TELEPHONE SETS

2702, 2712, AND 2713 TYPES

IDENTIFICATION, INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This section covers PRINCESS® telephone sets equipped with 12-button TOUCH-TONE® dials (Fig. 1, 2, and 3).

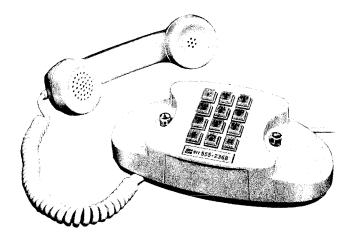


Fig. 1 - 2702B Telephone Set

2. IDENTIFICATION

PURPOSE AND APPLICATION

- 2702B individual or 2-party flat rate service (CO or key telephone system lines)
- 2702D message waiting indication (PBX)
- 2712B 2-line pickup (CO or key telephone systems), hold on one CO line
- 2713B 2-line pickup, hold on both lines (CO-nonkey system)

FEATURES

- Set design features are shown in Table A.
- Optional set features are shown in Table B.

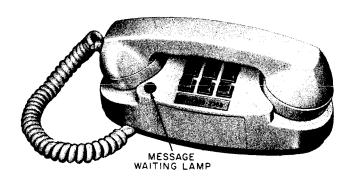


Fig. 2 --- 2702D Telephone Set

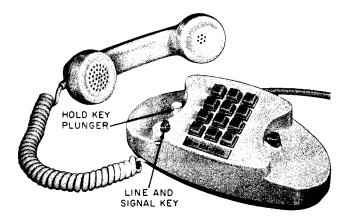


Fig. 3 - 2712B or 2713B Telephone Set

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TABLE A

DESIGN FEATURES

SET	DIAL/ NIGHT LAMP	MESSAGE WAITING LAMP	RINGER VOLUME/OFF- CONTROL	CO AND 1A KEY TELEPHONE SYSTEM LINES			
				INDIVIDUAL OR 2-PARTY FLAT RATE SERVICE	2-LINE PICKUP	2-LINE PICKUP WITH HOLD (CO LINES ONLY)	
2702B	•		•	•	• • • • • • • • • • • • • • • • • • •		
2702D	•	•	•	•			
2712B	•		*	•	•†		
2713B	•		*	•	•	•	

* Not equipped with internal ringer.

[†] Shop wired to provide hold on one CO line (for use with 1A home interphone).

		KEY TELEPHONE THOUT HOLD)	1A HOME	2A FARM INTERPHONE	3-TYPE SPEAKERPHONE	EXCLUSION OR RINGER/ EXTENSION CUTOFF	SIGNALING
SET	1-LINE PICKUP	2-LINE PICKUP	INTERPHONE				
2702B	•				•		
2712B		٠	٠	•	•	•	٠
2713B							*

TABLE B

OPTIONAL FEATURES

* Change mounting cord to provide signal leads.

COLOR

These sets are available in all standard colors. Refer to Section 500-120-100 for promoted colors.

OPERATING FEATURES

- *Message waiting lamp:* 2702D set visual signal, under control of a PBX attendant, indicates an uncompleted incoming call (Fig. 2).
- Line and signal key: 2712B and 2713B sets — permits line selection by turning, signaling by depressing (Fig. 3 and 6).
- Hold key plunger: 2712B set provides for mechanical hold on one CO line; 2713B set — provides for mechanical hold on either nonselected CO line (Fig. 3).

• Night light switch: allows dial lamp to be operated at reduced intensity (dial lamp illuminates dial at full intensity with handset off-hook) (Fig. 4).

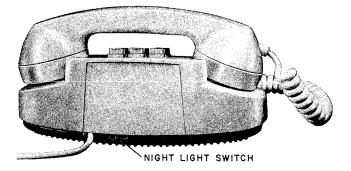


Fig. 4 — 2700 Series Telephone Set, Rear — Night Light Switch Location

ORDERING GUIDE

Set, Telephone, 2702B-* Set, Telephone, 2702D-* Set, Telephone, 2712B-* Set, Telephone, 2713B-* * Add appropriate color suffix.

TABLE C COMPONENT ORDERING GUIDE

COMPONENT	TELEPHONE SET					
COMPONENT	2702B	2702D	2712B	2713B		
REPLACEABLE:						
Cord, Handset	H4CJ-*			. I		
Cord, Mounting	D5AK-*	D5AK-*	D14L-*	D6AF-*		
Dial	35E4A					
Housing and Plunger Assembly	P-84D8-*	P-85H0-*	P-84	D9-*		
Key, Line			638B	638D		
Lamp, Dial	KS-19387, L1†					
Lamp, Message Waiting		KS-16893, L1				
Retainer, Number Card	P-25E803					
Ringer	М	1A				
Set, Hand	G3AR-*					
Socket, Dial Lamp	KS-19240, L2†					
OPTIONAL:			······································			
Kit of Parts (Polarity Guard)	D-180229‡					
Transmitter			664C§			
ASSOCIATED:						
Transformer (Dial Lamp)	2012A (or equivalent)					
Transformer (Interphone Power)			2012A§			
Unit, Control			51A§			

* Add appropriate color suffix.

† Available as D-179919 kit of parts (containing dial lamp, socket and installation instructions).

‡ Consists of P-90D054 guard assembly, P-21F675 terminal board assembly, P-26E164 retainer, and P-43A392 screw. The P-90D054 guard assembly may be ordered separately for 2702D sets and 2712B sets equipped with 664C transmitter.

§ For use with 1A home interphone.

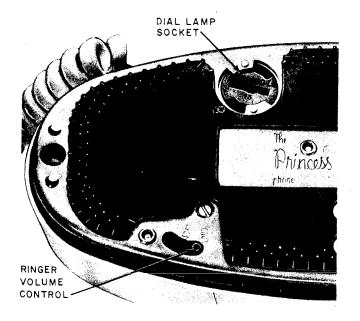


Fig. 5—PRINCESS Telephone Set, Partial Bottom View

• *Ringer volume control:* provides manual control of ringer volume (Fig. 5).

3. INSTALLATION

3.01 Planning

- (a) 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.
- (b) 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. 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 25foot mounting cord because the added resistance may result in decreased illumination.

3.02 Installing

(a) Normal installation — in accordance with standard practices for desk-type telephone sets.

(b) *Portable installation* — refer to appropriate section in Division 461 for selection of appropriate jacks and plugs for these sets.

(c) External ringer — install an E1-type ringer, when required, for 2712- or 2713type telephone sets.

(d) **664C** transmitter (2712B set — optional) — refer to appropriate connection and maintenance section in Division 512 (1A home interphone).

- (e) **Polarity guard (optional)** install the D-180229 Kit of Parts as follows:
 - 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. 7).
 - (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 in accordance with connections shown in appropriate connection section.
 - (5) Reinstall dial on mounting bracket, securing the P-90D054 guard assembly mounting bracket under the right-hand dial mounting screw (Fig. 8).

(6) Reinstall housing.

Note: The P-21F675 terminal board and P-26E164 retainer, furnished with D-180229 Kit of Parts, are not used in sets equipped with message waiting lamp or home interphone transmitter (2702D and 2712B sets). The 2702D set has spare terminals 3 and 4

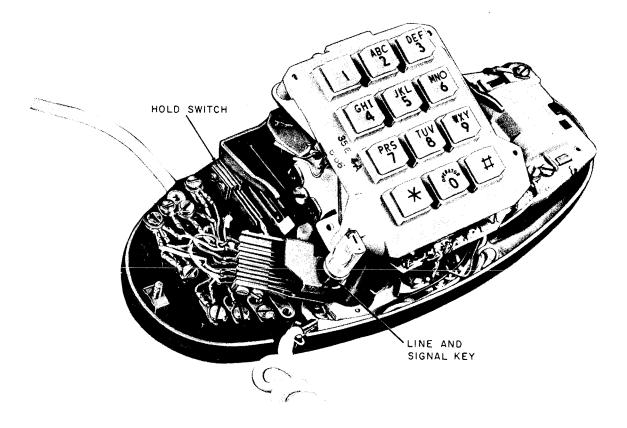


Fig. 6 — 2713B Telephone Set, Housing Removed (2712B set is similar in appearance)

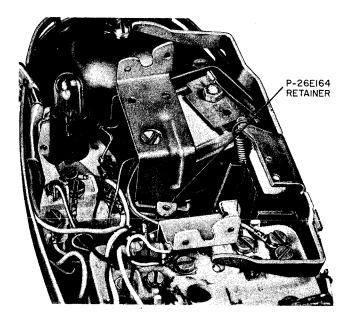


Fig. 7 — Installing Terminal Board Retainer in PRINCESS Telephone Set

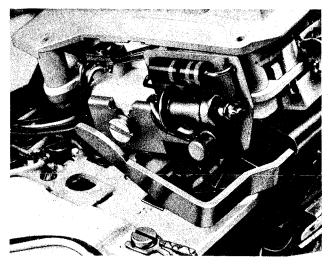


Fig. 8 — Polarity Guard Mounted in PRINCESS Telephone Set

on the message waiting lamp terminal board to facilitate connecting the polarity guard (Fig. 9). Use D-161488 connectors (2) to connect polarity guard in 2712B sets equipped with home interphone transmitter.

4. MAINTENANCE

4.01 Maintenance of the 2700-type telephone sets is limited to replacing defective com-

ponents 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.

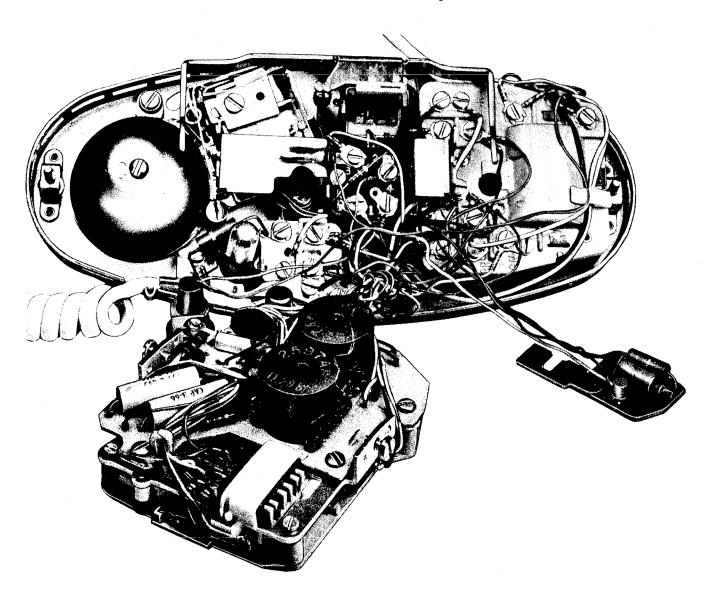


Fig. 9 — Polarity Guard Installation in 2702D Telephone Set