

REFERENCE

1750-TYPE TELEPHONE SETS

1. GENERAL

1.01 This section provides identification, installation, maintenance, and connection information for the 1750-type telephone set previously contained in Sections 502-750-100 and 502-750-420 which are hereby canceled.

2. IDENTIFICATION

Ordering Guide

2.01 Set, Telephone, 1750A-58 or 1750B-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 (recessed mounting)

● D-180071 or D-180072 Kit of Parts (surface mounting)

● Connecting Block, 71B

2.04 *Loose Parts Furnished With Set:*

● P-90D232 Cord and Plug Assembly or Cord Mounting, D4BN-3 equipped with 423A plug

● Instruction Booklet, GN-2408

● P-160828 Mounting Screws (4)

● P-25E803 Card Retainer

Design Features

2.05 The 1750-type telephone set may be recess mounted or adapted for surface mounting using D-180071 or D-180072 Kit of Parts (Fig. 1).

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 wired for bridged, two-party flat rate, two-party message rate or four-party full selective on CO or PBX lines.

2.08 Can be modified for use with 1A1 or 1A2 KTS. Refer to Table B.

2.09 The polarity guard 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 C for connections.

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.)

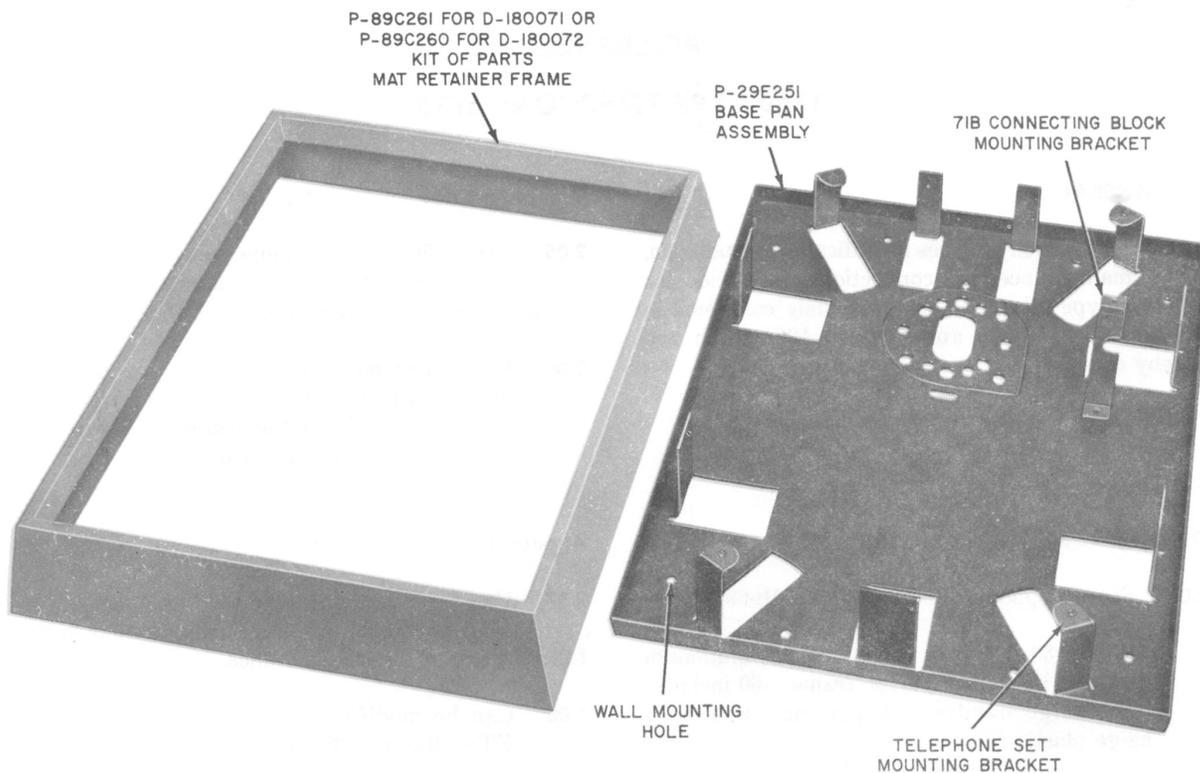


Fig. 1—D-180071 or D-180072 Kit of Parts for Surface Mounting

- (3) Secure mounting cord stayhook and terminate inside wire or cable and mounting cord.
- (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 (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 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.

- (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.

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 1750-type sets were equipped with a three piece metal grommet assembly (Fig. 2). It is recommended that the metal grommet assembly be replaced when any maintenance is performed on these sets. (See Table A, Fig. 2 and 3).

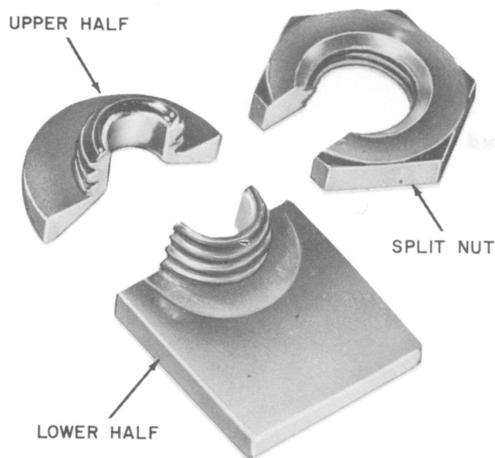


Fig. 2—P-14E894 (MD) Grommet Assembly

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

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. 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.

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.

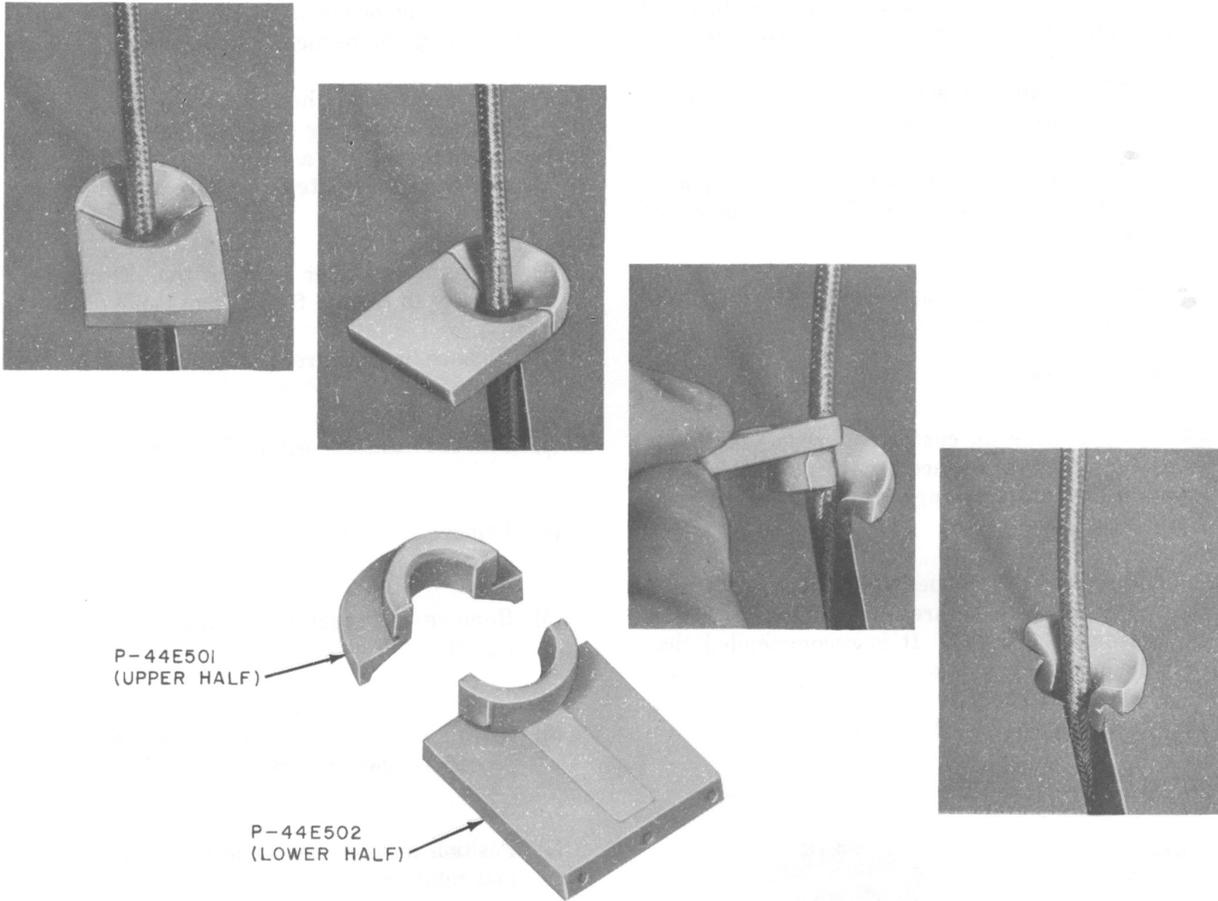
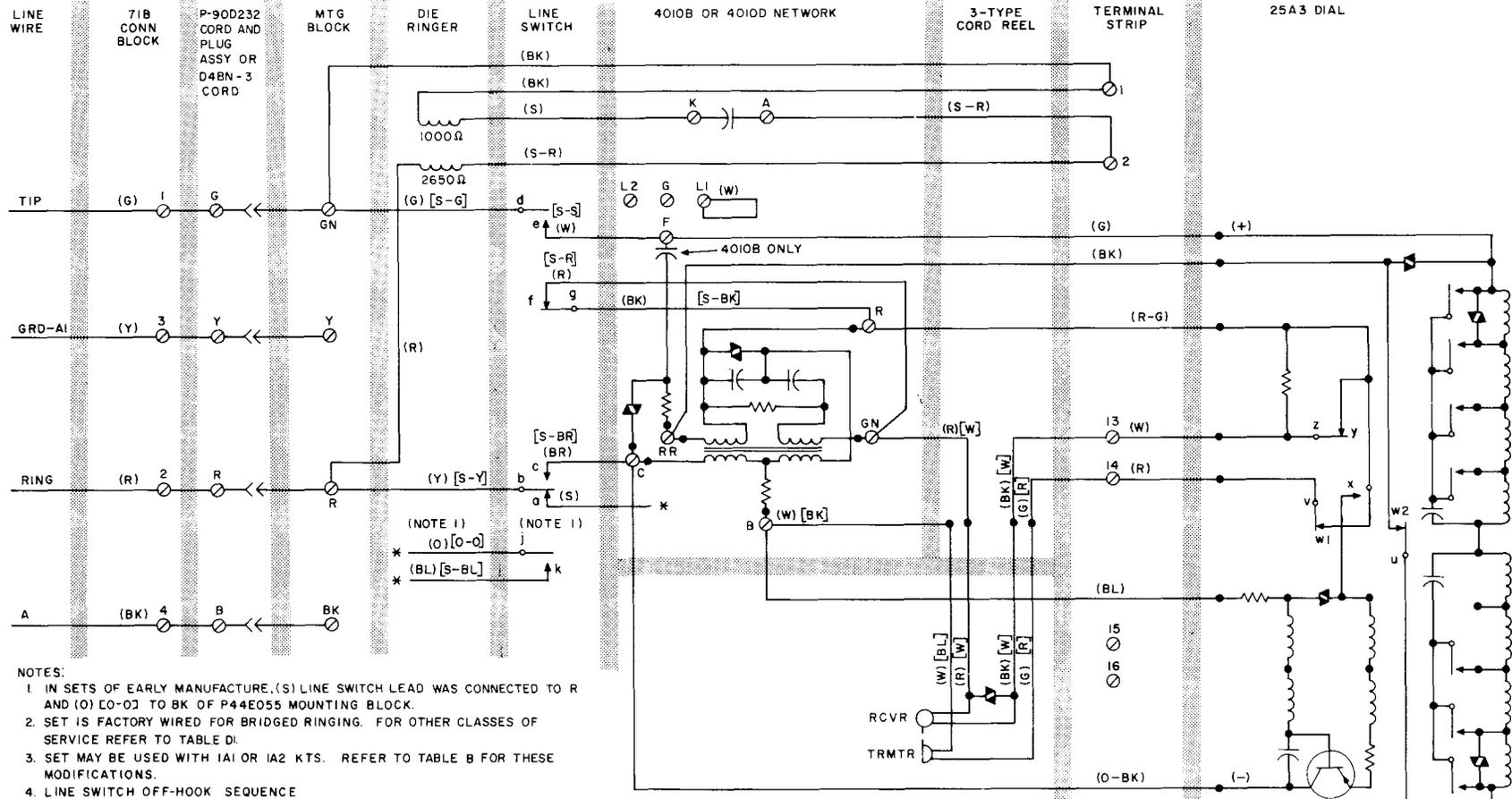


Fig. 3—Removal of Handset Cord Grommet



NOTES:

1. IN SETS OF EARLY MANUFACTURE, (S) LINE SWITCH LEAD WAS CONNECTED TO R AND (O) [O-O] TO BK OF P44E055 MOUNTING BLOCK.
2. SET IS FACTORY WIRED FOR BRIDGED RINGING. FOR OTHER CLASSES OF SERVICE REFER TO TABLE D.
3. SET MAY BE USED WITH 1A1 OR 1A2 KTS. REFER TO TABLE B FOR THESE MODIFICATIONS.
4. LINE SWITCH OFF-HOOK SEQUENCE
 (1) bc CLOSES (4) ab OPENS
 (2) de CLOSES (5) fg OPENS
 (3) jk CLOSES

* INSULATED AND STORED.
 () CURRENT COLOR CODE OR 3B CORD REEL.
 [] MD COLOR CODE OR 3A CORD REEL.

Fig. 5—1750-Type Telephone Set Connections With 25A3 Dial (MD)

TABLE A
COMPONENT ORDERING GUIDE
(COLOR SIGNIFICANT)

| TELEPHONE SET | MAT | FRAME (MAT) | LINE SWITCH ASSEMBLY | HANDSET |
|---------------|----------|------------------------|----------------------|---------|
| 1750A-58 | P-26E932 | P-84A261* P-89C261† | P-85A161 | G3K-58 |
| 1750B-60 | P26E933 | P-84A260* P-89C260† | P-85A160 | G3K-60 |

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

- Dial, 25W‡ or 25A3 (MD)
- Ringer, D1E
- Reel, Cords, 3A or 3B
- P-90D232 Cord and Plug Assembly — replaces D4BN-3 mounting cord on early production sets
- P-44E501 (upper half) and P-44E502 (lower half) grommet — replaces P-14E894 grommet assembly.

* Furnished with telephone set

† Furnished with Kit of parts used for surface mounting

‡ 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 reels 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.

TABLE B
MODIFICATIONS FOR USE WITH 1A1 OR 1A2 KTS

| LEAD | COLOR | FROM | TO |
|--------------------|--|---------------------|----------------------|
| Line Switch | (Y) [S-Y] (BR) [S-BR] (G) [S-G] (W) [S-S] | R* C GN* F | Y* BK* R* C |
| M1W Cord or Equiv. | | | GN* to F |
| Line Wire | (Y) (BK) | | 3‡ 4‡ |

* Terminal on P-44E055 mounting block.

† Terminal on 71B connecting block.

() Current color code.

[] MD color code.

TABLE C
POLARITY GUARD CONNECTIONS
(P-90D060 GUARD ASSEMBLY)

| LEAD | COLOR | FROM | TO |
|--------------------|-------------|------|---------|
| Line Switch (Note) | (BR) [S-BR] | C | S* |
| Dial | (BK) | RR | T* |
| Polarity Guard | (G) (W) | | RR C |

* Terminal on polarity guard.

() Current color code.

[] MD color code.

Note: When connected for 1A1 or 1A2 KTS per Table C, move (W) [S-S] from C to S.

TABLE D
LINE AND RINGER CONNECTIONS

| WIRE OR LEAD | | COLOR | INDIVIDUAL OR BRIDGED | RING PARTY | TIP PARTY | TIP PARTY WITH IDENT GRD | | | |
|---------------------------------|------|------------|-----------------------|------------|-----------|--------------------------|-----------|--------------------------|-----------|
| | | | | | | NORMAL CONNECTIONS | | RINGER REVERSAL (NOTE 1) | |
| | | | | | | 1000 OHMS | 2650 OHMS | 1000 OHMS | 2650 OHMS |
| Incoming Line at 71B Conn Block | Tip | (G) | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | Ring | (R) | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| | GRD | (Y) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ringer Leads (Note 2) | | (R) | R | R | GN | L1 | B | 2 | Y |
| | | (BK) | 1 | 1 | 1 | Y | L1 | 1 | 1 |
| | | (S) | K | K | K | B | K | Y | L1 |
| | | (S-R) | 2 | 2 | 2 | 2 | 2 | L1 | 2 |
| Line Switch | | (S) | R | R | R | A | A | A | A |
| | | (W)[S-S] | F | F | F | C | C | C | C |
| | | (BR)[S-BR] | C | C | C | F | F | F | F |
| Strap Connections | | (BK) | GN to 1 | 1 to Y | 1 to Y | | | 1 to B | 1 to K |
| | | (S-R) | A to 2 | A to 2 | A to 2 | B to 2 | Y to 2 | B to 2 | 2 to B |
| | | (W) | | | | L1 to K | L1 to B | L1 to K | L1 to B |

Notes:

- Use normal connections for tip party identification. If bell taps on station connected to long line equipment, reverse ringer leads as shown in this column to retain tip party identification.
- To silence ringer permanently when connected for:
 - Individual, ring party, and tip party without identifying ground — remove (S-R) strap from A of network and connect to 2 of TB1.
 - 1000Ω or 2650Ω GRD — remove (S) line switch lead from A of network and insulate and store.

() Current color code.

[] MD color code.