

REFERENCE

1751-TYPE TELEPHONE SETS

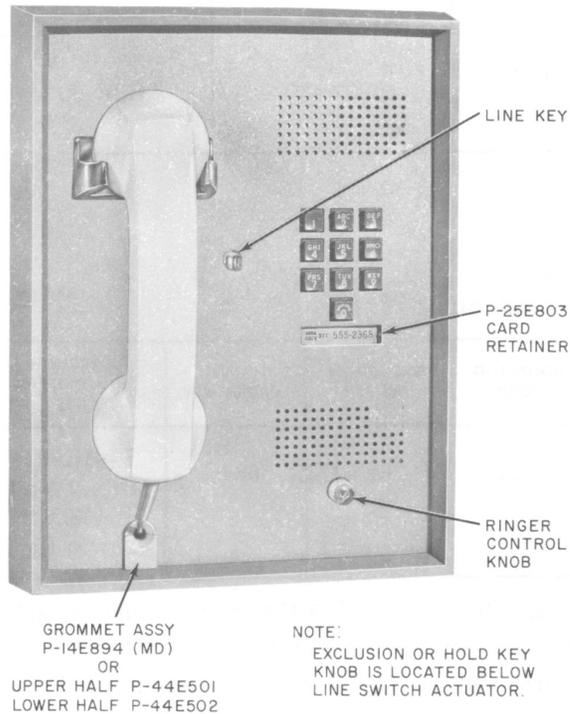


Fig. 1—1751-Type Telephone Set

1. GENERAL

1.01 This section contains identification, installation, maintenance, and connection information for the 1751-type telephone sets. This information was formerly contained in Sections 502-750-100 and 502-750-421 which are hereby canceled.

2. IDENTIFICATION

Ordering Guide

2.01 Set, Telephone, 1751C-58 (MD) or 1751D-60 (MD)

Note: —58 includes white handset, aluminum mat, and light gray plastic frame. —60 includes light beige handset, copper mat, and light beige plastic frame.

2.02 Replaceable set components are listed in Tables A and B.

2.03 *Associated Apparatus or Equipment (ordered separately):*

- Apparatus Box, 113-type or 114A (recessed mounting)
- D-180071 or D-180072 Kit of Parts (surface mounting)
- Connecting Block, 71B

2.04 *Loose Parts Furnished With Set:*

- Cord, Mounting, D12E
- P-160828 Mounting Screws (4)
- P-25E803 Card Retainer

Design Features

2.05 The 1751-type telephone sets may be recess mounted or adapted for surface mounting using a D-180071 or D-180072 Kit of Parts.

2.06 Component parts of these sets are mounted on a steel panel. An aluminum mat retained by a plastic frame covers the panel and gives the installation a finished appearance.

Application

2.07 Can be used on CO, PBX, and 1A1 or 1A2 KTS.

TABLE A
COMPONENT ORDERING GUIDE (COLOR SIGNIFICANT)

TELEPHONE SET	MAT	FRAME (MAT)	LINE SWITCH	HANDSET
1751C-58	P-26E926	P-84A261* P-89C261†	P-89A461	G3K-58
1751D-60	P-26E927	P-84A260* P-89C260†	P-89A460	G3K-60

* Furnished with telephone set.

† Furnished with kit of parts used for surface mounting.

TABLE B
COMPONENT ORDERING GUIDE

TYPE TELEPHONE SET	DIAL	RINGER	CORD REEL	MOUNTING CORD	EXCLUSION SWITCH	LINE PICKUP KEY	GROMMET (HANDSET CORD)
1751	25W3* 25A3 (MD)	D1E	3A or 3B	D12E	P-26E909	584G	P-44E501† (Upper Half) P-44E502† (Lower Half)

* May be converted to provide 12-button capability by installing a D-180115 Kit of Parts and replacing mat with appropriate 12-button mat. Refer to Table A for mat piece part ordering information.

† These components replace the P-14E894 (MD) grommet assembly used in early production 1751-type sets.

3. INSTALLATION

Apparatus Boxes

3.01 Refer to Division 463 for information on installing apparatus boxes.

3.02 *To install telephone set in box:*

(1) Remove cover of apparatus box, if so equipped (see section covering apparatus boxes).

(2) Install 71B connecting block (ordered separately) to mounting bracket located in upper right corner of apparatus box. (Consult Division 461 for further information on this type of connecting block.) If installing a TOUCH-TONE® set in place of a rotary set, the 71A (MD) connecting block must be replaced with a 71B connecting block because of mechanical interference or

remove 71A connecting block and use D-161488 connectors.

(3) Secure mounting cord stayhook and terminate inside wire or cable and mounting cord in accordance with appropriate connection figure.

(4) Remove plastic mat retainer frame and mat from telephone set.

(5) Position panel on lower edge of apparatus box with top tilted outward. Connect mounting cord plug to connector on set panel. Dress mounting cord to avoid interference with telephone set components. Align panel of set with mounting brackets on box and secure with four mounting screws furnished with set.

(6) Position mat on panel and secure using the mat retainer frame. If necessary, the

projecting tabs may be adjusted to insure a snug fit.

D-180071 or D-180072 Kit of Parts

3.03 To surface mount telephone set:

(1) The D-180071 (light gray frame) or D-180072 (light beige frame) Kit of Parts, ordered separately, permits mounting these sets on the surface of a wall (Fig. 2).

(2) The base pan assembly is arranged for mounting on a 63A or KS-19407L1 bracket or a standard electrical outlet box.

Note: Additional mounting holes in the base pan assembly provide for securing to wall surface using nails or screws as required.

(3) After securing the base pan to the wall fasten the 71B connecting block (ordered separately) to the bracket provided. Terminate inside wire or cable and telephone set mounting cord as shown in appropriate connection figure.

(4) Connect mounting cord plug to connector on set panel. Dress mounting cord to avoid interference with telephone set components.

(5) Align panel of set with mounting screws furnished with the set.

(6) Position mat on panel and secure using plastic frame (P-89C260 or P-89C261) from kit of parts.

Note: The frame furnished with the telephone set is not required for this installation.

Installation of P-90D060 Guard Assembly

3.04 An optional polarity guard (ordered separately) is available for use with these sets. It is intended for use when specified by local instructions for end-to-end signaling installations, refer to Fig. 3 and Table C for connections.

Note: Make connections to terminals of polarity guard before mounting assembly.

4. MAINTENANCE

4.01 Work done on customer's premises should be limited to replacement of accessible parts which are available through supply channels; refer to ordering guide tables.

Note: Early production 1751-type sets were equipped with a three piece metal grommet assembly (Fig. 4). It is recommended that the metal grommet assembly be replaced when any maintenance is performed on these sets. (See Table B, Fig. 4 and 5.)

4.02 Ringers, handsets, dials, etc. used in these sets should be maintained in accordance with section covering the particular item.

4.03 The exterior of these sets should be clean and not marred or chipped. The vinyl-faced mat may be cleaned with a water-dampened KS-2423 or equivalent cloth. Replace defective mat as follows:

(1) Grasp mat retainer frame at top, lift upward and out to release frame from panel of set.

(2) Remove handset from hook of set.

(3) Pull out handset cord to allow working slack.

(4) Remove mat from face of panel.

(5) Remove grommet from mat as shown in Fig. 5.

(6) Install grommet in new mat by reversing procedure used in removal.

(7) Position mat on panel and secure using the mat retainer frame.

4.04 To test the cord reel, pull the handset cord out to its maximum length. With the cord maintained perpendicular to the panel, the cord should retract fully. Any twists in the cord should be removed before making test.

4.05 Replace the cord reel if the cord will not retract or if the cord is frayed, kinked, or noisy. Field maintenance of the cord reel or replacement of the cord is not recommended.

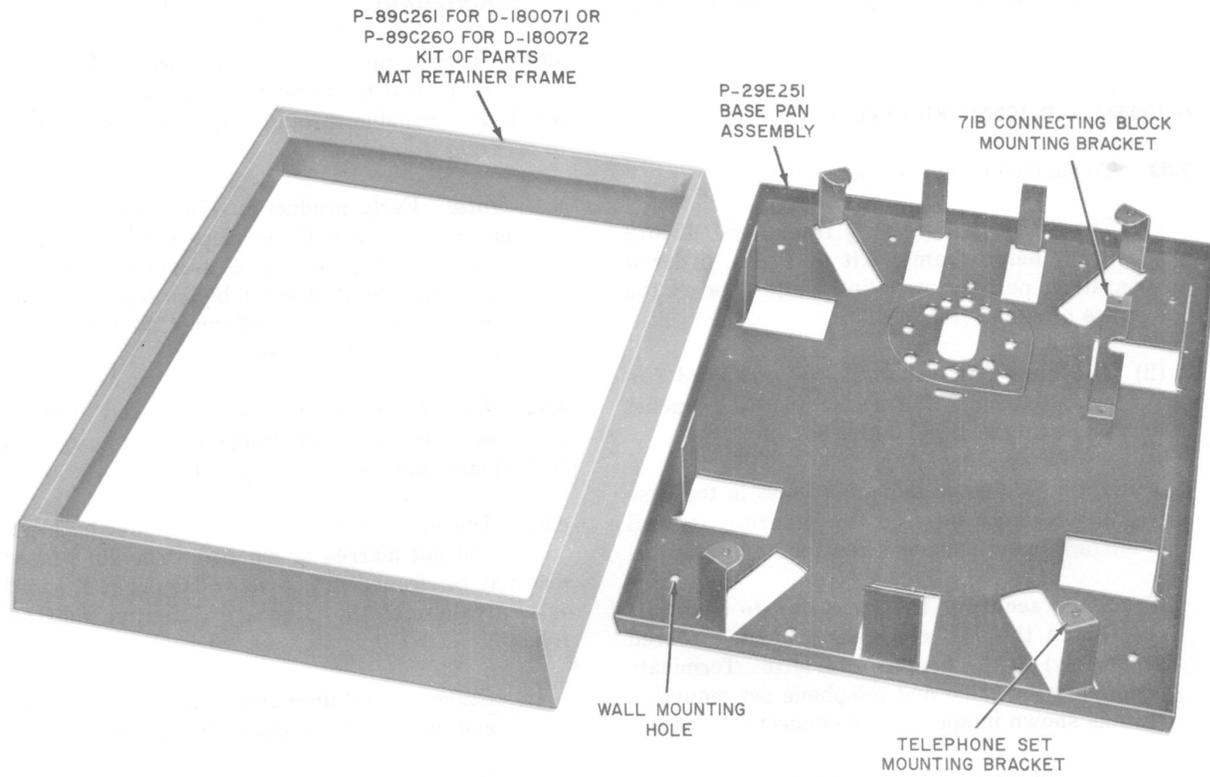


Fig. 2—D-180071 or D-180072 Kit of Parts For Surface Mounting



The 3A cord reel shall be used when the telephone set is subjected to temperatures below 40 degrees F. The 3B cord reel shall be used when the telephone set is not subjected to temperatures below 40 degrees F.

4.06 The ringer volume control should operate without restriction when the knob is turned. Replace set if the control mechanism is worn or defective.

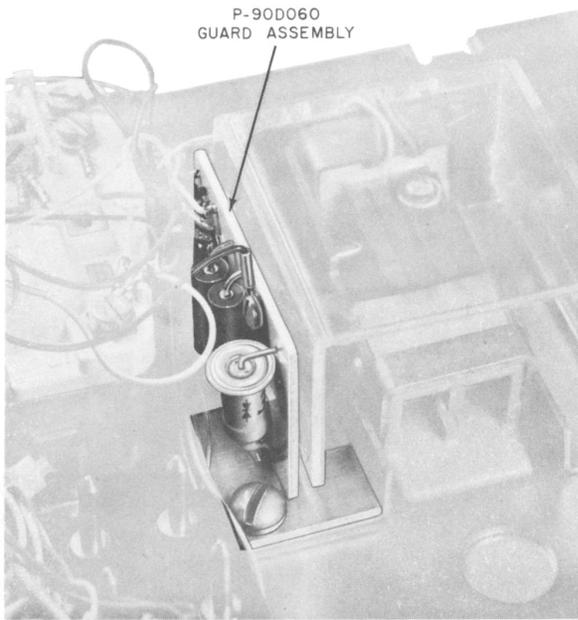


Fig. 3—Installed P-90D060 Guard Assemblby

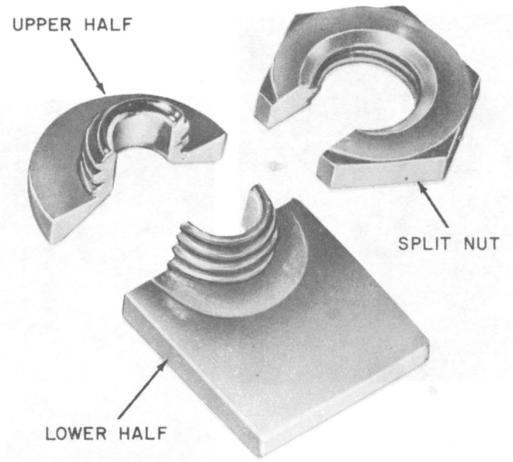


Fig. 4—P-14E894 (MD) Grommet Assembly

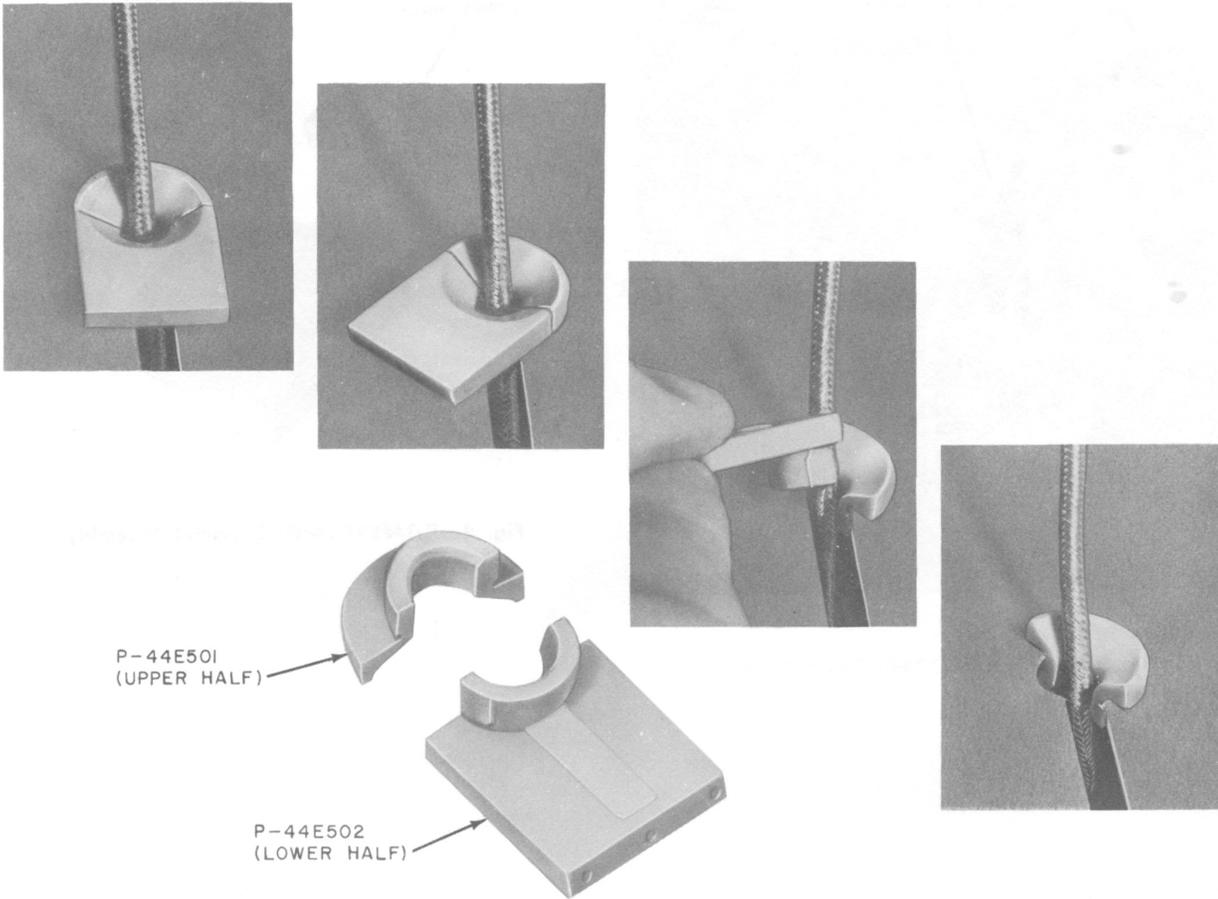


Fig. 5—Removal of Handset Cord Grommet

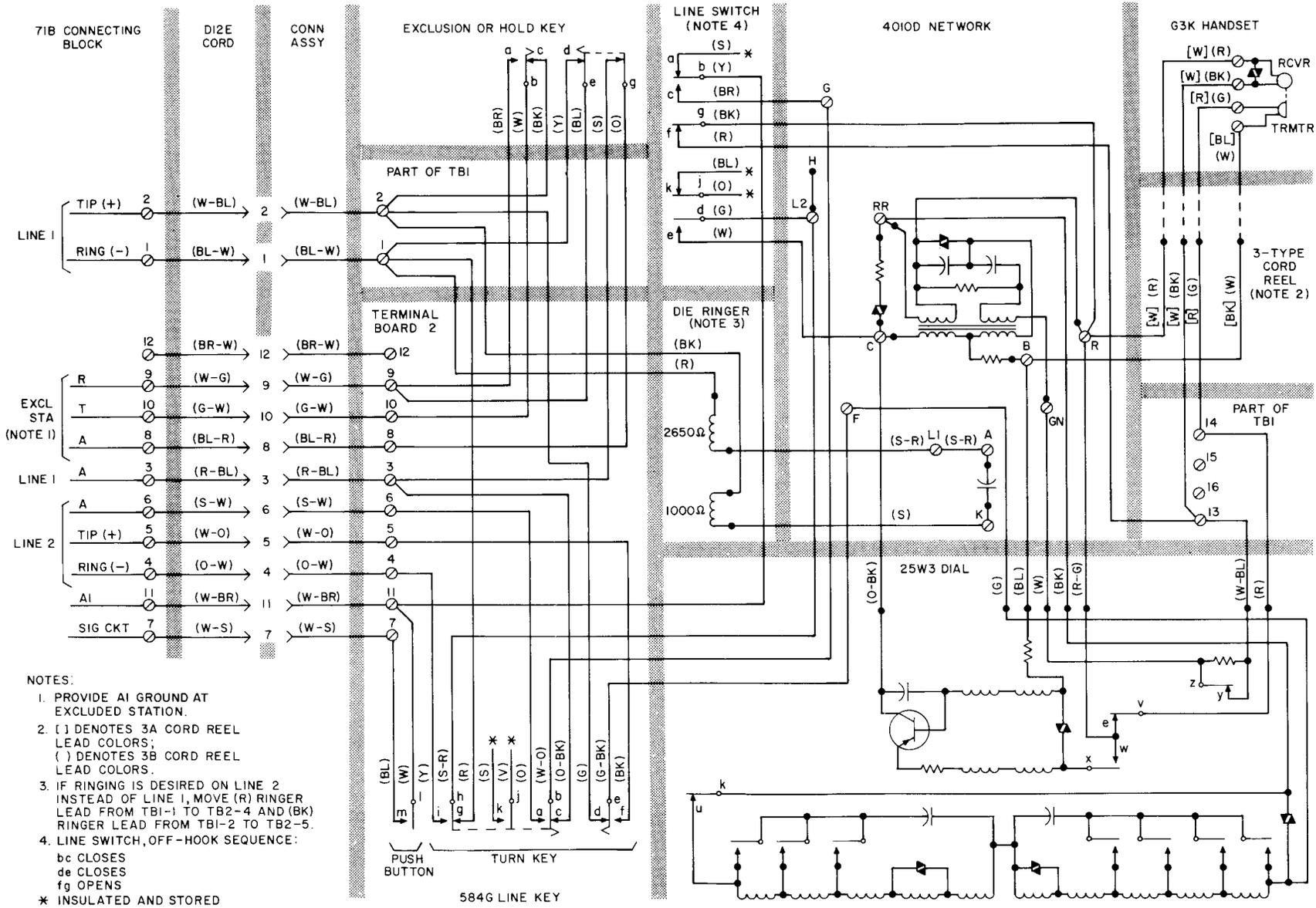


Fig. 6—1751C and 1751D Telephone Set Connections, (Current Production) Factory Wired

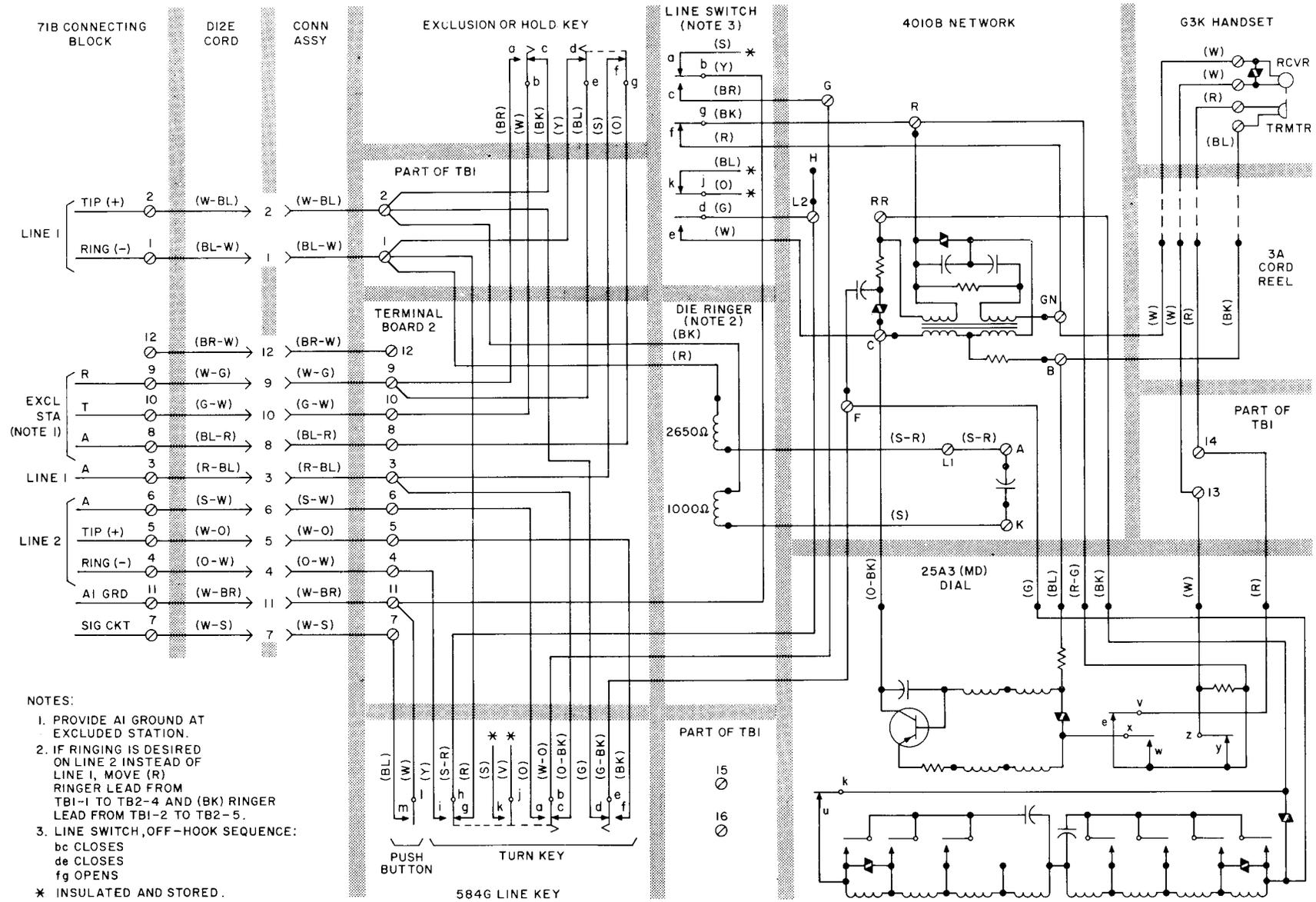


Fig. 7—1751C and 1751D Telephone Set Connections, (Early Production) Factory-Wired

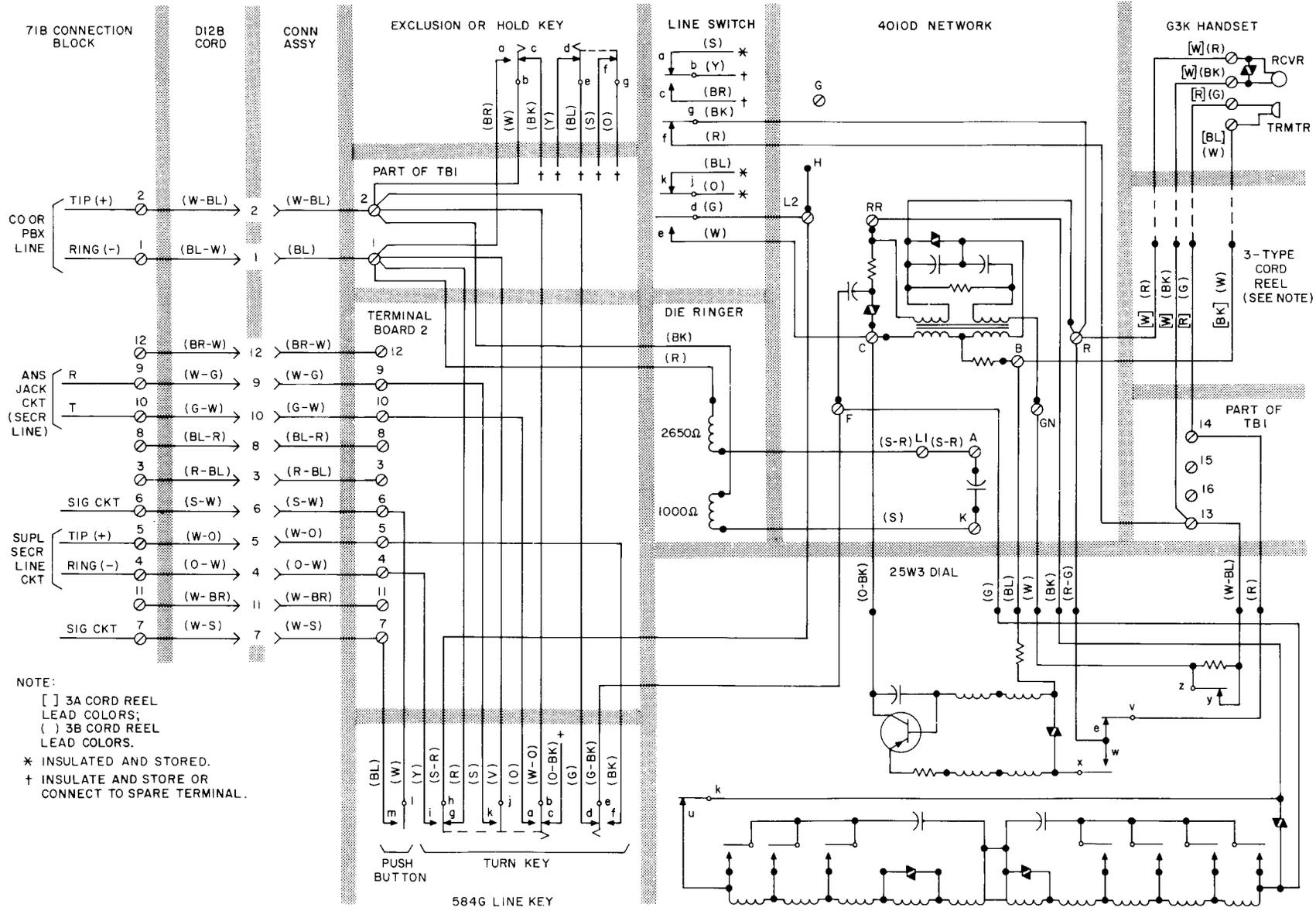


Fig. 8—1751C and 1751D Telephone Set Connections, (Current Production) Wired For Secretarial Service, Signaling, and Hold (Nonkey System)

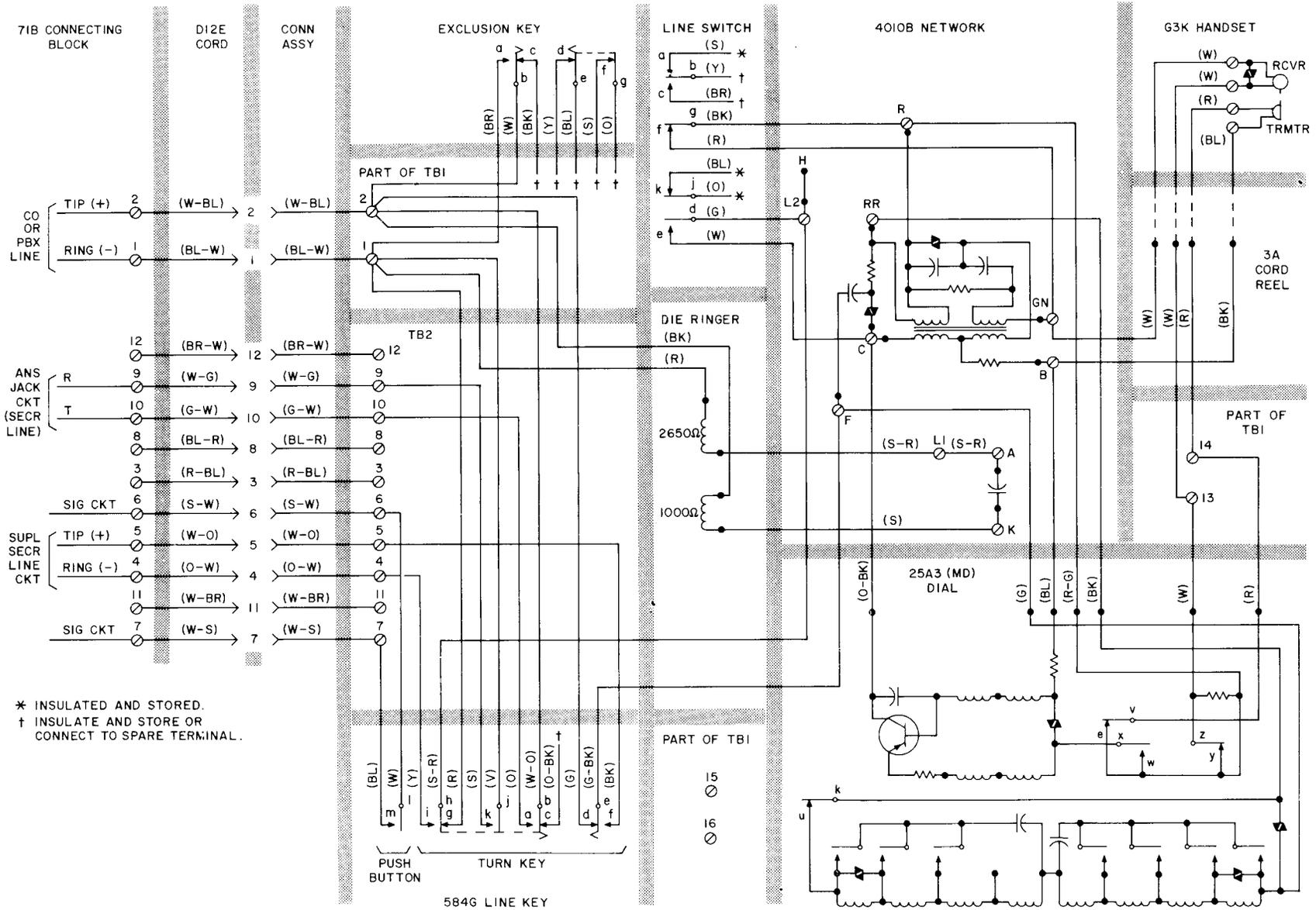


Fig. 9—1751C and 1751D Telephone Set Connections, (Early Production) Wired For Secretarial Service, Signaling, and Hold (Nonkey System)

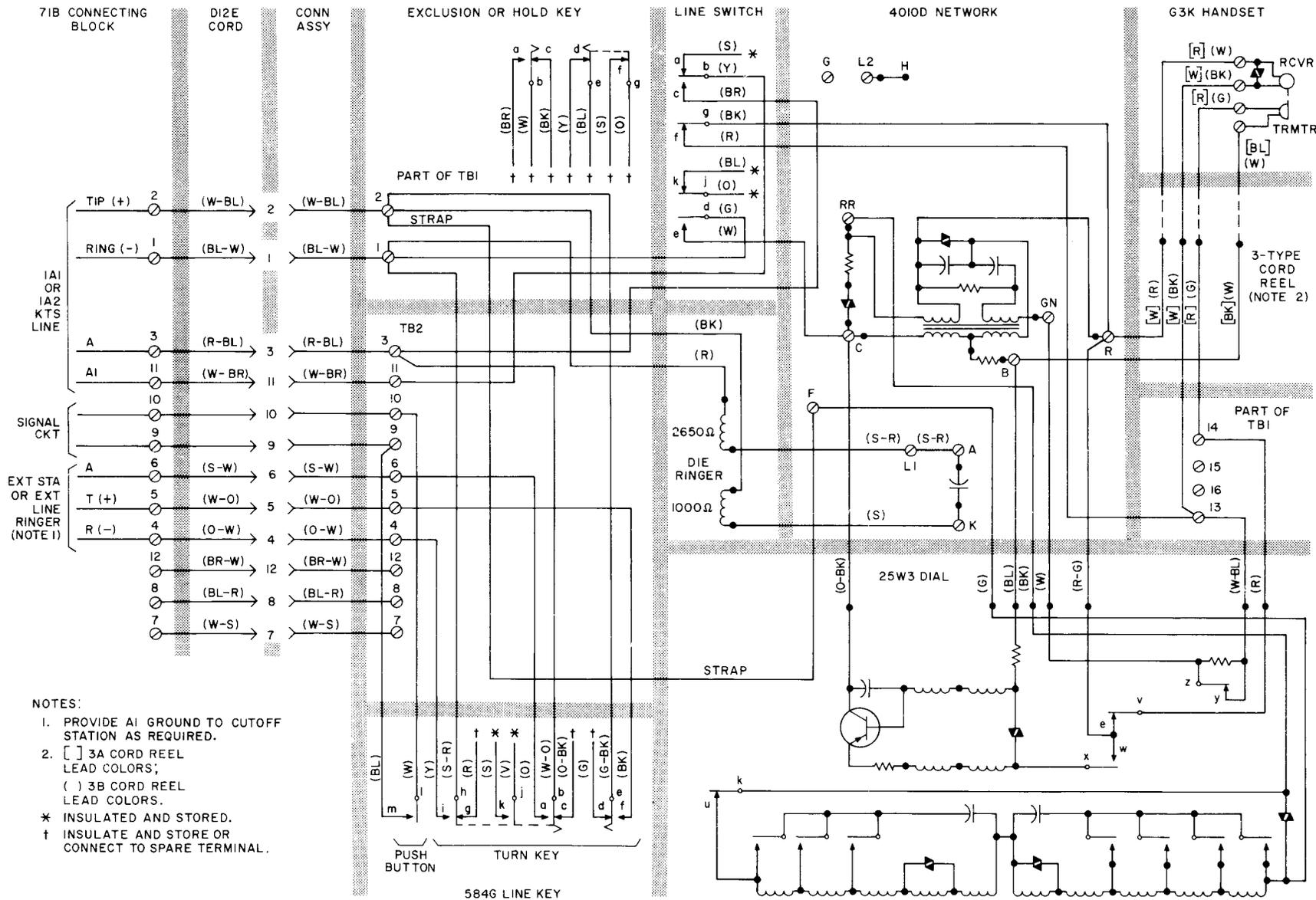


Fig. 10—1751C and 1751D Telephone Set Connections, (Current Production) Wired for 1-Line Pickup, Signaling, and Cutoff Feature

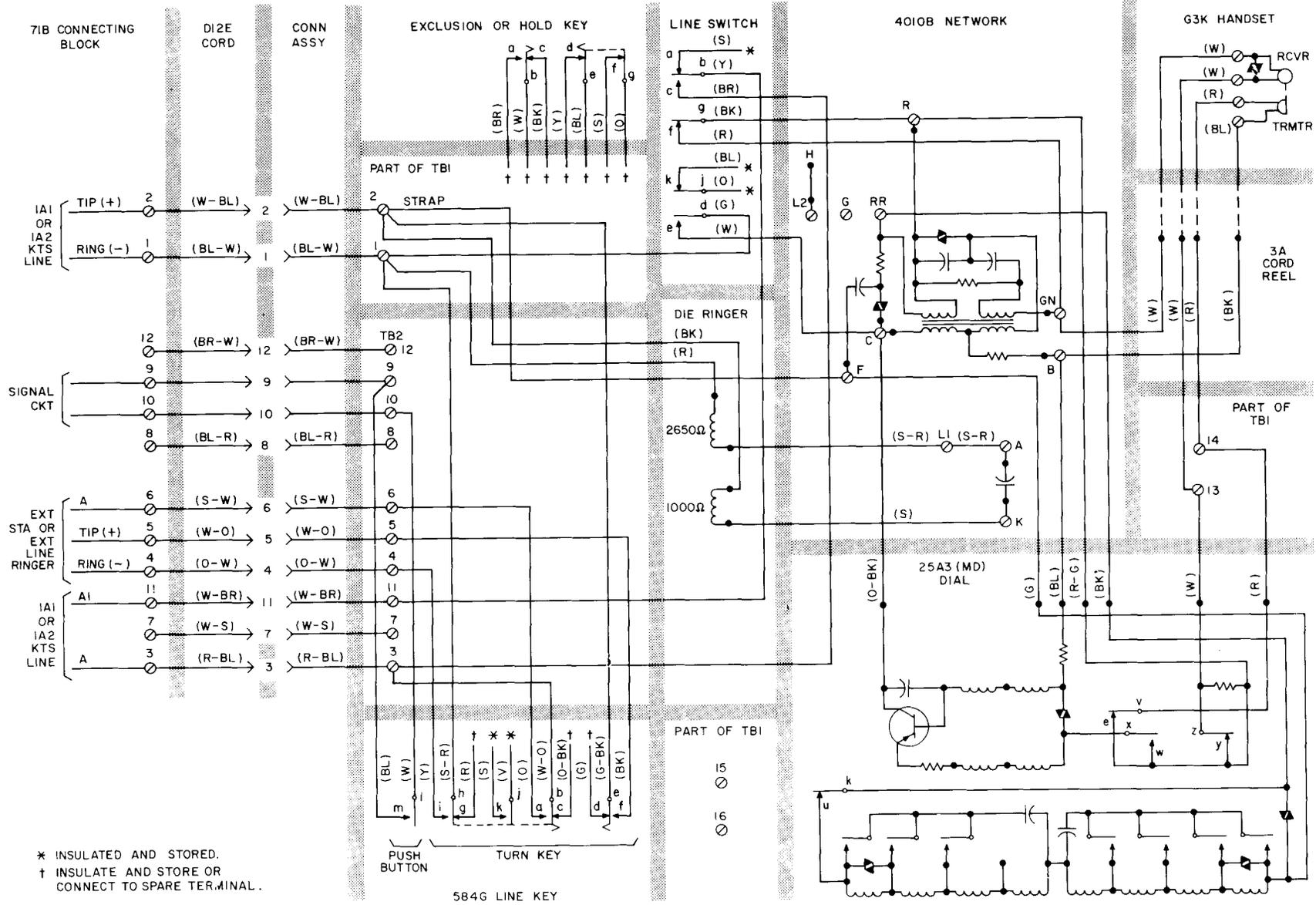


Fig. 11—1751C and 1751D Telephone Set Connections, (Early Production) Wired For 1-Line Pickup, Signaling, and Cutoff Feature

TABLE C

**POLARITY GUARD CONNECTIONS
(P-90D060 GUARD ASSEMBLY)**

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		NET.	GUARD ASSEMBLY	NET.	
Line Switch	W	C	S		
Dial	BK	RR	T		
Guard Assembly	W G				C RR

TABLE D

**CONVERSION FOR SECRETARIAL SERVICE,
SIGNALING, AND HOLD (NONKEY SYSTEM)**

APPARATUS	LEAD	REMOVE FROM		CONNECT TO
		TB1	NET.	TB1
Line Switch	Y	11		*
	BR		G	*
Exclusion or Hold Key	BR	9		1
	W	10		2
	BK	2		*
	Y	1		*
	BL	9		*
	S	3		*
584G Line Key	O	8		*
	W-O	6		10
	O-BK	3	G	2
	V			*
	S			1
	W	11		9
				6

Note: Leads connected to terminals 3 through 12 of TB1 were connected to terminals 3 through 12 of TB2 in early model sets.

* Insulate and store.

TABLE E

**CONVERSION FOR 1-LINE PICKUP, SIGNALING,
AND CUTOFF FEATURE**

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		TB1	NET.	TB1	NET.
Line Switch	BR		G	3	
	G		L2	1	
Exclusion or Hold Key	BR	9			*
	W	10			*
	BK	2			*
	Y	1			*
	BL	9			*
	S	3			*
584G Line Key	O	8			*
	G-BK		F	2	
	G	2			*
	O-BK	3			*
	W-O		G	3	
	R	1			*
M1W cord or Equivalent	S-R		L2	1	
	W	11		10	
	BL	7		9	
	Strap			2	F

Note: Leads connected to terminals 3 through 12 of TB1 were connected to terminals 3 through 12 of TB2 in early model sets.

* Insulate and store.