

## TELEPHONE SETS

### 701, 702 AND 711 TYPES

#### IDENTIFICATION AND ASSEMBLY OF PARTS

##### 1.00 INTRODUCTION

1.01 This section covers the 701B and D, 702B and D, and the 711B telephone sets. These telephone sets are referred to as PRINCESS sets.

1.02 This section is reissued to:

- Add piece part information
- Add information on the 702-type telephone set

1.03 Due to extensive changes marginal arrows have been omitted.

1.04 The 702B (Fig. 12) and 702D telephone set photographs are of shop models only and will have slight changes from the actual production sets.

##### 2.00 GENERAL

2.01 These common battery desk-type telephone sets are equipped with a lamp to illuminate the dial when the handset is removed. In addition this lamp acts as a night light under the control of a switch. The 701B and 702B telephone sets

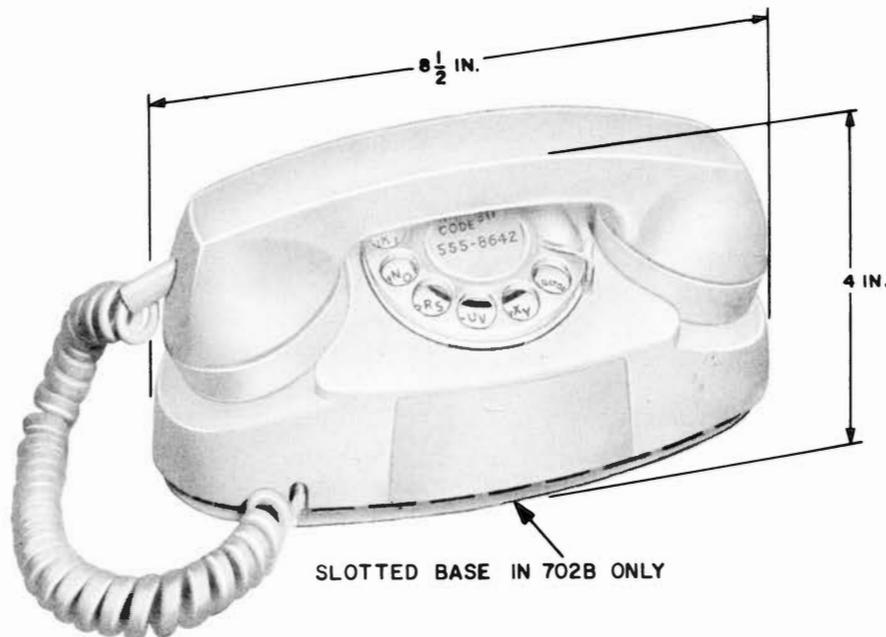


Fig. 1 - 701B and 702B Telephone Set

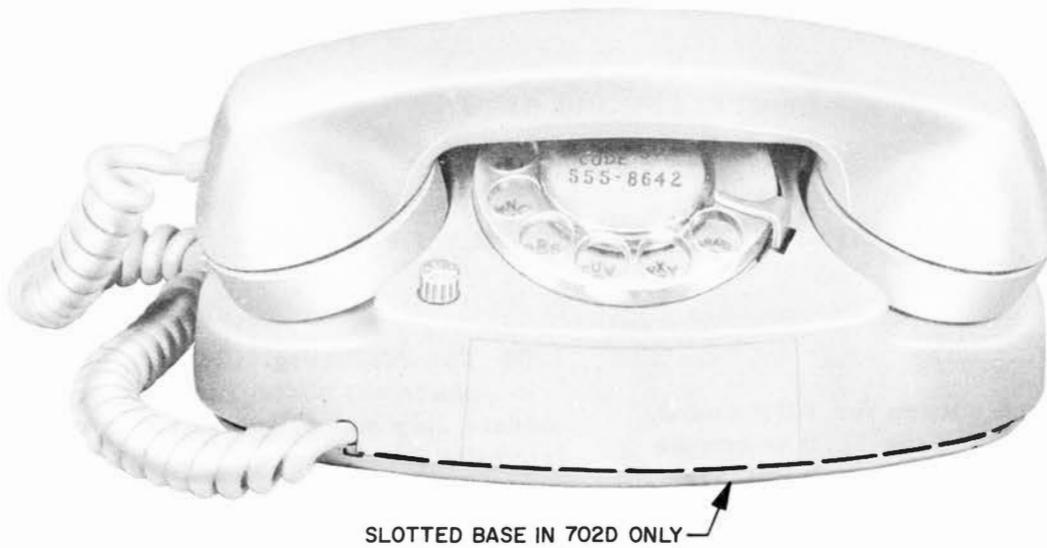


Fig. 2 - 701D and 702D Message-Waiting Telephone Set

may be rewired for use with 1A1 key telephone systems with A lead control. This requires wiring changes within the set.

2.02 The 702-type telephone set contains an internal ringer. It is designed to be used for the same services as the 701-type telephone set. An inductor or weight will not be necessary for this set.

2.03 The 701B or the 702B telephone set (Fig. 1) is furnished wired for individual and 2-party flat-rate service.

Changes may be made for other services as follows:

- For tip-party, message-rate, and flat-rate service with automatic ticketing, zone registration, and automatic message accounting, a conductor is moved to different terminal as shown in the section on connections. A 1610A or 1635A inductor is installed in the base of the 701-type telephone set for tip-party identification. (See Fig. 7, 8, and 9.)

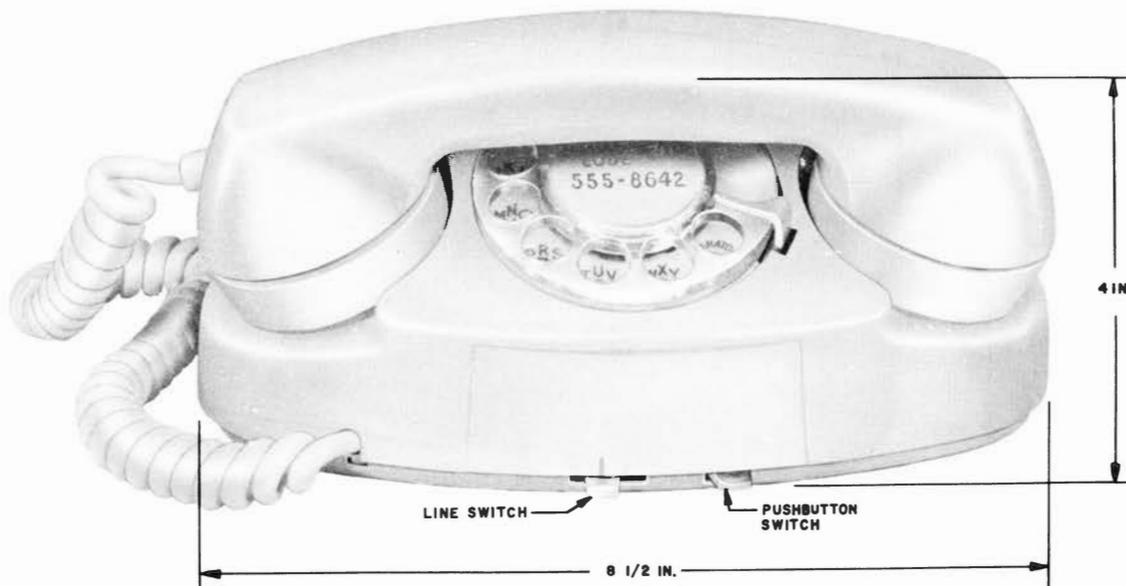


Fig. 3 - 711B Telephone Set

2.04 The 701D and 702D telephone sets are the same in design and circuitry as the 701B and 702B with the added feature of a message-waiting lamp. (See Fig. 2.) These sets are intended for use in hotels and motels which are provided with the associated message-waiting equipment.

2.05 The 711B telephone set (Fig. 3) is furnished wired for 2-line pickup, exclusion, and signaling service. Wiring changes are made to provide additional services:

- Use with 1A home interphone
- Use with 2A farm interphone
- Use with speakerphone systems

2.06 See section pertaining to the respective system for specific changes required.

2.07 The 700-type telephone sets are available in the following colors:

White (-58), Rose pink (-59), Light beige (-60), Aqua blue (-62), Turquoise (-64).

3.00 DESCRIPTION

3.01 Components of the 700-type telephone sets are shown in Table A and Fig. 13. Descriptions of these items may be found in the appropriate sections.

3.02 The transmission circuit for the 700-type telephone set is the same as for the 500-type set.

3.03 The 8-type dial used in the 700-type set has a translucent number plate which is indirectly lighted by the dial lamp. (See Fig. 13.) This lamp operates when the handset is removed or the night light switch is operated. Current for the dial lamp is furnished by a 2012A transformer.

TABLE A

Components and Associated Apparatus For 700-Type Telephone Set

Type Set	Mounting Cord	Ringer	Housing*	Plunger	Weight *	Message-Waiting Lamp	Identification Coil	Tube For Polarized Ringing
701B	D6AB		P-81M200	P-13E938	P-15E719 (Spring P-24E510) (Insulator P-25E307)	KS-16893, L1	1610A or 1635A Inductor	425A or 426A
701D			P-81P200					
702B	D5AK	M1A	P-89A800	P-24E214		KS-16893, L1		425A or 426A
702D			P-89A900					
711B	D14H		P-81K300	P-13E938 P-12E557				

Note: The following components are common to all sets:

- Dial, 8A
- Dial lamp, GE No. 259
- Dial lamp socket, KS-19240, L1
- Mail-out package for dial lamp, Kit D-179919
- Hand set, G3AR
- Handset cord, H4CJ

\*The 00 digits of these part numbers must be replaced by the code number corresponding to the color desired. Example: For white, change P-81M200 to P-81M258 housing.

\*The D-179924 kit contains a weight, spring, and insulator.

3.04 The fingerwheel of the 8A dial uses the standard station number card as covered in the section entitled Station Number Cards and Holders.

3.05 A slide switch located in the base of the set, at the rear, controls the night light circuit. (See Fig. 13.) This circuit provides a steady, reduced illumination of the dial.

3.06 The lamp socket assembly, with the lamp, is easily removed through the base of the set. It is not necessary to open the set for lamp replacement. (See Fig. 13.)

3.07 The P-15E719 weight is designed to reduce sliding of the 701B and 701D telephone sets on smooth surfaces during dialing. To install weight:

1. Dress all leads on the terminal block so that the spade tips fall wholly within the boundaries of the block.
2. Place P-25E307 insulator over terminal block and open end of insulator toward center of telephone set. (See Fig. 4.)
3. Funnel P-15E719 weight over insulator making sure weight goes into position resting flat on base of telephone set. (See Fig. 5.)
4. P-24E510 spring should be inserted between weight and base of telephone set. (See Fig. 6.)

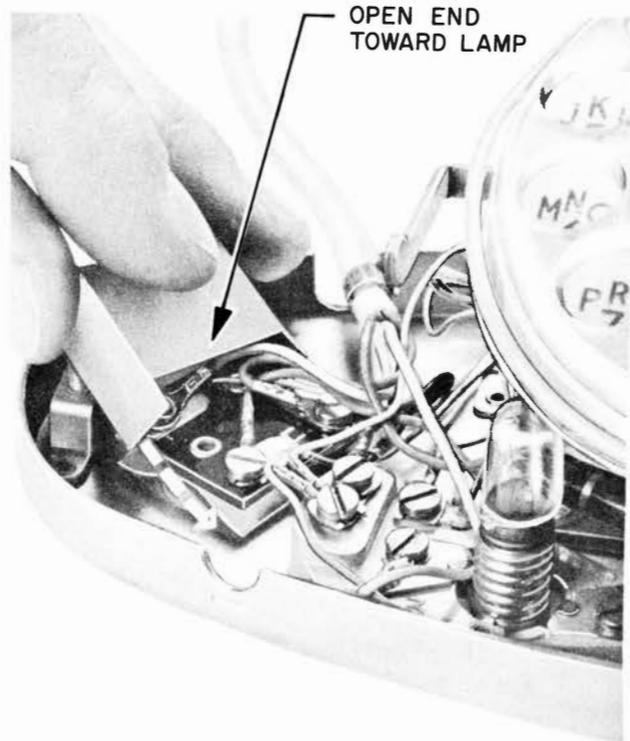


Fig. 4 - Placing of P-25E307 Insulator



Make sure that no wires are caught between the weight and base of set.

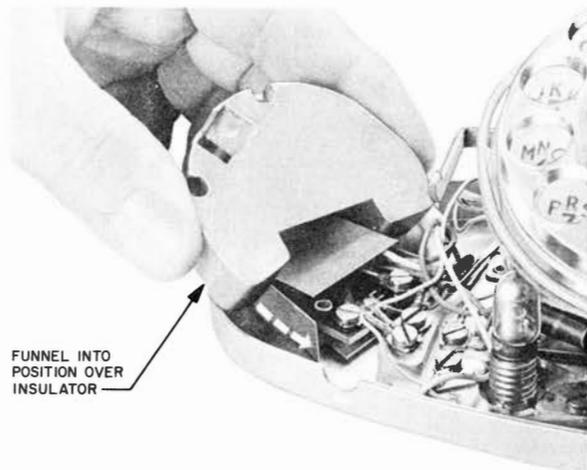


Fig. 5 - Placing of P-15E719 Weight



Fig. 6 - Location of Cold Cathode Tube in 701B Telephone Set

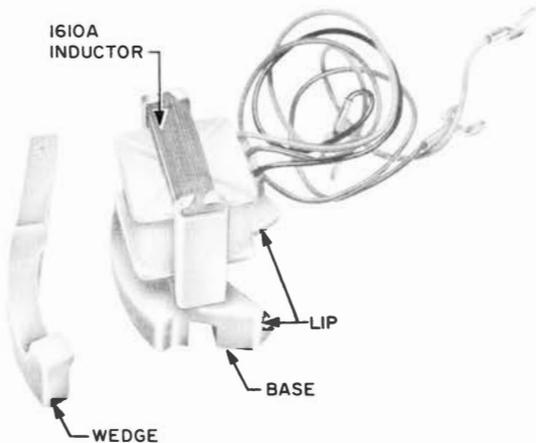


Fig. 7 - 1610A Inductor

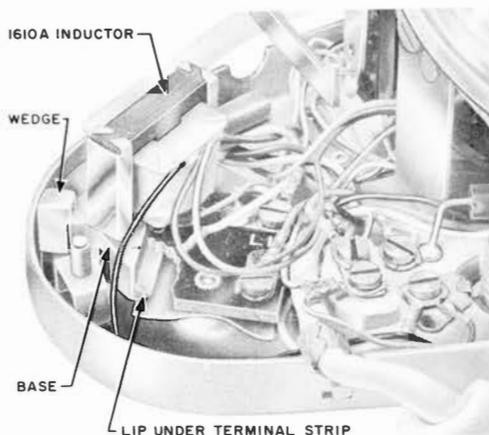


Fig. 8 - Location of 1610A Inductor

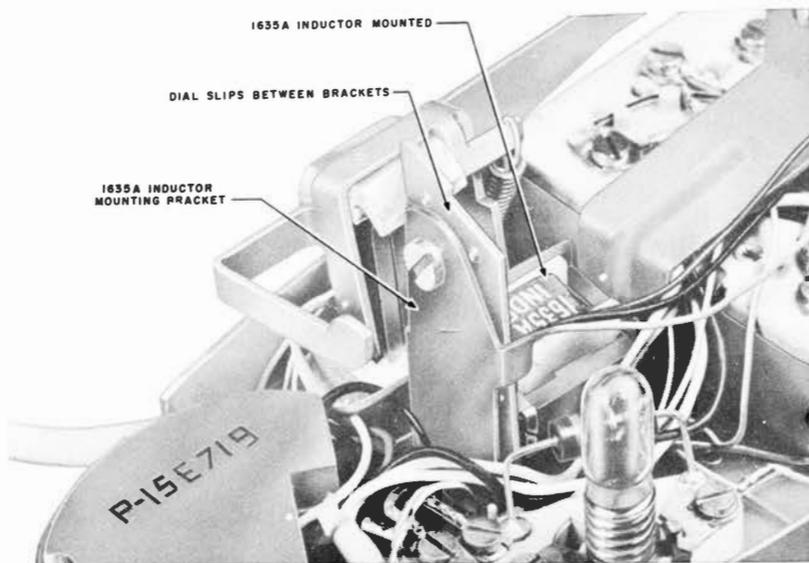


Fig. 9 - 1635A Inductor Mounted in 701B Telephone Set

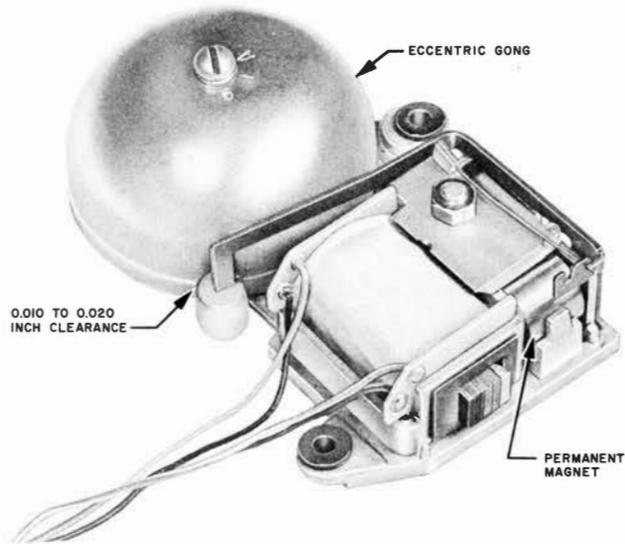


Fig. 10- M1A Ringer

3.08 Tip-party identification on a 701B telephone set can be provided with a 1610A or a 1635A inductor. The 1610A inductor (Fig. 7 and 8) has been replaced

by the 1635A inductor (Fig. 9) to allow space for the P-15E719 weight. Inductor terminations are covered in the section entitled Telephone Sets - 701B, Connections.

3.09 The 702-type telephone set is equipped with an M1A ringer. (See Fig. 10.) It has a single tapped winding arranged so the ringer can be used for bridged 2-party flat or message rate, and automatic ticketing service. It contains a single gong with a resonator and an adjustment arm. Fig. 11 shows the ringer with gong and resonator removed.

3.10 Fig. 13 shows the 711B telephone set minus the handset and housing. It points out location of other components and is a reference for Table A.

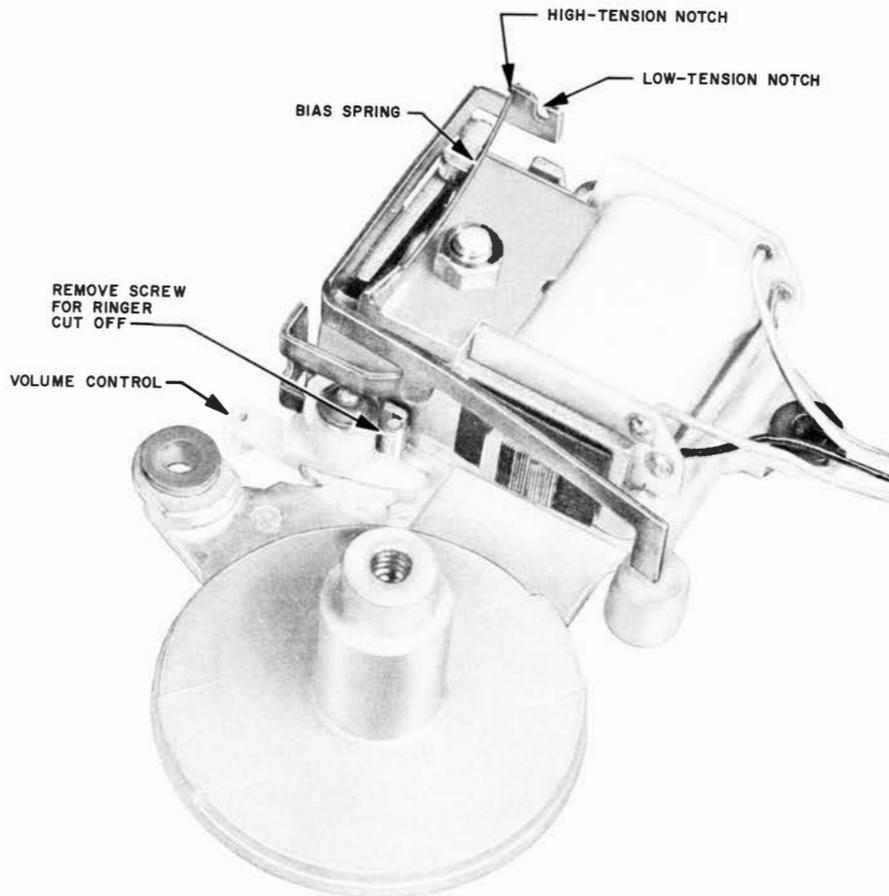


Fig. 11 - M1A Ringer, Gong and Resonator Removed

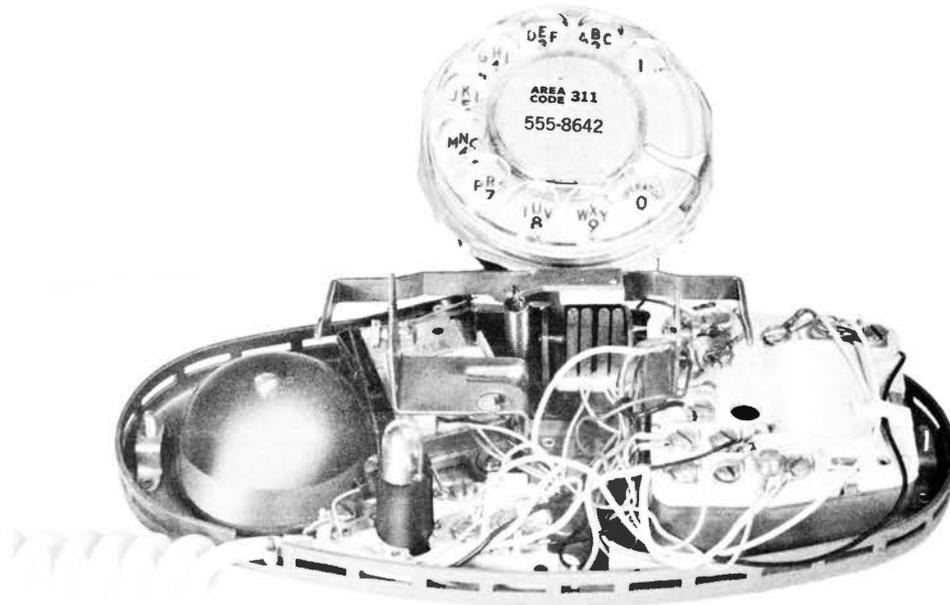


Fig. 12 - 702B Telephone Set

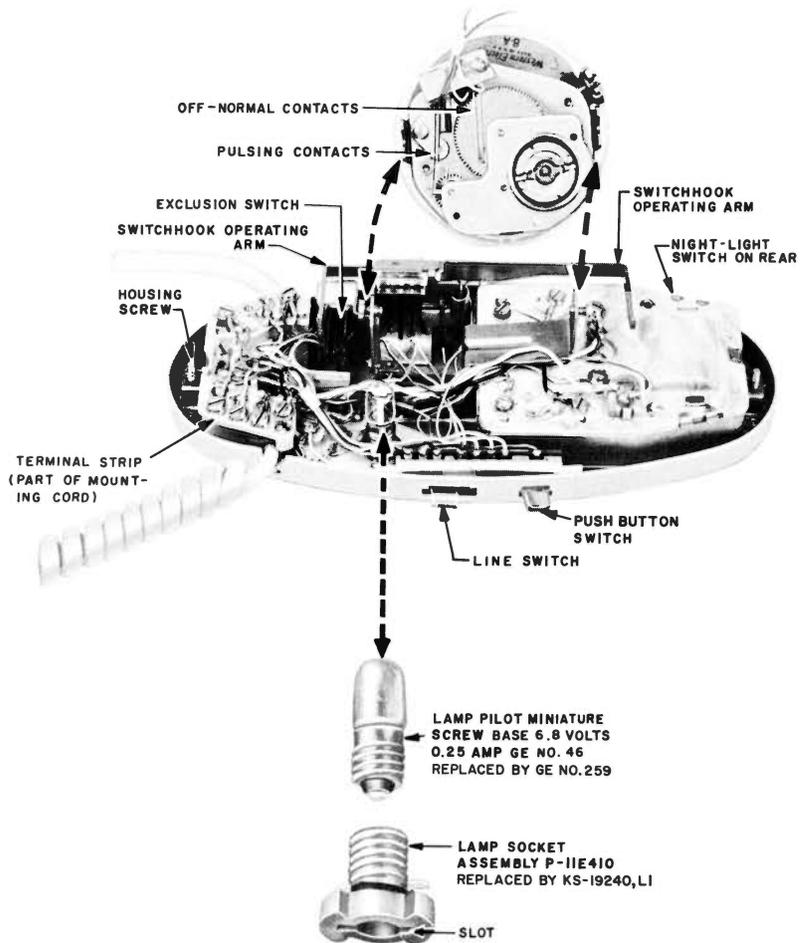


Fig. 13 - 711B Telephone Set with Dial and Socket Removed