

REFERENCE

2750-TYPE TELEPHONE SETS

IDENTIFICATION, INSTALLATION, MAINTENANCE, AND CONNECTIONS

1. GENERAL

1.01 This section contains information for the 2750A manufacture discontinued (MD), 2750B (MD), 2750AM (MD), 2750BM (MD), 2750AMG, and 2750BMG telephone sets (Fig. 1).

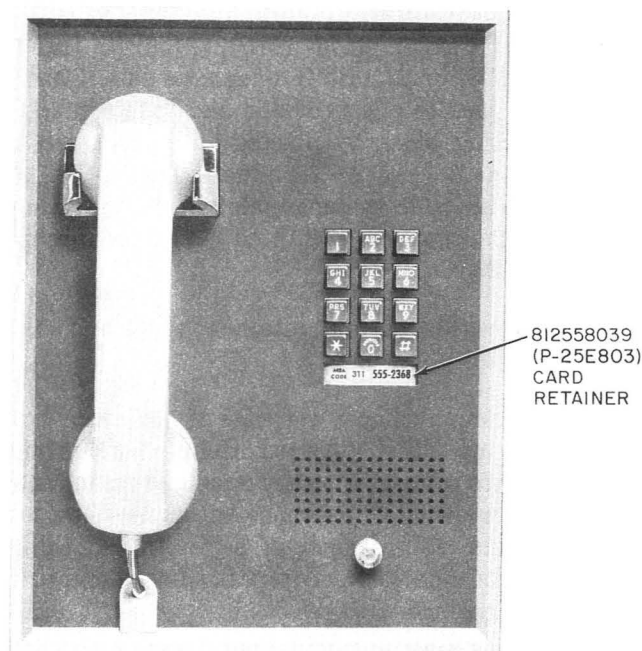


Fig. 1—2750-Type Telephone Set

1.02 This section is being reissued to change polarity guard connections in Fig. 9 and Table D. Revision arrows are used to emphasize the more significant changes.

1.03 The 2750AMG and 2750BMG coded telephone sets are furnished from the factory equipped

with 840364376 polarity guard and directly replace the 2750AM (MD) and 2750BM (MD) telephone sets.

2. IDENTIFICATION

A. Ordering Guide

2.01 Telephone sets are as follows:

- Set, Telephone, 2750AMG-58 or 2750BMG-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 Loose parts furnished with set are as follows:

- Cord, Mounting, D4BN-03 equipped with 423A Plug (for early model 2750-type telephone sets)
- 819042326 (P-90D232) Cord and Plug Assembly [2750A (MD) or 2750B (MD)]
- Cord, D4BU-29 [2-foot provided, for 2750AM/BM (MD) or 2750AMG/BMG telephone sets]
- Jack, 652A4 and 840401749, Bracket [for 2750AM/BM (MD) or 2750AMG/BMG telephone sets], Fig. 2
- 841392731 Insulator (for insulating network from apparatus box), Fig. 3
- 801608282 (P-160828) Mounting Screws (4)
- 812558039 (P-25E803) Card Retainer.

2.03 The associated apparatus or equipment (ordered separately) is as follows:

- Apparatus Box, 113-Type or 114A (recessed mounting)

NOTICE

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

- D-180071 or D-180072 Kit of Parts (surface mounting)
- D-181006 Kit of Parts [polarity guard for 2750AM (MD) and 2750BM (MD) telephone sets or for replacement in 2750AMG or 2750BMG telephone sets]
- Connecting Block, 71B.

2.04 Replaceable set components are listed in Table A.

B. Design Features

2.05 The 2750-type telephone set 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 The 2750-type telephone set can be wired for bridged, two-party flat rate, two-party message rate, or four-party full selective on central office or PBX lines.

2.08 These sets can be modified for 1A1 or 1A2 KTS. See Tables B and C for set modifications.

2.09 The polarity guard is optional for the 2750AM (MD) and 2750BM (MD) telephone sets and must be ordered separately. It is intended for use when specified by local instructions for end-to-end signaling installations. Refer to Table D for polarity guard connections and Fig. 4 for location of 819041971 polarity guard in set. The 2750AMG and 2750BMG telephone sets are equipped with the 840364376 polarity guard which is located beneath the network and next to the 35-type dial.

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, proceed as follows:

- (1) Remove cover of apparatus box, if so equipped (see section covering apparatus boxes).
- (2) Place the 841392731 Mylar insulator (provided with the set) in the apparatus box, (Fig. 3). This provides insulation between the network terminals and the apparatus box.
- (3) Install 71B connecting block (ordered separately) to mounting bracket located in upper right corner of apparatus box. (Refer to Division 461 for further information on this type of connecting block.)
- (4) Secure mounting cord stayhook and terminate inside wire or cable and mounting cord in accordance with appropriate connection section.

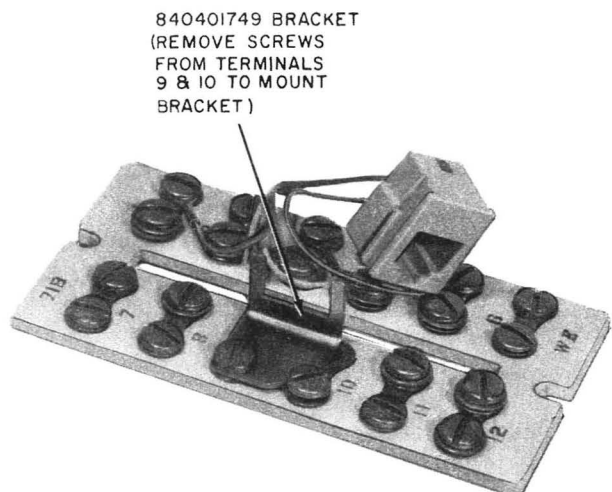
Note: For 2750AM (MD), 2750BM (MD), 2750AMG, or 2750BMG telephone sets, attach 652A4 jack to clip provided and fasten to 71B connecting block by placing clip under screw terminal 10 (Fig. 2). Terminate leads of 652A4 jack to appropriate terminals of 71B connecting block and connect 652A4 to 623P4 jack using D4BU-29 cord.

- (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 ensure a snug fit.

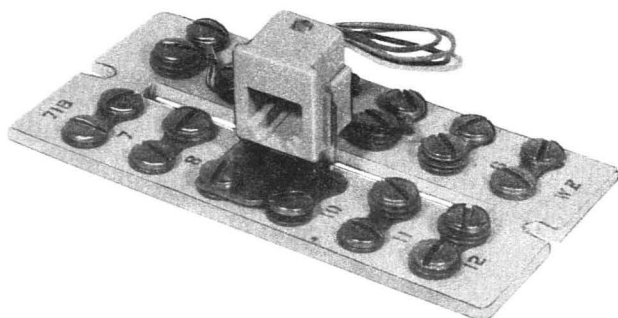
B. D-180071 or D-180072 Kit of Parts

3.03 To surface mount telephone set, proceed as follows.

- (1) The D-180071 (light gray frame) or D-180072 (light beige frame) Kit of Parts (Fig. 5), ordered separately, permits mounting these sets on the surface of a wall.
- (2) The base pan assembly is arranged for mounting on a 63-type, KS-19407L1 (MD), or KS-



A. BRACKET MOUNTED ON 71B CONNECTING BLOCK



B. 652A JACK POSITIONED ON BRACKET

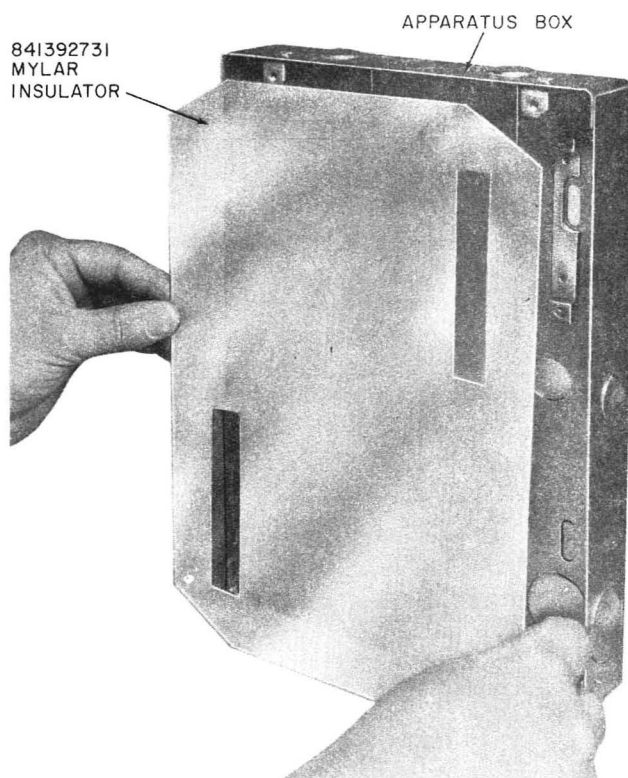
Fig. 2—71B Connecting Block With 652A4 Jack Attached

20502L2 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, place the 841392731 insulator into the base pan, and 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.

**Fig. 3—Placing Mylar Insulator in Apparatus Box**

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

(6) Position mat on panel and secure using plastic frame [818932600 (P-89C260) or 818932618 (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.

4.02 Ringer, 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

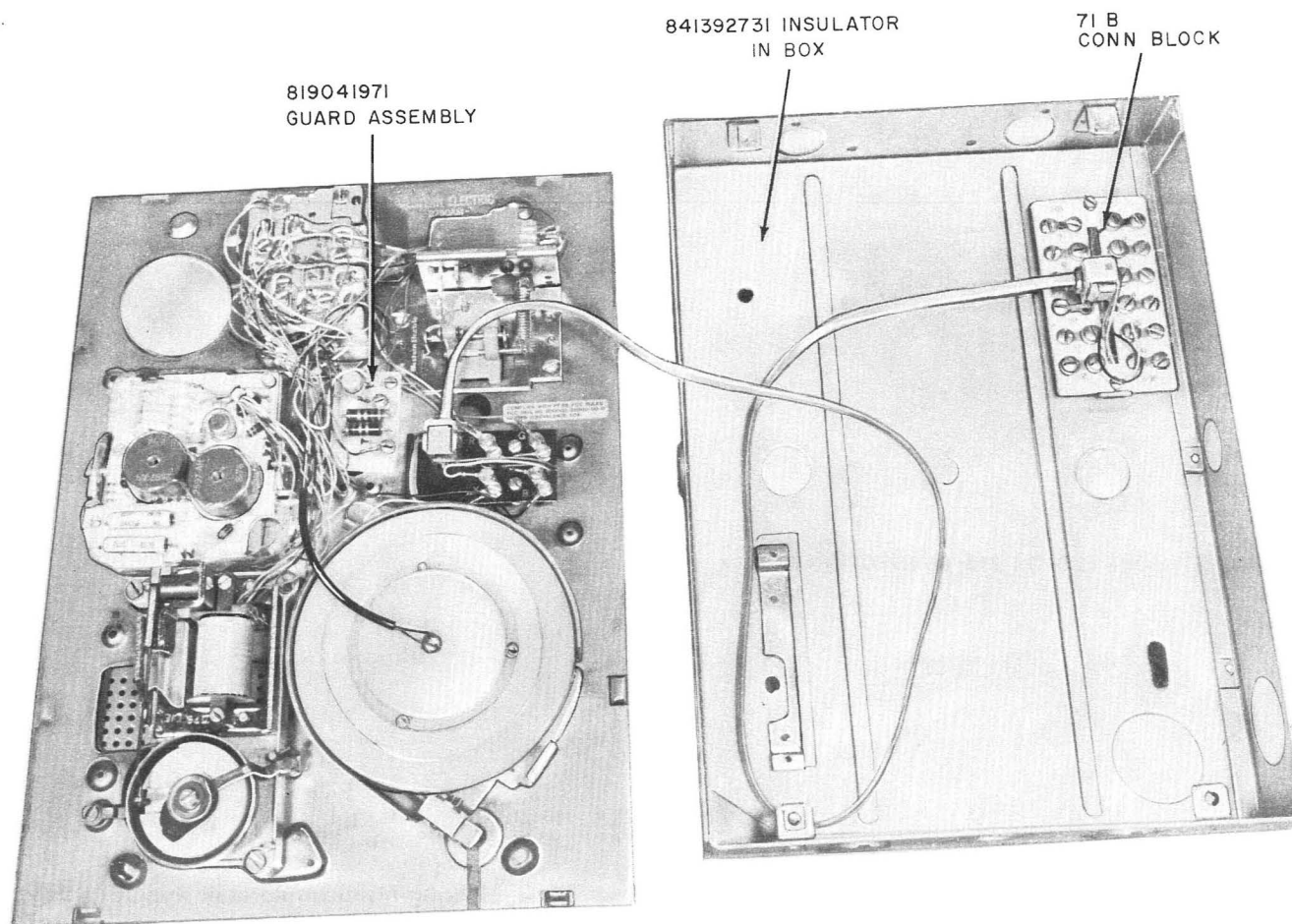


Fig. 4—Rear of 2750AM (MD) or 2750BM (MD) Telephone Set Showing 819041971 Guard Assembly With Insulator and 71B Connecting Block Installed in Apparatus Box

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) Go off-hook.
- (3) Pull out handset cord to allow working slack.
- (4) Remove mat from face of panel.
- (5) Remove grommet from mat.
- (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 main-

tained 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. CONNECTIONS

5.01 Telephone set connection figures are as follows:

Fig. 6 — 2750A (MD) or 2750B (MD) Telephone Set, Connections (Early Model)

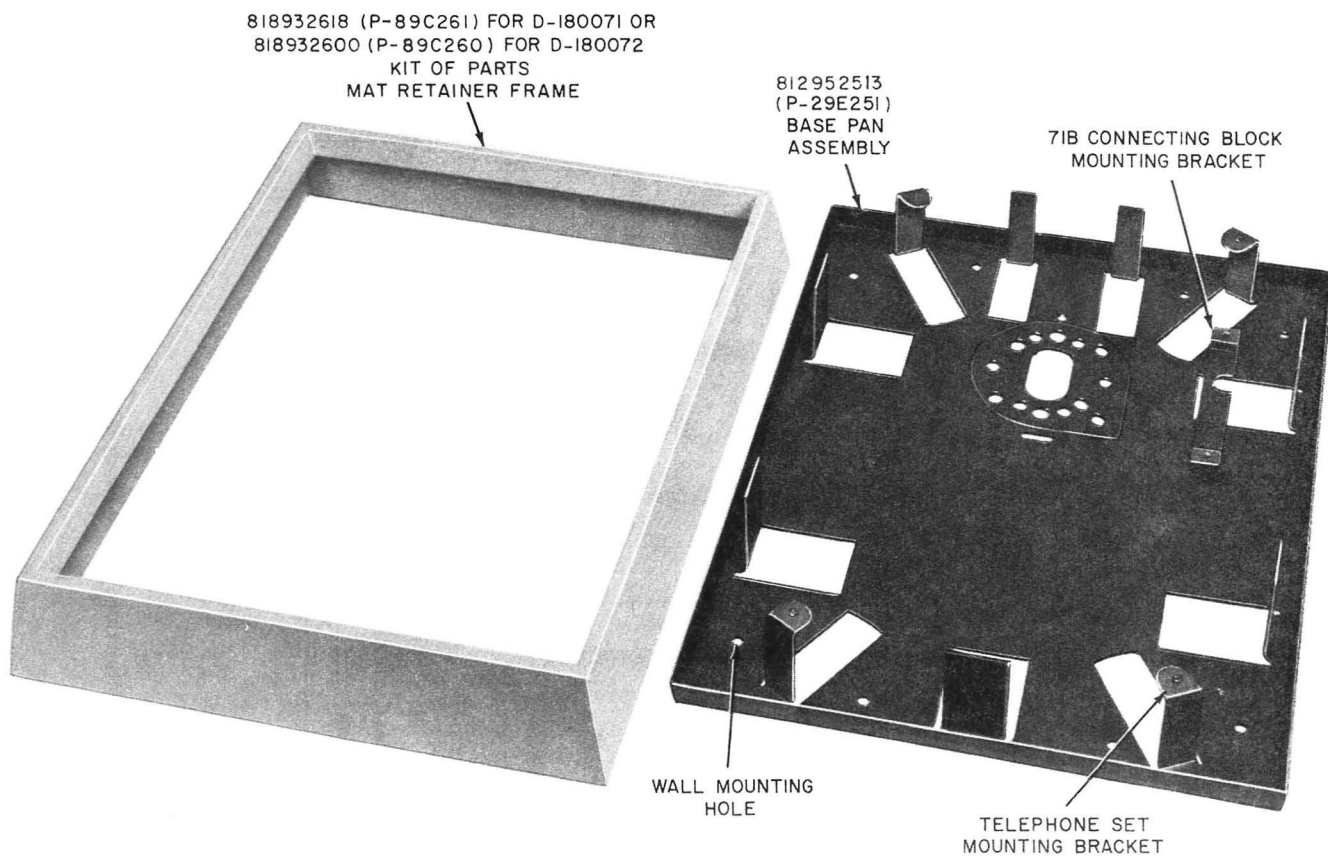


Fig. 5—D-180071 or D-180072 Kit of Parts for Surface Mounting

Fig. 7 — 2750A (MD) or 2750B (MD) Telephone Set, Connections (Later Model)

Fig. 8 — 2750AM (MD) or 2750BM (MD) Telephone Set, Connections

Fig. 9 — 2750AMG or 2750BMG Telephone Set, Connections

5.02 Line and ringer connection tables are as follows:

Table E — 2750A (MD) or 2750B (MD) Telephone Set Line and Ringer Connections (Early Model)

Table F — 2750A (MD), 2750B (MD) (Later Model); 2750AM (MD), 2750BM (MD); 2750AMG, and 2750BMG Telephone Sets Line and Ringer Connections (Note 1)

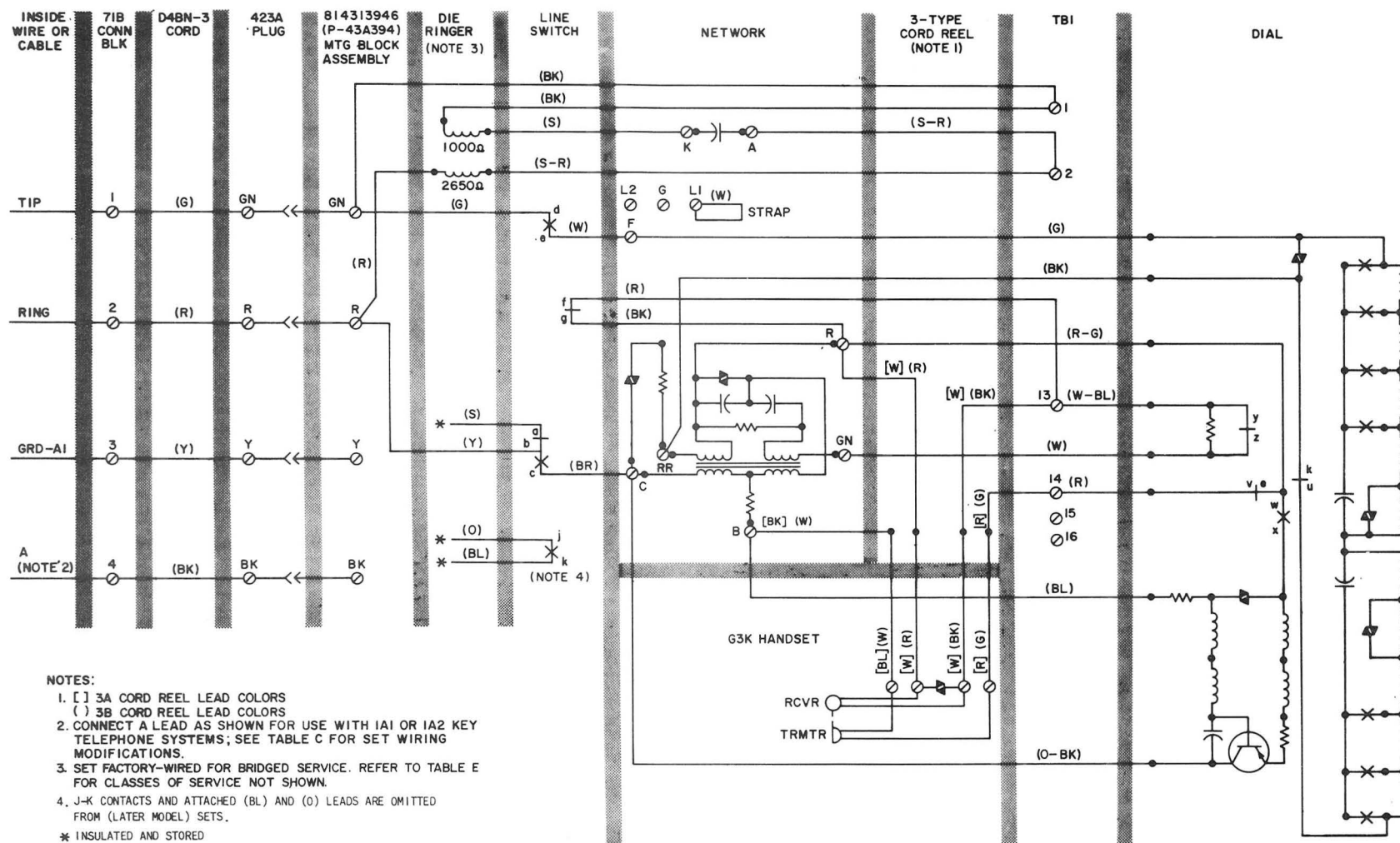


Fig. 6—2750A (MD) or 2750B (MD) Telephone Set, Connections (Early Model)

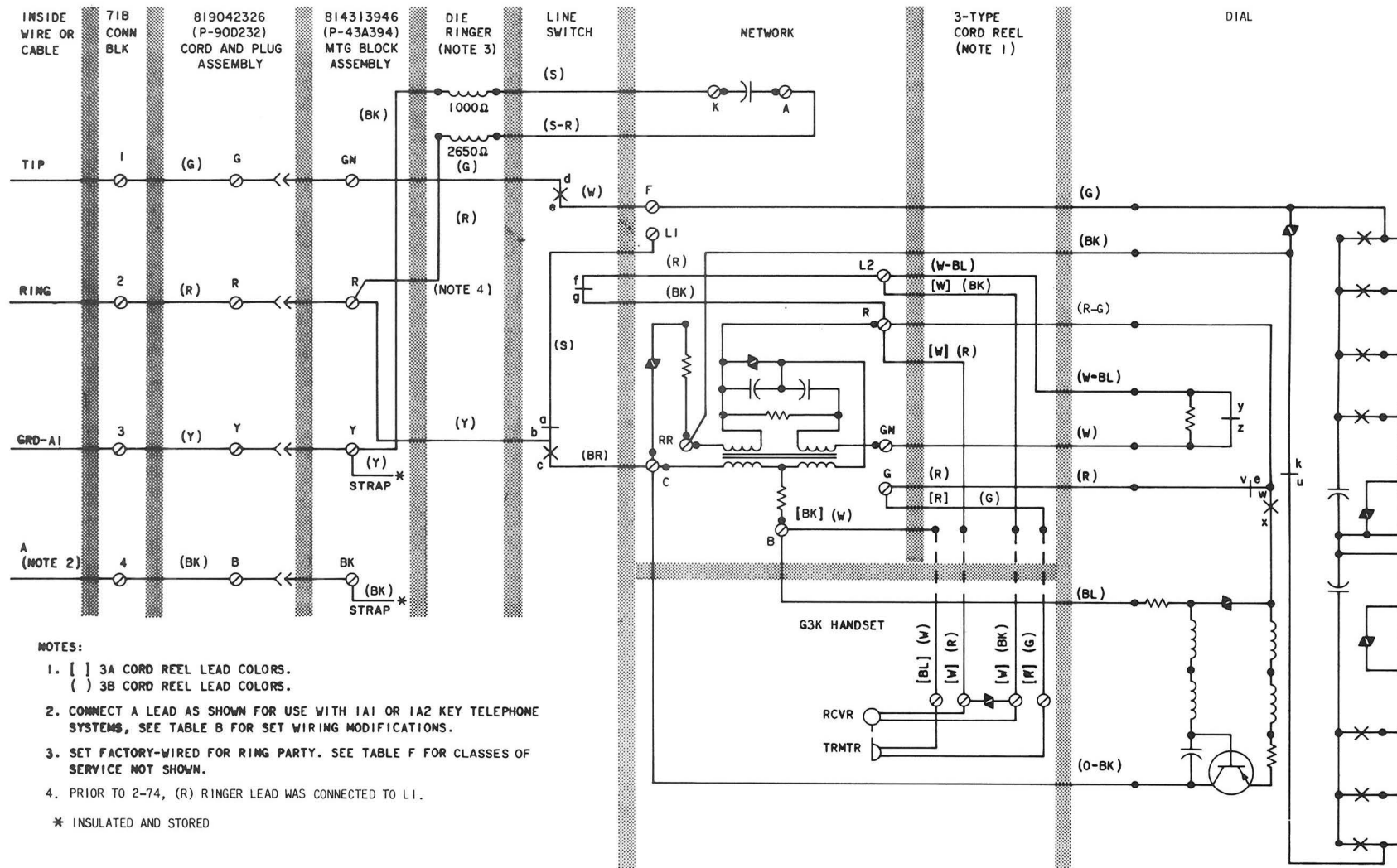


Fig. 7—2750A (MD) or 2750B (MD) Telephone Set, Connections (Later Model)

TABLE A
COMPONENT ORDERING GUIDE
(COLOR SIGNIFICANT)

TELEPHONE SET	MAT	FRAME (MAT)	LINE SWITCH ASSEMBLY	HANDSET
2750A-58 (MD), 2750AM-58(MD) or 2750AMG-58	812167880 (P-21F788)	818412611 (P-84A261)* or 818932618 (P-89C261)†	818511610 (P-85A161)	G3K-58
2750B-60 (MD), 2750BM-60(MD) or 2750BMG-60	812167898 (P-21F789)	818412603 (P-84A260)* or 818932600 (P-89C260)†	818511602 (P-85A160)	G3K-60

* Furnished with telephone set.

† Furnished with kit of parts used for surface mounting.

TABLE B

**MODIFICATIONS FOR USE WITH 1A1 OR 1A2 KTS
FOR (LATER MODEL) 2750A OR B (MD), 2750AM
OR BM (MD), 2750AMG OR BMG**

WIRE OR LEAD		REMOVE FROM	CONNECT TO
Incoming Line at 71B Conn Block	Tip	1	3
	Ring	2	1
	GRD-A1	3	2
	A		4
Ringer	R	R*	G*
	BK	G*	Y*
Line Switch Assembly	BR	C†§	L1†
	W	F†	C†§
	S	L1†	‡
Strap on TB1	Y	‡	F†
	BK	‡	L1†

* Terminal on 814313946 (P-43A394) mounting block assembly or TB1 (on 2750AM/BM (MD) or AMG/BMG sets)

† Terminal on network.

‡ Insulated and stored.

§ If set is equipped with a polarity guard, this lead is terminated on polarity guard terminal S.

TABLE C

**MODIFICATIONS FOR USE WITH 1A1
OR 1A2 KTS
FOR (EARLY MODEL) 2750A OR B (MD) SETS**

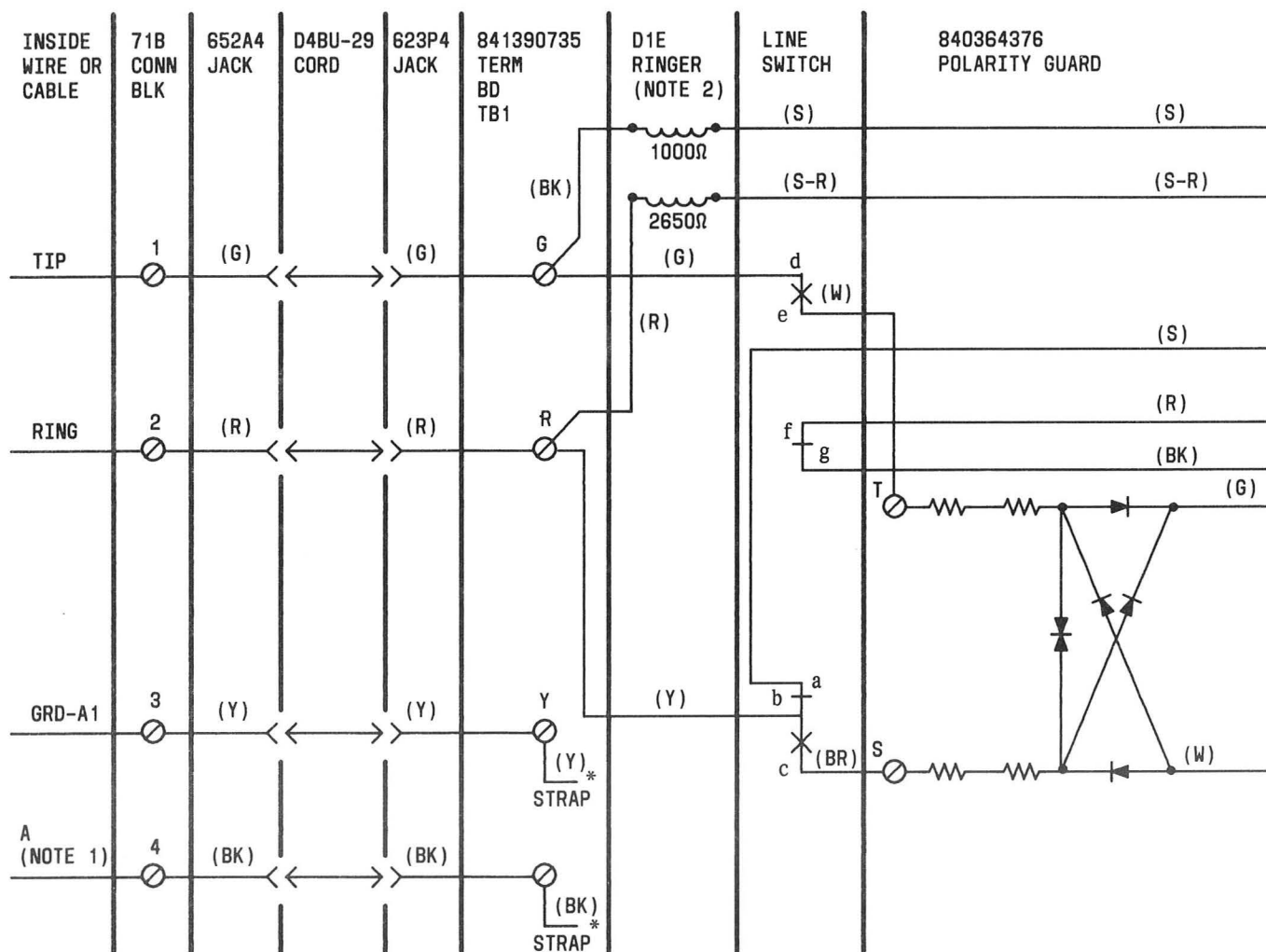
WIRE OR LEAD		REMOVE FROM	CONNECT TO
Line Switch Assembly	Y	R*	Y*
	BR	C†	BK*
	G	GN*	R*
	W	F†	C†
M1W Cord or Equiv.		GN* To F†	

* Terminal on 814313946 (P-43A394) mounting block assembly.

† Terminal on 4010D network.



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* INSULATED AND STORED

NOTES:

1. CONNECT A LEAD AS SHOWN FOR USE WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEMS, SEE TABLE B FOR SET WIRING MODIFICATIONS.
2. SET FACTORY-WIRED FOR BRIDGED RINGING. SEE TABLE F FOR CLASSES OF SERVICE NOT SHOWN.

Fig. 9—2750AMG or 2750BMG Telephone Set, Connections (Sheet 1 of 2)

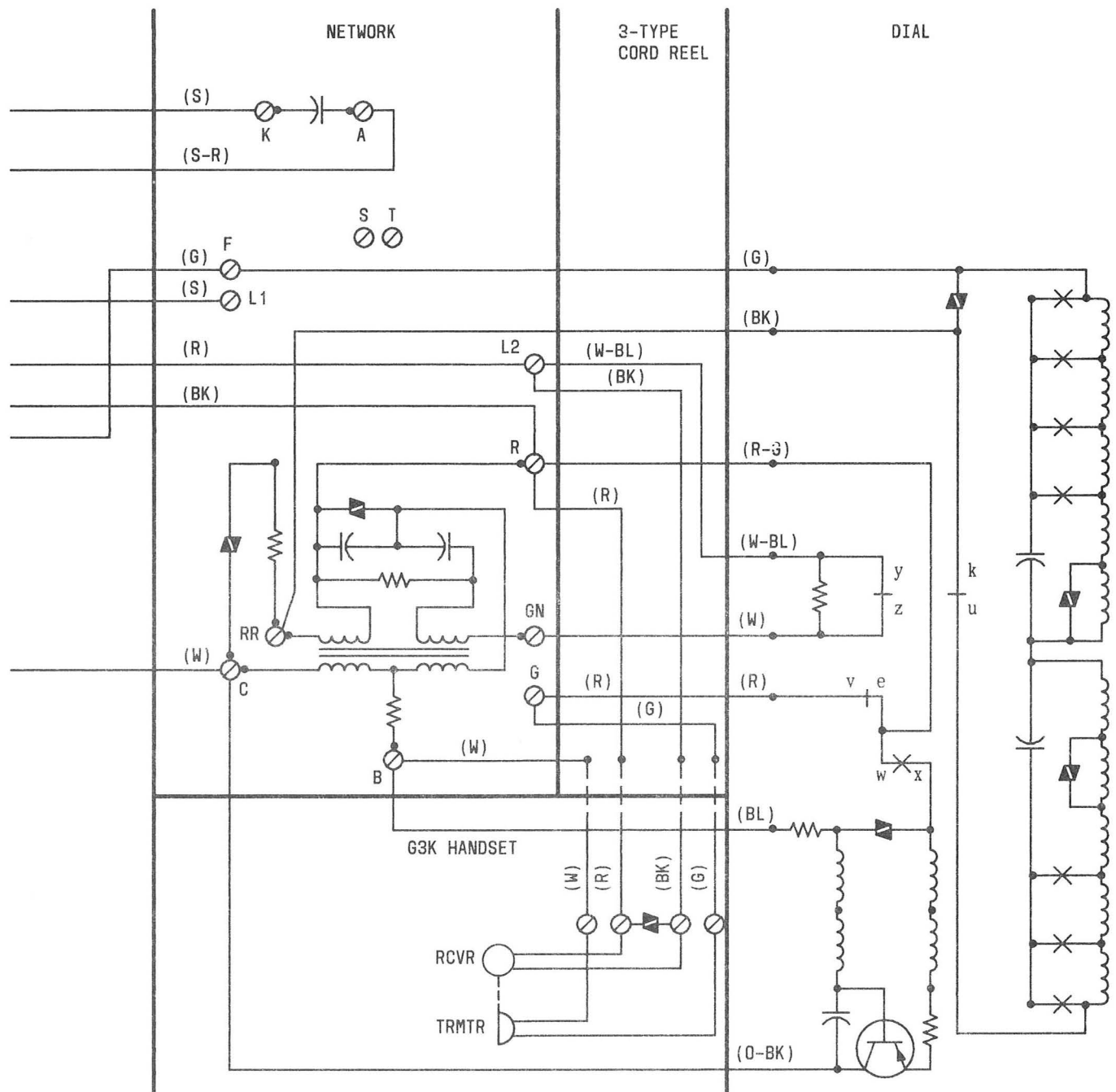


Fig. 9—2750AMG or 2750BMG Telephone Set, Connections (Sheet 2 of 2)

♦TABLE D♦

POLARITY GUARD CONNECTIONS[819040601 (P-90D060)
(MD), 819041971 (P-90D197) (MD), OR 840364376]

(SEE NOTES 1 AND 2)

WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO
Line Switch Assembly *	BR	C of Net.	S of Polarity guard
	W	F of Net.	T of Polarity guard
Polarity guard	G W		F of Net. C of Net.

Note 1: The 819040601 (P-90D060) (MD) polarity guard cannot be used if set is equipped with a 4228N network. The 819041971 (P-90D197) (MD) or 840364376 polarity guards have a self-adhesive backing and may be positioned on any surface that is equivalent in size to the adhesive backing and will accommodate lead lengths.

Note 2: The 840364376 polarity guard is part of the D-181006 Kit of Parts.

* When set is connected for 1A1 or 1A2 KTS per Tables B and C, move (W) line switch lead from C of network to S of polarity guard.

TABLE E

2750A (MD) OR 2750B (MD) TELEPHONE SET LINE AND RINGER CONNECTIONS (EARLY MODEL)

WIRE OR LEAD		INDIVIDUAL OR BRIDGED	RING PARTY	TIP PARTY	TIP PARTY WITH IDENT GRD			
					NORMAL CONNECTIONS		RINGER REVERSAL (NOTE)	
					1000 OHMS	2650 OHMS	1000 OHMS	2650 OHMS
Incoming Line at 71B Conn Block	Tip	1	1	1	2	2	2	2
	Ring	2	2	2	1	1	1	1
	GRD-A1	3	3	3	3	3	3	3
Ringer Leads *	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	‡	‡	‡	A	A	A	A
	W	F	F	F	C	C	C	C
	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 L1	L1 to K	L1 to K	L1 to K	L1 to B	L1 to K	L1 to B

Note: 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, refer to appropriate ringer section in Division 501.

† Terminal on 814313946 (P-43A394) mounting block.

‡ Insulated and stored

TABLE F

**2750A (MD), 2750B (MD) (LATER MODEL); 2750AM (MD), 2750BM (MD); 2750AMG, AND 2750BMG TELEPHONE
SETS LINE AND RINGER CONNECTIONS (NOTE 1)**

WIRE OR LEAD		INDIVIDUAL OR BRIDGED	RING PARTY	TIP PARTY	TIP PARTY WITH IDENT GRD			
					NORMAL CONNECTIONS		RINGER REVERSAL (NOTE 2)	
					1000 OHMS	2650 OHMS	1000 OHMS	2650 OHMS
Incoming Line at 71B Conn Block	Tip	1	1	2	2	2	2	2
	Ring	2	2	1	1	1	1	1
	GRD-A1	3	3	3	3	4	4	4
Ringer Leads *	R	R‡	R‡	R‡	K	B	B	L1
	BK	G‡	Y‡	Y‡	Y‡	Y‡	Y‡	Y‡
	S	K	K	K	B	K	L1	B
	S-R	A	A	A	B	L1	K	B
Line Switch †	S	L1	L1	L1	A	A	A	A
	W	F	F	C	C	C	C	C
	BR	C	C	F	F	F	F	F
Strap Connections	Y	Y‡ to §	Y‡ to §	Y‡ to §	Y‡ to §	Y‡ to B	Y‡ to B	Y‡ to K
	BK	BK‡ to §	BK‡ to §	BK‡ to §	BK‡ to §	BK‡ to L1	BK‡ to L1	BK‡ to L1

Note 1: For 4-party full-selective ringing, a coupling device will be required; refer to Section 500-114-100. For connection information of 426A tubes, refer to Section 501-320-100. For connection information of 28A ringer isolator, refer to Section 501-375-101.

Note 2: 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, refer to appropriate ringer section in Division 501.

† The (W) and (BR) line switch lead connections shown in this table do not apply to sets equipped with a polarity guard.

‡ Terminal on 814313946 (P-43A394) mounting block on 2750A/B (MD) sets, or 841390735 TB1 terminal board of 2750AM/BM (MD) and 2750AMG/BMG.

§ Insulated and stored