

## SERVICE

### 565LK TELEPHONE SET

#### 1. GENERAL

**1.01** This section is issued to provide maintenance and connection information on the 565LK-type telephone set. The connection information for this set was formerly contained in Section 502-525-408 which is hereby canceled.

#### 2. MAINTENANCE

##### *Components*

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

**2.02** Remove and replace housing as follows:

- (1) 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) To replace housing, guide lower front portion of housing over pushbuttons, align housing with base of set, and gently press housing in place.
- (3) Depress exclusion plunger. With slight pressure it should snap into its unoperated position.
- (4) Operate exclusion plunger several times to insure proper operation. Tighten captive screws in base of set.

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

**2.04** Replace set or exclusion switch assembly if any of the following 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.

**2.05** The 565LK-type set uses a mounting cord which features a slotted wafer strip (Fig. 1) to facilitate replacement.



***No field maintenance should be performed on the plug of plug-ended mounting cords.***

**2.06** 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.

**2.07** To replace defective lamp:

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

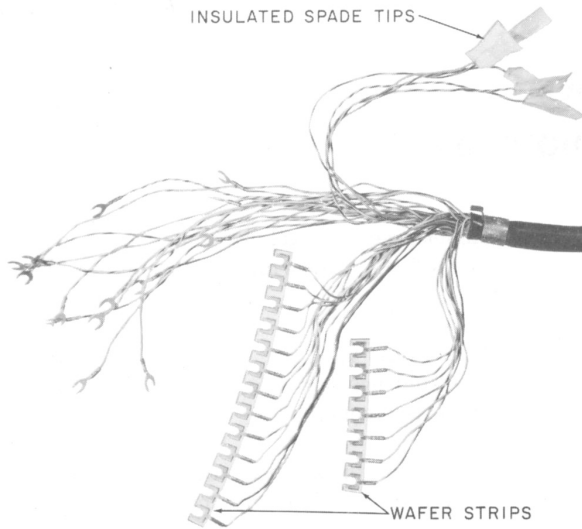


Fig. 1—Slotted Wafer Strip End of Mounting Cord

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

**2.09** Maintenance of the 589-Type Key (Fig. 2 and 3) consist of:

- (a) Cleaning contacts with a 265C tool
- (b) Replacing loose or missing damper studs with P-18A859 vibration damper sleeves (Fig. 3). Later 589-type keys do not require this vibration damper.

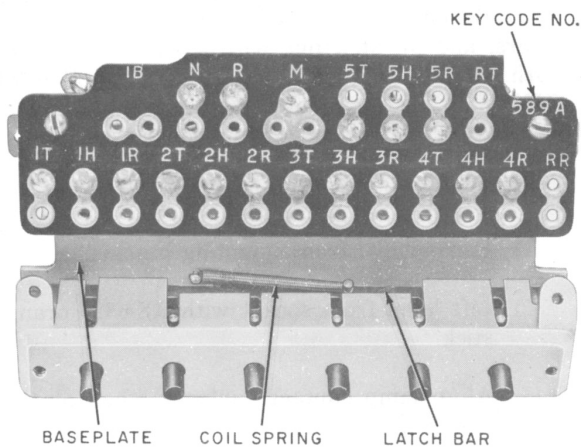


Fig. 2—589-Type Key, Top View

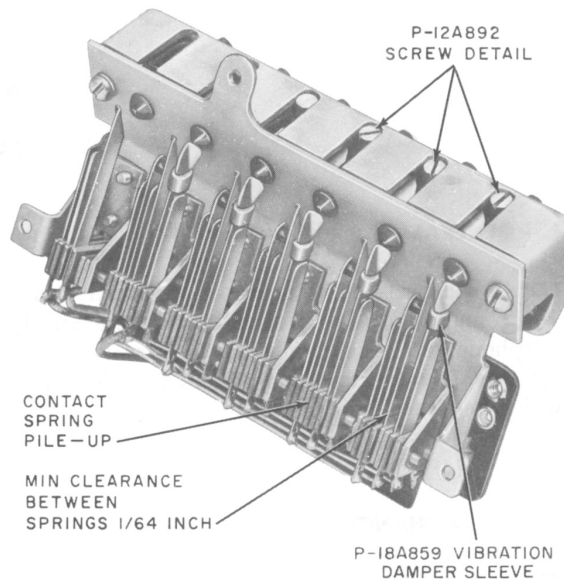


Fig. 3—589-Type Key, Bottom View

**2.10** Contact follow and separation is obtained by using a 363 tool at a point adjacent to contact spring pile-up (Fig. 3). 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. 3).
- (b) Normally open contacts should make with perceptible follow on locking keys before key plunger assumes locked position.

**2.11** 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.
- (d) An operated key plunger should release from its operated position on the upstroke of the hold button.

(e) A turnbutton operated plunger, when rotated 90 degree clockwise, should maintain its operated position.

(f) When rotated counterclockwise from its operated position, it should be self-restoring the last 30 degrees of rotation.

TABLE A

## PICKUP-SIGNAL KEY CONVERSION

| CONVERTIBLE KEY<br>OPTIONS | KEY LEAD<br>(BR-BK) |
|----------------------------|---------------------|
| HPPPPC                     | M                   |
| HPPPSC                     | SG                  |

TABLE B

## INTERNAL RINGER OR BUZZER CUTOFF BY CUTOFF KEY

(RR terminals on term. strip)

| CUTOFF                                                                 |                      | RINGER LEADS |    |   |     | BUZ LEADS |    | CUTOFF-KEY LEADS |      |
|------------------------------------------------------------------------|----------------------|--------------|----|---|-----|-----------|----|------------------|------|
|                                                                        |                      | R            | BK | S | S-R | R         | BK | BR               | Y-BR |
| Of Bridged Ringer<br>On Any Line                                       |                      | CR           | CT | K | A   |           |    | R*               | T*   |
| Of Common<br>or Private<br>Line<br>Ringer or<br>Buzzer<br>(see Note 3) | With<br>Cap.         | CR           | CT | K | A   |           |    | RR               | RT   |
|                                                                        | With-<br>out<br>Cap. | CR           | CT | A | A   | CR        | CT | RR               | RT   |
| Of Bridged Line<br>Ringer When Used<br>With Feature 1<br>On Table C    |                      | XR           | XT | K | A   |           |    | R*               | T*   |

\* Terminal of line involved.



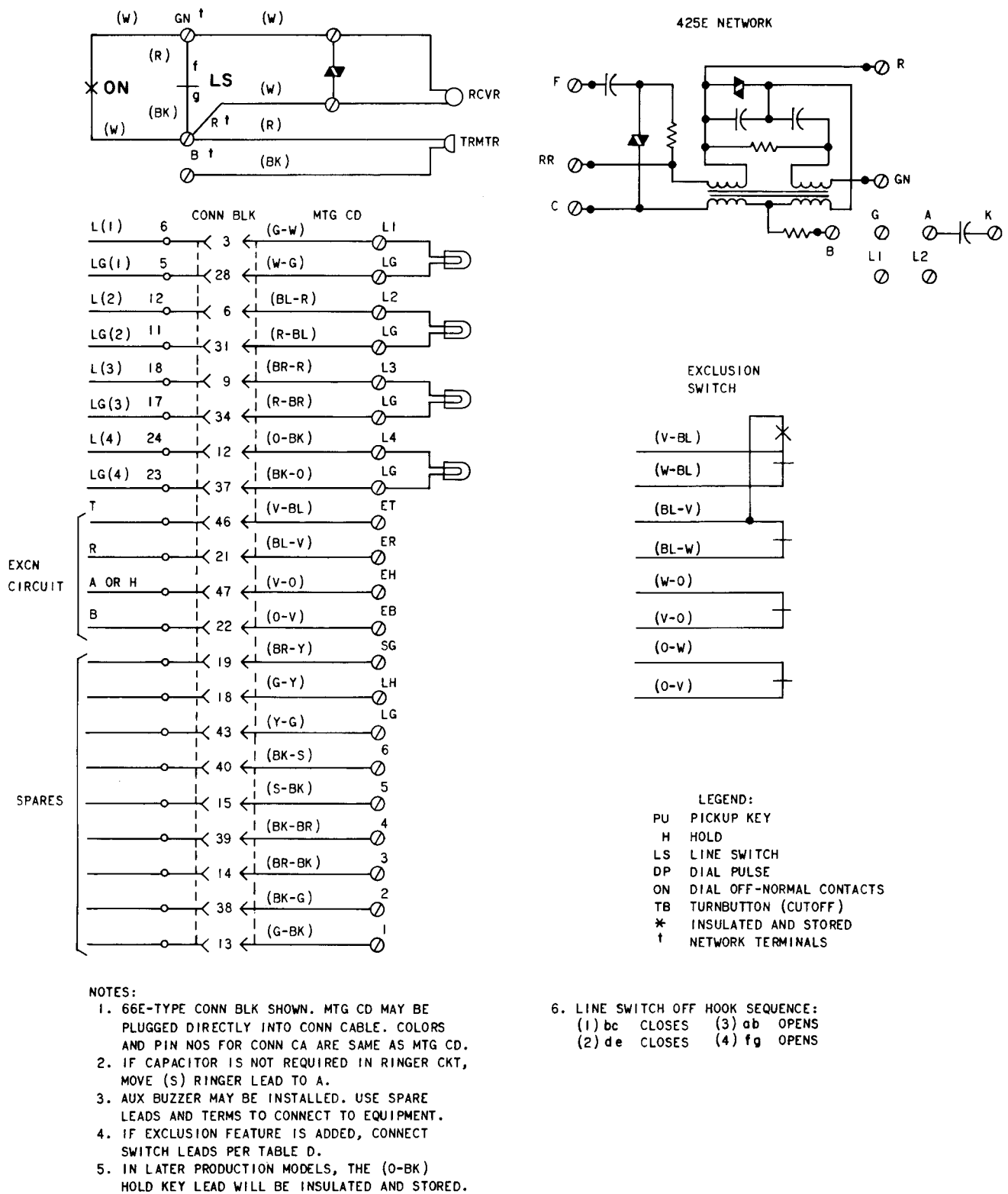
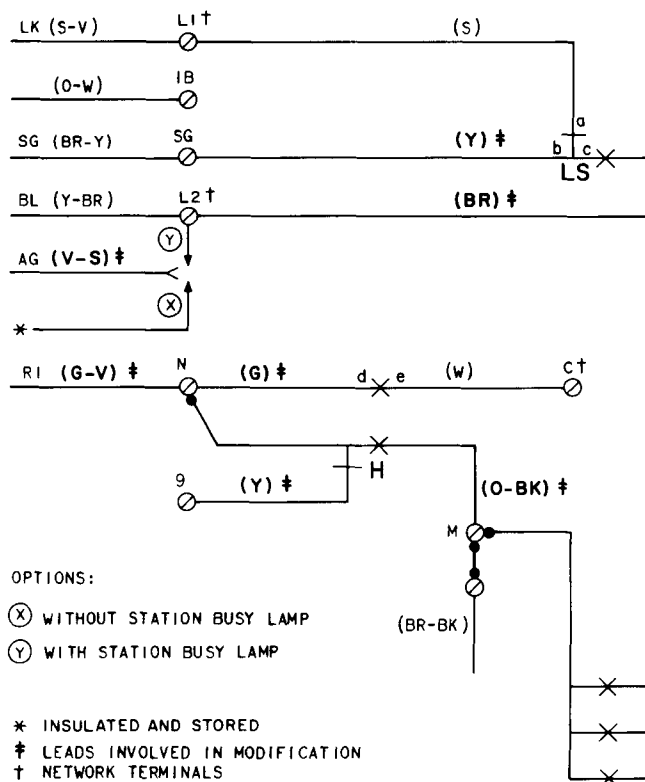
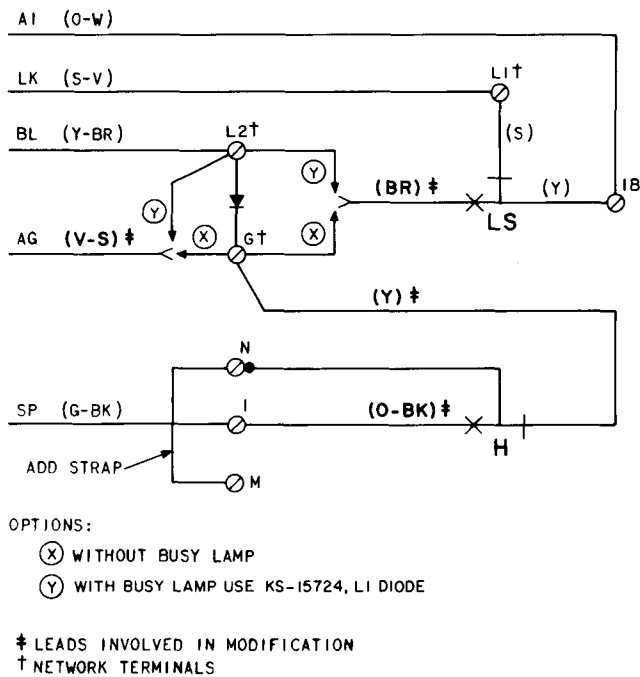


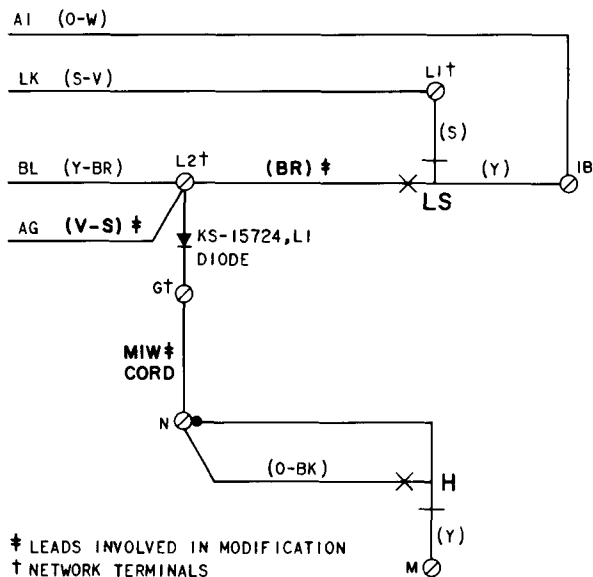
Fig. 4—565LK Type Telephone Set, Connections (Sheet 2 of 2)



**Fig. 5—Set Modified For 1A KTS**



**Fig. 7—Set Modified For I Hold**



**Fig. 6—Station Busy Lamp Circuit 1A1, 1A2 KTS**

**TABLE C**  
**EXTERNAL CIRCUITS CUTOFF**

| CUTOFF                                     | CUTOFF-KEY LEADS |      |
|--------------------------------------------|------------------|------|
|                                            | BR               | Y-BR |
| Of Ring and Tip of Any Line                | R*               | T*   |
| Of Head Receiver, Used as Listening-In Set | R*               | GN†  |
| Of Controlled 1A1, 1A2 Key Tel Sys Sta     | CT               | XT   |

\* Terminal of line involved.

† Terminal on network.

**TABLE D**  
**CONNECTIONS FOR LINE EXCLUSION KEY**

| EXCLUSION   | KEY<br>TEL<br>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, remove (O-W) mounting cord conductor from terminal 1B; insulate and store. Connect balance lead cord conductor of line involved to terminal 1B.