

**TELEPHONE SETS**  
**701, 702, AND 711 TYPES**  
**MAINTENANCE**

**1.00 INTRODUCTION**

**1.01** This section is reissued to:

- Include the 702-type telephone set.
- Add piece part information.

**1.02** Circuit diagrams are provided in the section entitled Telephone Sets — 701B, 701D, 702B, 702D, or 711B Types, Connections.

**2.00 GENERAL**

**2.01** Maintenance of the PRINCESS telephone set is limited to replacement of a few components (Table A), and burnishing or adjustment of certain contacts.

**2.02** A careful visual inspection may disclose broken, cracked, or worn components which should be replaced.

**TABLE A**  
**COMPONENTS WHICH MAY BE REPLACED**  
**FOR MAINTENANCE REASONS**

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)		1610A or 1635A Inductor	425A or 426A
701D			P-81P200		(Insulator P-25E307)			KS-16893,L1
702B	D5AK	M1A	P-89A800	P-24E214				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, G.E. No. 259
- Dial-lamp socket, KS-19240, L1
- Mail-out package for dial lamp, Kit D-179919
- Handset, G3AR
- Handset cord, H4CJ

\* The 00 digits of these part numbers must be replaced by the code number which corresponds to the color desired. Example: Change P-81M200 to P-81M258 housing.

† The D-179924 Kit, containing weight, spring, insulator, and instructions is available.

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*When the colored parts are replaced, make certain that the new parts match the color of the remaining parts of the set. If unable to match parts, replace entire set.*

### 3.00 TRANSMISSION

**3.01** The transmission quality of 701-, 702-, and 711-type telephone sets is the same as that of the 500-type set.

**3.02** If the trouble is in the telephone set, check the following points:

- Worn open or noisy cords
- Defective network
- Loose connections
- Dirty or improperly adjusted switchhook or dial contacts
- Defective transmitter or receiver unit

**3.03** With the exception of burnishing of switchhook or dial contacts and slight adjustments of switchhook contacts, trouble should be cleared by substitution of affected part.

### 4.00 DIAL

**4.01** Maintenance of 8A dial should be limited to fingerwheel or number plate replacement, contact burnishing, or cleaning of exposed surfaces. Description of procedures can be found in section entitled Station Dials, Maintenance.

### 5.00 DIAL LIGHT

**5.01** Slide switch for night-light operation is located on rear of base. When handset is removed, dial light increases in brilliance for dialing purposes.

- With switch operated to the left and handset in place, night light (reduced illumination) is obtained.
- With switch operated to the right, lamp will light only when handset is removed.

**5.02** The screw-in-type dial lamp has been superseded by a bayonet-type lamp. This requires a new socket assembly. The new lamp should be used whenever the old lamp or assembly must be replaced.

**5.03** If lamp fails to operate, check the following points:

- Defective or unplugged transformer
- Loose connections
- Defective lamp
- Commercial power failure
- Dirty or improperly adjusted switchhook contacts
- Defective slide switch

**5.04** If illumination is poor, be certain that the length of JKT inside wire between transformer and telephone does not exceed the length specified in the section entitled Station Transformers. Only one dial light is allowed for each 2012A transformer.

**5.05** For limitations and multiple installations, refer to the section entitled Station Transformers.

### 6.00 RINGER (702B and 702D ONLY)

**6.01** When the ringer fails, be sure that the armature moves freely and that adjacent wires do not interfere with movable parts.

**6.02** This ringer contains a single winding with two tapped leads for party identification. These leads are furnished taped and stored. Be sure that these ends are properly protected.

**6.03** For further information on ringer, refer to the section entitled Ringers — M and N Types, Maintenance.

### 7.00 HOUSING AND BASE ASSEMBLY

**7.01** Housings and plungers can be readily removed and cleaned. If defective or marred, they should be replaced. (See Table A.)

- 7.02 The 702-type telephone set does not require the weight, inductor, or E1A ringer.
- 7.03 To prevent slippage of the 701-type telephone during dialing, a weight is installed

in the base of the set. An inductor is also designed to facilitate party identification. Methods for these operations are covered in the section entitled Telephone Sets — 701, 702, and 711 Types, Identification and Assembly of Parts.