

SERVICE

565HD TELEPHONE SET

1. GENERAL

1.01 This section provides maintenance and connection information for the 565HD (MD) telephone set.

2. MAINTENANCE

Components

2.01 Maintenance of handsets, dials, and ringers is outlined in sections covering these components.

Removing and Replacing Housing

2.02 To remove housing, pull up exclusion plunger to its operated position, loosen captive screws in base of set, and lift housing up and toward the front of set.

2.03 To replace housing, guide lower front portion of housing over pushbuttons, align housing with base of set, and gently press housing in place.

2.04 Depress exclusion plunger. With slight pressure it should snap into its unoperated position.

2.05 Operate exclusion plunger several times to insure proper operation. Tighten captive screws in base of set.

Exclusion Switch

2.06 Perform no field maintenance on exclusion switch and plunger other than cleaning contacts with a 265C tool.

2.07 Replace set or exclusion switch assembly if any of the following exclusion switch requirements cannot be met:

- (a) Exclusion plunger should remain in the operated position when pulled up to the full extent of its stroke.

- (b) The plunger should return to the fully depressed position when handset is replaced.

- (c) With housing removed, normally closed contacts of the exclusion switch should have perceptible follow when operated manually.

- (d) With housing removed, open contacts of the exclusion switch should have minimum separation of 1/64-inch; gauge by eye.

Mounting Cords

2.08 Replace mounting cords of early manufacture (Fig. 1) as follows:

- (1) Remove dial from its mounting bracket.
- (2) Remove terminal screws.
- (3) Disconnect spade-tipped conductors and wafer sections.
- (4) Disengage cord stay hook from right leg of dial mounting bracket.

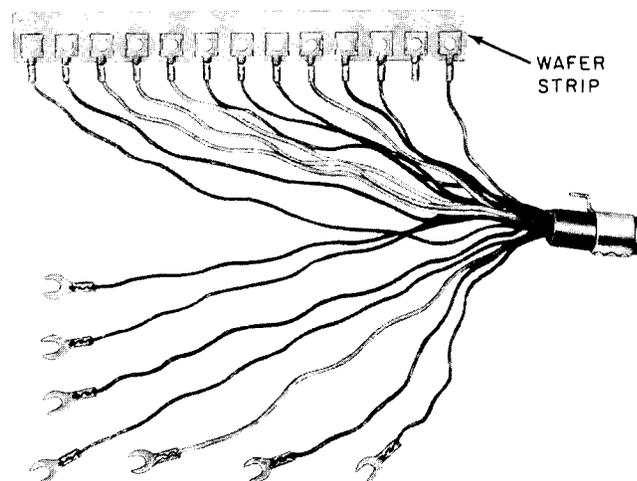


Fig. 1—Nonslotted Wafer Strip End of Mounting Cord, Early Type

2.09 Mounting cords of later manufacture feature a slotted wafer strip (Fig. 2) to facilitate replacement.

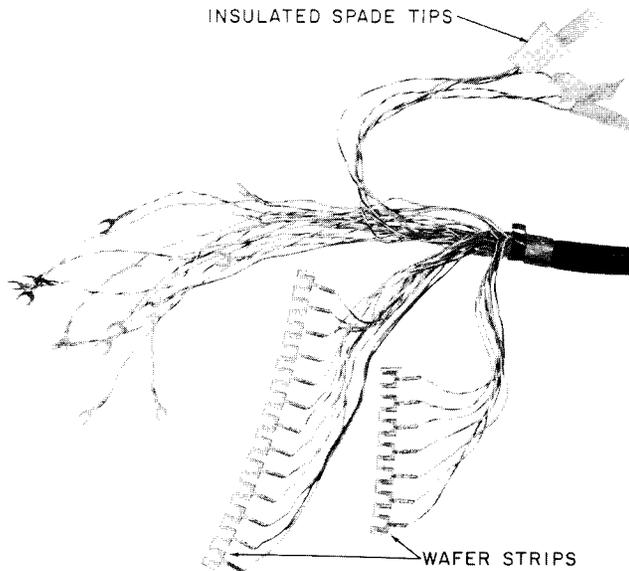


Fig. 2—Slotted Wafer Strip End of Mounting Cord, Later Type

Lamps and Pushbuttons

2.10 Replace cracked pushbuttons or collars. Remove accumulated dirt or film from lamps, collars, and pushbuttons with a water dampened cloth. **Do not use solvents of any kind.** If cleaning does not correct binding of pushbuttons, replace button and collar assembly.

2.11 To replace defective lamp:

- (1) Remove dial from mounting bracket.
- (2) Lift lamp from socket with KS-6320 orange stick.
- (3) Align lamp contact surface when placing new lamp in socket.
- (4) Remount dial.

2.12 The button and collar assembly should be carefully aligned to avoid interference with removal or replacement of housing.

Loose Number Card Retainers

2.13 If the P-25E785 number card retainer becomes so loose on the faceplate that the number card or key designation strip slips, it 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 key 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 number card retainer.

589-Type Key

2.14 Field maintenance of the 589H key (Fig. 3 and 4) consists of:

- Cleaning contacts with a 265C tool.
- Replacing loose or missing damper studs with P-18A859 vibration damper sleeves (Fig. 4). Later 589-type keys do not require this vibration damper.

2.15 Contact follow and separation is obtained by using a 363 tool at a point adjacent to contact spring pile-up (Fig. 4). When adjusting springs:

- (a) There should be a minimum spring clearance of 1/64-inch between contact springs and those parts of the key which do not make contact with springs (Fig. 4).
- (b) Normally open contacts should make with perceptible follow on locking keys before key plunger assumes locked position.

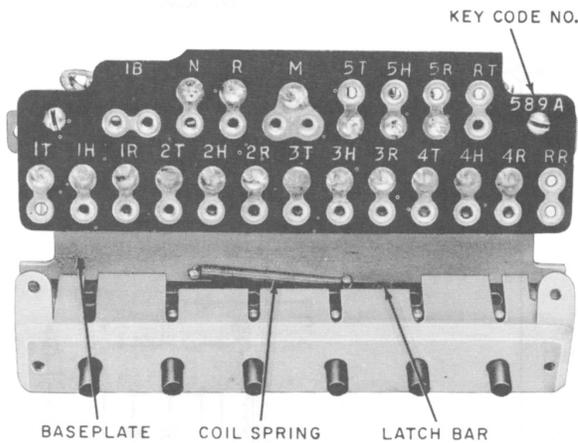


Fig. 3—589-Type Key, Top View

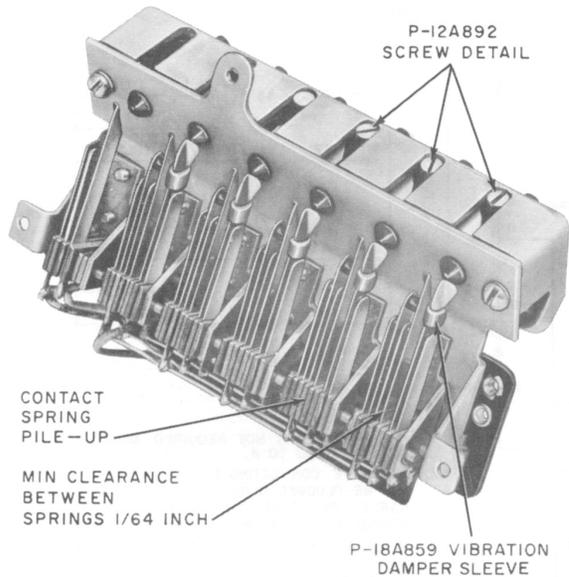


Fig. 4—589-Type Key, Bottom View

2.16 Replace set if the following requirements cannot be met:

- (a) When depressed, locking plunger should, on its downstroke, release any previously locked plunger.
- (b) When any pushbutton plunger is released from its operated position, it should return with a snap to its nonoperated position.
- (c) An operated key plunger should not release during downstroke of hold button.

3. CONNECTIONS

3.01 Exclusion and speakerphone leads must be disconnected and stored using KS-19147L1, cord insulators when two or more 565HD (MD) sets are connected in multiple through bridging adapters. This avoids interference with working circuits. The lead designations of leads to be removed are as follows; T1, P3, P4, LK, AG, R1, T, R, A or H, and B.

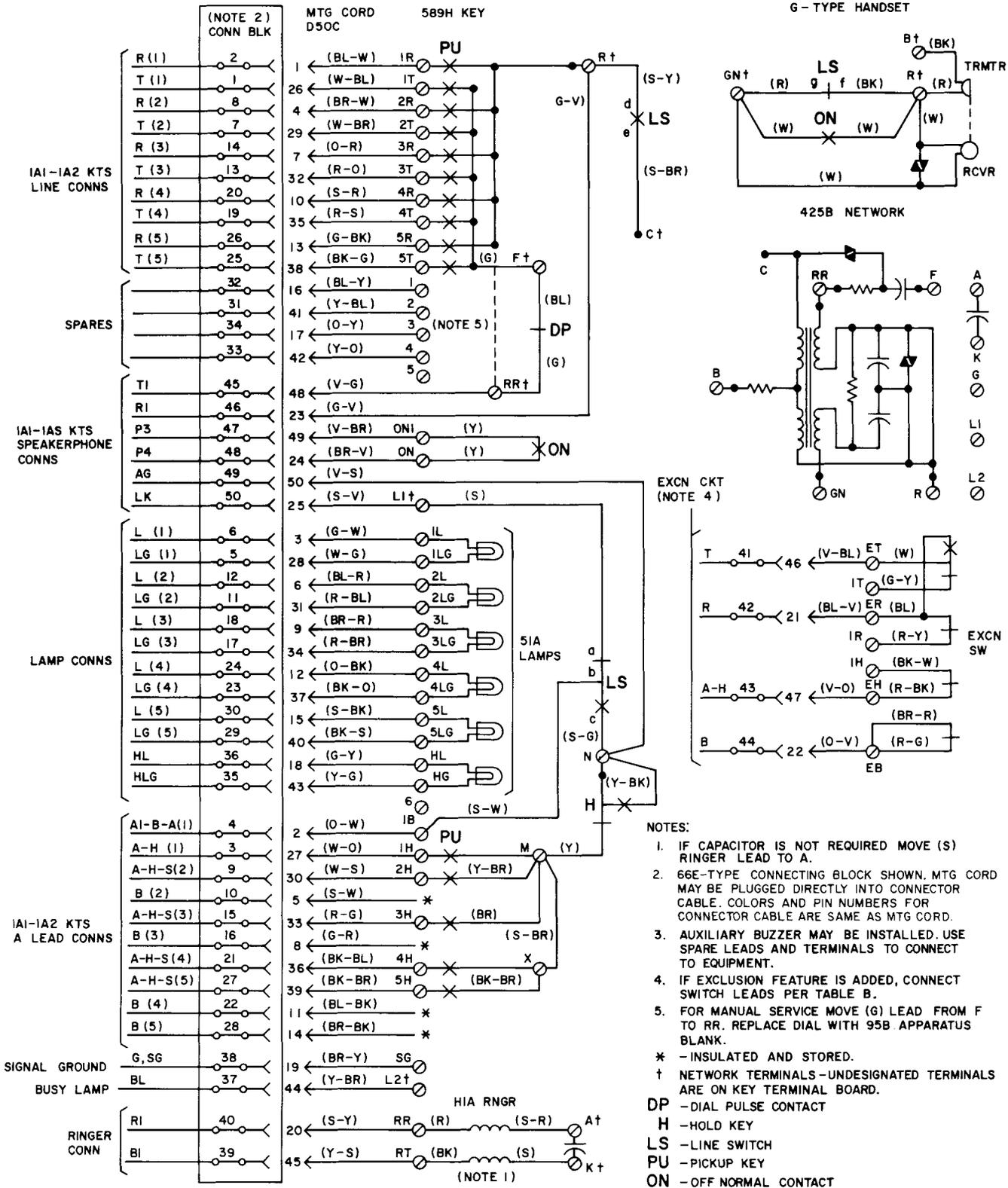


Fig. 5-565HDR (MD) Telephone Set

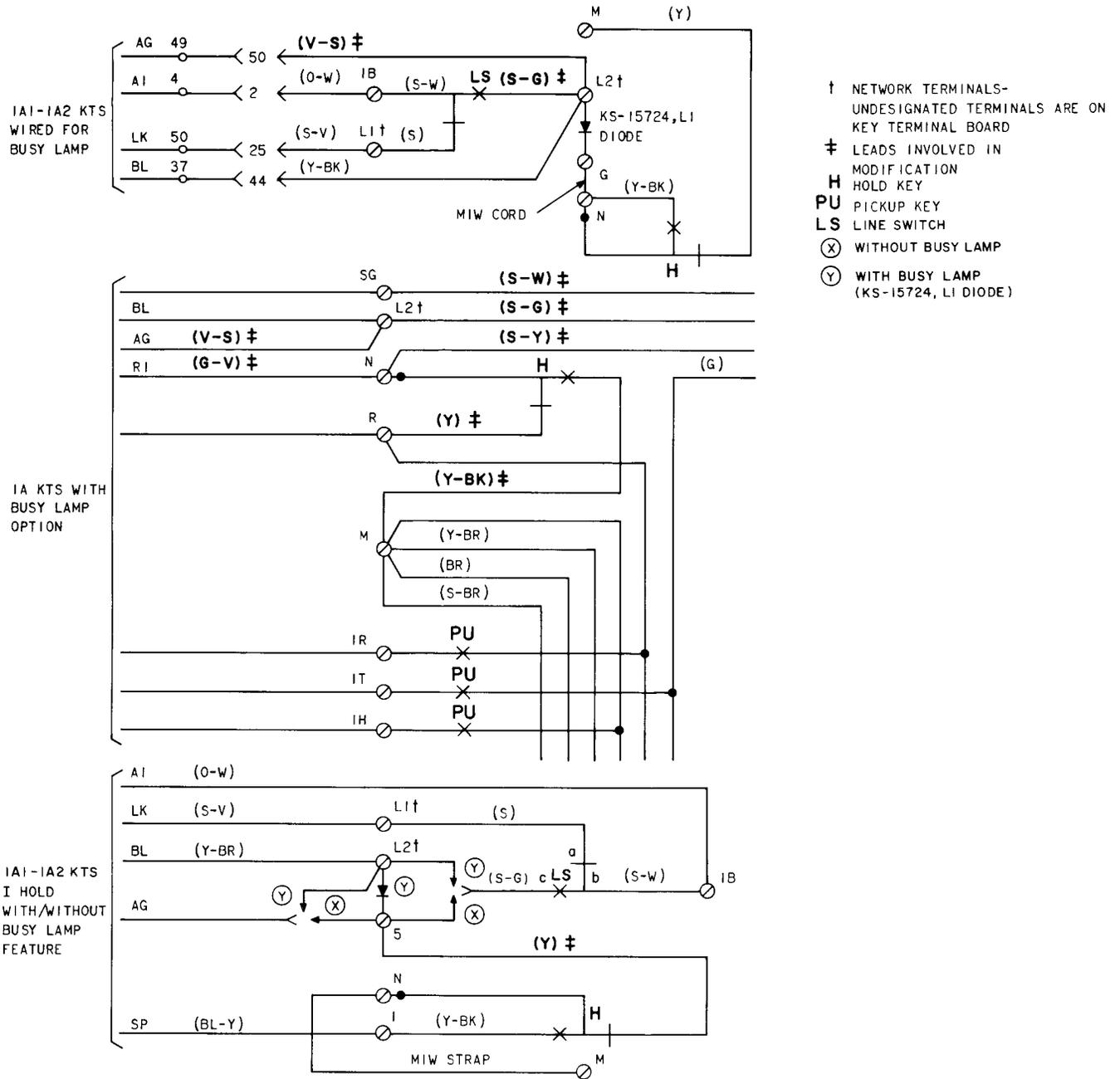


Fig. 6—Optional Features for 565HDR (MD) Telephone Set

TABLE A
PICKUP SIGNAL KEY CONVERSION

KEY TEL SET	CONVERTIBLE KEY OPTIONS	KEY LEADS			
		Y-BR	BR	S-BR	BK-BR
565HDR (MD)	HPPPPP	M	M	M	X
	HPPPPS	M	M	M	SG
	HPPPSS	M	M	SG	X
	HPPSSS	M	X	SG	X
	HPPP*P*S*	M	X	5H	N
	HPP*P*P*S*	X	X	5H	N

* These pickup key options are used on private or intercommunicating lines with the signal key common to each line. The signal key will operate the signal circuit of each line when associated pickup key is depressed. Use *S* lead on 2nd, 3rd, or 4th pickup key as required, and *G* lead for common signal ground.

TABLE B
LINE EXCLUSION

EXCLUSION	KEY TEL SYS	EXCLUSION KEY LEADS			
		R-Y	G-Y	BR-R	BK-W
On Any Line	1A	R*	T*	1B†	H*
	1A1	R*	T*	EB	H*

* Terminal of line involved.

† When other than line 1 is excluded, remove O-W mounting cord conductor from terminal 1B; insulate and store. Connect balance lead cord conductor of line involved to terminal 1B.