

## TELEPHONE SETS

### 750, 751, 1750, 1751, 2750, AND 2751 TYPES

### IDENTIFICATION, INSTALLATION, AND MAINTENANCE

#### 1. GENERAL

1.01 This section is reissued to add information on:

- 114A apparatus box
- 2750- and 2751-type telephone sets
- 3B cord reel
- 25W3 dial (replaces 25A3 (MD) dial)
- P-90D060 guard assembly
- D-180071, D-180072, and D-180115 Kit of Parts
- 751A and B (MD) telephone sets

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

#### 2. IDENTIFICATION

2.01 The 750-, 1750-, and 2750-type single line general purpose sets and 751-, 1751-, and 2751-type two line sets may be recess mounted or adapted for surface mounting using D-180071 or D-180072 Kit of Parts (Fig. 1, 2, and 3).

2.02 Component parts (Tables A, B and Fig. 4) 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.

#### ORDERING GUIDE

Set, Telephone, 750A-58, 750B-60, 751A-58 (MD), 751B-60 (MD), 751C-58, 751D-60

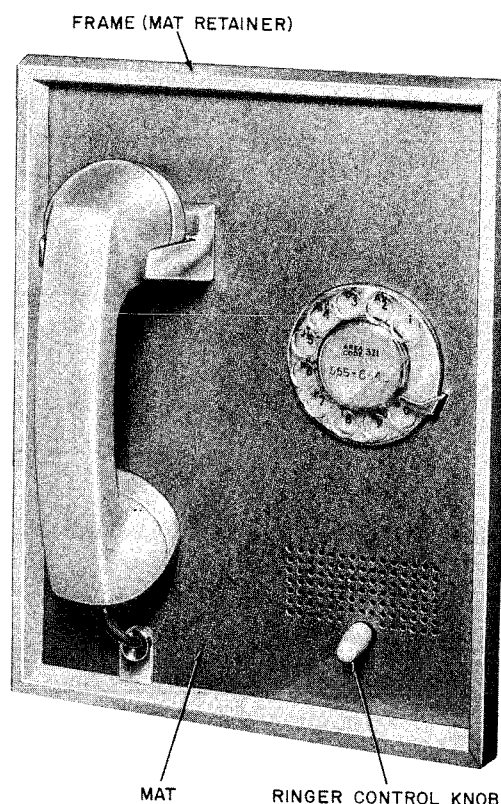


Fig. 1—750-Type Telephone Set

Set, Telephone, 1750A-58, 1750B-60, 1751C-58, 1751D-60

Set, Telephone, 2750A-58, 2750B-60, 2751C-58, 2751D-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.

(a) **Replaceable Components:** Refer to Tables A and B.

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

TELEPHONE SET	MAT	FRAME (MAT)	LINE SWITCH ASSEMBLY	HANDSET
750A-58	P-26E934	P-84A261* P-89C261†	P-85A161	G3K-58
1750A-58	P-26E932			
2750A-58	P-21F788			
750B-60	P-26E935	P-84A260* P-89C260†	P-85A160	G3K-60
1750B-60	P-26E933			
2750B-60	P-21F789			
751A-58 751C-58	P-26E928	P-84A261* P-89C261†	P-89A461	G3K-58
1751C-58	P-26E926			
2751C-58	P-21F790			
751B-60 751D-60	P-26E929	P-84A260* P-89C260†	P-89A460	G3K-60
1751D-60	P-26E927			
2751D-60	P-21F791			

\* Furnished with telephone set.

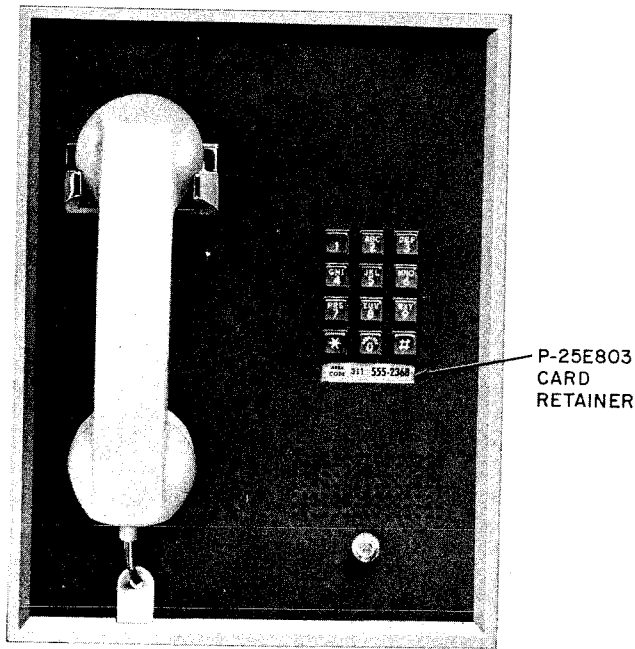
† Furnished with kit of parts used for surface mounting.

**TABLE B**  
**COMPONENT ORDERING GUIDE**

TYPE TELEPHONE SET	DIAL	RINGER	CORD REEL	MOUNTING CORD	EXCLUSION SWITCH	LINE PICKUP KEY	GROMMET (HANDSET CORD)
750	8A	D1B or D1E	3A or 3B	D4BN-3			P-44E501† (Upper Half) P-44E502† (Lower Half)
1750	25W3* 25A3 (MD)	D1E					
2750	35A3A						
751A and B	8A						
751C and D							
1751	25W3* 25A3 (MD)						
2751	35A3A						

\* 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 750-, 751-, 1750-, and 1751-type sets.



**Fig. 2—2750-Type Telephone Set**

**(b) Replaceable Optional Components:**

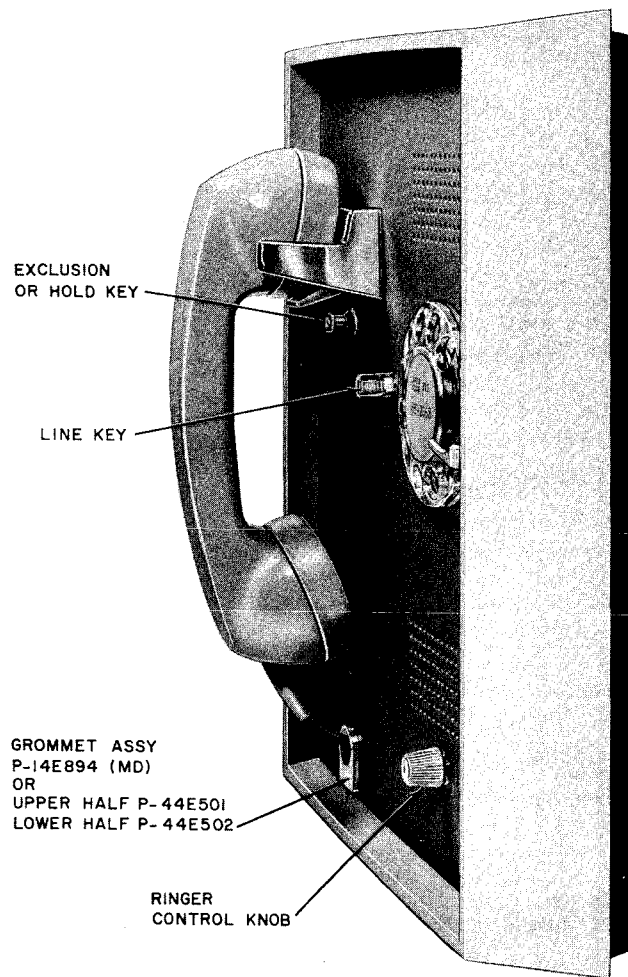
- Loudspeaker, 761A (1A home interphone)
- Transmitter, 664B (1A home interphone)
- P-90D060 Guard Assembly

**(c) 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

**(d) Associated Optional Apparatus or Equipment (1A home interphone):**

- Unit, Control, 51A
- Receiver, 730A
- Transformer, 2012A or KS-16184



**Fig. 3—751-Type Telephone Set Installed in D-180071 or D-180072 Kit of Parts**

**(e) Loose Parts Furnished With Set:**

- Cord, Mounting, D4BN-3 equipped with 423A plug (750-, 1750-, and 2750-type sets)
- Cord, Mounting, D12E (751-, 1751-, 2751-type sets)
- Instruction Booklet, GN-2408
- P-160828 Mounting Screws (4)
- P-25E803 Retainer, Card

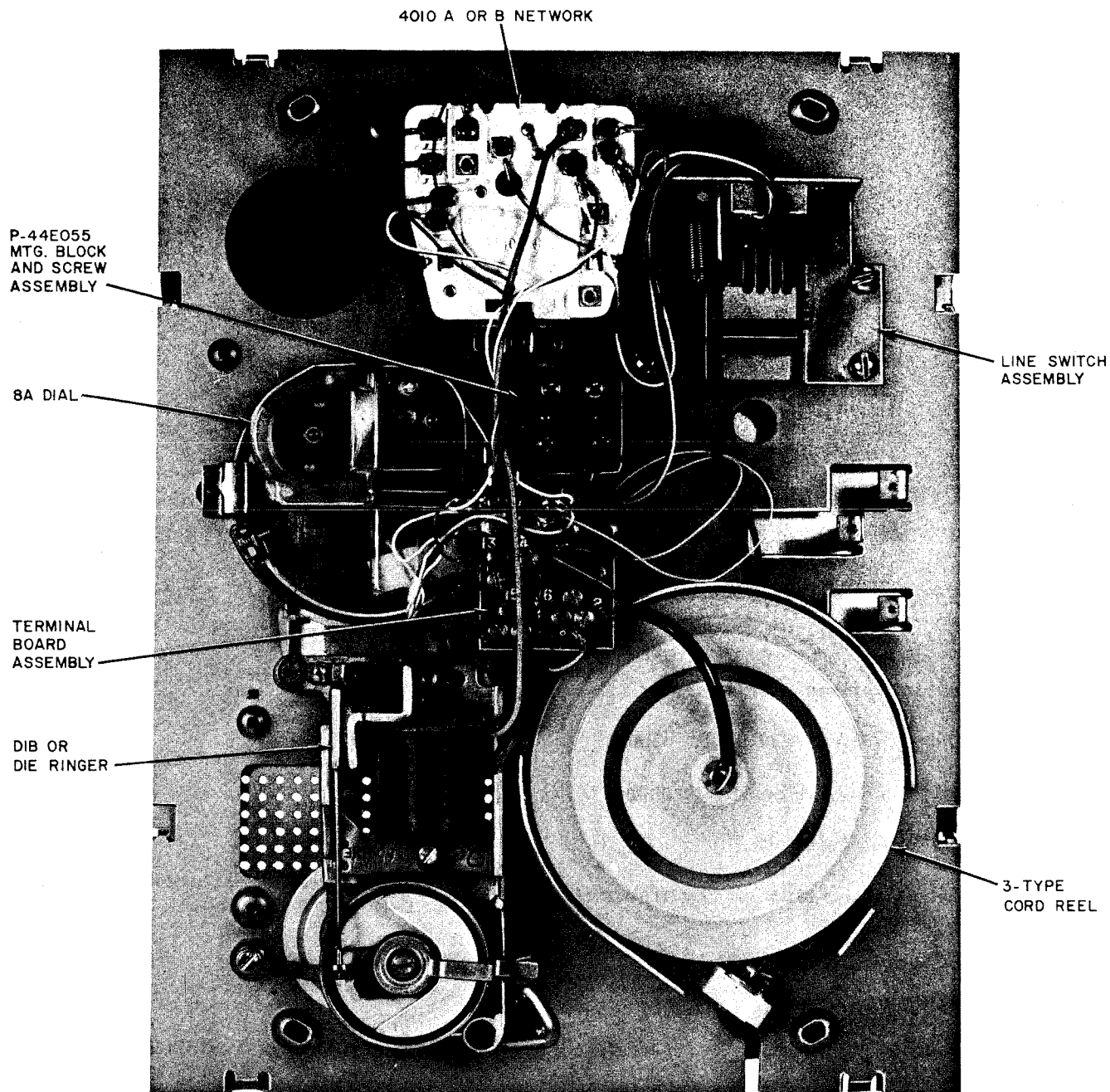


Fig. 4—750-Type Telephone Set, Rear View

#### DESIGN FEATURES

- Single line general purpose (750-, 1750-, and 2750-type sets)
- 2-line pickup, signaling, and exclusion on one line (751-, 1751-, and 2751-type sets)

- 1A home interphone and hold on one line—optional (751-, 1751-, and 2751-type sets)

#### APPLICATION

- CO or PBX lines, 750-, 751A-, 751B-, 1750-, and 2750-type sets

- CO or PBX lines, and 1A1 or 1A2 KTS, 751C-, 751D-, 1751-, and 2751-type sets

### 3. INSTALLATION

#### (a) *Planning:*

- Safety for yourself, customer, and maintenance personnel
- Convenience to the customer
- Space requirements
- Distance between associated equipment or apparatus
- General appearance of installation

#### (b) *Apparatus Boxes 113-Type or 114A:* Refer to appropriate installation section in Division 463.

#### (c) *Installation Using 113-Type or 114A Apparatus Boxes (Fig. 5):*

- (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.)
- (3) Secure mounting cord stayhook and terminate inside wire or cable and mounting cord in accordance with appropriate connection section.
- (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) *Installation Using D-180071 or D-180072 Kit of Parts (Fig. 6):*

- (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 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 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 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.

#### (e) *Installation of Optional 1A Home Interphone Components (751-, 1751-, and 2751-type sets):* Refer to appropriate connection and maintenance section in Division 512.

#### (f) *Installation of P-90D060 Guard Assembly:*

The P-90D060 polarity guard-surge protector assembly may be installed in sets equipped with either a 10- or 12-button TOUCH-TONE® dial (Fig. 7). Refer to appropriate connection section for connection information.

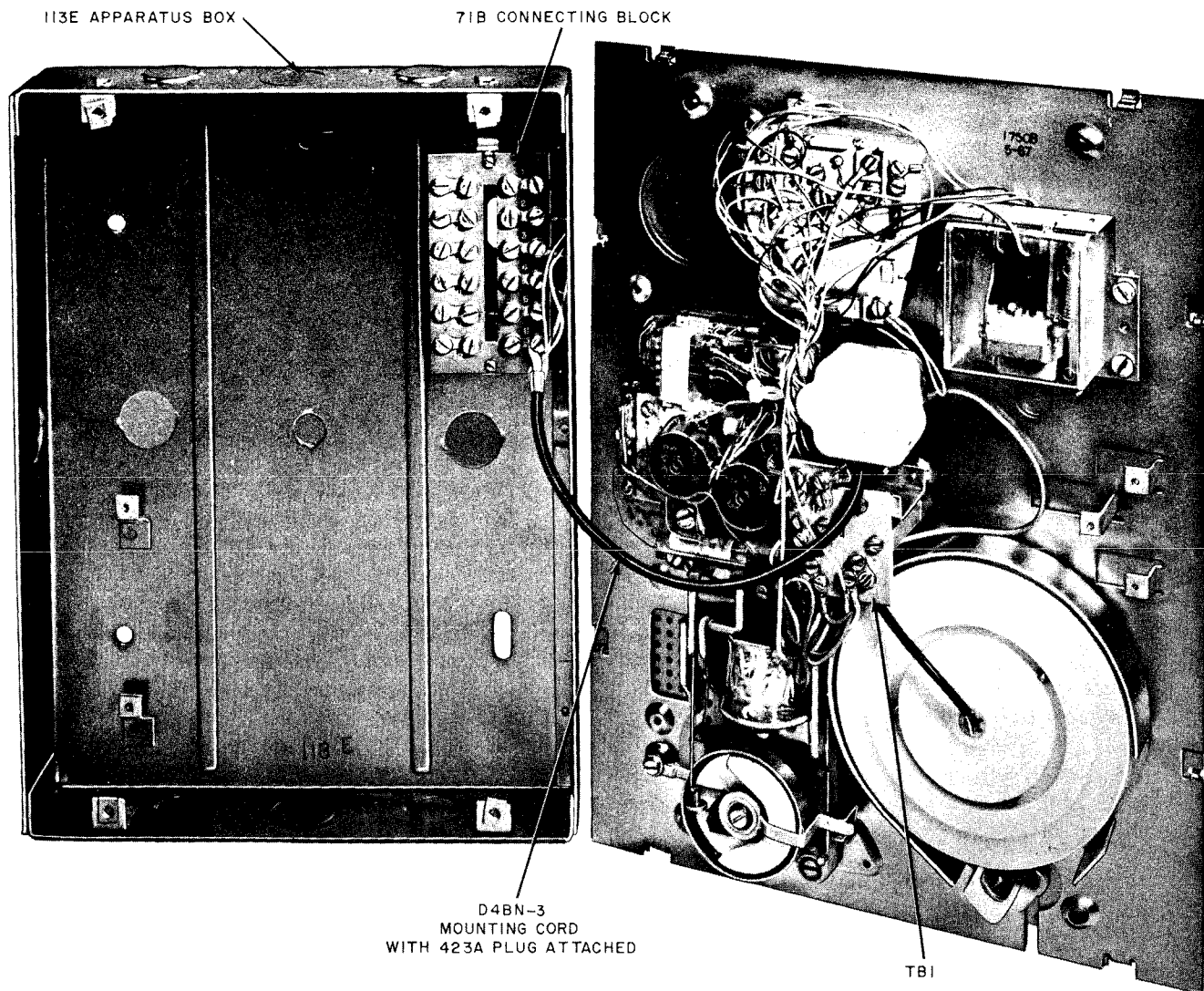


Fig. 5—1750-Type Telephone Set With 113E Apparatus Box

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

(g) **Installation of Cold-Cathode Tubes:**

- A 425A or 426A cold-cathode electron tube may be required to provide selective or semiselective ringing service when a 750- or 751-type telephone set is installed for 4- or 8-party service. The tubes are not furnished with the set and must be ordered and installed separately.
- To install in an apparatus box, obtain a 1/4-inch Tinnerman clamp and a No. 10 X 3/4-inch long self-tapping screw. Secure the clamp to the tube base using the mounting screw furnished with the tube. Insert the self-tapping screw through the cable clamp loop and fasten tube to the apparatus box using an existing nailing hole or a hole drilled at required location (Fig. 8).
- To install on the base pan assembly, secure the tube to an existing nailing hole using the mounting screw furnished with the tube (Fig. 9).

- Use M1W cords or equivalent and D-161488 connectors to extend tube leads sufficiently to reach terminal block. Make connections as shown in appropriate connection section.

**Note:** Select a location for the tube which will not interfere with telephone set components when the panel set is installed. For 750- or 751-type sets not equipped with 1A home interphone components, tube can be located on upper-right side of apparatus box near connecting block. For 751-type sets with home interphone components mounted, locate the tube on the lower wall of the apparatus box so that it will be between the ringer and cord reel when the telephone set is installed.

#### 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 750-, 751-, 1750-, and 1751-type sets were equipped with a three piece metal grommet assembly (Fig. 10). It is recommended that the metal grommet assembly be replaced when any maintenance is performed on these sets. (See Table B, Fig. 10 and 11.)

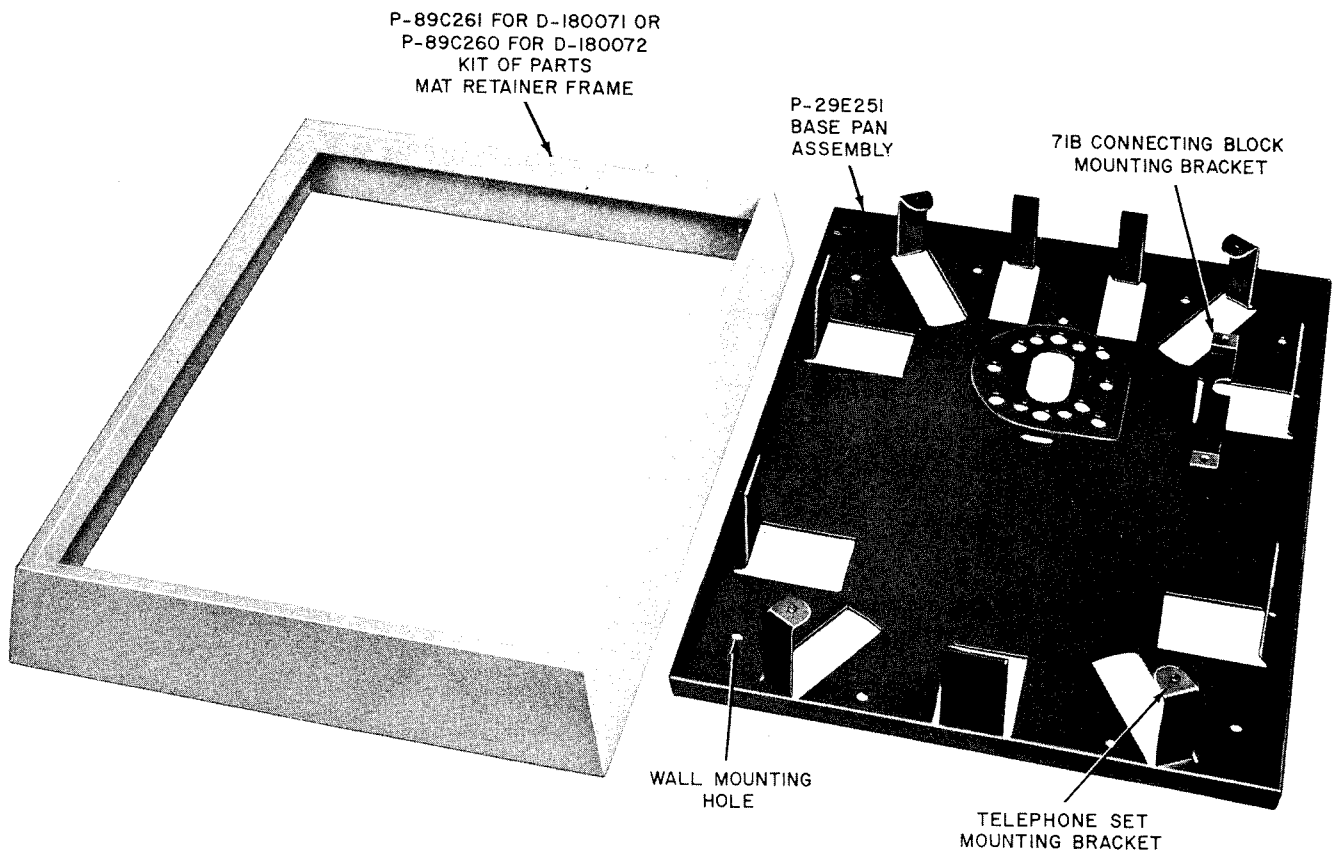


Fig. 6—D-180071 or D-180072 Kit of Parts For Surface Mounting

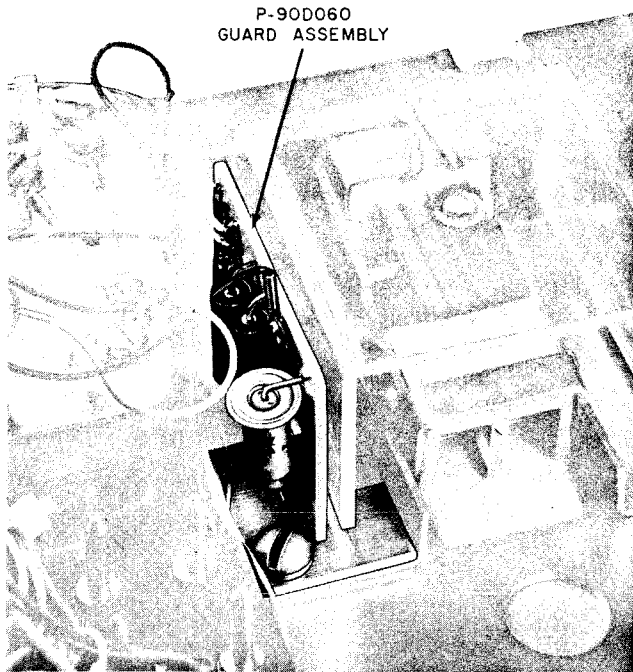


Fig. 7—Installed P-90D060 Guard Assembly

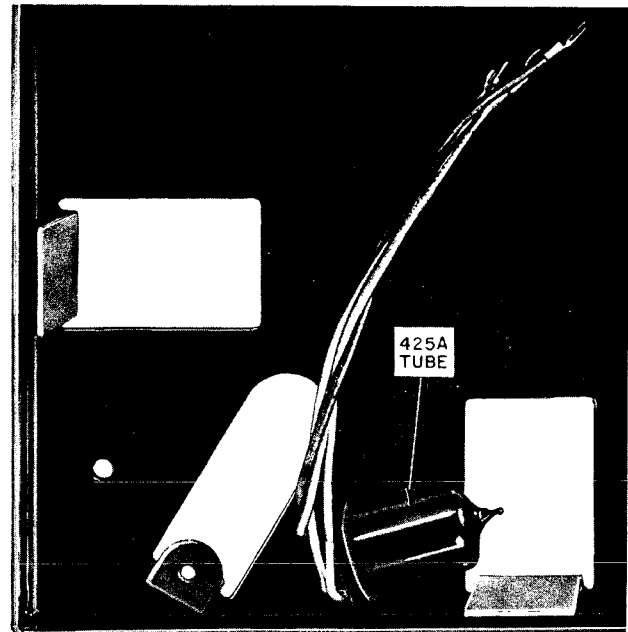


Fig. 9—Installation of Cold-Cathode Tube on Base Pan Assembly

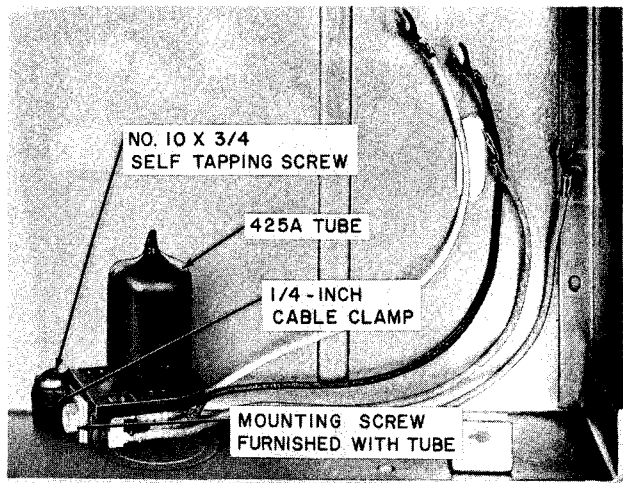


Fig. 8—Installation of Cold-Cathode Tube in Apparatus Box

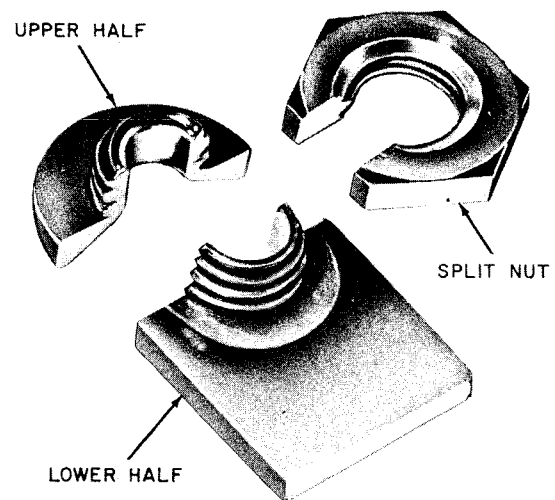


Fig. 10—P-14E894 (MD) Grommet Assembly

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

**MAT**

**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:

- Grasp mat retainer frame at top, lift upward and out to release frame from panel of set.
- Remove handset from hook of set.
- Pull out handset cord to allow working slack.
- Remove mat from face of panel.
- Remove grommet from mat as shown in Fig. 11.
- Install grommet in new mat by reversing procedure used in removal.
- Position mat on panel and secure using the mat retainer frame.

### 3-TYPE CORD REEL

**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.

### RINGER VOLUME CONTROL

**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.

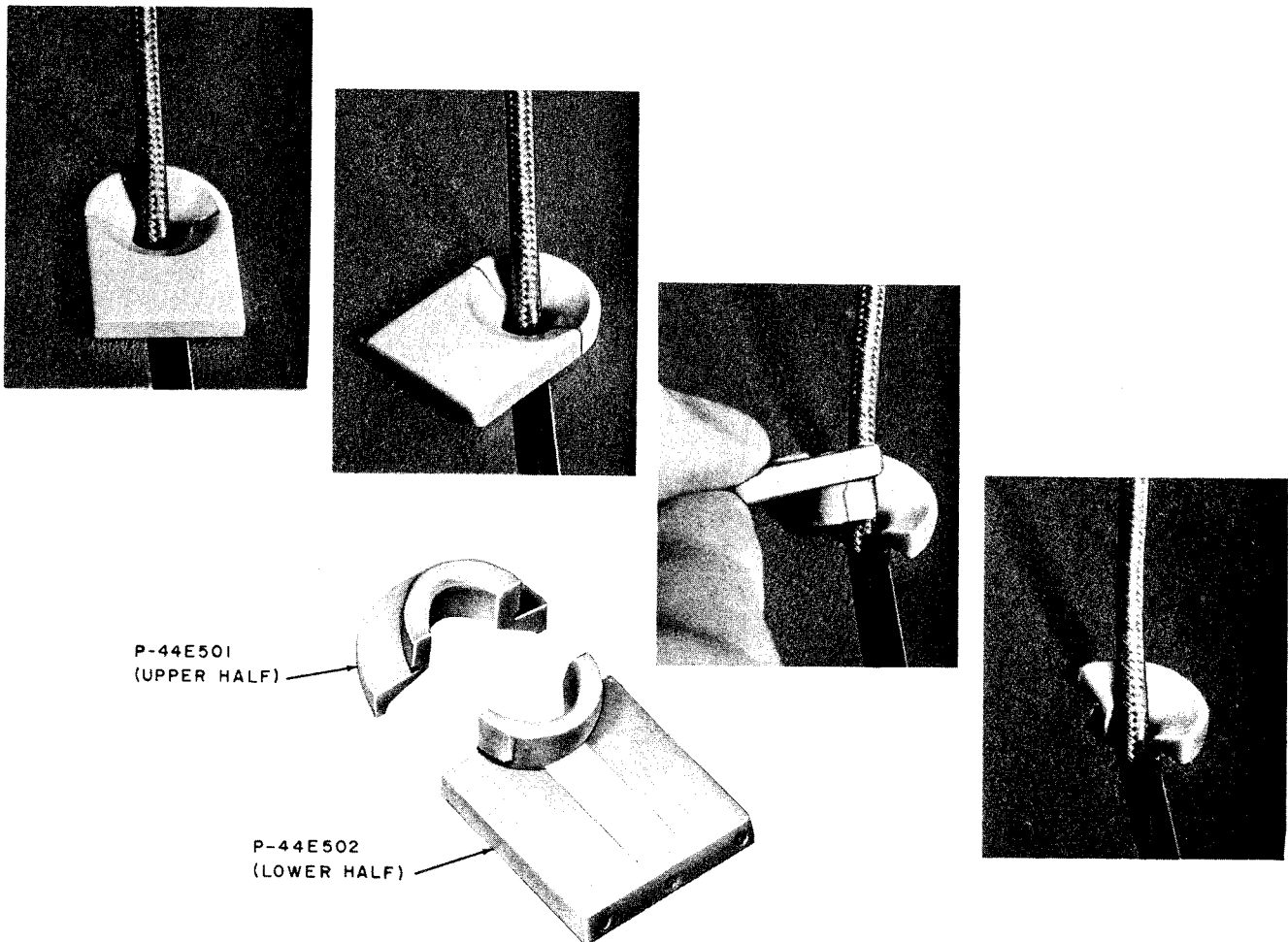


Fig. 11—Removal of Handset Cord Grommet