

## SERVICE

### 564HD TELEPHONE SET

#### 1. GENERAL

**1.01** This section contains maintenance and connection information on the 564HD (MD) telephone set.

**1.02** The information in this section was formerly contained in Section 502-525-404 which is hereby canceled.

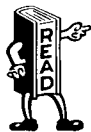
#### 2. MAINTENANCE

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

**2.02** Removing and replacing telephone set housing:

- (a) To remove housing, loosen captive screws in base of set. Lift housing up and toward front of set.
- (b) To replace housing, guide lower front of housing over pushbuttons, align housing with base of set, and gently press housing into place. Tighten captive screws in base of set.

**2.03** The 564HD (MD) telephone set is equipped with a D30B mounting cord which is rated MD. When replacement of the mounting cord is necessary, a D34B cord should be used.



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

**2.04** Early production 589-type keys were equipped with vibration damper sleeves on contact springs. Key maintenance should include checking for loose or missing damper sleeves. Later production keys of this type do not require this vibration damper and are not equipped with damper sleeves.

**2.05** 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.

**2.06** Maintenance of the 589-type key consists of cleaning contacts with a 265-type tool, checking damper sleeves (2.04), and checking for loose or broken electrical connections.

**2.07** When replacing a defective lamp use a KS-6320 orange stick to extract the lamp from its socket, and install the new lamp with its contact surfaces properly aligned with the lamp socket.

**2.08** 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.

#### 3. CONNECTIONS

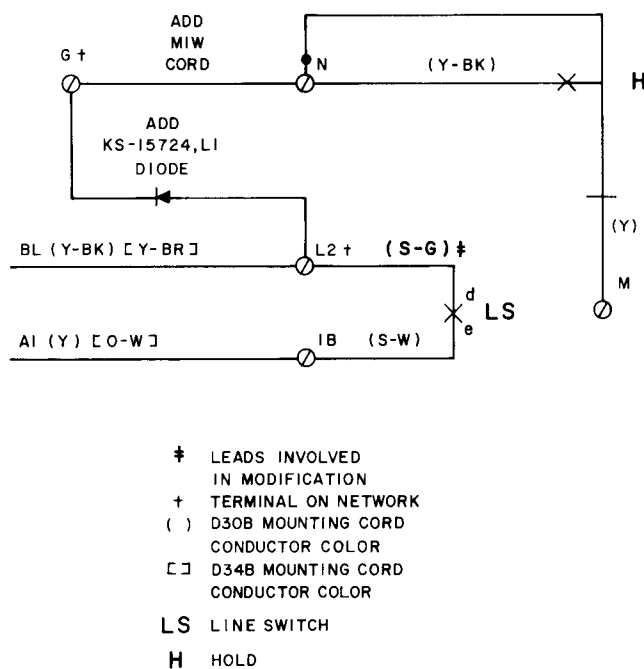
**3.01** The 564HD (MD) telephone sets are factory-wired for use with 1A1, 1A2, or 6A key telephone system (KTS). These sets can be modified for use with 1A KTS (Fig. 3) but are not intended for exclusion or speakerphone use.

**3.02** Telephone sets wired with the black and red ringer leads on the RT and RR terminals

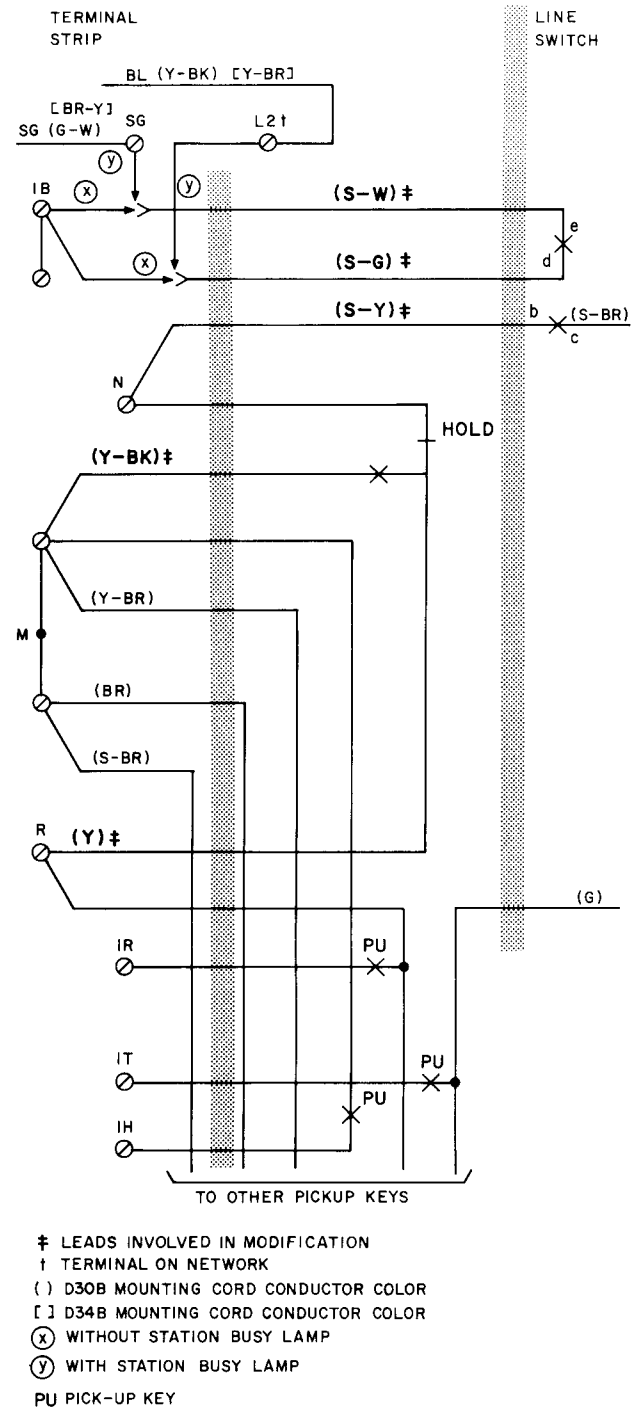


will have a (+) sign after the code number on the base of the set.

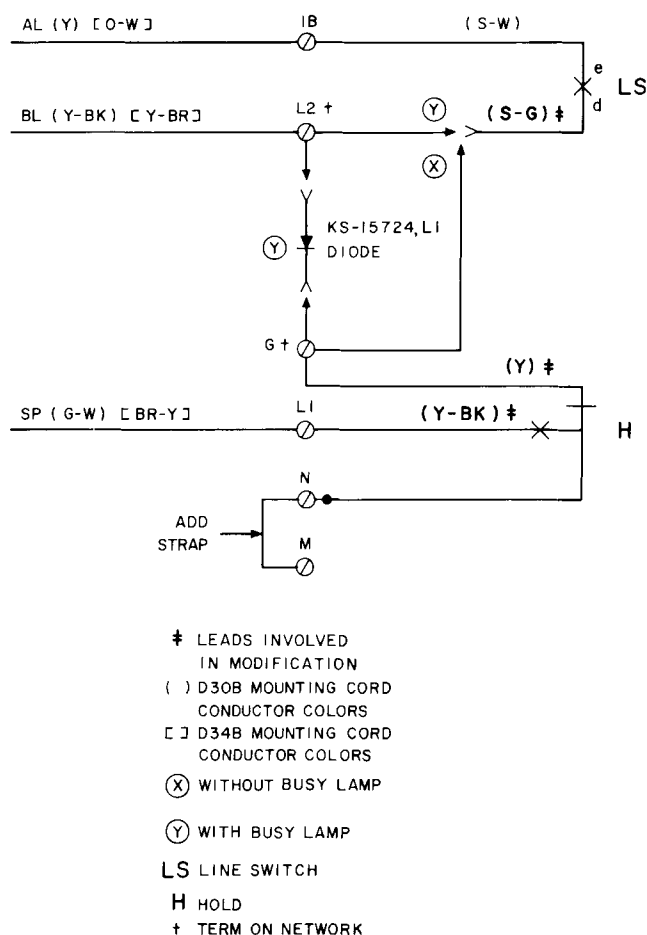
**3.03** If the station termination is made on a 66E3-25 or 66E4-25 connecting block, loop-through straps can be installed on connecting block clip terminals 5, 11, 17, 23, and 29 to add the necessary lamp ground copper for lamps 2, 3, 4, and 5. In all cases, full pairs should be brought to the connecting block from connecting key system apparatus via inside wiring or A-type connector cables.



**Fig. 2—Station Busy Lamp Arrangement (1A1 or 1A2 KTS Without I Hold Feature)**



**Fig. 3—564HD (MD) Telephone Set Modified for Use With 1A KTS**



**Fig. 4—I Hold Arrangement With or Without Station Busy Lamp**

**TABLE A**

**PICKUP-SIGNAL KEY CONVERSION  
564HD**

CONVERTIBLE KEY OPTIONS (NOTES)	KEY LEADS			
	BR	Y-BR	S-BR	BK-BR
HPPPPP	M	M	M	X
HPPPPS	M	M	M	SG
HPPSSS	M	M	SG	X
HPPSSS	X	M	SG	X
HPPP*P*S*	X	M	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, under control of the line switch, 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.

**Notes:**

1. All convertible key positions are arranged in the factory as pickup positions. To convert a key position from pickup (locking) to signaling (nonlocking), remove the P-12A892 screw detail from plunger at the key position to be converted. Make necessary connection changes as shown in Table A. To convert a key position from nonlocking to locking, insert P-12A892 screw detail.
2. When keys are converted for signaling, the S lead of key involved provides the signal circuit and SG lead provides the common signal ground.