

REFERENCE

2751-TYPE TELEPHONE SETS

IDENTIFICATION, INSTALLATION, CONNECTIONS, AND MAINTENANCE

1. GENERAL

1.01 This section contains information for the 2751-type telephone sets (Fig. 1). **These sets are intended for business type service only.**

1.02 This section is reissued to:

- Add 2751CG-58 and 2751DG-60 telephone sets
- Add D-181006 Kit of Parts (includes 840364376 polarity guard)
- Show 2751C-58 and 2751D-60 telephone sets MD.

1.03 The 2751CG-58 and 2751DG-60 are the same as the 2751C-58 (MD) and 2751D-60 (MD) telephone sets, respectively, except the 2751CG-58 and 2751DG-60 sets have a polarity guard (840364376) installed at the factory.

2. IDENTIFICATION

A. Ordering Guide

2.01 Set, Telephone, 2751CG-58 or 2751DG-60

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

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

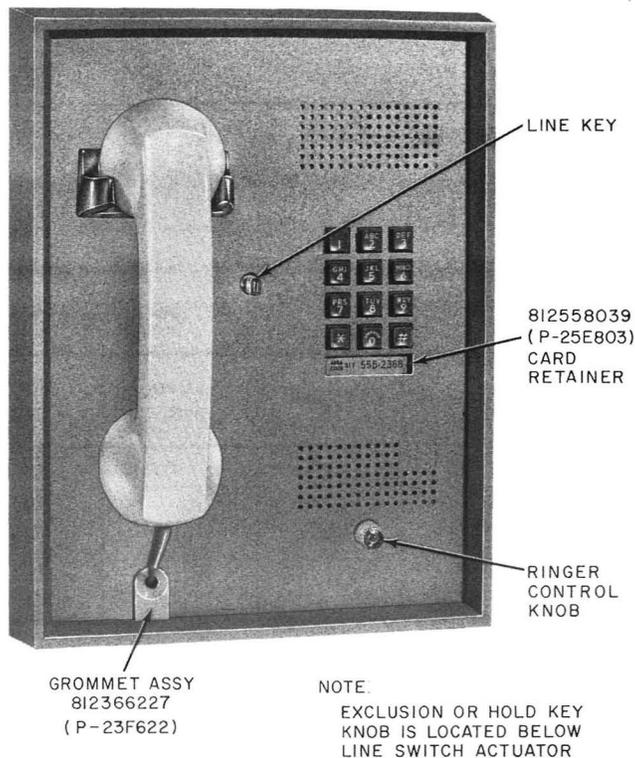


Fig. 1—2751-Type Telephone Set

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)
- D-181006 Kit of Parts (polarity guard)
- Connecting Block, 71B.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

◆ TABLE A ◆

COMPONENT ORDERING GUIDE (COLOR SIGNIFICANT)

TEL SET	MAT	FRAME (MAT)	LINE SWITCH	HANDSET
2751CG-58 2751C-58 (MD)	812167906 (P-21F790)	818412611 (P-84A261)* 818932618 (P-89C261)†	818914616 (P-89A461)	G3K-58
2751DG-60 2751D-60 (MD)	812167914 (P-21F791)	818412603 (P-84A260)* 818932600 (P-89C260)†	818914608 (P-89A460)	G3K-60

* Furnished with telephone set.

† Furnished with kit of parts used for surface mounting.

◆ TABLE B ◆

COMPONENT ORDERING GUIDE

TEL SET	DIAL	RINGER	CORD REEL*	MOUNTING CORD	EXCLUSION KEY	LINE KEY	GROMMET (HANDSET CORD) PRIOR TO 1969
2751-Type	35Y3A	D1E	3B	D12E	812659092 (P-26E909)	584G	814455010 (P-44E501) (Upper Half) 814455028 (P-44E502) (Lower Half)

* Sets manufactured since 1969 have a one piece grommet, which is part of the cord reel.

2.04 Loose Parts Furnished With Set:

- Cord, Mounting, D12E
- 801608282 (P-160828) Mounting Screws (4)
- 812558039 (P-25E803) Card Retainer
- 841392731 Mylar box insulator.

B. Design Features

2.05 The 2751-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.

C. Application

2.07 Can be used on CO, PBX, and 1A1 or 1A2 KTS. *These sets are intended only for business type service.*

3. INSTALLATION**A. 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) Fit Mylar box insulator in base pan assembly.
- (3) 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.

- (4) Secure mounting cord stayhook and terminate inside wire or cable and mounting cord in accordance with appropriate connection figure.
- (5) Remove plastic mat retainer frame and mat from telephone set.
- (6) 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.
- (7) Position mat on panel and secure using the mat retainer frame. If necessary, the projecting tabs may be adjusted to insure a snug fit.

B. 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) Secure the base pan to the wall. Fit the Mylar box insulator in the base pan assembly. 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.

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

C. Installation of Guard Assembly

3.04 ♦An optional (D-181006 Kit of Parts) polarity guard (ordered separately) is available for use with the 2751C-58 (MD) or 2751D-50 (MD) set, or for field replacement in all 2751-type 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. The polarity guard has an adhesive backing for convenient placement.♦

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.

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.

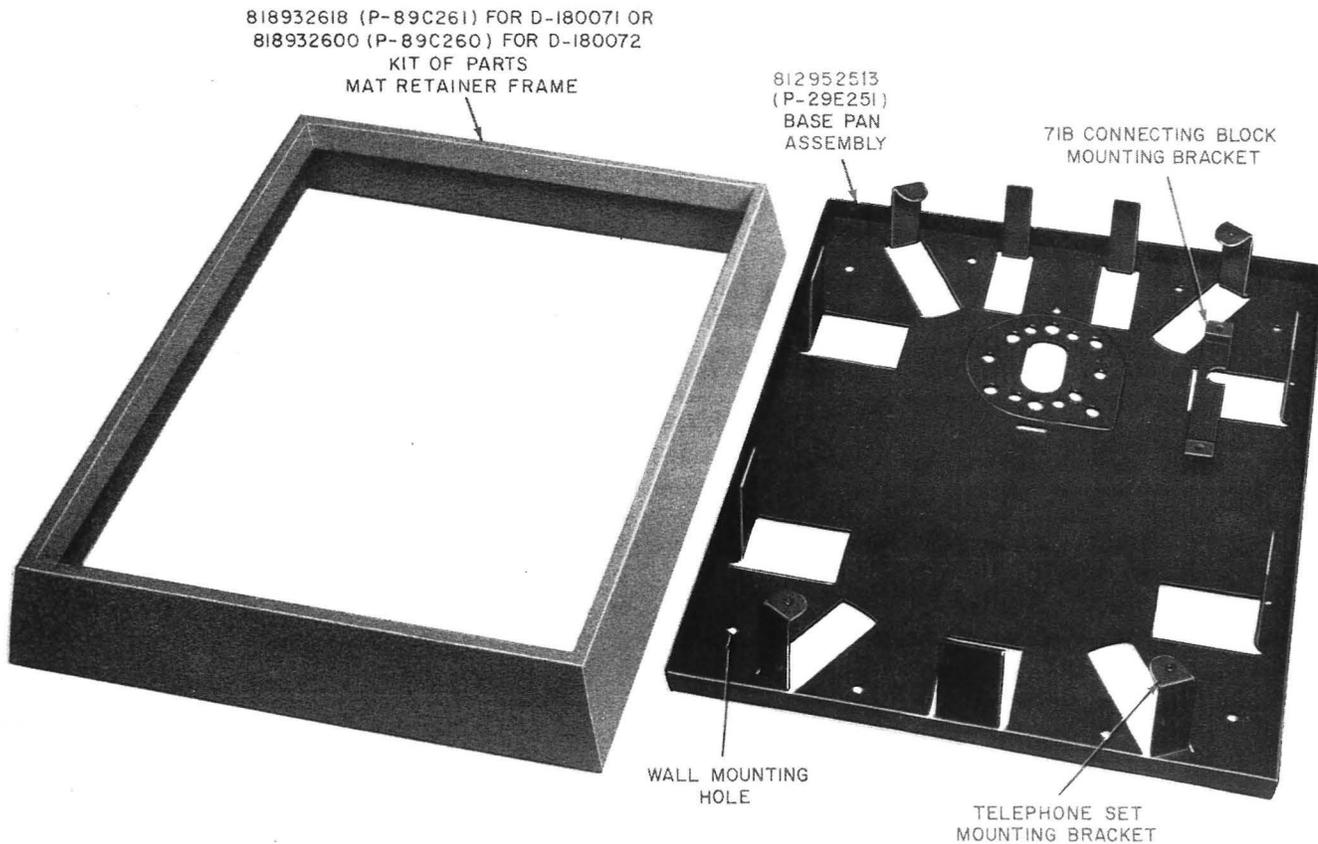


Fig. 2—D-180071 or D-180072 Kit of Parts for Surface Mounting

- (5) Rotate handset cord grommet 1/4 turn clockwise and remove. Sets manufactured prior to 1969 use a two piece grommet, Table B. Sets manufactured after 1969 use a single piece grommet which is a part of the 3B cord reel.
- (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.

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.

5. CONNECTION

5.01 Refer to Fig. 4 and 7 for connection information.

5.02 Refer to Table D or E and Fig. 5 and 6 or 8 and 9 for conversion connection information.

TABLE C
POLARITY GUARD CONNECTIONS D-181006 (840364376)
KIT OF PARTS

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		NET.		GUARD ASSEMBLY	NET.
Line Switch	W	C		S	
Dial	BK	RR		T	
Guard Assembly	W				C
	G				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		*
	O	8		*
584G Line Key	O	6		10
	W-O		G	2
	O-BK	3		*
	V		†	1
	S		†	9
	W	11		6

* Insulate and store.

† Stored location.

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			*
	O	8			*
584G Line Key	G-BK		F	2	
	G	2			*
	O-BK	3			*
	W-O		G	3	
	R	1			*
	S-R		L2	1	
	W	11		10	
	BL	7		9	
M1W cord or Equivalent	Strap			2	F

* Insulate and store.

POLARITY
GUARD
ASSEMBLY

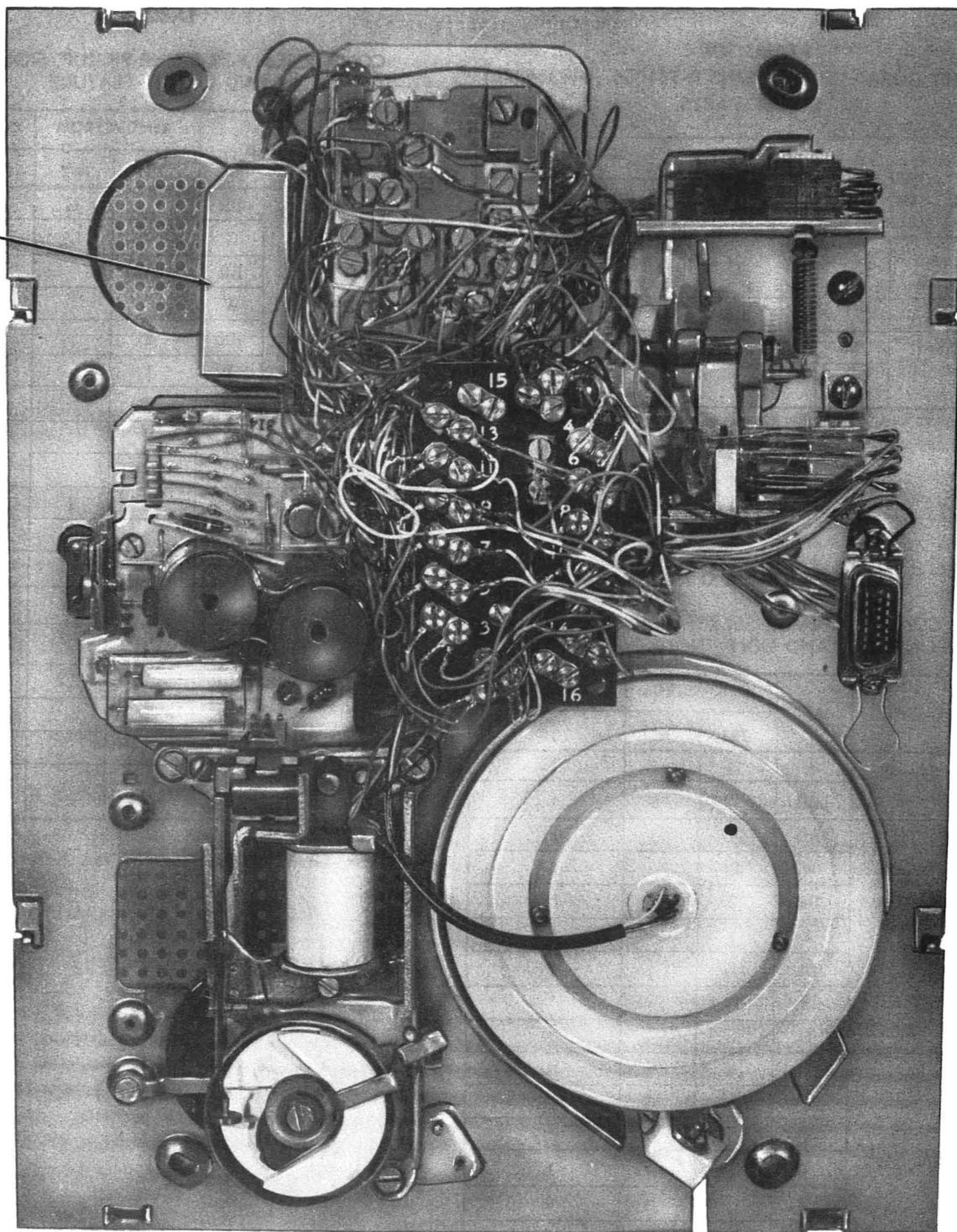


Fig. 3—Polarity Guard [D-181006 (840364376) Kit of Parts] Installed in 2751-Type Telephone Set

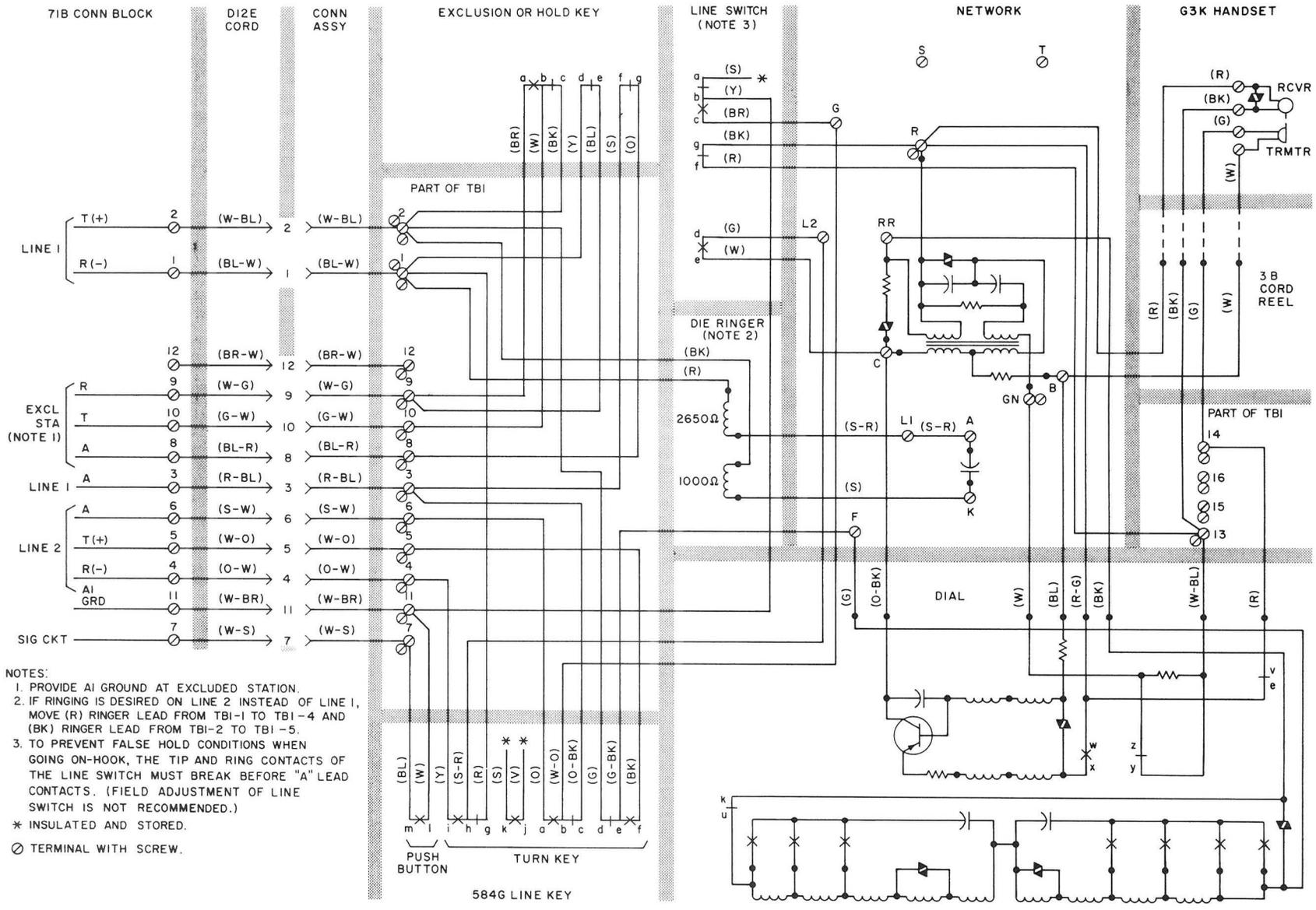


Fig. 4—2751C-58 (MD) or 2751D-60 (MD) Telephone Set Connections (Factory Wired)

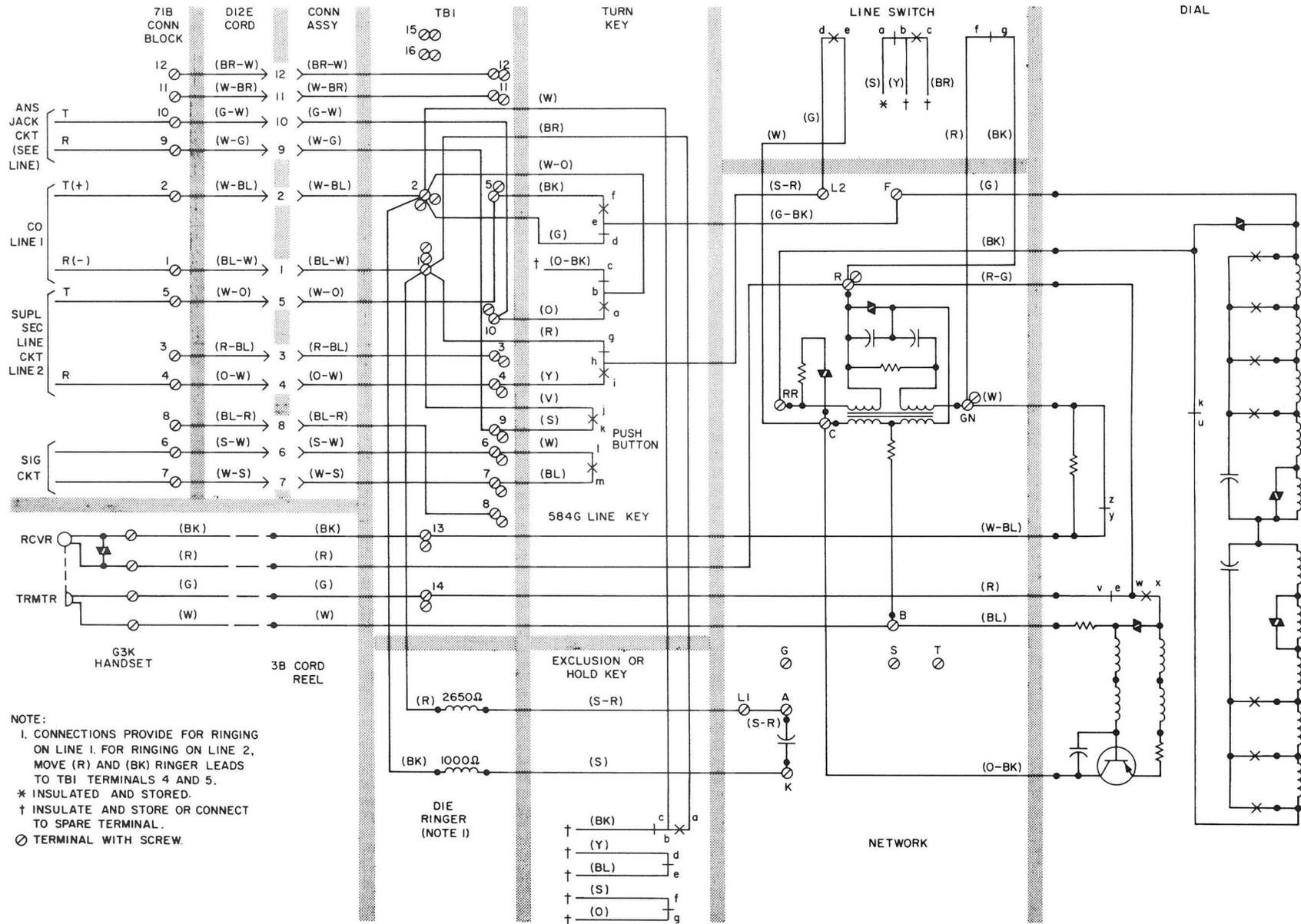


Fig. 5—2751C-58 (MD) or 2751D-60 (MD) Telephone Set Connections, Wired For Secretarial Service, Signaling, and Hold (Nonkey System)

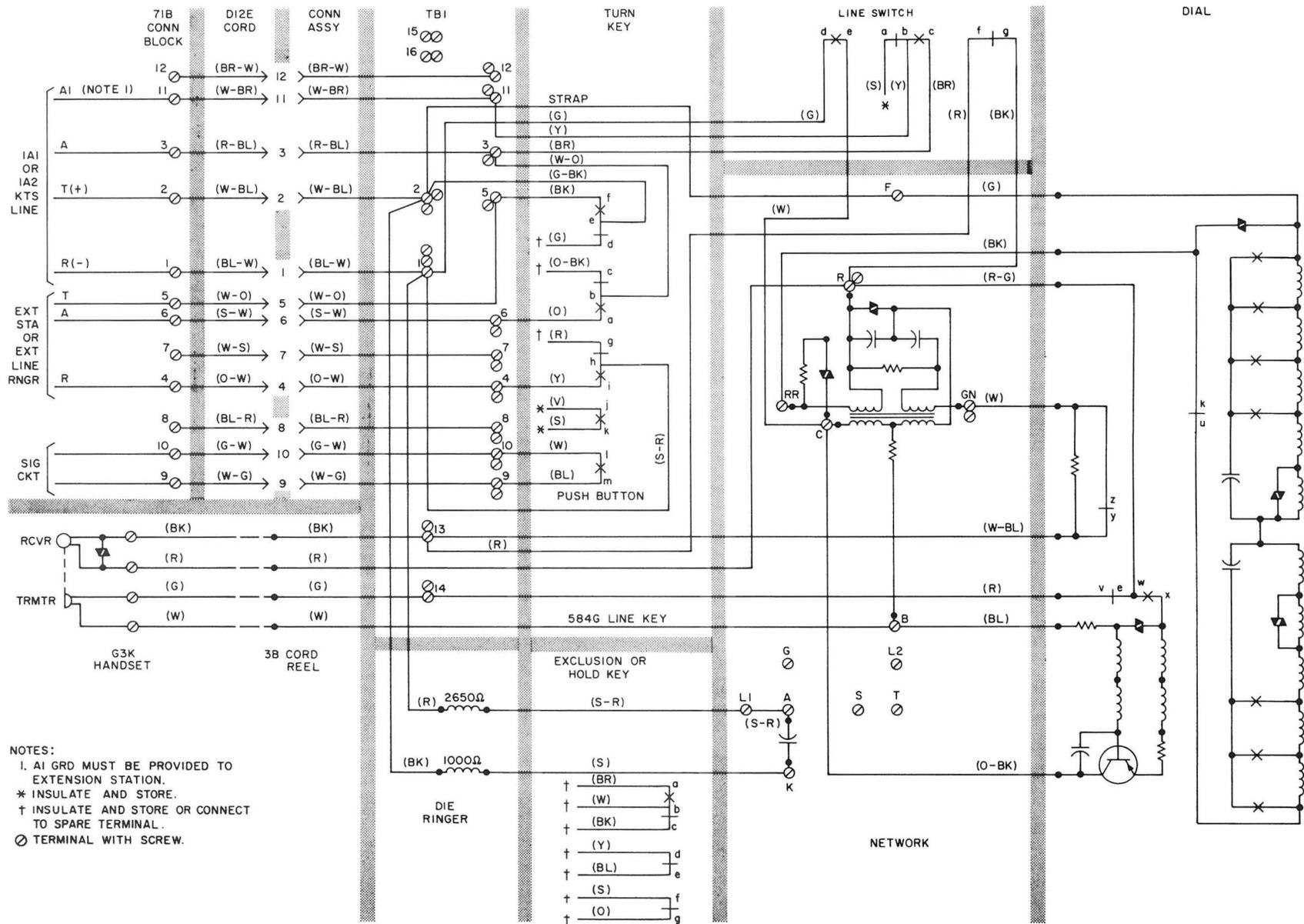


Fig. 6—2751C-58 (MD) or 2751D-60 (MD) Telephone Connections, Wired For 1-Line Pickup, Signaling, and Cutoff Feature

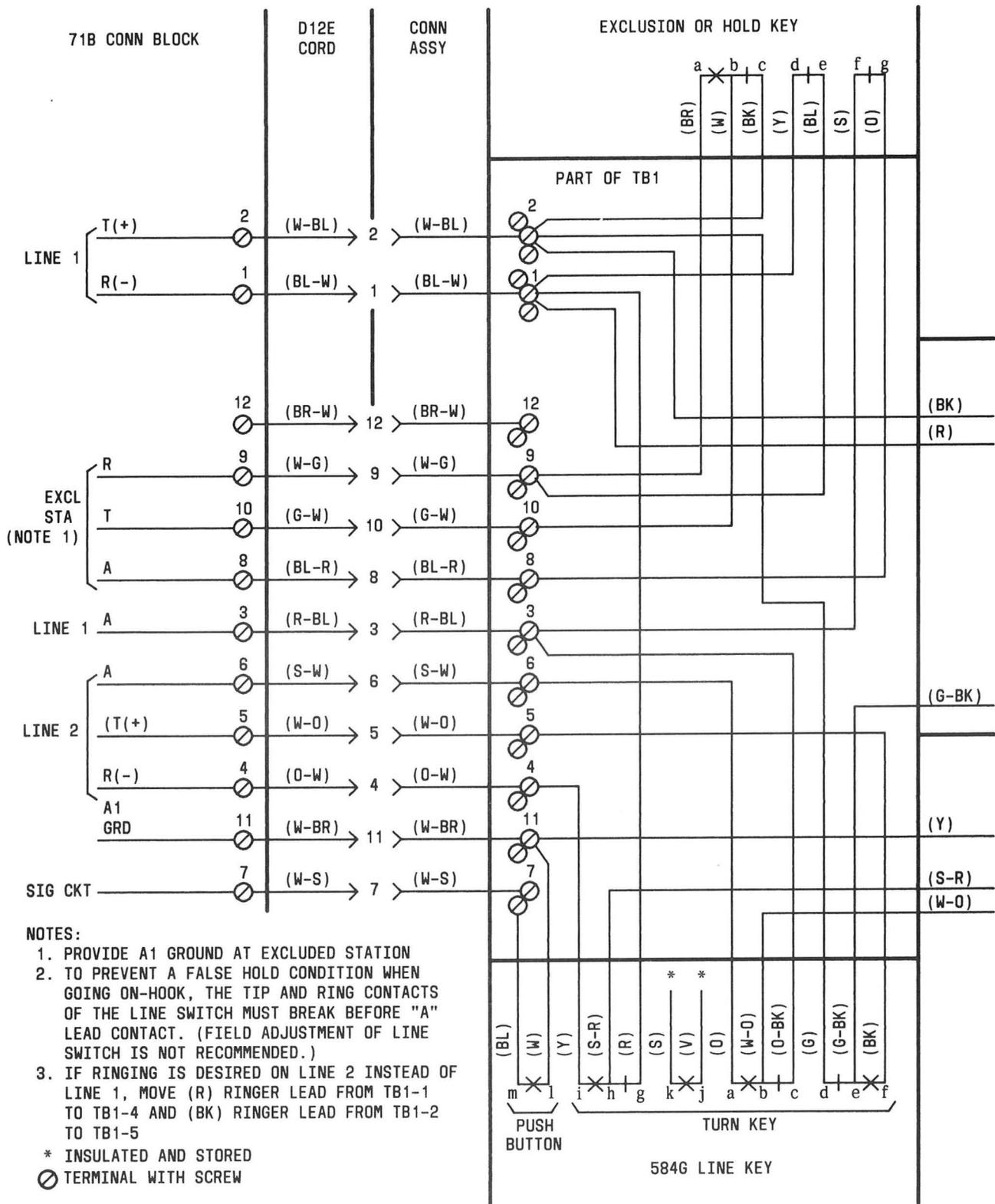


Fig. 7—2751CG-58 or 2751DG-60 Telephone Set Connections (Factory Wired) (Sheet 1 of 2)

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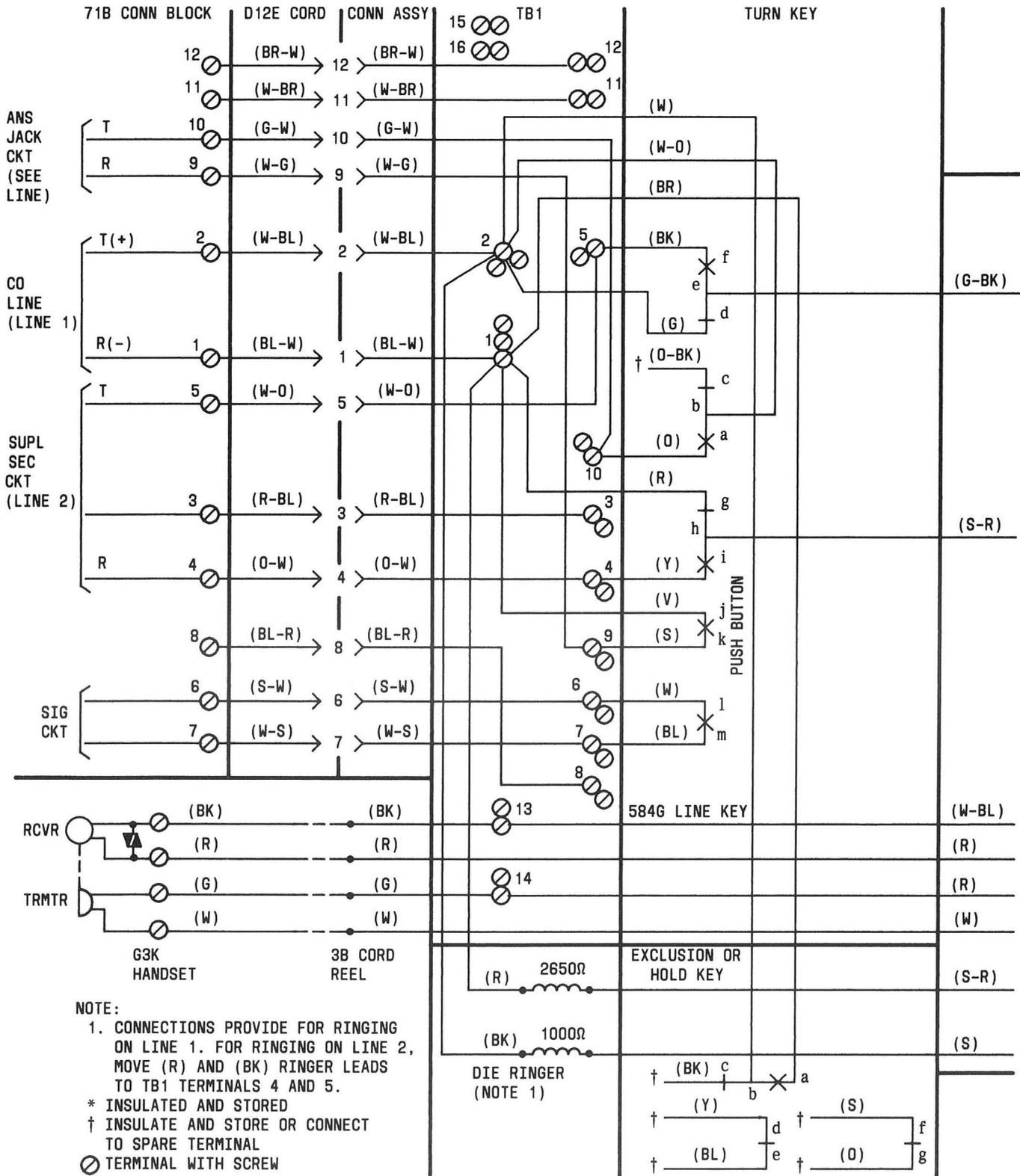


Fig. 8—2751CG-58 or 2751DG-60 Telephone Set Connections, Wired for Secretarial Service, Signaling, and Hold (Nonkey System) (Sheet 1 of 2)

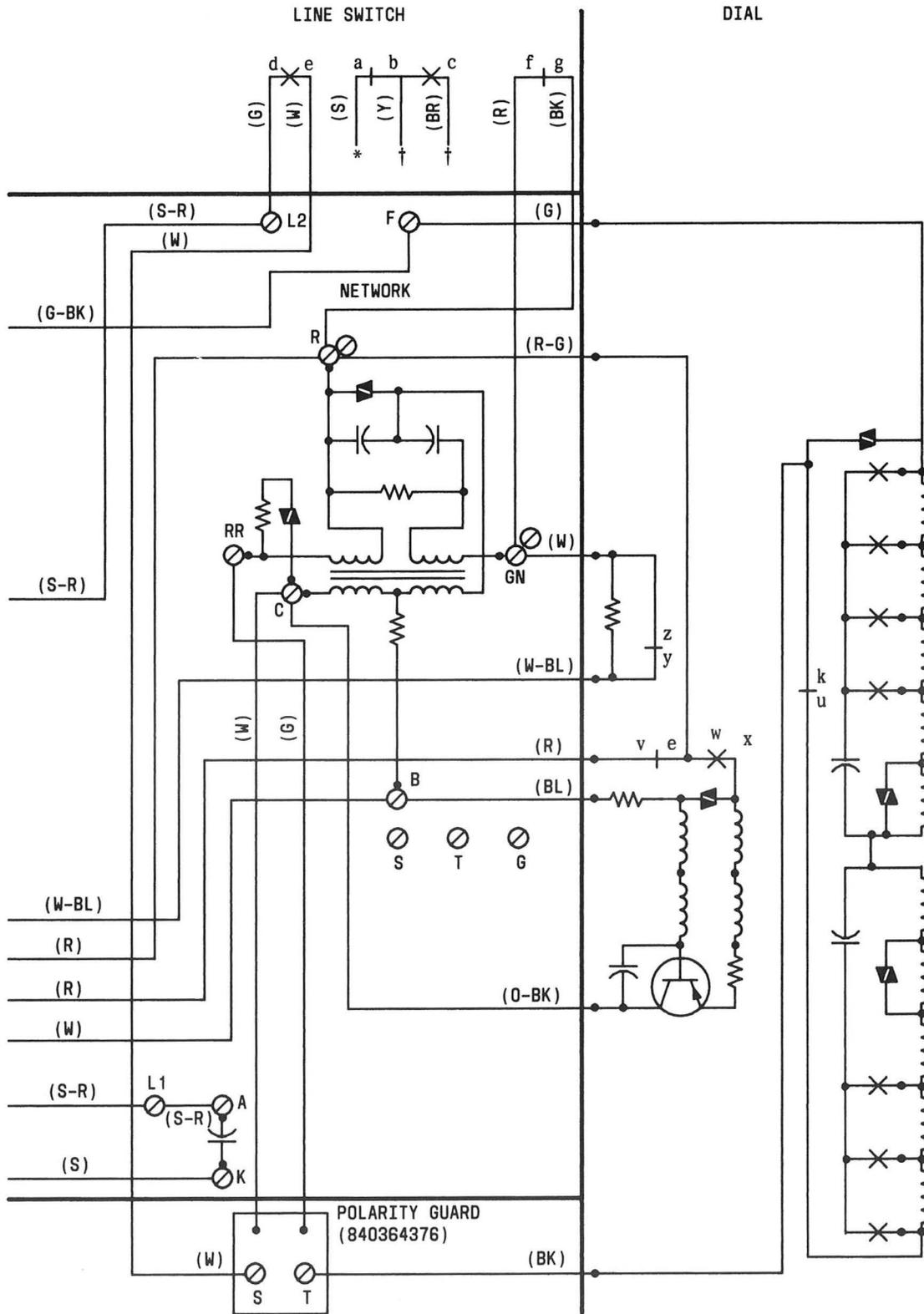


Fig. 8—2751CG-58 or 2751DG-60 Telephone Set Connections, Wired for Secretarial Service, Signaling, and Hold (Nonkey System) (Sheet 2 of 2)

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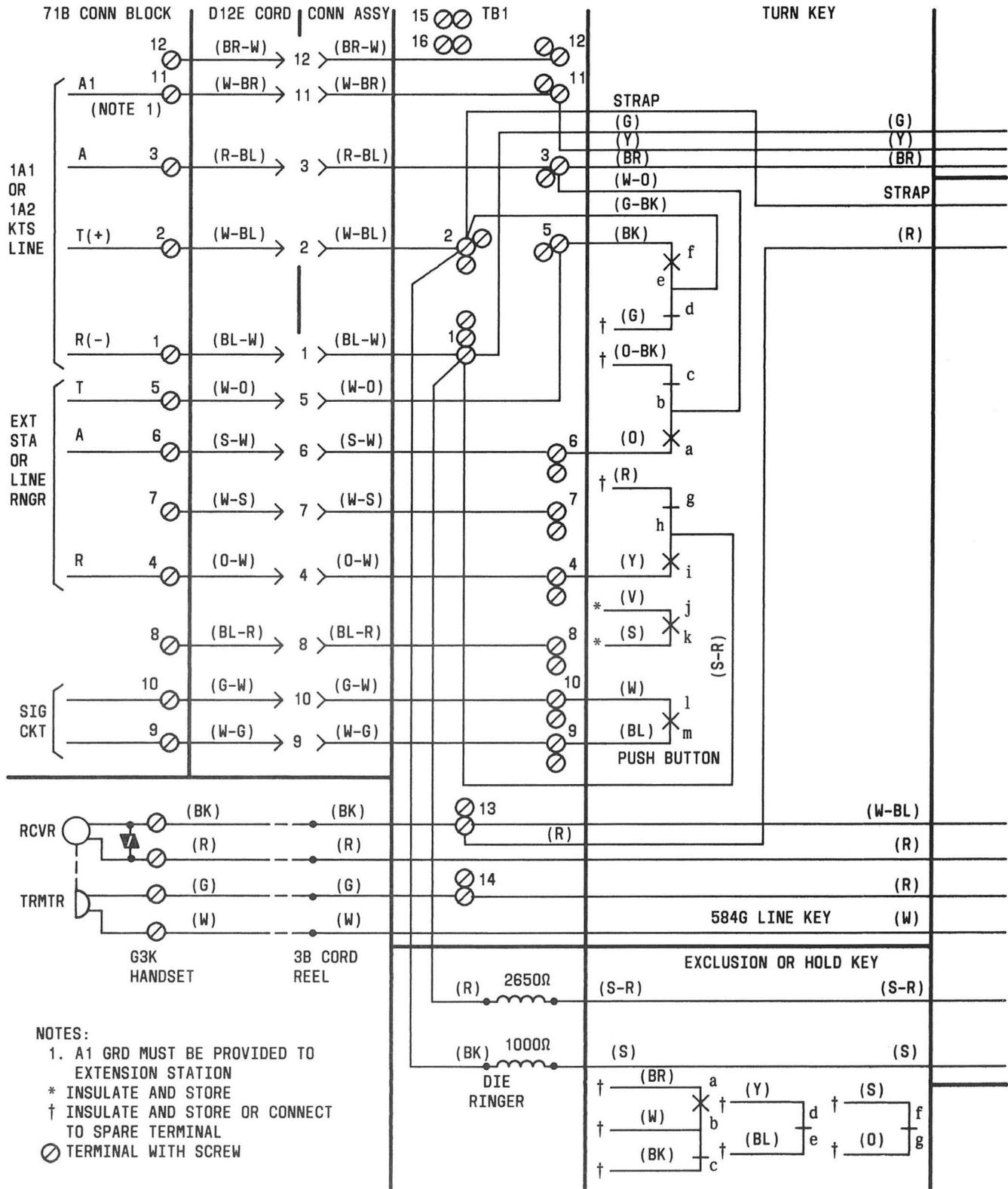


Fig. 9—2751CG-58 or 2751DG-60 Telephone Set Connections, Wired for 1-Line Pickup, Signaling, and Cutoff Feature (Sheet 1 of 2)

