

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.

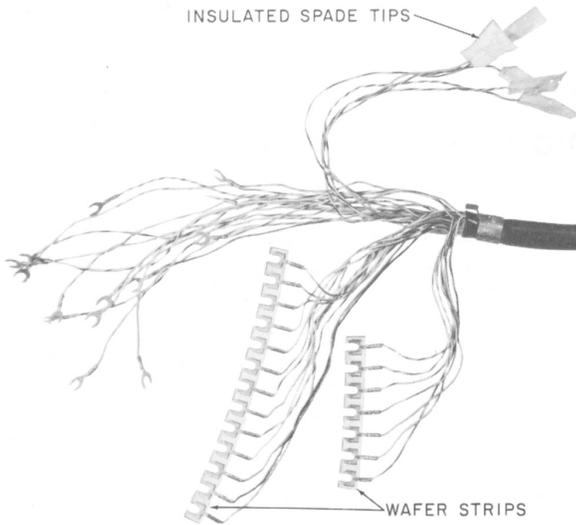


Fig. 1—Slotted Wafer Strip End of Mounting Cord

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.

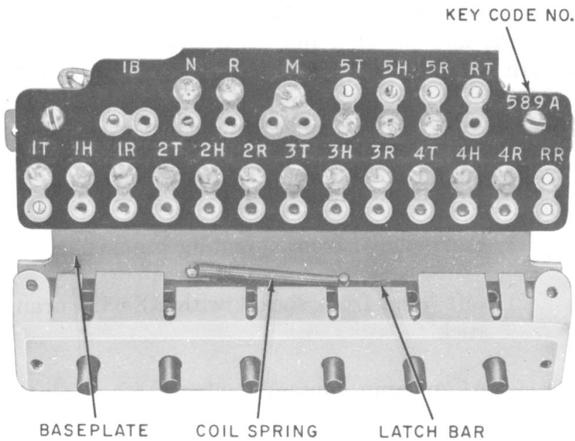


Fig. 2—589-Type Key, Top View

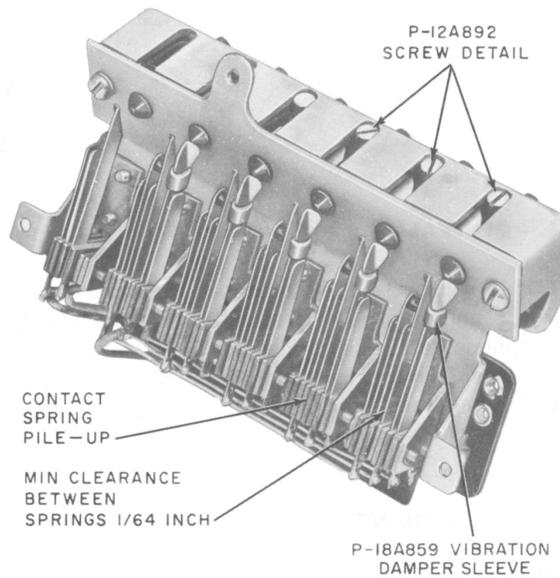


Fig. 3—589-Type Key, Bottom View

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 OPTIONS	KEY LEAD (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 On Any Line		CR	CT	K	A			R*	T*
Of Common or Private Line Ringer or Buzzer (see Note 3)	With Cap.	CR	CT	K	A			RR	RT
	Without Cap.	CR	CT	A	A	CR	CT	RR	RT
Of Bridged Line Ringer When Used With Feature 1 On Table C		XR	XT	K	A			R*	T*

* Terminal of line involved.

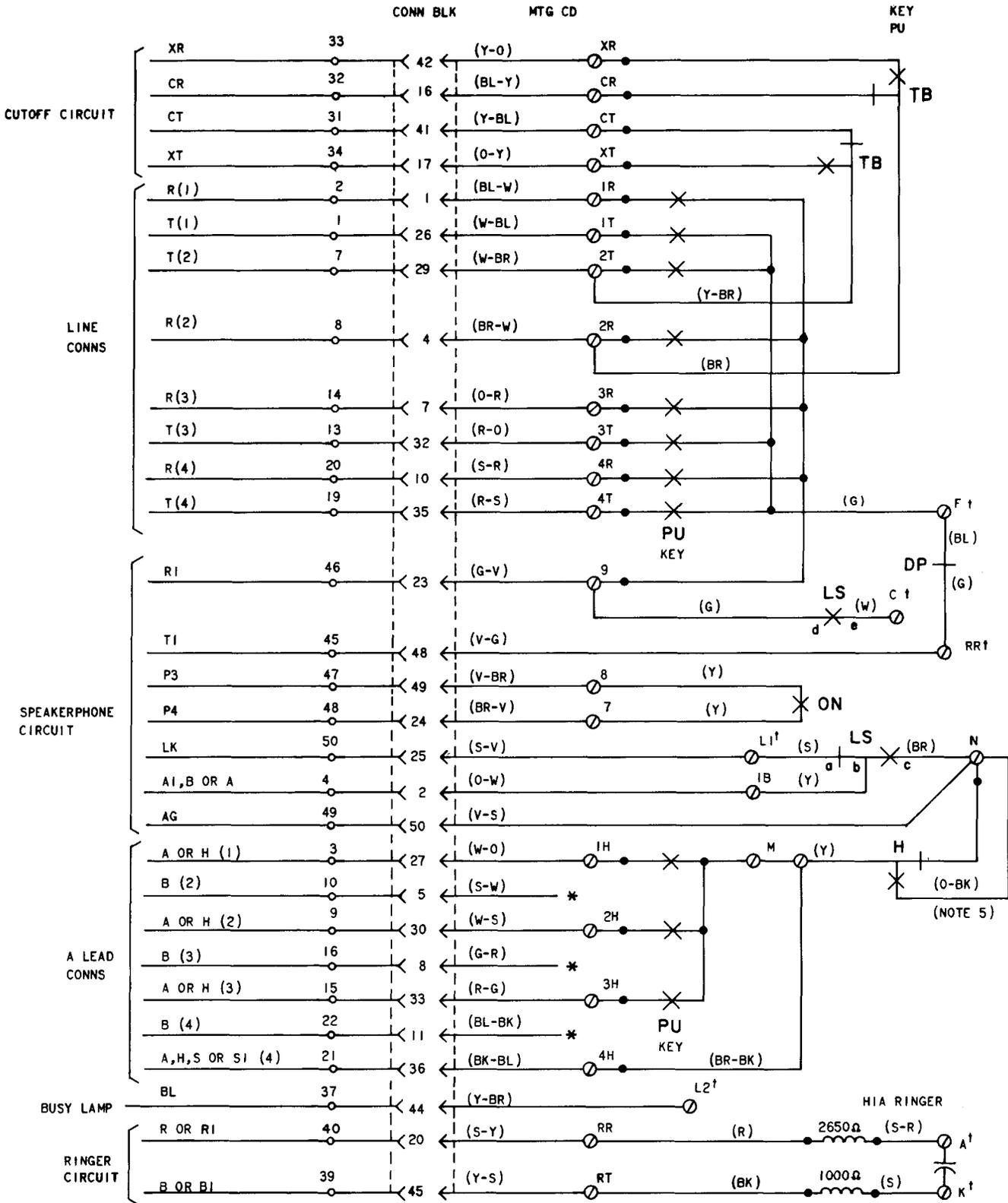
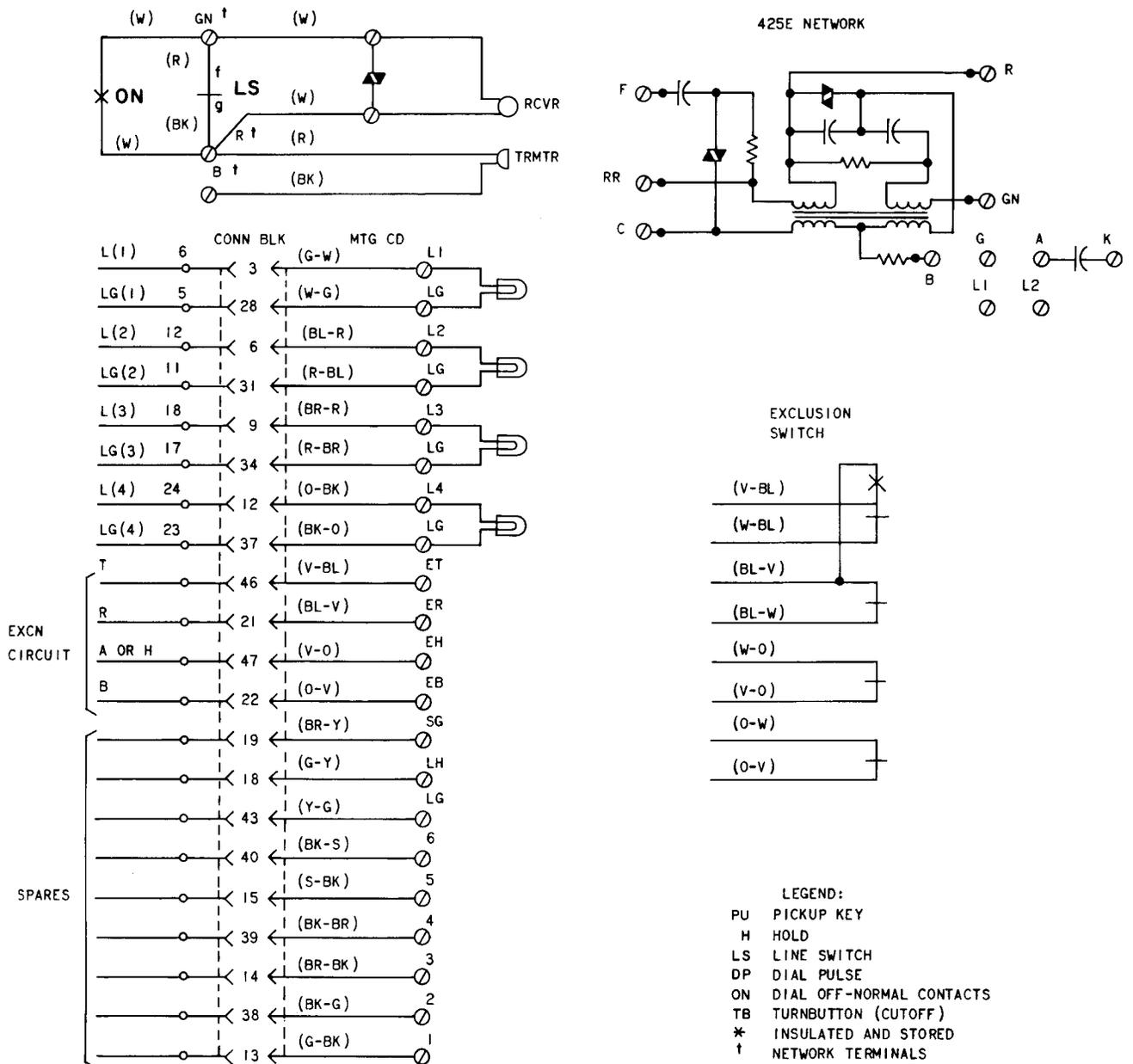


Fig. 4—565LK Type Telephone Set, Connections (Sheet 1 of 2)



NOTES:

1. 66E-TYPE CONN BLK SHOWN. MTG CD MAY BE PLUGGED DIRECTLY INTO CONN CABLE. COLORS AND PIN NOS FOR CONN CA ARE SAME AS MTG CD.
2. IF CAPACITOR IS NOT REQUIRED IN RINGER CKT, MOVE (S) RINGER LEAD TO A.
3. AUX BUZZER MAY BE INSTALLED. USE SPARE LEADS AND TERMS TO CONNECT TO EQUIPMENT.
4. IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE D.
5. IN LATER PRODUCTION MODELS, THE (O-BK) HOLD KEY LEAD WILL BE INSULATED AND STORED.

6. LINE SWITCH OFF HOOK SEQUENCE:
 - (1) bc CLOSES (3) ab OPENS
 - (2) de CLOSES (4) fg OPENS

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

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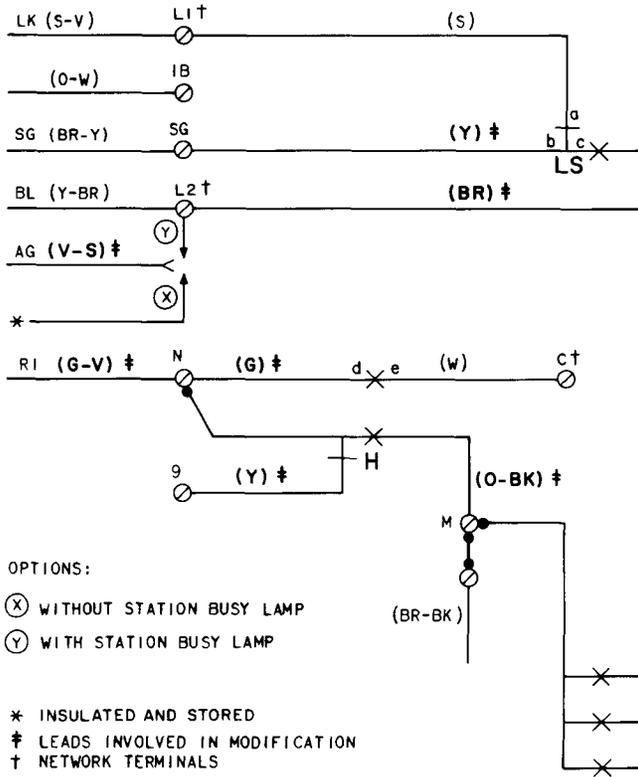


Fig. 5—Set Modified For 1A KTS

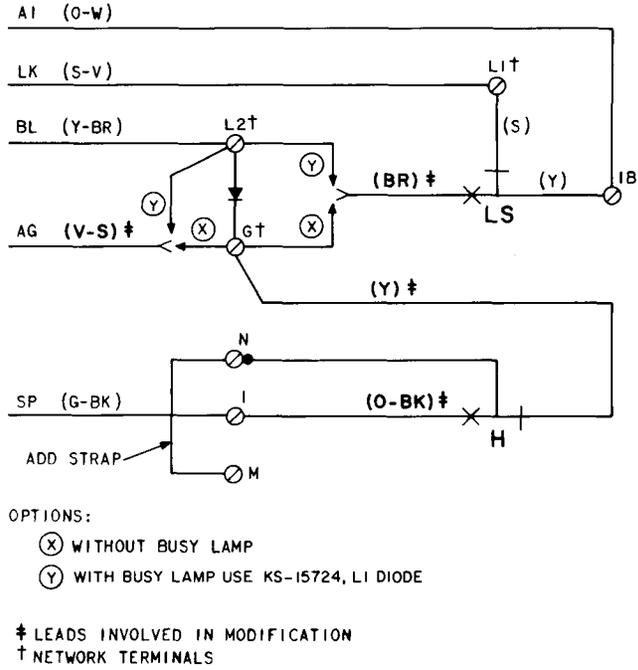


Fig. 7—Set Modified For I Hold

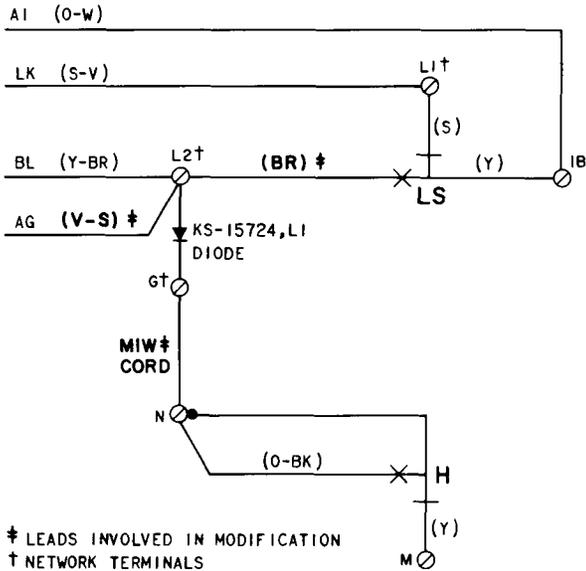


Fig. 6—Station Busy Lamp Circuit 1A1, 1A2 KTS

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 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, remove (O-W) mounting cord conductor from terminal 1B; insulate and store. Connect balance lead cord conductor of line involved to terminal 1B.