

SERVICE

1565GK TELEPHONE SETS

1. GENERAL

1.01 This section provides maintenance and connection information for the 1565GK (MD) telephone sets. Maintenance information was formerly found in Section 502-525-200. Connection information was formerly found in Section 502-525-424 which is hereby canceled.

2. MAINTENANCE

Replaceable Components

2.01 Field replaceable items are listed under ordering guide in the appropriate Reference section in Division 502.

Loose Card Retainers

2.02 The P-25E803 and P-269561 are nonadjustable card retainers. The P-25E785 (MD) card retainer is replaced by P-25E803.

2.03 If P-25E785 (MD) card retainer becomes so loose on the faceplate that the number card or designation strip slips, they can be tightened as follows:

- (1) Remove faceplate from set.
- (2) Remove card retainer from faceplate.
- (3) Bend the four arms of the retainer so that more pressure will be applied to the number card and designation strip. The bends should be made approximately 1/2-inch in from the tabs on the ends of the arms and in the opposite direction from the factory bent tabs.
- (4) Install the card retainer on the faceplate and insert the number card and designation strip.
- (5) Install faceplate on telephone set.

Note: If adjusting the arms of the retainer does not result in sufficient holding power, replace the card retainer.

Housing

2.04 When removing or replacing housing, guide lower front of housing over pushbuttons. On sets equipped with exclusion, pull exclusion plunger up to its operated position before removing housing. Plunger should also be in upper position when replacing housing. With housing in place, operate plunger several times to insure proper operation.

Lamps and Pushbuttons

2.05 Replace cracked pushbuttons or collar assemblies. Plastic parts may be cleaned with a water dampened cloth. **DO NOT USE SOLVENTS.** Lamps should be near associated pushbutton with contact surfaces aligned for maximum illumination.

2.06 To replace defective lamp:

- (1) Remove button and collar assembly.
- (2) Gently pry lamp from socket with KS-6320 orange stick.
- (3) Replace lamp, making sure that contact surface on lamp and socket meet.
- (4) Replace button and collar assembly.

Keys—636-Type

2.07 Key contacts may be cleaned using a 265C tool, or adjusted using a 363 tool. When adjusting springs:

- (a) There should be a minimum clearance of 1/64-inch between contact springs and those parts of the key which do not make contact.

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- (a) There should be a minimum clearance of 1/64-inch between contact springs and those parts of the key which do not make contact.

2.15 Remove special service buttons by inserting a KS-16750L2 releaser between the two tangs located on each side of the button assembly, starting on the side toward the "0" button first. Pry the assembly gently upwards exercising caution to prevent the compression spring from causing the button and collar to fly outward when released. Do not reuse the collar.

3. CONNECTIONS

3.01 These sets are factory-wired for 1A1 or 1A2 key telephone system (KTS) and 3-type speakerphone. Hold feature is not provided.

3.02 For 1A KTS, modify set as shown in Table D.

3.03 If speakerphone 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 the key equipment, extend the leads through an A25B connector cable or inside wiring cable.

3.04 When a 1565GK (MD) telephone set is not used as a speakerphone set and is multiplied with any other set capable of furnishing speakerphone feature, speakerphone leads must be disconnected, insulated, and stored either at the telephone set (Note 4, Fig. 1) or at the multiplying point. If not disconnected, the speakerphone leads will provide a common connection between the circuits of the multiplied telephone sets.

3.05 Exclusion can be provided by the addition of a D-179935 Kit of Parts which must be ordered separately. Connect as shown in Table A.

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

3.07 When polarity guard is required with these sets, install a P-90D052 guard assembly. Polarity guard cannot be used with sets having a 25B3 (MD) dial if speakerphone is furnished. Connect as shown in Table C.

3.08 When additional terminating points are required for auxiliary services such as buzzers, lamps, etc., a P-25E962 terminal strip assembly is available.

3.09 Installation instructions for addition of exclusion and the auxiliary terminal strip are given in Reference section for set involved.

3.10 Sets are factory-wired with ringer leads connected to terminals RR and RT. Provision is made for ringer, buzzer, or both. If both ringer and buzzer is required use spare leads or exclusion leads if this feature is not provided. When power failure feature is provided in the KTS, ringer must be wired with capacitor in circuit.

3.11 All convertible key positions are supplied as pickup keys. To convert from pickup (locking) to signaling (nonlocking), remove the P-12A892 screw detail from key position involved. Make necessary wiring changes as shown in Table B.

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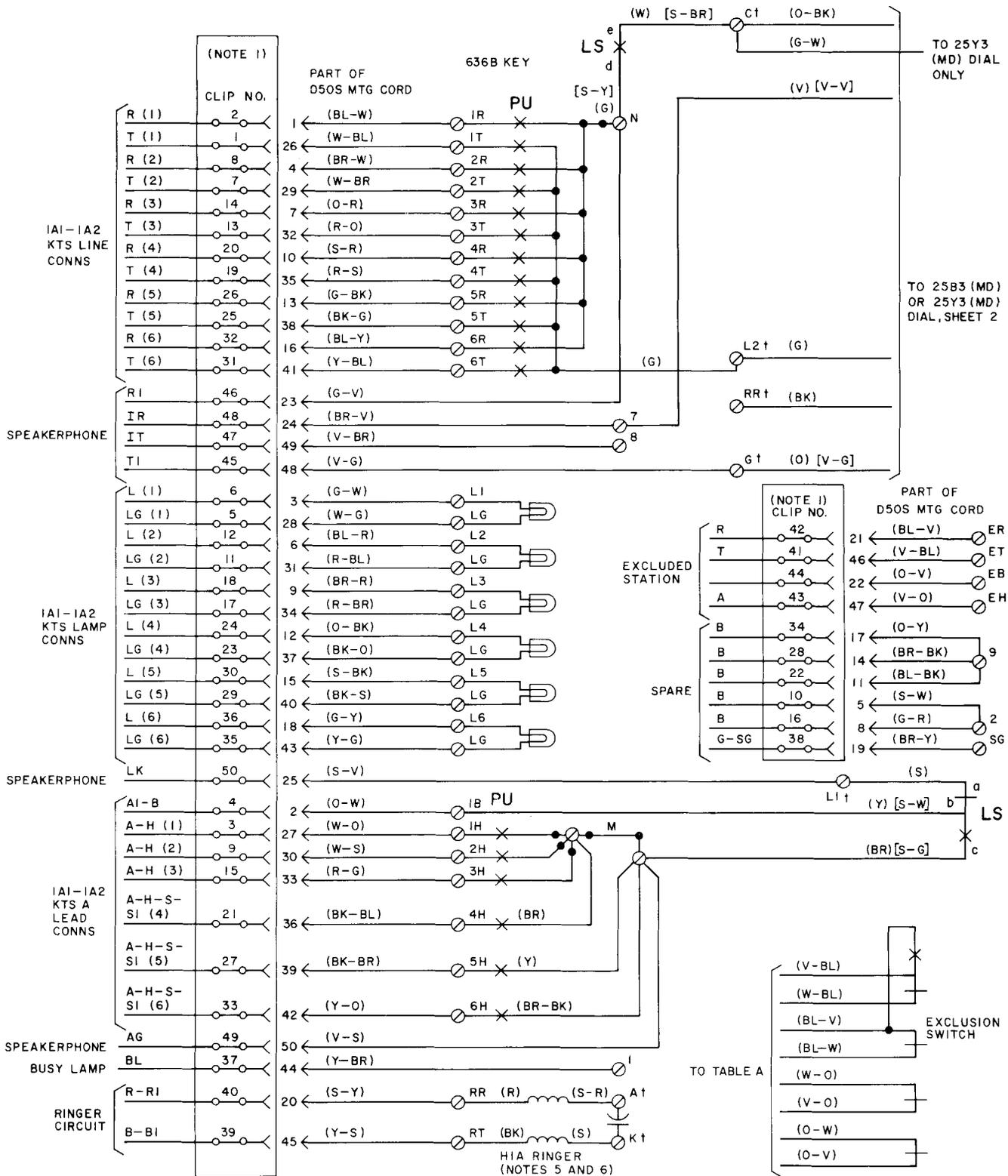
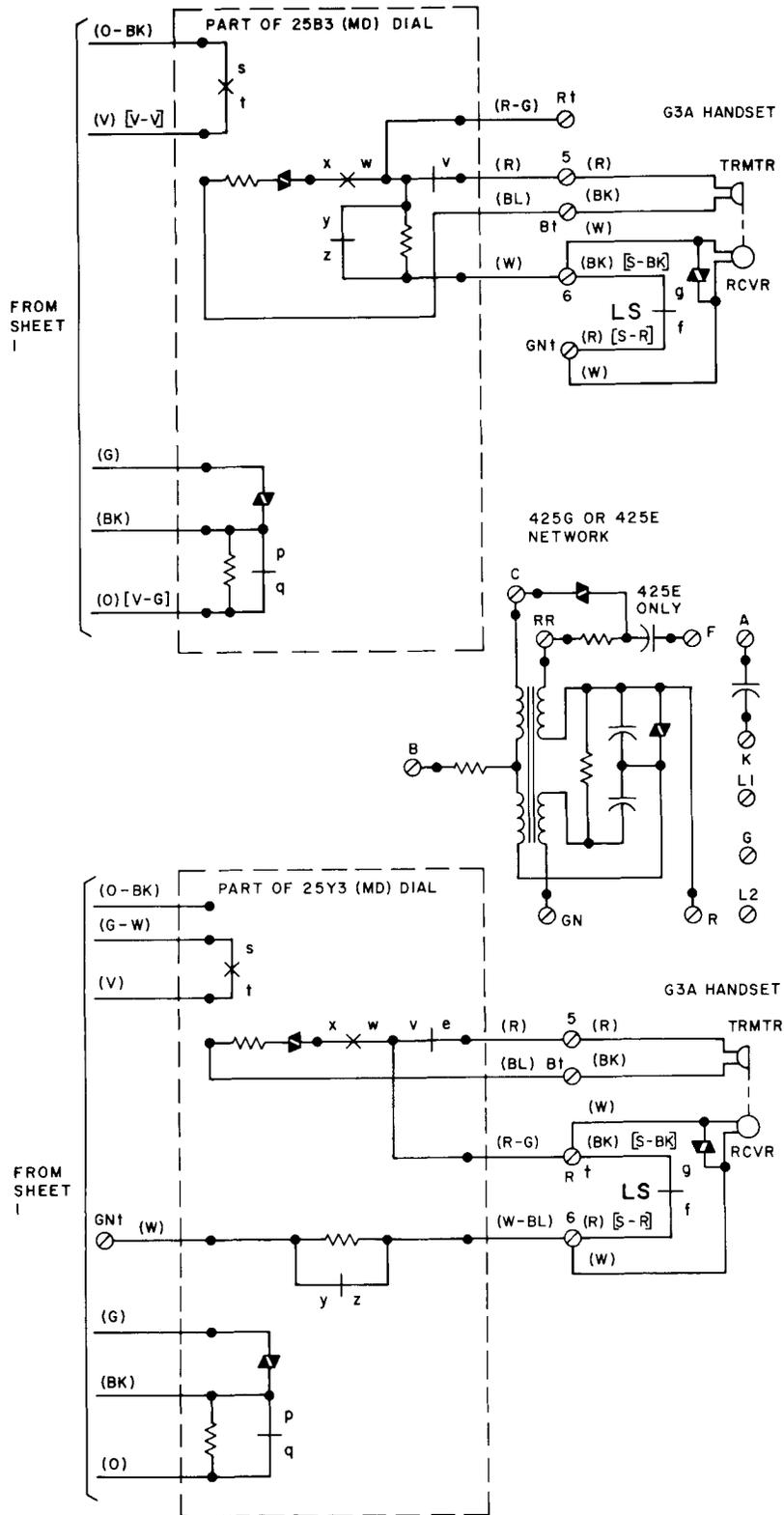


Fig. 1—1565GK (MD) Telephone Set, Factory-Wired for 1A1 or 1A2 KTS and 3-Type Speakerphone, Connections (Sheet 1 of 2)



NOTES:

1. 66E-TYPE CONNECTING BLOCK SHOWN. MOUNTING CORD MAY BE PLUGGED DIRECTLY INTO CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MOUNTING CORD.
2. AUXILIARY BUZZER MAY BE INSTALLED. USE SPARE LEADS AND TERMINALS TO CONNECT TO EQUIPMENT.
3. IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE A.
4. DISCONNECT TI, RI, IT, IR, AG, AND LK LEADS WHEN SETS NOT EQUIPPED WITH SPEAKERPHONE ARE MULTIPLIED. DISCONNECT EITHER AT THE SET OR MULTIPLYING POINT.
5. FOR BRIDGED RINGER ON ANY LINE CONNECT (R) RINGER LEAD TO RING AND (BK) RINGER LEAD TO TIP OF LINE INVOLVED. CONNECT (S) RINGER LEAD TO K AND (S-R) RINGER LEAD TO A OF NETWORK.
6. IF CAPACITOR IS NOT REQUIRED IN RINGER CIRCUIT, MOVE (S) RINGER LEAD TO A OF NETWORK.
7. TO SILENCE RINGER PERMANENTLY CONNECT (R) AND (S-R) RINGER LEADS TO A NETWORK AND (BK) AND (S) RINGER LEADS TO K OF NETWORK.
8. LINE SWITCH SEQUENCE - bc MAKES FIRST
bc MAKES BEFORE
ab BREAKS
de MAKES SECOND
fg BREAKS LAST

LS - LINE SWITCH
PU - PICKUP KEY

† - NETWORK TERMINAL - UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD.

() CURRENT COLOR CODE

[] MD COLOR CODE

Fig. 1—1565GK (MD) Telephone Set, Factory-Wired for 1A1 or 1A2 KTS and 3-Type Speakerphone, Connections (Sheet 2 of 2)

TABLE A
EXCLUSION KEY CONNECTIONS

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

* 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.

Note: If exclusion feature is being used removed all B leads, except one being used, from key terminal board; insulate and store.

TABLE B
PICKUP-SIGNAL KEY CONVERSION

KEY TEL SET	CONVERSION OPTIONS (NOTE)	636B KEY LEADS		
		(BR)	(Y)	(BR-BK)
1565GK	PPPPPP	M	M	M
	PPPPPS	M	M	SG
	PPPPSS	M	SG	SG
	PPPSSS	SG	SG	SG
	PPPPP*S*	M	6H	†
	PPPP*P*S*	6H	6H	†

Note: To convert from pickup (locking) to signal (nonlocking), remove P-12A892 screw from the plunger at key position being converted.

* These arrangements use line switch controlled ground for common signal key used with private or intercommunicating lines. Common signal should be used to operate a common signal relay. Do not wire directly to a buzzer.

† Connect with the (BR) [S-G] line switch lead of Table D using the terminal shown for proper option and KTS required.

TABLE C
POLARITY GUARD CONNECTIONS (SEE NOTES)
(P-90D052 GUARD ASSEMBLY)

LEAD	COLOR	REMOVE FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	(BK) (G-W)*	RR C		T S
Line Switch	(W) [S-BR]	C		S
Polarity Guard	(G) (W)		RR C	

* Sets with 25Y3 (MD) dial only.

() Current color code.

[] MD color code.

Note 1: Polarity guard cannot be added to sets having 25B3 (MD) dial and connected for speakerphone.

2: Polarity guard mounts on right side of dial mounting bracket using the dial mounting screw.

TABLE D

1A, 1A1, AND 1A2 CONVERSION WITH BUSY LAMP OPTION

STATION BUSY LAMP CIRCUIT	KEY SYSTEM	LINE SWITCH LEAD		DIODE KS-15724 LIST 1	CORD V-S
		(Y)[S-W]	(BR)[S-G]		
Without	1A	SG	1		*
With		SG	1		1
Without	1A1	1B	M		M
With	or 1A2	1B	1		1

* Insulate and store.
 () Current color code.
 [] MD color code.