

## REFERENCE

### 1753-TYPE TELEPHONE SETS

#### 1. GENERAL

**1.01** This section contains identification, installation, operation, maintenance, and connection information for the 1753-type telephone sets. This information was formally contained in Sections 502-750-103 and 502-750-423 which are hereby canceled.

#### 2. IDENTIFICATION

##### Ordering Guide

**2.01** Set, Telephone, 1753A-58 or 1753B-60

*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 Table A.*

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

- Apparatus Box, 113-type or 114A (for selection see Division 463)
- 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** These sets provide for 2-line pick-up with mechanical hold on either line (nonkey system) and are arranged for recessed wall mounting.

**2.06** Component parts (Table A) of these telephone sets are mounted on a steel panel which is secured in an apparatus box. 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 or PBX lines.

#### 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 terminal strip mounting brackets provided on upper-right side of apparatus box.
- (3) Terminate spade-tipped end of D12E mounting cord and conductors of inside wire or cable to connecting block in accordance with connection section for each particular set.
- (4) Remove plastic retainer frame and mat from telephone set.
- (5) Position telephone set mounting panel on lower edge of apparatus box with top tilted outward. Connect the mounting cord plug to the connector on set panel and dress slack cord in back of apparatus box.

**TABLE A**  
**COMPONENT ORDERING GUIDE (COLOR SIGNIFICANT)**

TELEPHONE SET	MAT	FRAME (MAT)	LINE SWITCH ASSEMBLY	HANDSET
1753A-58	P-26E926	P-84A261	P-89A461	G3K-58
1753B-60	P-26E927	P-84A260	P-89A460	G3K-60

**Note:** These sets are also equipped with the following common components:

- Dial, 25W3\* or 25A3 (MD)
- Ringer, D1E
- Cord Reel, 3A or 3B
- Mounting Cord, D12E
- P-21F203, Line Key
- P-21F204, Hold Key

\*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.



*The 3A cord reel shall be used in all locations where the telephone set is subjected to temperatures below 40 degrees F. When the telephone set is not subjected to temperatures below 40 degrees F, the 3B cord reel shall be used.*

(6) Carefully align set panel with mounting brackets on apparatus box and secure with four screws furnished.

(7) Place mat on face of panel. Align plastic retainer frame with projecting tabs of panel and snap frame into place. If necessary bend tabs to assure snug fit.

**D-180071 or D-180072 Kit of Parts. (Fig 1)**

**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.

(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 provides for securing to wall surface using appropriate fastening devices.

(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 section.

(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 brackets on base pan assembly and secure with mounting screws furnished with 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.

**3.04** The P-90D060 polarity guard (Fig. 2) is optional and must be ordered separately. It is intended for use when specified by local instructions for end-to-end signaling installations. Refer to Table B for connections.

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

#### 4. OPERATION

**4.01** If a call is received on one line and it is desired to hold a party on a line while transferring to the other line:

- (1) Pull out the hold key and then turn the line key to pick up the second line.

- (2) When the call on the second line is completed, turn the line key back to the first line position and then depress the hold key.

**Note:** Failure to depress the hold key will automatically place a hold on the unused line preventing its being used for either incoming or outgoing calls. Reversal of this procedure (ie, depressing the hold key before switching the line key back to the first line position) will disconnect the line.

- (3) If the second line is to be picked up by an extension station, the hold switch is left operated (lifted) until the extension is answered. After the extension handset is lifted, the hold switch (first set) must be depressed to connect the talking path of the extension.

- (4) The hold key is automatically returned to normal when the handset is replaced.

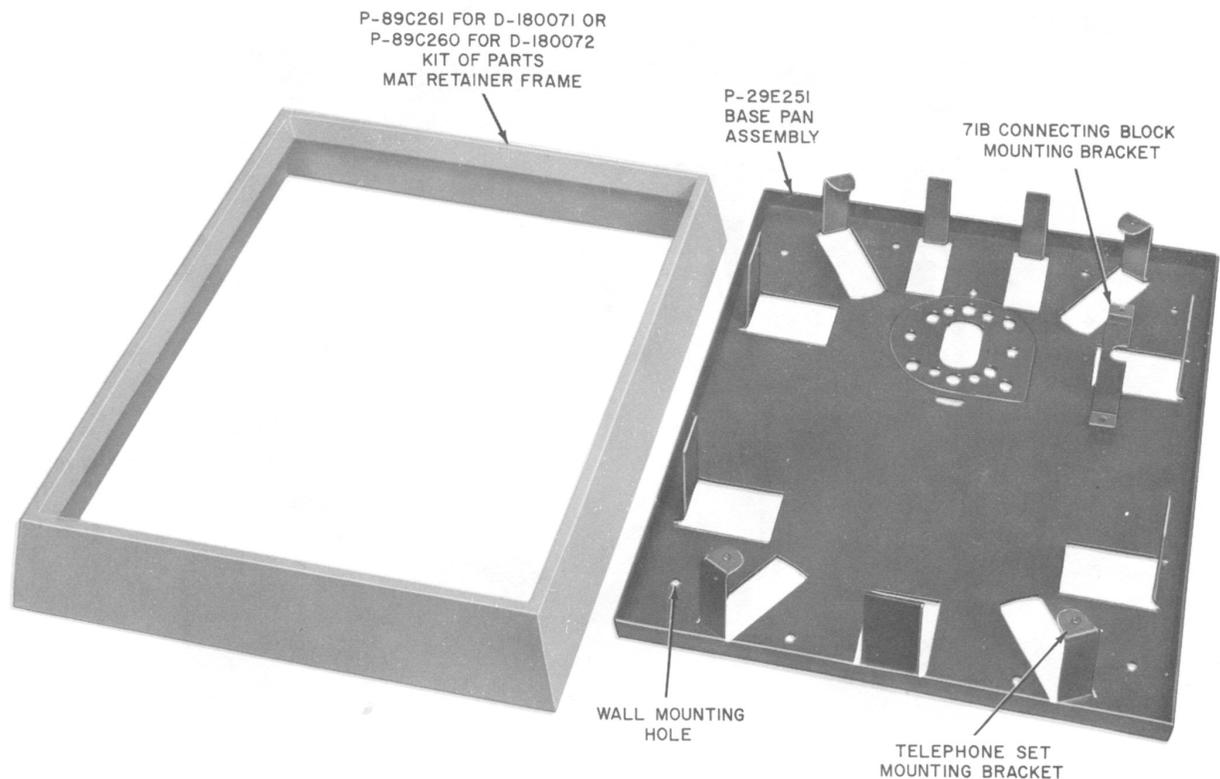


Fig. 1—D-180071 or D-180072 Kit of Parts

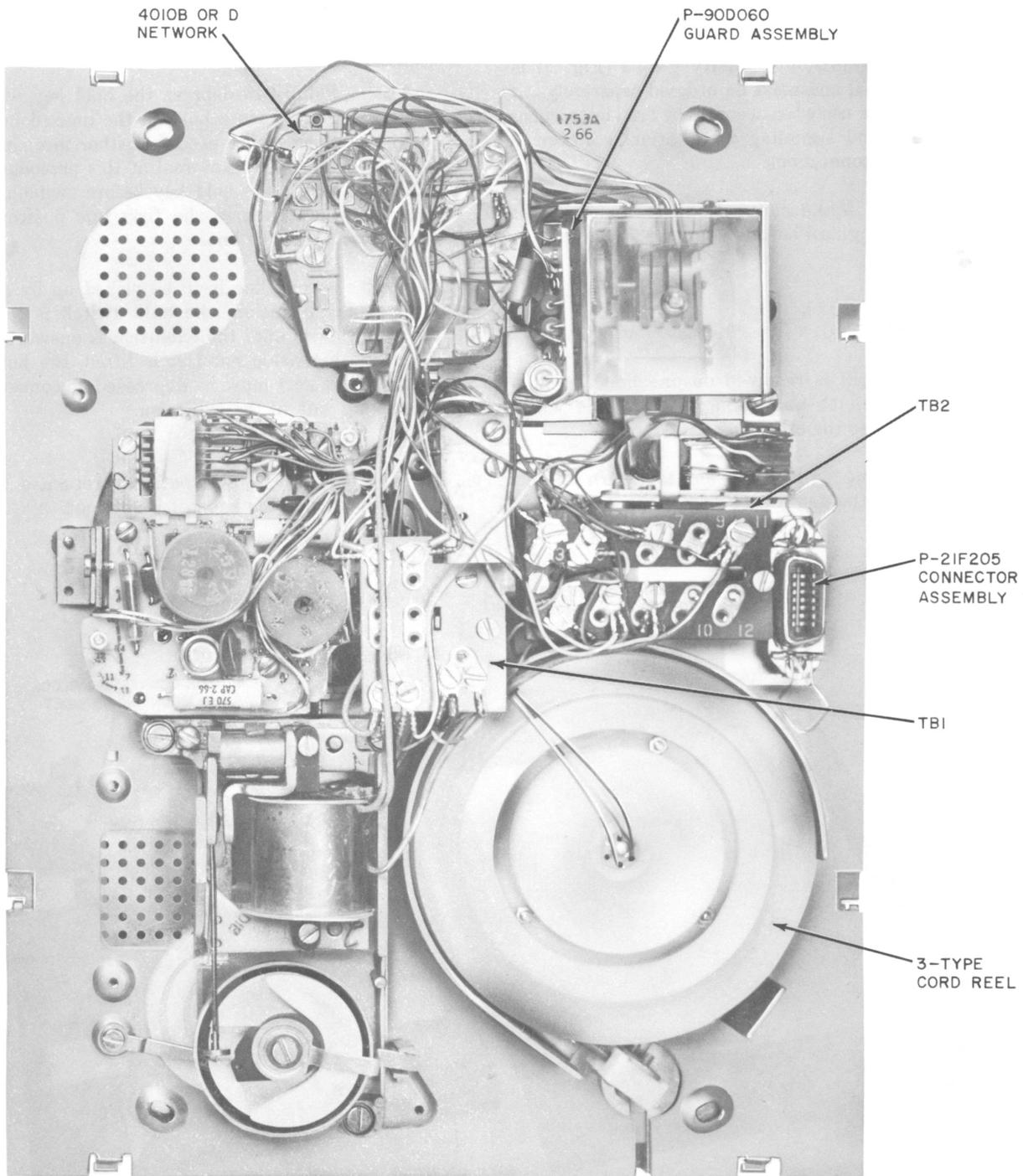


Fig. 2—1753-Type Telephone Set, Rear View

**5. MAINTENANCE**

**5.01** Work done on customer's premises should be limited to replacement of accessible parts which are available through supply channels. Refer to ordering guide table.

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

**5.03** 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.3.

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

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

**5.04** 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.

**5.05** 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.

**TABLE B**

**POLARITY GUARD CONNECTIONS**

LEAD		FROM	TO
Dial	BK	RR	T*
Line Switch	BR	C	S*
Polarity Guard	G		RR
	W		C

\* Terminal on polarity guard.

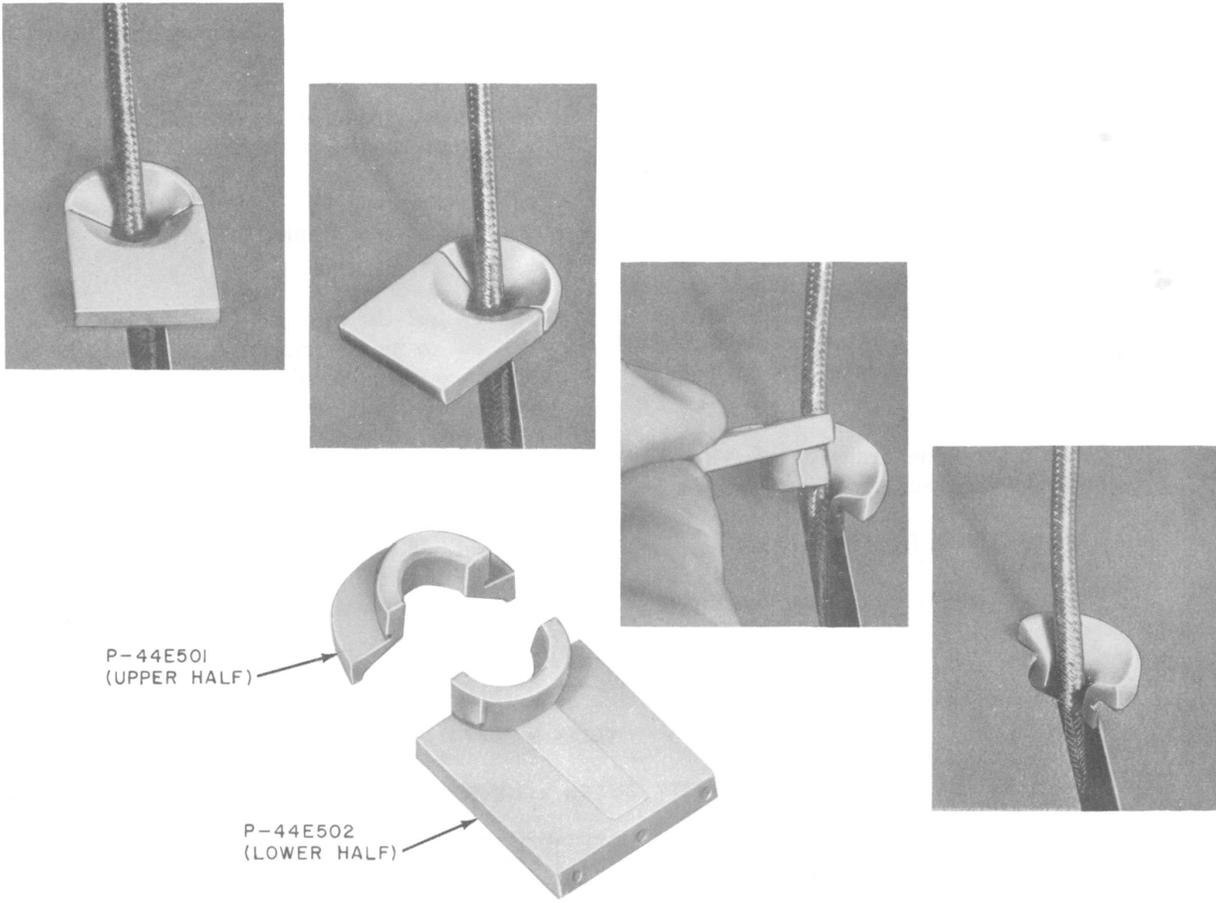
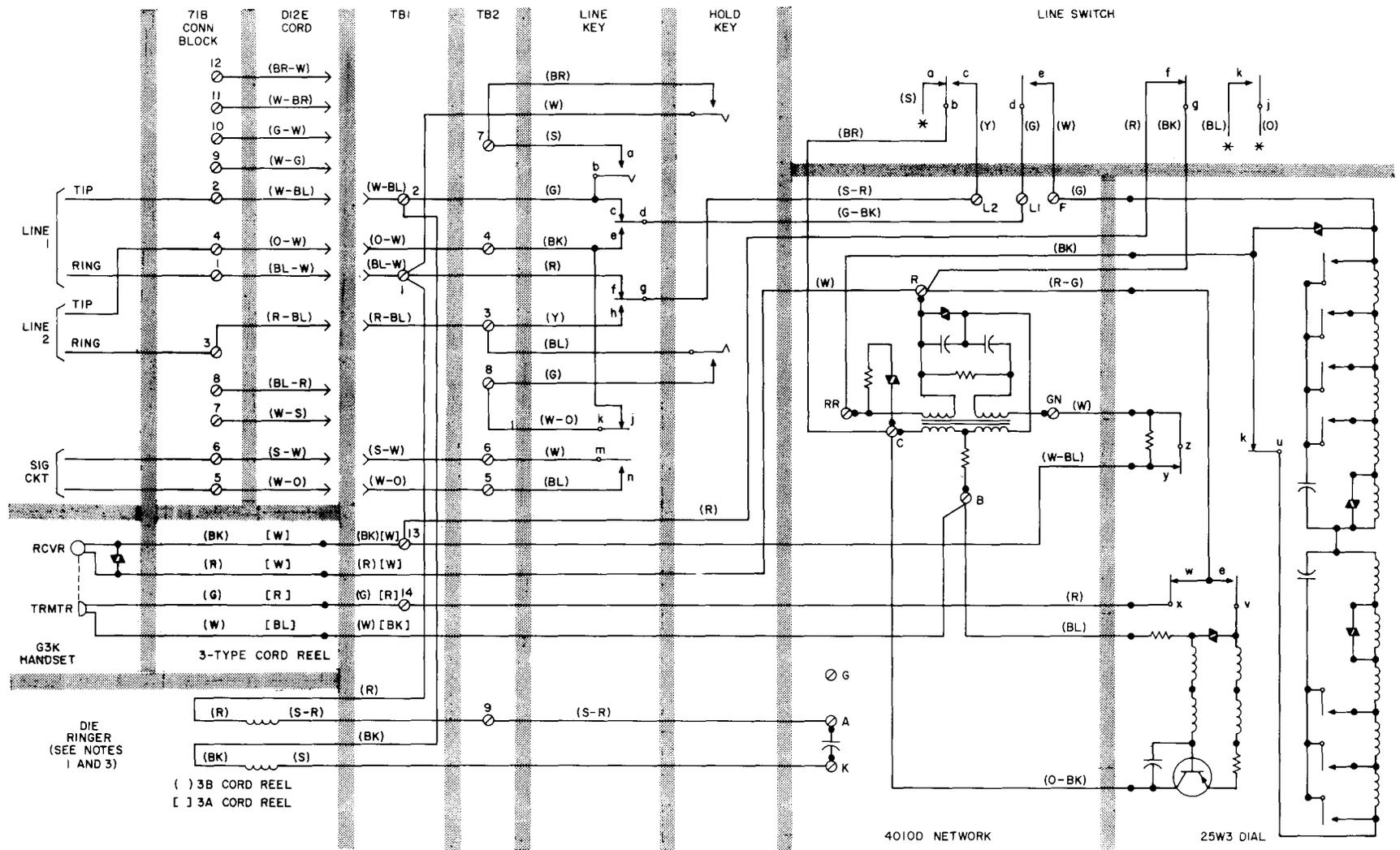


Fig. 3—Removal of Handset Cord Grommet

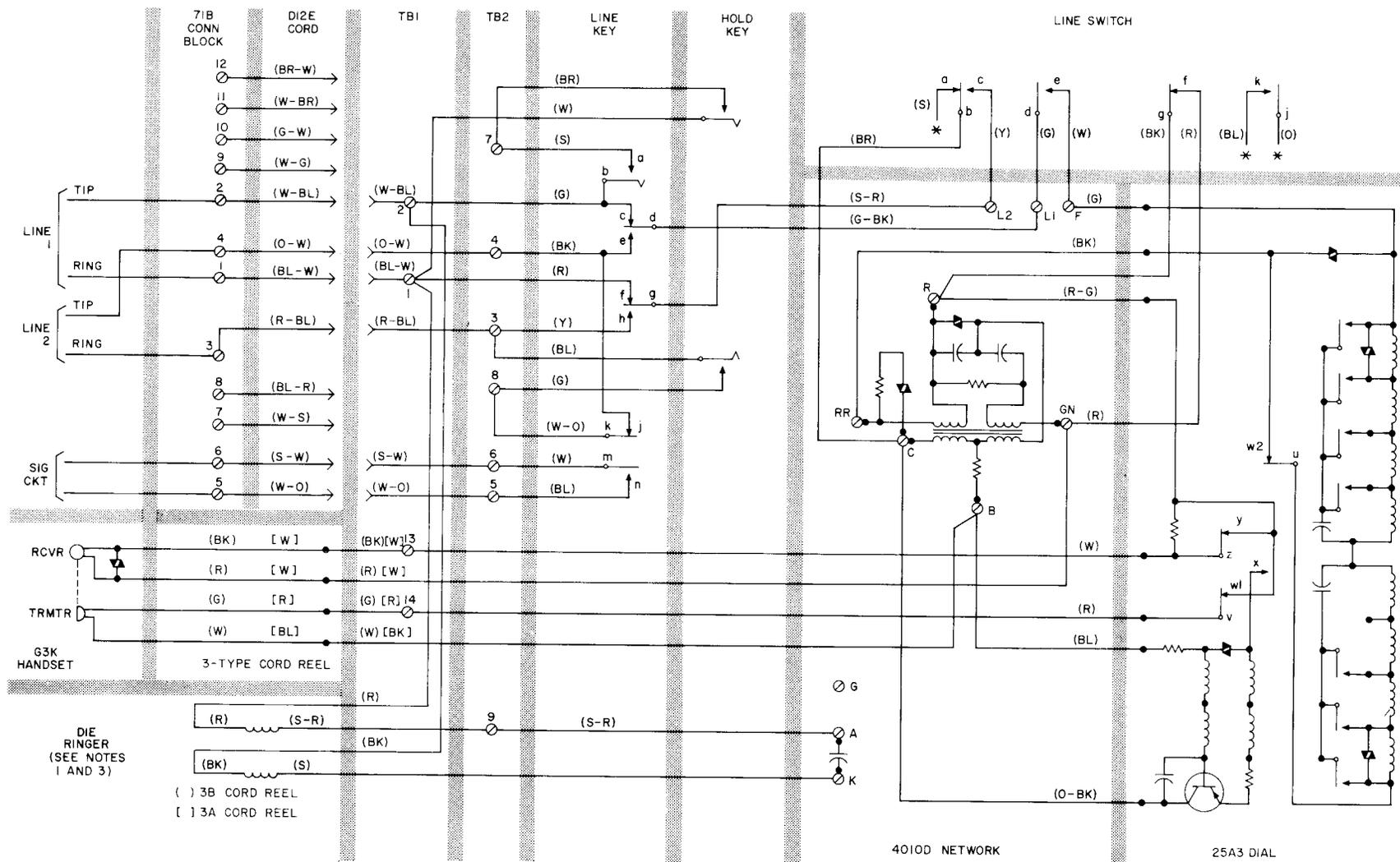


NOTES:

1. CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, MOVE (R) AND (BK) RINGER LEADS TO TERMINALS 3 AND 4.
2. (BL) AND (O) LINE SWITCH LEADS AND ASSOCIATED CONTACTS WILL BE DELETED IN LATER PRODUCTION MODELS.
3. TO PERMANENTLY SILENCE RINGER: REMOVE (BK) RINGER LEAD FROM TERMINAL I AND CONNECT TO TERMINAL K.
4. LINE SWITCH OFF-HOOK SEQUENCE.
  - (1) bc CLOSES (4) ab OPENS
  - (2) de CLOSES (5) fg OPENS
  - (3) jk CLOSES

\* INSULATED AND STORED

Fig. 4—1753-Type Telephone Set Connections, With 25W3 Dial



NOTES:

1. CONNECTIONS PROVIDE FOR RINGING ON LINE 1. FOR RINGING ON LINE 2, MOVE (R) AND (BK) RINGER LEADS TO TERMINALS 3 AND 4.
  2. (BL) AND (O) LINE SWITCH LEADS AND ASSOCIATED CONTACTS WILL BE DELETED IN LATER PRODUCTION MODELS.
  3. TO PERMANENTLY SILENCE RINGER: REMOVE (BK) RINGER LEAD FROM TERMINAL 1 AND CONNECT TO TERMINAL K.
  4. LINE SWITCH OFF-HOOK SEQUENCE.
    - (1) bc CLOSES (4) ab OPENS
    - (2) de CLOSES (5) fg OPENS
    - (3) jk CLOSES
- \* INSULATED AND STORED.

Fig. 5—1753-Type Telephone Set Connections, With 25A3 (MD) Dial