

REFERENCE

2702B TELEPHONE SETS



Fig. 1—2702B Telephone Set

1. GENERAL

1.01 This section provides identification, installation, maintenance, and connection information for 2702B PRINCESS® telephone sets.

1.02 This section is reissued to revise Tables A and B.

2. IDENTIFICATION

2.01 The 2702B telephone set (Fig. 1) is intended for individual, 2-party flat rate or 2-party message rate service (CO or key telephone system lines).

2.02 Design Features:

- Ringer volume/OFF-control
- Dial/night lamp

Optional Features

2.03 Optional features include a 1-line pickup when used with 1A1 or 1A2 key telephone system (without hold) and used with 3-type or 4A speakerphone.

2.04 These sets are available in all promoted colors.

Operating Features

2.05 The night light switch allows dial lamp to be operated at reduced intensity (dial lamp illuminates dial at full intensity with handset off-hook Fig. 2).

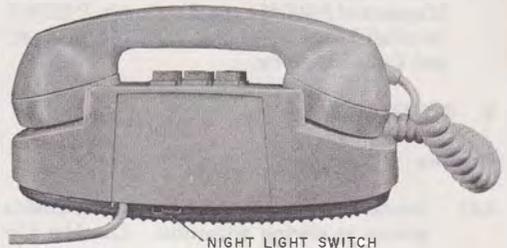


Fig. 2—2702B Telephone Set, Rear—Night Light Switch Location

Ordering Guide

2.06 Replaceable Components:

- Cord, Handset, H4CJ-*
- Cord, Mounting, D5AK-29 or D4BT-29
- Dial, 35E4A or 35AD4A
- Housing and Plunger Assembly, P-84D8-*
- Lamp, Dial, KS-19387L1†
- Retainer, Number Card, P-25E803
- Ringer, M1A
- Set, Hand, G3A-type*‡

- Socket, Dial Lamp, KS-19240L2†

2.07 Optional Components:

- Kit of Parts (polarity guard), D-180229S

2.08 Associated Components:

- Transformer (dial lamp), 2012A (or equivalent)

* Add appropriate color suffix.

† Available as D-179919 Kit of Parts (containing dial lamp, socket and installation instruction).

‡ Cords available in 4, 9, and 13 foot lengths.

§ Consists of P-90D054 guard assembly, P-21F675 terminal board assembly, P-26E164 retainer, and P-43A392 screw.

3. INSTALLATION

Planning

3.01 Insofar as possible be guided by the customer's wishes in placing apparatus. Consider the following:

- Safety for yourself, customer, and maintenance personnel.
- Availability of power outlet for dial lamp transformer.
- Location of telephone to provide adequate ringer coverage of area.
- General appearance of installation.

3.02 Select a 105-120 volt ac receptacle on a circuit not controlled by a switch for dial lamp transformer. A 2A clamp is available to secure the 2012A transformer to the service outlet. Current production transformers have folded-blade prongs and the 2A clamp is not required. For multipled dial lamp sets, see section covering station transformers for selection information.



For proper illumination of the dial, the wire run between transformer and telephone set should not exceed 250 feet of standard inside wire. Do not use a 25-foot mounting cord.

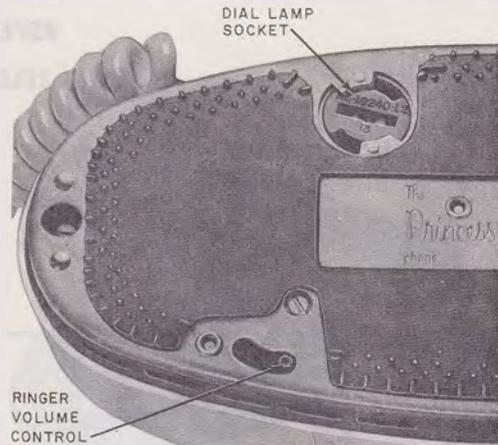


Fig. 3—PRINCESS Telephone Set, Partial Bottom View

because the added resistance may result in decreased illumination.

Installing

3.03 Install the 2702B telephone set in accordance with standard practices for desk-type telephone sets.

3.04 Refer to appropriate section in Division 461 for selection of appropriate jacks and plugs for these sets.

3.05 Install polarity guard (D-180229 Kit of Parts) only when specified by local instructions for end-to-end signaling. Installation is as follows:

- (1) Remove housing, loosen dial mounting screws, and move the dial to one side without disconnecting the dial leads.
- (2) Insert the P-26E164 retainer in left-hand dial mounting bracket (Fig. 4).
- (3) Insert tabs of P-21F675 terminal board into notches in right-hand dial mounting bracket and secure to retainer using P-43A392 screw.
- (4) Connect polarity guard per Table C.

(5) Reinstall dial mounting bracket, securing the P-90D054 guard assembly mounting bracket under the right-hand dial mounting screw (Fig. 5).

(6) Reinstall housing.

4. MAINTENANCE

4.01 Maintenance of the 2702B telephone sets is limited to replacing defective components and burnishing or adjusting switch contacts.

4.02 Housings, handsets, and cords may be cleaned with a damp KS-2423 (or equivalent) cloth. *Do not use scouring cleaners or volatile solvents as these may damage finish.*

4.03 Refer to sections covering dials, handsets, cords, ringers, etc., for maintenance of these components.

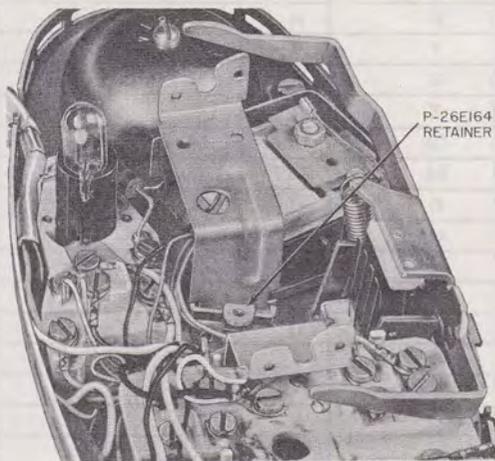


Fig. 4—Installing Terminal Board Retainer in PRINCESS Telephone Set



Fig. 5—Polarity Guard Mounted in PRINCESS Telephone Set

◆ TABLE A ◆

LINE AND RINGER CONNECTIONS

2702B TELEPHONE SET WITH D5AK MOUNTING CORD

WIRE OR LEAD		INDIVIDUAL OR BRIDGED †	RING PARTY ‡	TIP PARTY		
				NO IDENT GRD	IDENTIFYING GROUND	
					1000 OHMS	2650 OHMS
Inside Wire at Conn Block	Ring	R	R	R	R	R
	Tip	G	G	G	G	G
	Grd	Y	Y	Y	Y	Y
Dial Light Transformer	1	Y	Y	Y	Y	Y
	2	B	B	B	B	B
D5 AK Mtg Cord at Conn Block	(R)	R	R	G	G	G
	(G)	G	G	R	R	R
	(Y)	G	Y	Y	Y	Y
	(BK)	B	B	B	B	B
	(W)	Y	Y	Y	Y	Y
D5AK Mtg Cord at Set Terminals	(R)	L2	L2	L2	L2	L2
	(G)	L1	L1	L1	C	C
	(Y)	G	G	G	G	G
	(BK)	4†	4†	4†	4†	4†
	(W)	3†	3†	3†	3†	3†
Ringer Leads	(R)	K	K	K	K	K
	(BK)	G	G	G	G	G
	(S)	*	*	*	L1	*
	(S-R)	*	*	*	*	L1
Line Switch	(BR)	C	C	F	F	F
	(W) [S-W]	F	F	C	B	B
Strap from H	(BK) [S-BK]	A	A	A	*	*

* Insulated and stored.

† Terminals on lamp terminal block.

‡ Factory-wired for bridged or ring party.

() Current color code.

[] MD color code.

- Note: 1. To silence ringer permanently (for all classes of service), disconnect (R) ringer lead from K; insulate and store or use spare terminal.
2. When connecting the D5AK mounting cord leads for tip party identifying ground, use D-161488 connectors and M1W straps as required to extend conductor leads.

◆ TABLE B ◆

LINE AND RINGER CONNECTIONS

2702B TELEPHONE SET WITH D4BT MOUNTING CORD

WIRE OR LEAD		INDIVIDUAL OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GRD	IDENTIFYING GROUND	
					1000 OHMS	2650 OHMS
Inside Wire at Conn Block	Ring	R	R	R	R	R
	Tip	G	G	G	G	G
	Grd	Y	Y	Y	Y	Y
Dial Light Transformer	1	Y	Y	Y	Y	Y
	2	B	B	B	B	B
D4BT Mtg Cord at Conn Block	(R)	R	R	G	G	G
	(G)	G	G	R	R	R
	(Y)	Y	Y	Y	Y	Y
	(BK)	B	B	B	B	B
D4BT Mtg Cord at Set Terminals	(R)	L2	L2	L2	L2	L2
	(G)	L1	L1	L1	C	C
	(Y)	3†	3†	3†	3†	3†
	(BK)	4†	4†	4†	4†	4†
Ringer Leads	(R)	K	K	K	K	K
	(BK)	L1	3†	3†	3†	3†
	(S)	*	*	*	L1	*
	(S-R)	*	*	*	*	L1
Line Switch	(BR)	C	C	F	F	F
	(W) [S-W]	F	F	C	B	B
Strap from H	(BK) [S-BK]	A	A	A	*	*

* Insulated and stored.

† Terminals on lamp terminal block.

() Current color code.

[] MD color code.

Note: To silence ringer permanently (for all classes of service), disconnect (R) ringer lead from K; insulate and store or use spare terminal.

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TABLE C
POLARITY GUARD CONNECTIONS FOR
2702B TELEPHONE SETS
(D-180229 KIT OF PARTS)

WIRE OR LEAD	COLOR	REMOVE FROM NET.	CONNECT TO	
			NET.	TERM. BOARD*
Dial	BK	RR		3
Line Switch	BR ①	C		4
	W ②			
D5AK Cord	G ③			
Polarity Guard	R			3
	BK			4†
	G		RR	
	W		C	

* Component of polarity guard assembly.

† Connect to L2 of network when associated with 1A1 or 1A2 KTS.

- ① If wired for ring or bridged service.
- ② If wired for tip party (no identification ground).
- ③ If wired for tip party (with identification ground).

TABLE D
2702B TELEPHONE SET MODIFICATION FOR USE
WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEM

WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO	
		NET.	NET.	TERM. BLOCK
Line Switch	BR	C		3
	Y	L2	G	
	S	A	Insulate or store on spare term.	
Ringer	BK	G	L1	
Strap*			C ↔ L2	
Network	BK	Stored Location	A	

* M1W cord or equivalent. Do not use strap if polarity guard is to be installed.

NOTES:

1. SET IS SHOWN WIRED FOR BRIDGED SERVICE. FOR OTHER CLASSES OF SERVICE SEE TABLE A OR B.
2. GROUND MAY BE OMITTED IF NOT REQUIRED FOR SERVICE. NOT NECESSARY FOR PROTECTION OF DIAL LIGHT TRANSFORMER.
3. CONNECTIONS SHOWN ARE FOR D5AK MOUNTING CORD. IF D4BT MOUNTING CORD IS USED, REFER TO TABLE B.

- * INSULATED AND STORED.
- † LINE SWITCH OFF-HOOK SEQUENCE
- bc CLOSES
- de CLOSES
- ab OPENS
- fg OPENS

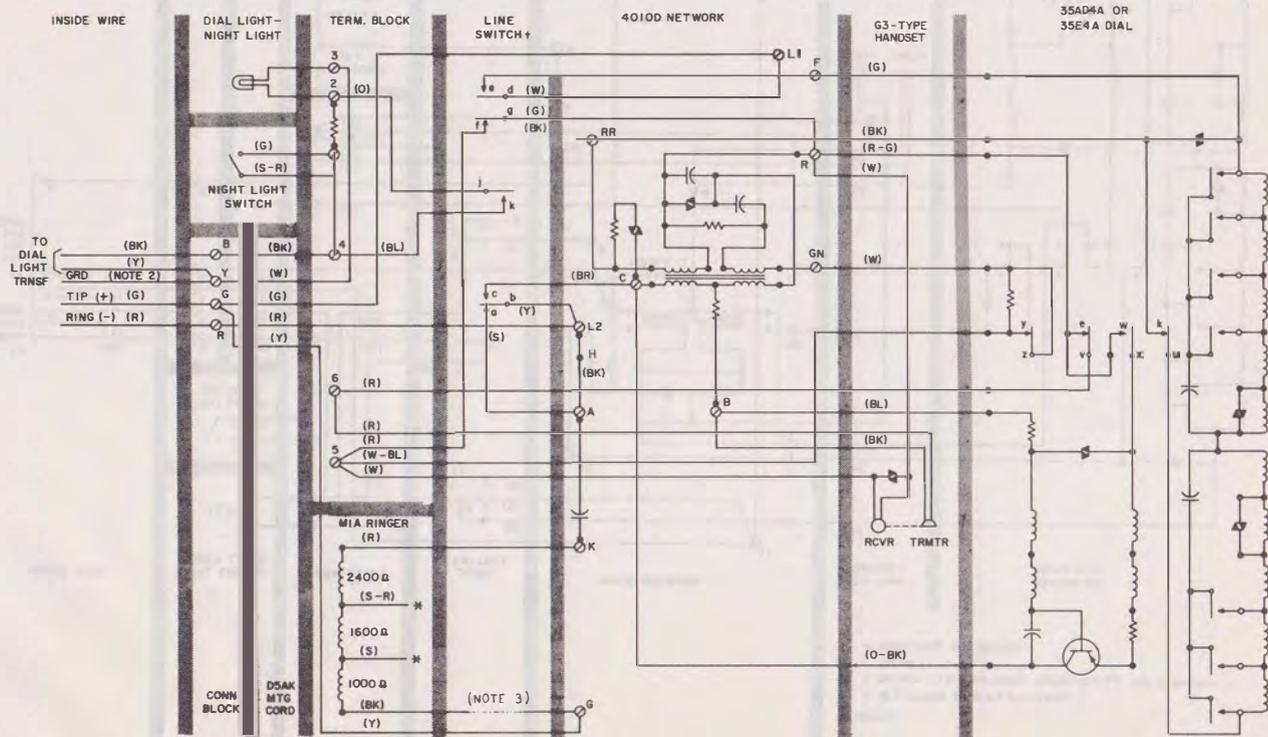


Fig. 6—2702B Telephone Set, Factory Wiring

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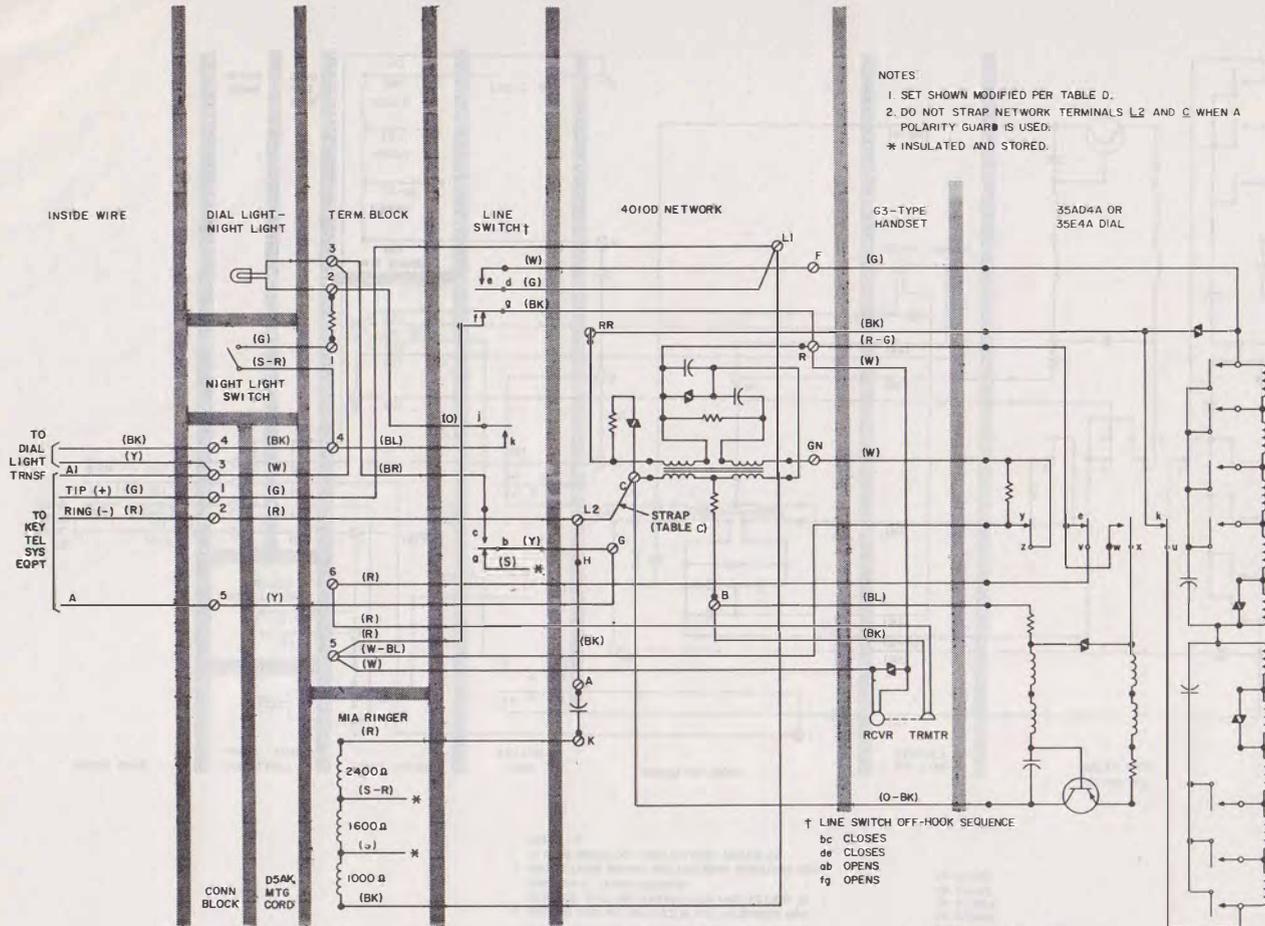


Fig. 7—2702B Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System