

SERVICE

2754-TYPE TELEPHONE SETS

MAINTENANCE AND CONNECTIONS

1. GENERAL

1.01 This section contains information on the 2754A (MD), 2754B (MD), 2754AG, and 2754BG telephone sets (Fig. 1 and 2).

1.02 This section is reissued to:

- Show 2754A and 2754B telephone sets MD
- Show 819041971 (P-90D197) and 819040619 (P-90D061) polarity guard MD
- Add information on 2754AG-58 and 2754BG-60 telephone sets
- Add information on D-181006 Kit of Parts (includes 840364376 polarity guard)
- Add 533K diode or equivalent for busy lamp feature, Fig. 2.

2. MAINTENANCE

2.01 Maintenance performed on customer's premises should be limited to replacement of accessible parts which are available through supply channels.

2.02 Ringers, handsets, dials, etc. used in this type set should be maintained in accordance with sections covering the particular item.

Note: When ringer volume control is set in LOW position only ringer motor noise may be heard because clapper might not strike gong. If bell sound is desired, move control to slightly higher volume position.

2.03 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) Rotate handset cord grommet 1/4 turn clockwise and remove. [Sets manufactured prior to 1969 use a two piece grommet, 814455010 (P-44E501) upper half and 814455028 (P-44E502) lower half, while sets manufactured after 1969 use a single piece grommet which is an integral part of 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.

2.04 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 twist in the cord should be removed before making test.

2.05 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.

2.06 The current production 635-type keys have been modified for easy lamp replacement by merely removing the lamp cap and inserting a 553-type tool through the hole in the top of the button. In early production keys it was necessary to remove faceplate, key collar, and button for lamp replacement.

NOTICE

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

3. CONNECTIONS

♦TABLE A♦

3.01 Connection Table Index:

Table A—Polarity Guard Connections

Table B—Connections for Line Exclusion

Table C—Pickup-Signal Key Conversion

POLARITY GUARD CONNECTIONS
 [819041971 (P-90D197) (MD),
 819040619 (P-90D061) (MD), OR
 840364376] (NOTES 1 AND 2)

WIRE OR LEAD		REMOVE FROM	CONNECT TO	
		NET.	POLARITY GUARD	NET.
Dial	BK	RR	T	
	G-W	C	S	
Line Switch	W	C	S	
Polarity Guard	G			RR
	W			C

Note 1: For use when specified by local instructions for end-to-end signaling installations.

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

TABLE B

CONNECTIONS FOR LINE EXCLUSION

EXCLUSION	KEY TELEPHONE SYSTEM	EXCLUSION KEY LEADS							
		(BL-W)	(W-BL)	(O-W)	(W-O)	(V-BL)	(BL-V)	(V-O)	(O-V)
On any Line	1A	R†	T†	1B‡	H†	ET	ER	EH	EB
	1A1 or 1A2	T†	T†	*	H†	ET	ER	EH	EB

* Insulated and stored.

† Terminal of line involved.

‡ When other than Line 1 is excluded, remove O-W cord conductor from terminal 1B; insulate and store. Connect balance lead cord conductor of line involved to terminal 1B.

TABLE C

PICKUP-SIGNALING KEY CONVERSION (NOTE 1)

CONVERSION OPTIONS	635A2 KEY LEADS			STRAP
	(Y-BR)	(BR)	(BR-BK)	(S-R)
HPPPPP	M	M	X	M
HPPPPS	M	M	SG	M
HPPPSS	M	M	X	SG
HPPSSS	M	X	X	SG
HPPPP*S*	M	M	Note 3	5H
HPPP*P*S*	M	X	Note 3	5H
HPP*P*P*S*	X	X	Note 3	5H

Note 1: As furnished, all line keys are arranged for pickup. To convert a key position from pickup (locking) to signal (nonlocking), remove the 812857738 (P-28E773) locking pin from plunger at the key position to be converted. To convert a key position from nonlocking to locking, insert the locking pin.

Note 2: These options are used for private or intercommunicating lines with a common signal key. Use line which controlled ground lead for common signal ground and S lead of 2nd, 3rd, or 4th pickup key as required. The signal key will operate the signal circuit of the selected line. Connect as shown in Table C for the appropriate KTS.

Note 3: For 1A1 and 1A2 KTS, move key lead (BR-BK) from terminal X to terminal N. For 1A KTS, move key lead (BR-BK) and strap (BK) from terminal N and connect together at any spare terminal.

* See Note 2.

SECTION 502-738-402

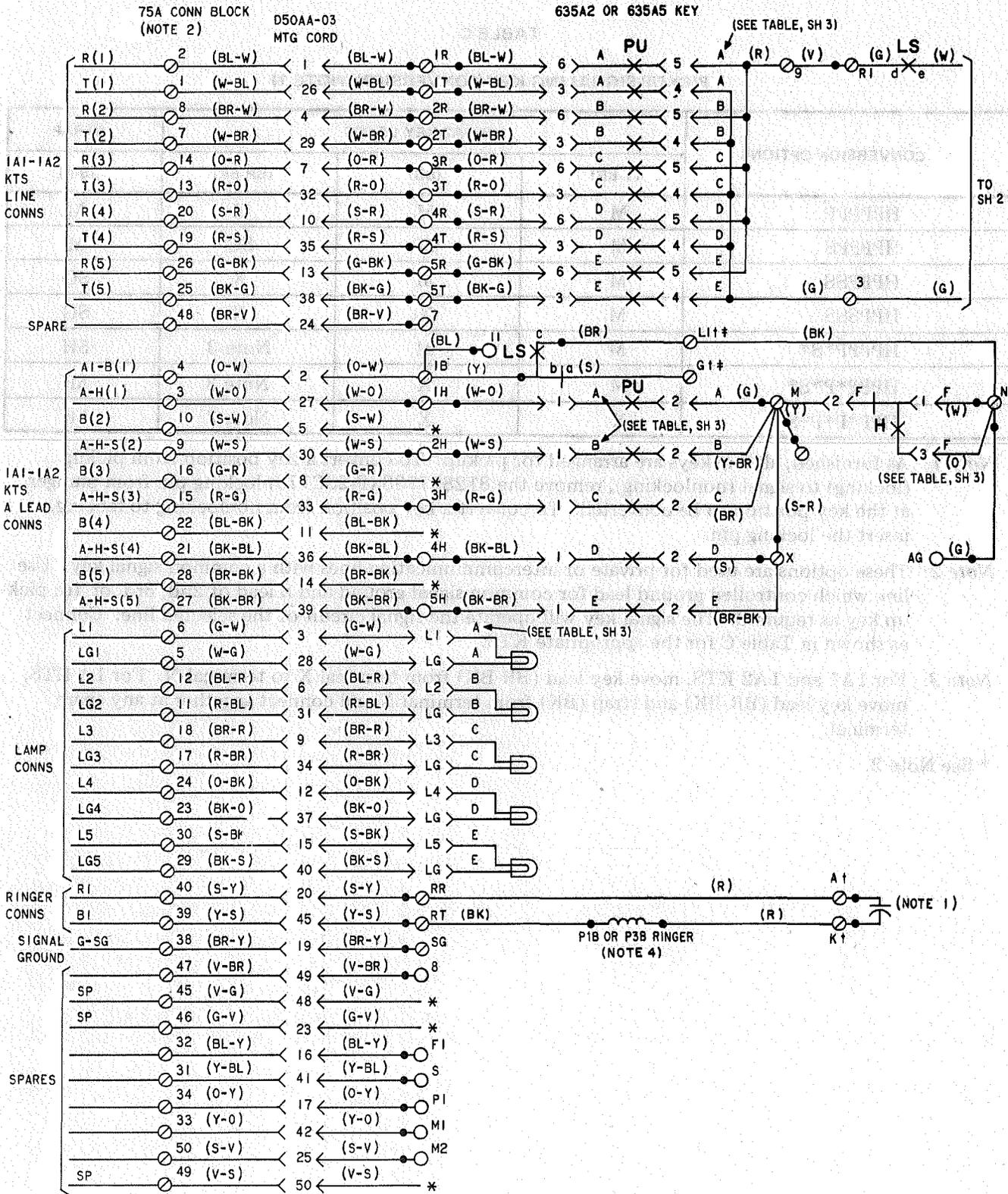
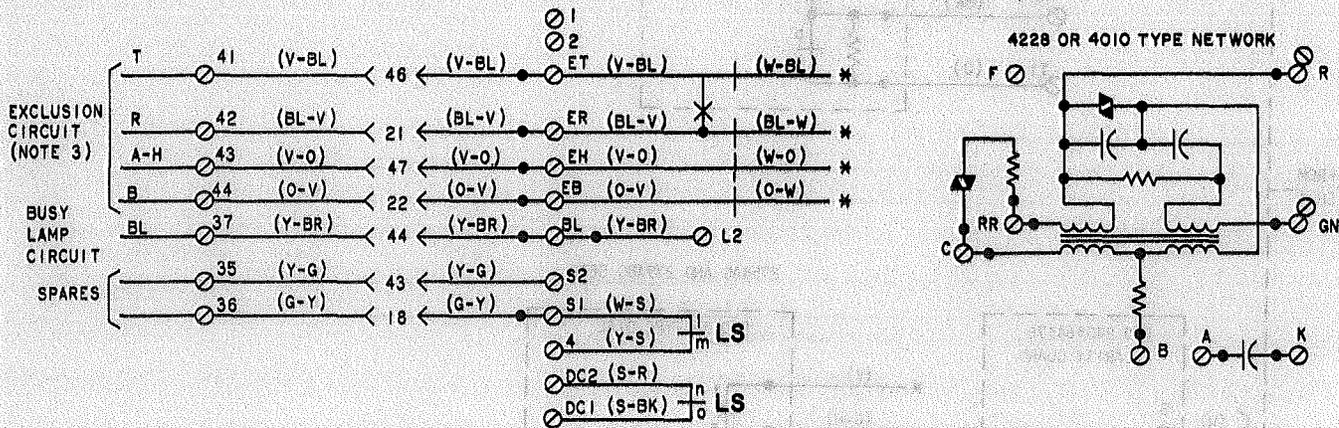


Fig. 1—2754A (MD), 2754B (MD), 2754AG, and 2754BG Telephone Set, Connections (Sheet 1 of 3)



NOTES:

1. IF CAPACITOR IS NOT REQUIRED MOVE (R) RINGER LEAD TO A.
2. 75A CONNECTING BLOCK SHOWN. CONNECTOR CABLE MAY BE CONNECTED DIRECTLY TO PLUG. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MTG CORD.
3. FOR EXCLUSION FEATURE CONNECT SWITCH LEADS PER TABLE B.

* - INSULATED AND STORED.

† NETWORK TERMINALS - UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD.

‡ ON NEWER MODELS CAN BE FOUND ON NETWORK TERMINAL BOARD ASSEMBLY

H - HOLD KEY

LS - LINE SWITCH

PU - PICKUP KEY

⊙ - TERMINAL WITH SCREW

○ - TERMINAL WITHOUT SCREW

[] - 3A CORD REEL LEAD COLORS.

() - 3B CORD REEL LEAD COLORS.

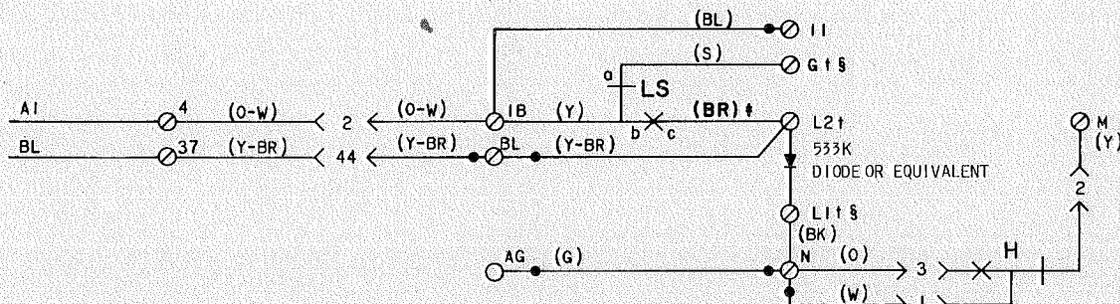
TABLE
KEY PLUG COLOR CODE

COLOR	BLUE	ORANGE	GREEN	BROWN	SLATE	PINK
CODE	A	B	C	D	E	F

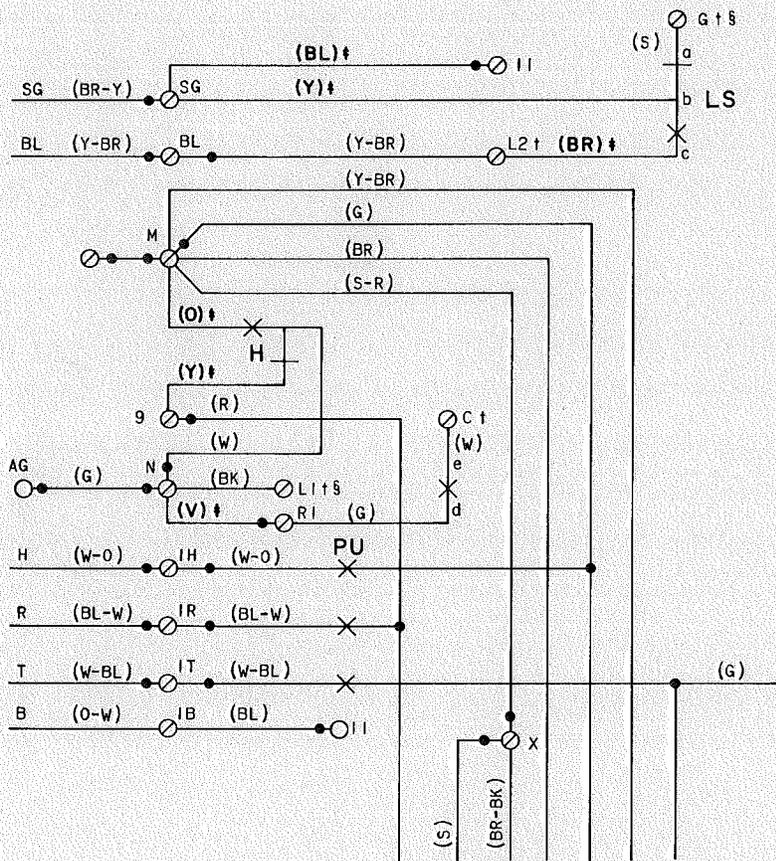
4. CONNECTIONS FOR PIB RINGER SHOWN. CONNECTIONS FOR P1A OR P3A SAME AS PIB EXCEPT UNUSED RINGER LEADS ARE INSULATED AND STORED.

5. ON EARLY 2754A AND 2754B MODELS, THE (V) DIAL LEAD WAS CONNECTED TO TERMINAL 7.

Fig. 1—2754A (MD), 2754B (MD), 2754AG, and 2754BG Telephone Set, Connections (Sheet 3 of 3)



A. 1A1-1A2 KTS WIRED FOR BUSY LAMP FEATURE



B. 1A KTS WIRED FOR BUSY LAMP FEATURE

- † - NETWORK TERMINAL - UNDESIGNATED TERMINALS ON KEY TERMINAL BOARD
- ‡ - LEADS INVOLVED IN MODIFICATION
- § - ON NEWER MODELS CAN BE FOUND ON NETWORK TERMINAL BOARD ASSEMBLY
- H - HOLD KEY
- LS - LINE SWITCH
- ⊙ - TERMINAL WITH SCREW
- - TERMINAL WITHOUT SCREW

Fig. 2—2754-Type Telephone Set, Optional Features