	W-O	BL-V	V-BL	O-V	V-O
On any line	1A	R*	T*	1B†	H*	ER	ET	EB	EH
	1A1 or 1A2	R*	T*	EB	H*	ER	ET	EB	EH

* Terminal of line involved.

† When other than line 1 is excluded on 1A KTS, disconnect, insulate, and store O-W mounting cord conductor from terminal 1B; connect balance lead conductor from line involved to 1B.

TABLE B
POLARITY GUARD CONNECTIONS
(819040528 OR P-90D052 POLARITY GUARD)

LEAD		REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	BK	RR		T
	G-W	C		S
Line Switch	W	C		S
Polarity Guard	G		RR	
	W		C	

TABLE C
PICKUP-SIGNAL KEY CONVERSION

KEY OPTIONS	BR-BK KEY LEAD
HPPPPC	M
HPPPSC	SG

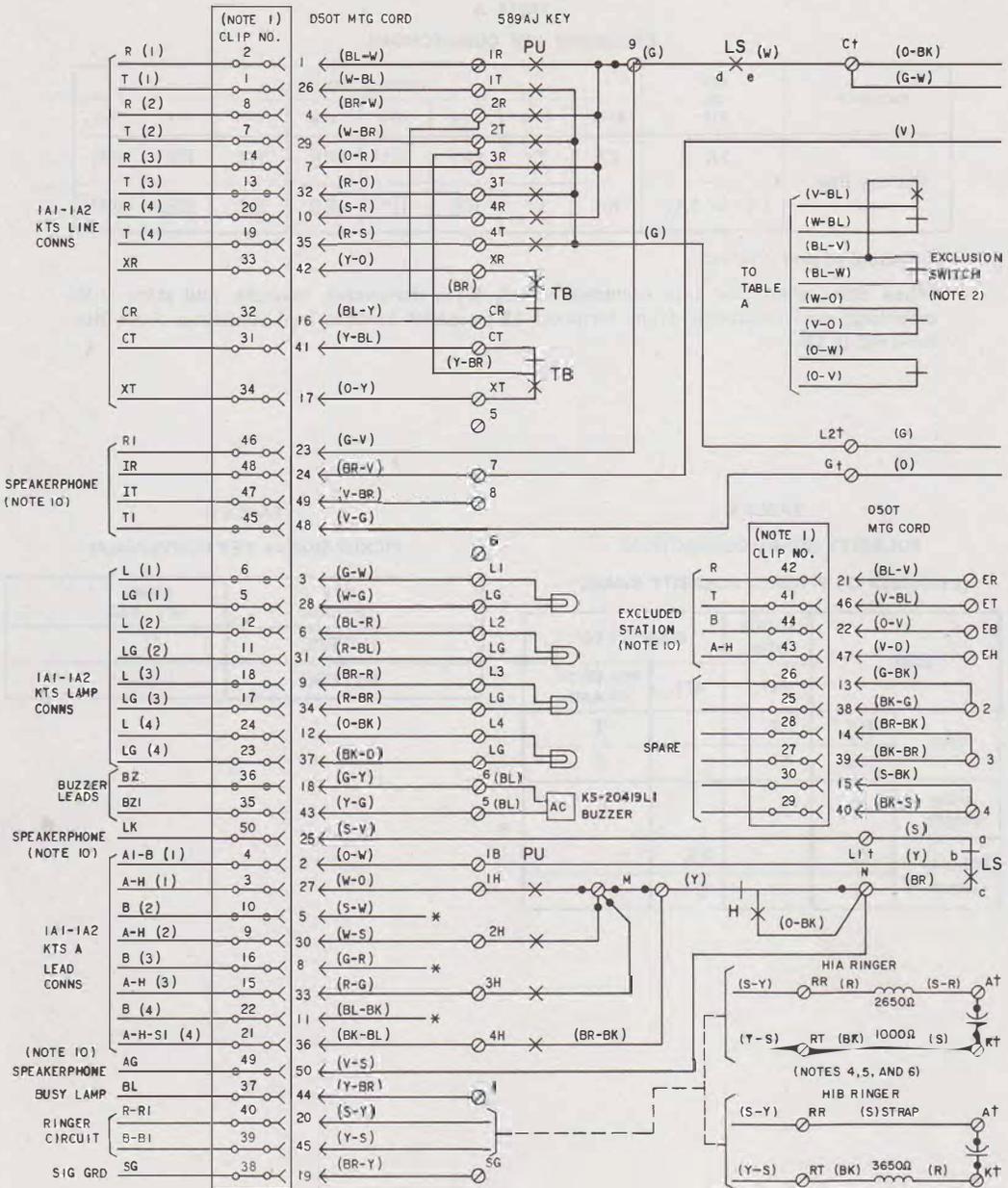
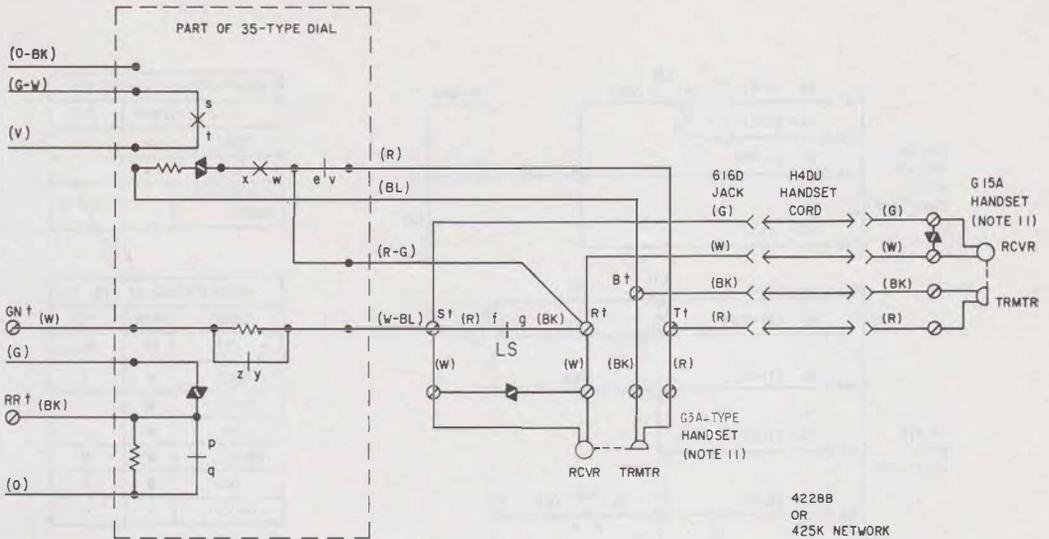
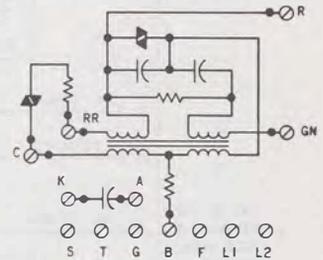


Fig. 1—2565LK or 2565LKM Telephone Set, Factory-Wired for 1A1 or 1A2 KTS and Speakerphone Connections (Sheet 1 of 2)



NOTES:

- 66E-TYPE CONNECTING BLOCK SHOWN. MOUNTING CORD MAY BE PLUGGED DIRECTLY INTO CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR ARE SAME AS MOUNTING CORD.
- IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE A.
- DISCONNECT T1, R1, IT, IR, AG, AND LK LEADS WHEN SETS NOT EQUIPPED WITH SPEAKERPHONE ARE MULTIPLIED. DISCONNECT AT THE SET.
- FOR BRIDGED RINGER ON ANY LINE USING H1A RINGER, CONNECT (R) RINGER LEAD TO RING AND (BK) RINGER LEAD TO TIP OF LINE INVOLVED. FOR BRIDGED RINGER ON ANY LINE USING H1B RINGER, REMOVE (S) STRAP LEAD FROM RR (KEY TERMINAL BOARD) AND CONNECT TO RING AND (BK) RINGER LEAD TO TIP OF LINE INVOLVED.
- IF CAPACITOR IS NOT REQUIRED IN RINGER CIRCUIT, MOVE (S) RINGER LEAD TO A OF NETWORK FOR H1A RINGER AND (R) RINGER LEAD TO A OF NETWORK FOR H1B RINGER.
- TO SILENCE RINGER PERMANENTLY INSULATE AND STORE (BK) AND (R) RINGER LEADS.
- LINE SWITCH SEQUENCE:
bc MAKES FIRST
bc MAKES BEFORE ab BREAKS
de MAKES SECOND
fg BREAKS LAST
- TURNBUTTON SHOWN WIRED AS CUTOFF OF LINE 2. CAN BE REWIRED AS CUTOFF OF OTHER LINES, EXT RINGER, RINGER IN SET, ETC. CONNECT AS REQUIRED.
- IF HOLD POSITION LAMP IS REQUIRED, USE SPARE PAIR AND SPARE TERMINALS OR D-161488 CONNECTORS.
- USE AN A20B CONNECTOR CABLE WHEN SPEAKERPHONE AND EXCLUSION FEATURES ARE NOT REQUIRED.
- 2565LK SETS ARE FURNISHED EQUIPPED WITH 3A-TYPE HANDSET AND CORD. 2565LKM SETS ARE FURNISHED EQUIPPED WITH G15A HANDSET, H4DU HANDSET CORD, AND 616D JACK ASSEMBLY.



TB TURNBUTTON (CUTOFF)

PU PICKUP KEY

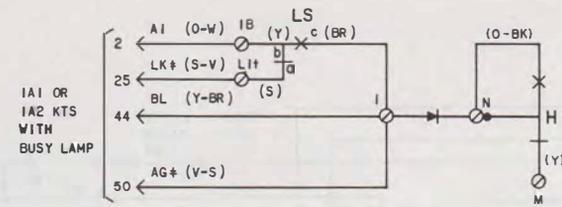
H HOLD KEY

LS LINE SWITCH

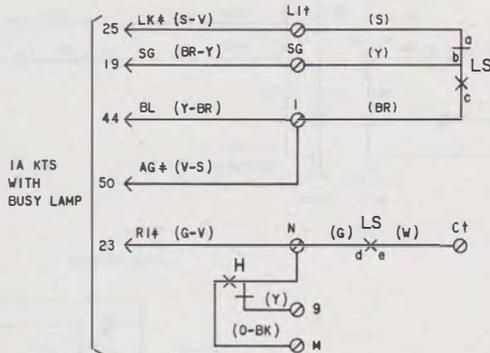
* INSULATED AND STORED

† NETWORK TERMINAL-UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD

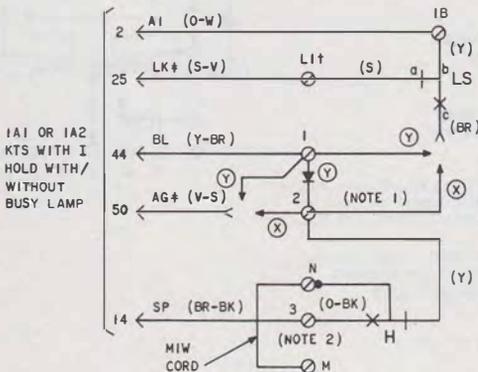
Fig. 1—2565LK or 2565LKM Telephone Set, Factory-Wired for 1A1 or 1A2 KTS and Speakerphone Connections (Sheet 2 of 2)



MODIFICATION IA1-IA2 KTS		
LEAD	FROM	TO
(BR)	N	I
(V-S)	N	I
KS-15724L1 DIODE		I TO N



MODIFICATION IA KTS		
LEAD	FROM	TO
(Y)	IB	SG
(BR)	N	I
(V-S)	N	I
(Y)	M	9
(O-BK)	N	M
(G)	9	N
(G-V)	9	N

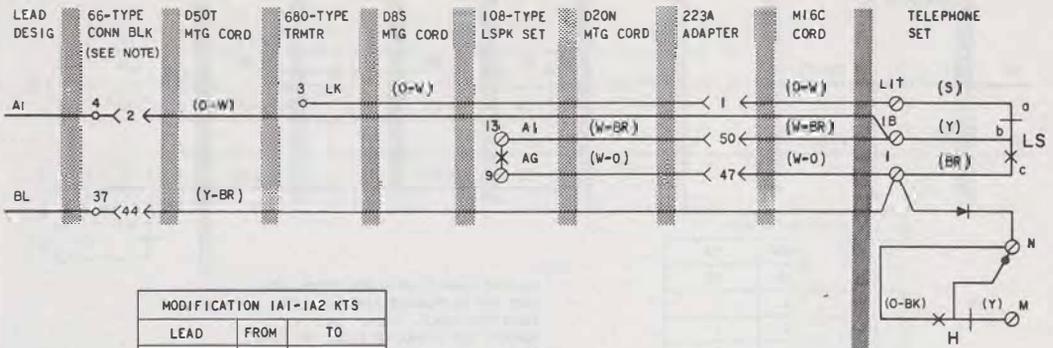


MODIFICATION I HOLD AND IA1-IA2 KTS			
	LEAD	FROM	TO
WITH BUSY LAMP (Y) OPTION	(BR)	N	I
	(V-S)	N	I
	KS-15724 L1 DIODE		I TO 2
	(Y)	M	2
	(O-BK)	N	3
WITHOUT BUSY LAMP (X) OPTION	MIW CORD		N TO M
	(BR)	N	2
	(V-S)	N	2
	(Y)	M	2
	(O-BK)	N	3
	MIW CORD		N TO M

- NOTES:
- REMOVE (G-BK) AND (BK-G) LEADS FROM KEY TERMINAL 2, INSULATE AND STORE.
 - REMOVE (BK-BR) LEAD FROM KEY TERMINAL 3, INSULATE AND STORE.
- † - NETWORK TERMINALS - UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD
‡ - 3-TYPE SPEAKERPHONE LEAD

H - HOLD KEY
LS - LINE SWITCH

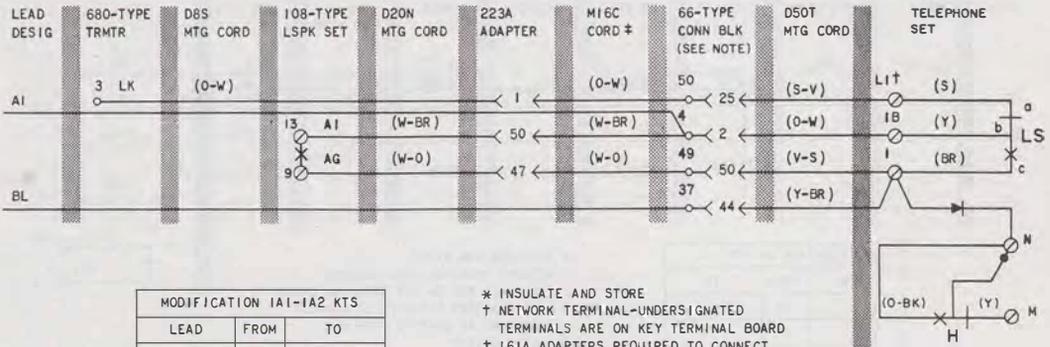
Fig. 2—Optional Features with 3-Type Speakerphone



MODIFICATION IA1-IA2 KTS		
LEAD	FROM	TO
(BR)	N	I
(W-O)	N	I
KS-15724LI DIODE		I TO N
(S-V)	LIT	*
(O-W)	IB	*

NOTE:
66-TYPE CONNECTING BLOCK SHOWN. MTG CORD MAY BE PLUGGED DIRECTLY INTO CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MTG CORD.

A. IA1-IA2 KTS WIRED FOR BUSY LAMP WITH M16C CORD TERMINATED IN TEL SET

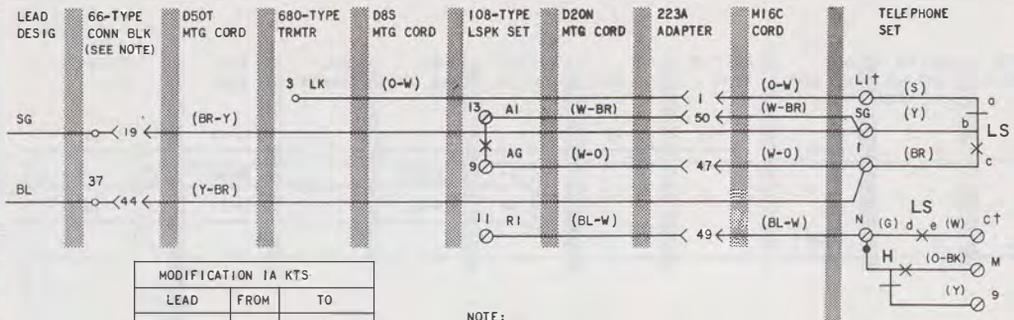


MODIFICATION IA1-IA2 KTS		
LEAD	FROM	TO
(BR)	N	I
(V-S)	N	I
KS-15724LI DIODE		I TO N

* INSULATE AND STORE
† NETWORK TERMINAL-UNDERSIGNED TERMINALS ARE ON KEY TERMINAL BOARD
‡ 161A ADAPTERS REQUIRED TO CONNECT M16C CORD AT 66-TYPE CONN BLK
LS - LINE SWITCH
H - HOLD KEY

B. IA1-IA2 KTS WIRED FOR BUSY LAMP WITH M16C CORD TERMINATED AT 66-TYPE CONN BLK

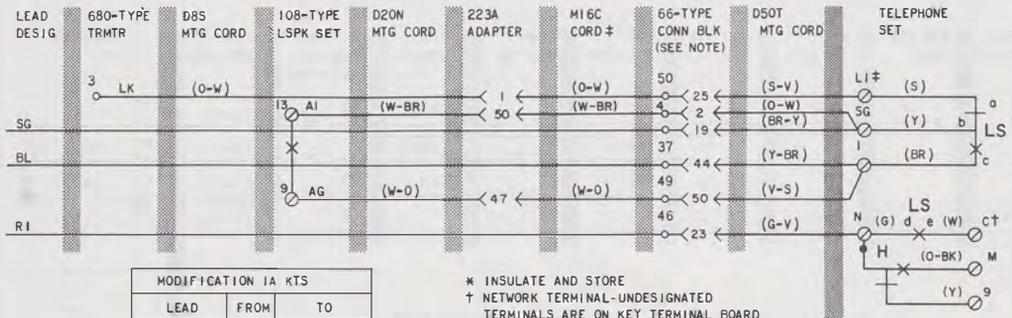
Fig. 3—Optional Features with 4A Speakerphone (Sheet 1 of 3)



MODIFICATION 1A KTS		
LEAD	FROM	TO
(Y)	1B	SG
(BR)	N	I
(W-0)	N	I
(BL-W)	9	N
(G)	9	N
(Y)	M	9
(O-BK)	N	M
(S-V)	LI†	*
(V-S)	N	*
(G-V)	9	*
(W-BR)	1B	SG

NOTE:
66-TYPE CONNECTING BLOCK SHOWN. MTG CORD MAY BE PLUGGED DIRECTLY INTO CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MTG CORD.

A. 1A KTS WIRED FOR BUSY LAMP WITH M16C CORD TERMINATED IN TEL SET

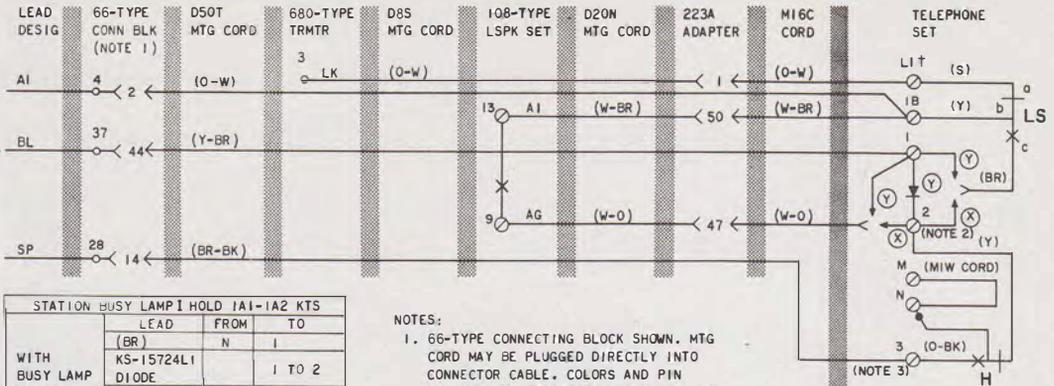


MODIFICATION 1A KTS		
LEAD	FROM	TO
(Y)	1B	SG
(BR)	N	I
(V-S)	N	I
(G-V)	9	N
(G)	9	N
(Y)	M	9
(O-BK)	N	M
(O-W)	1B	SG

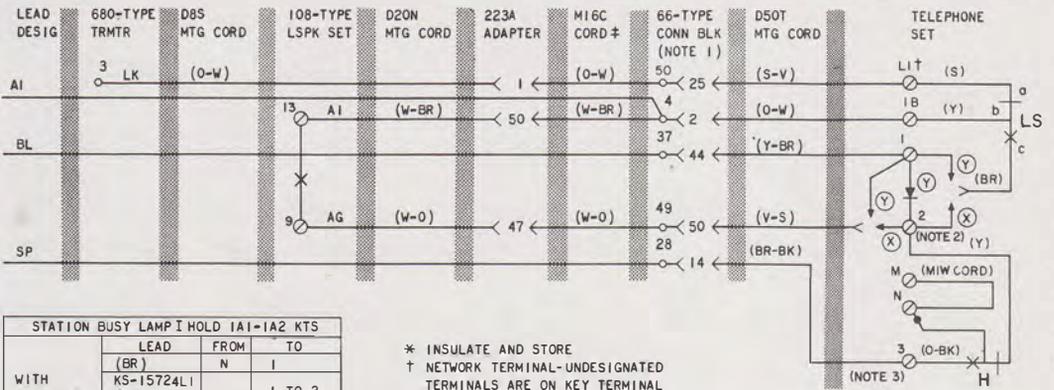
* INSULATE AND STORE
† NETWORK TERMINAL-UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD
‡ 161A ADAPTERS REQUIRED TO CONNECT M16C CORD AT 66-TYPE CONN BLK
LS - LINE SWITCH
H - HOLD KEY

B. 1A KTS WIRED FOR BUSY LAMP WITH M16C CORD TERMINATED AT 66-TYPE CONN BLK

Fig. 3—Optional Features with 4A Speakerphone (Sheet 2 of 3)



A. IA1-IA2 KTS WIRED FOR BUSY LAMP AND I HOLD WITH M16C CORD TERMINATED IN TEL SET



B. IA1-IA2 KTS WIRED FOR BUSY LAMP AND I HOLD WITH M16C CORD TERMINATED AT 66-TYPE CONN BLK

Fig. 3—Optional Features with 4A Speakerphone (Sheet 3 of 3)