

## TELEPHONE SETS 701, 702, AND 711 TYPES INSTALLATION

### 1.00 INTRODUCTION

1.01 This section covers the installation of 701-, 702-, and 711-type telephone sets. Typical installations are shown in Fig. 1, 2, and 3. Connections are shown in the appropriate section for each type telephone set.

1.02 This section is reissued to:

- Add information on installation of 702-type telephone set.
- Add information on installation of 1635A inductor.
- Add information on weight and retaining spring for 701-type telephone set.

1.03 Due to extensive changes marginal arrows have been omitted.

### 2.00 GENERAL

2.01 A 105- to 120-volt ac receptacle is required for the dial light transformer. This receptacle should be on a circuit that is not controlled by a switch. A 2012A transformer should be used for a single set. A 2A clamp (Fig. 1) is available to secure this transformer to the service outlet.

2.02 For proper illumination of the dial, the length of the wire between the transformer and the telephone set should not exceed 250 feet of standard inside wire. Do not use a 25-foot mounting cord because of added resistance. For multiple installations, see section entitled Station Transformers.

2.03 When a ringer is required, an E1A or F1A ringer should be installed with each 701- or 711-type telephone set. These ringers also serve

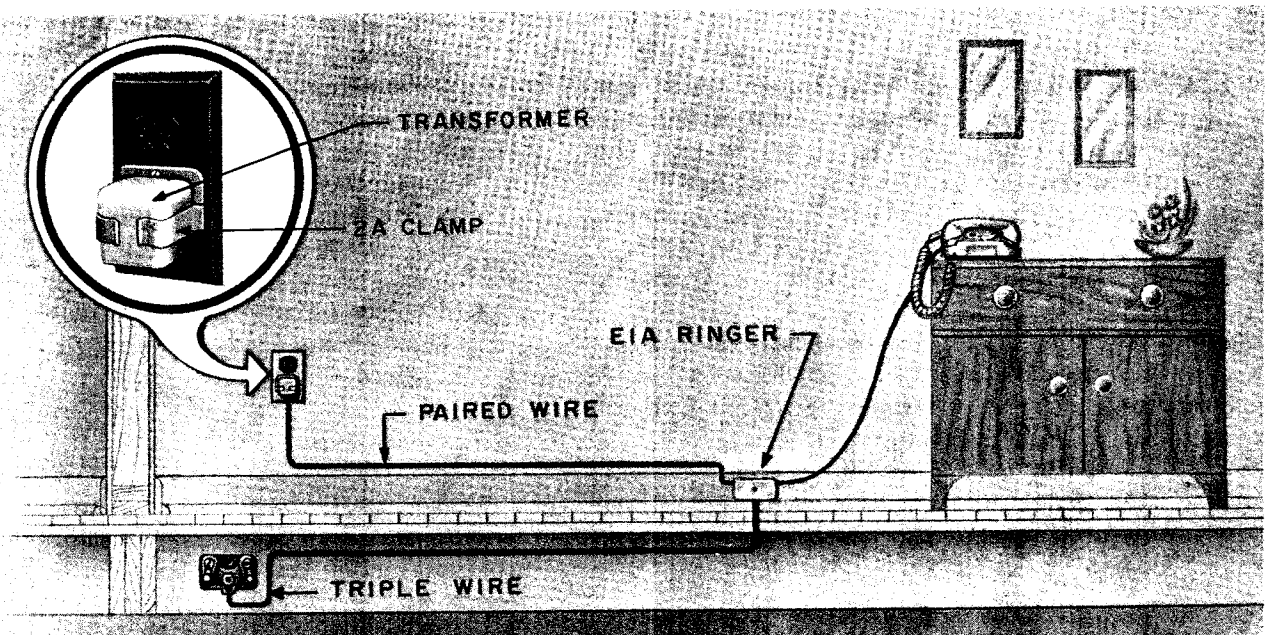
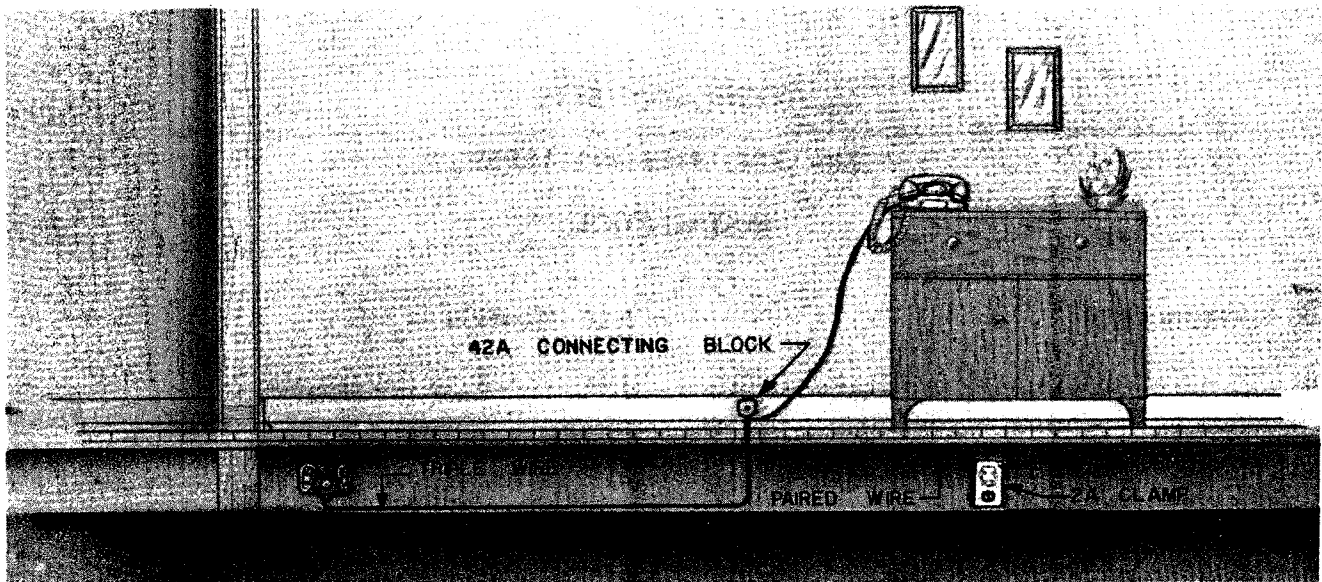


Fig. 1 — Typical Installation of 701B Telephone Set



**Fig. 2 — Typical Installation of 702B Telephone Set**

as a connecting block for the mounting cord. The 702-type telephone set is equipped with an internal ringer.

**2.04** Installation information for the E1A or F1A ringers is given in the appropriate section for the ringer involved.

**2.05** Use a 146A adapter when mounting an E1A ringer over a 63A bracket or on a standard electrical outlet box.

**2.06** At the request of the customer, the ringer may be omitted except when it is the only ringer on the line. Where no ringer is used, the mounting cord of the 701-type telephone sets should be terminated on a 42A connecting block, and the mounting cord of the 711B telephone set should be terminated on 44A connecting blocks.

**2.07** Where no ringer is used and tip party identification is required, a 1610A or a 1635A inductor shall be installed in the PRINCESS set as shown in Fig. 4, 5, 6, and 7.

**2.08** The inductor is ordered separately. Procedure for installing the 1610A inductor is as follows:

1. Remove housing from set.
2. Loosen dial and lay it aside to provide more working space.

3. Remove mounting cord stayhook from slot inside of set base.

4. Insert inductor in the position shown in Fig. 5 and 6, making certain that the lip of the inductor base is under the edge of the terminal strip.

5. After placing the inductor firmly against the terminal strip, insert the wedge between the side of the set base and the base of the inductor. This is most easily accomplished by placing the wedge in a position where the curvature of the wedge and set base coincide. Exert downward pressure on the wedge beginning at the end nearest to the switchhook assembly and continuing until the wedge is secured tightly in place.

6. Replace mounting cord stayhook in slot and connect the leads for the class of service desired.

7. Replace dial and housing.

**2.09** To install the 1635A inductor, follow steps 1 and 2 of 2.08. Then remove left screw from dial mounting bracket. Place inductor as shown in Fig. 7. Replace screw through hole in inductor bracket and connect leads. Replace the dial making sure the left dial mounting fork is between the two brackets.

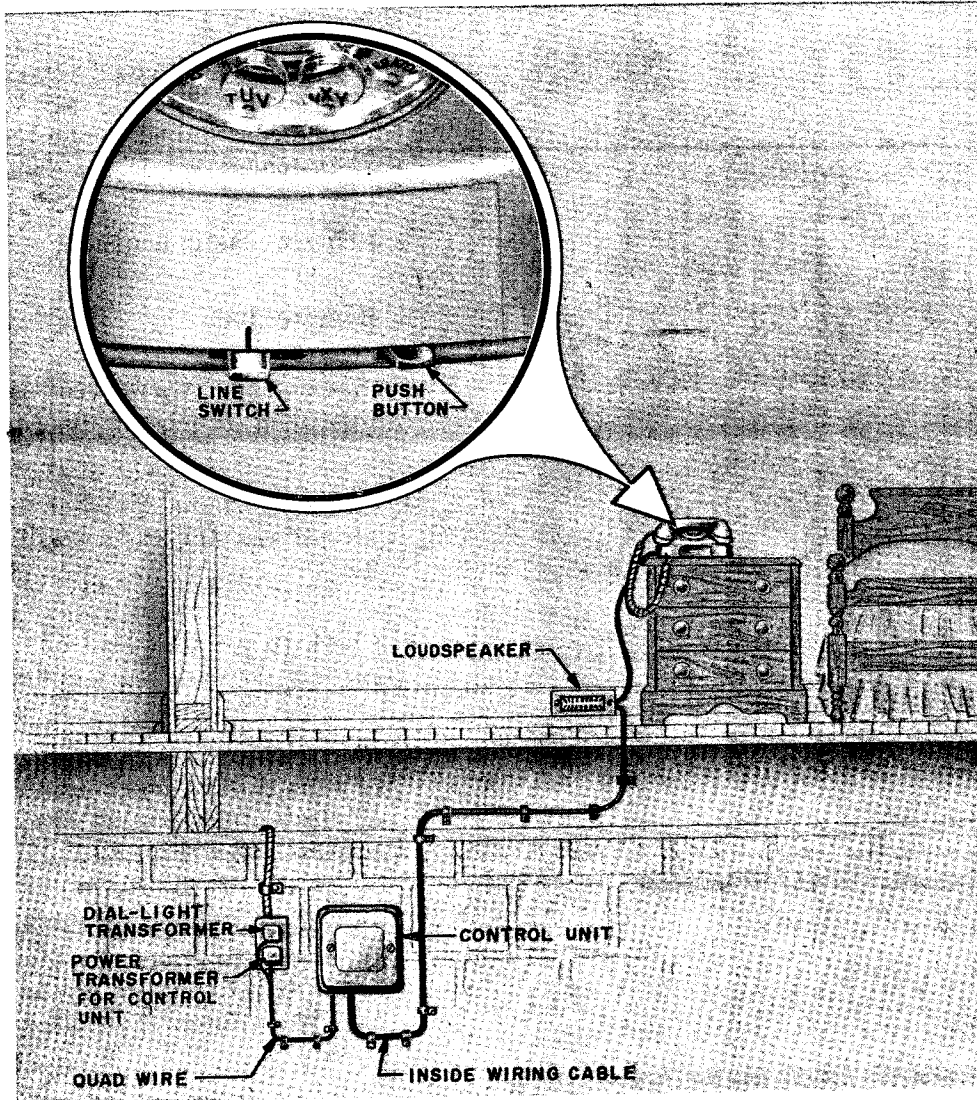


Fig. 3 – Installation of 711B Telephone Set As Used With Home Interphone System

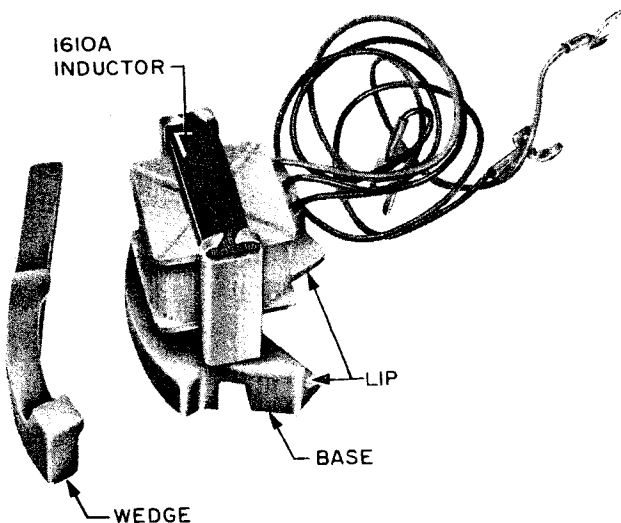


Fig. 4 – 1610A Inductor

2.10 Install a weight in 701B and 701D telephone sets to reduce sliding on smooth surfaces during dialing. A D-179924 kit, containing a weight, spring, and insulator is available. Dress all leads so that the spade tips fall wholly within the boundaries of the terminal block, and then place insulator. (See Fig. 8.) Funnel weight into position. (See Fig. 9.)



*Make sure that no wires are caught between the weight and base of set. Insert retaining spring as shown in Fig. 10.*

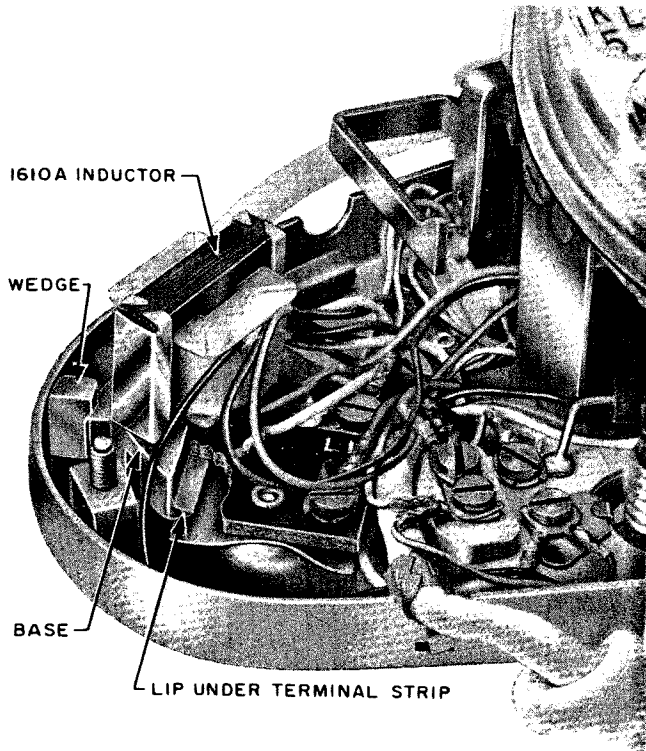


Fig. 5 - Location of 1610A Inductor

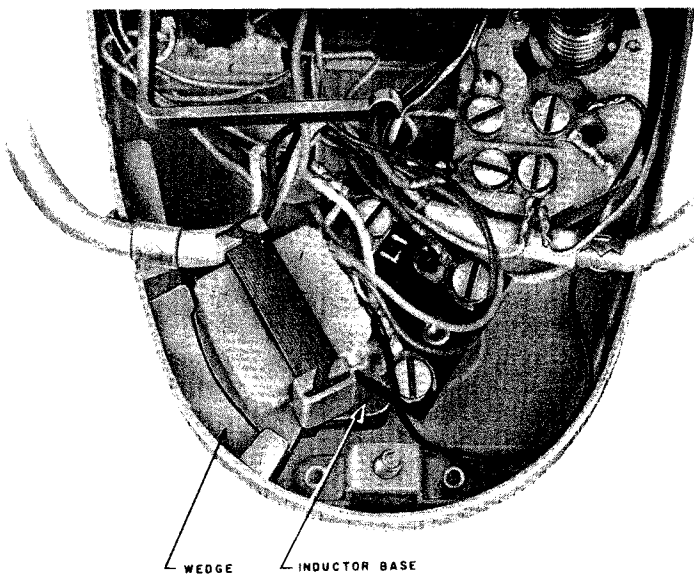


Fig. 6 - Top View Showing Location of Wedge

2.11 If 4-party selective or 8-party semiselective service is desired, a 425A or 426A cold cathode tube is installed in the base of the 701B or 702B telephone set in the following manner:

1. Remove plastic housing.
2. Remove dial.
3. Remove and discard the mounting screw furnished as part of the electron tube.
4. Redress terminal 2 end of the 27-ohm resistor and resistor lead toward night-light socket.
5. Check to see that lead on terminal end of resistor does not touch dial support bracket.
6. Place the tube in space below dial with dome of tube toward night-light socket and base of plastic tube bracket against dial support bracket. (See Fig. 10.)
7. If sufficient clearance for the dome of the tube was provided in Step 4 above, the lower end of the tube bracket base will drop into place forward of the switch assembly base.
8. Dress tube leads up and across tube between night light and dial support bracket.
9. Carefully replace the dial, redressing wires as required, so that the glass portion of the tube is *not* held firmly after the dial is secured in place.
10. A D-161488 connector assembly is required and must be ordered separately. Connect the leads from the tube as shown in the section entitled 701B Telephone Sets, Connections or 702B Telephone Set, Connections.
11. Check to see that no wires interfere with the operation of the switch arms, and replace the plastic upper housing.

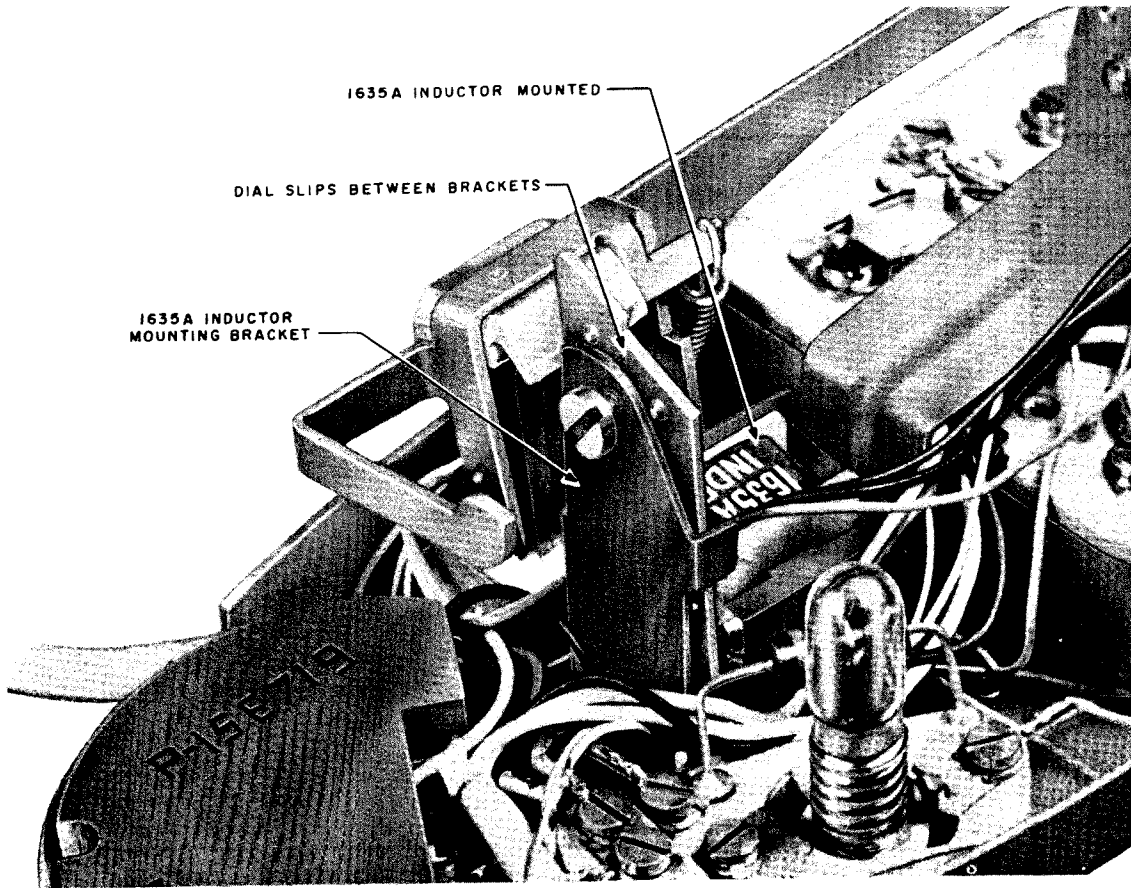


Fig. 7 – 1635A Inductor Mounted in 701B Telephone Set

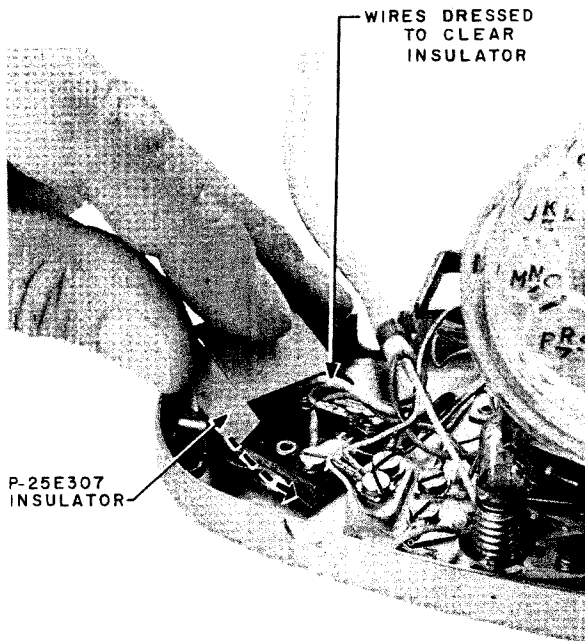


Fig. 8 – Placing Insulator over Terminal

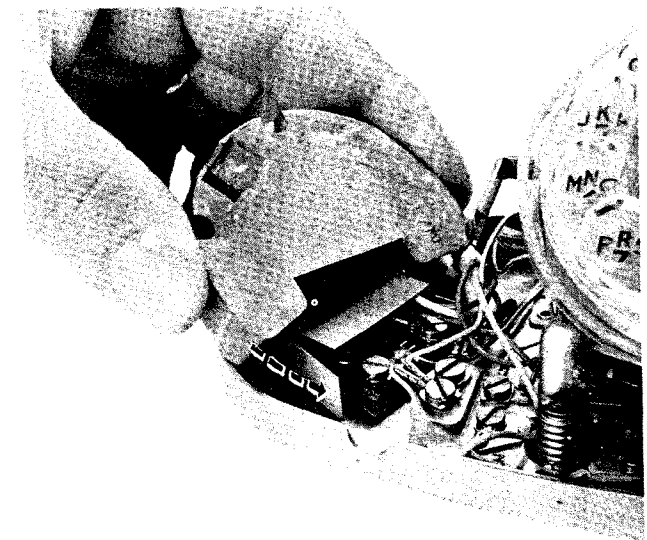


Fig. 9 – Funneling Weight into Position

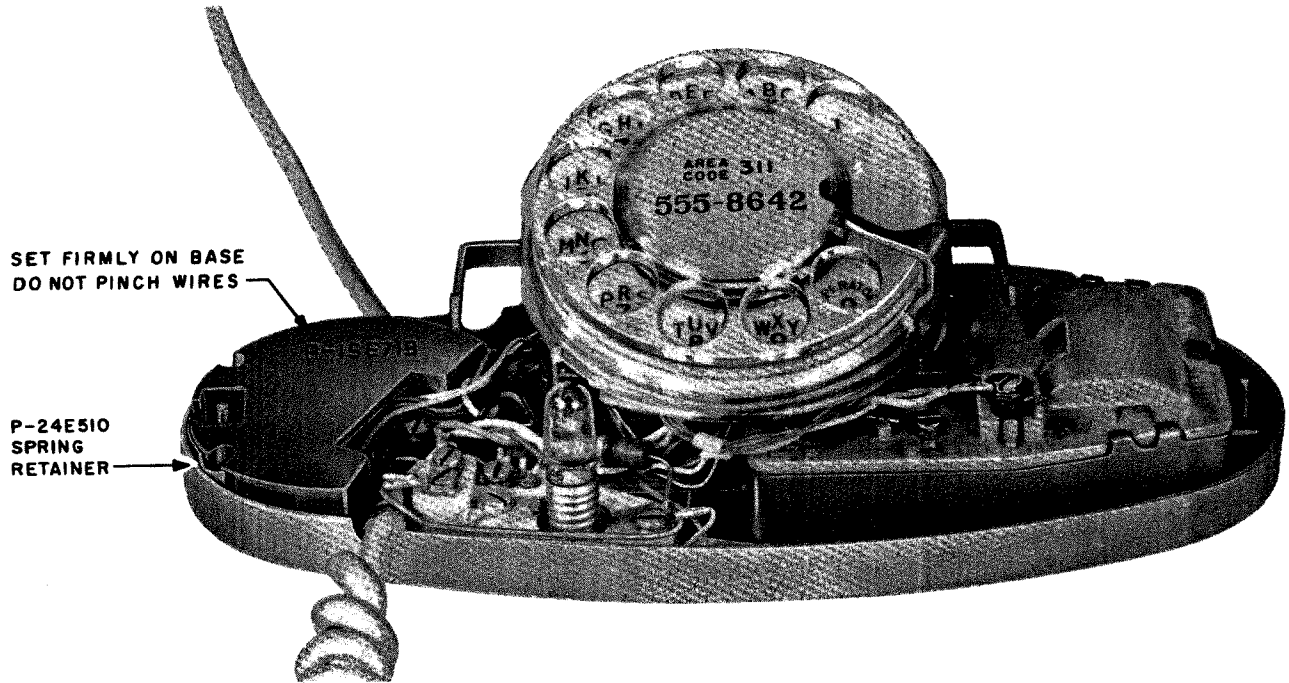


Fig. 10 – P-15E719 Weight Mounted in 701B Telephone Set

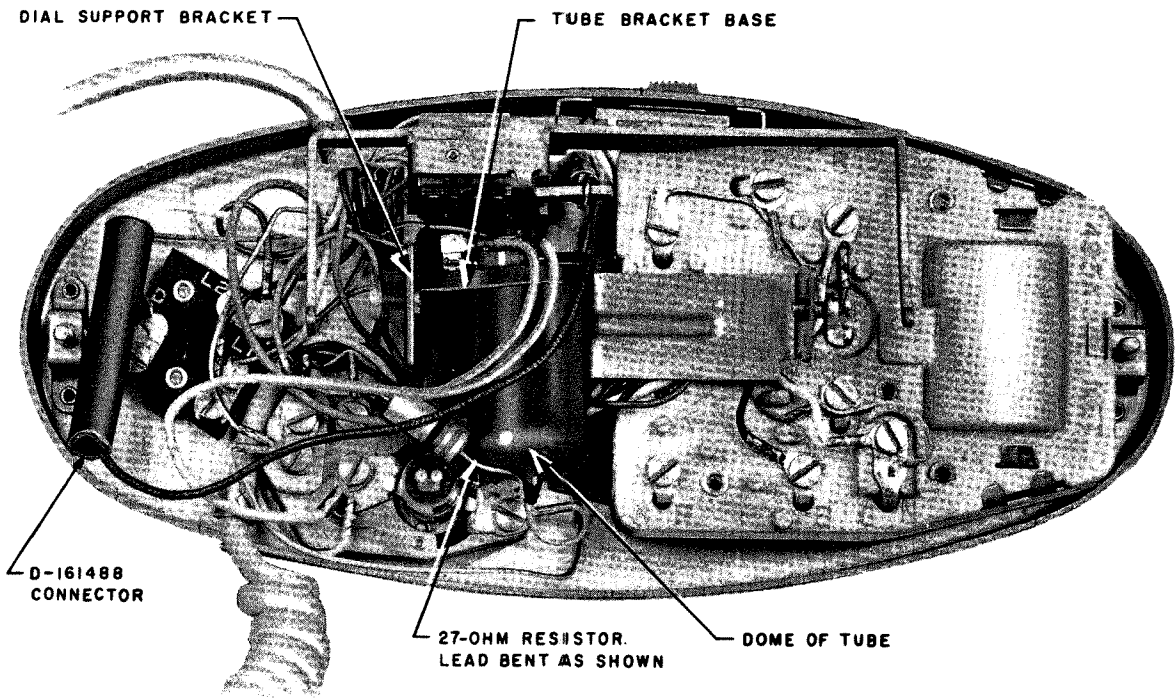


Fig. 11 – Location of Cold Cathode Tube in 701B Telephone Set

**3.00 INSTALLATION**

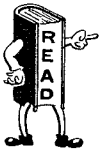
**3.01** Insofar as possible, be guided by the customer's wishes in placing apparatus. However, consider the following:

- Safety for yourself, customer, and maintenance personnel.
- Availability of power outlet for transformer.
- General appearance of installation.
- Location of telephone set so ringer volume is adequate for area.

**4.00 PORTABLE INSTALLATION**

**4.01** For portable installation of the 701- or 702-type telephone set, arrange as follows:

- Replace 6-conductor mounting cord with 4-conductor cord terminating in 283B plug.
- Extend tip, ring, ground, and transformer leads to 404B jack.



*On 2-party tip stations requiring ground identification, be sure that jacks and plugs are installed in accordance with the section entitled **Jacks and Plugs**.*

**4.02** Where only one dial-light telephone set is installed, one 2012A transformer may be multiplied to two or more jacks.

**4.03** Where two or more dial-light telephone sets are installed, refer to section entitled Station Transformers.

**5.00 SIX-POINT CHECK**

As an aid in satisfying the customer and providing trouble-free service, the following six points should be verified before leaving the job:

- Adequate telephone service on premises.
- Proper operation of all station equipment.
- Customer's understanding of proper use of equipment.
- Customer's understanding of feature controls such as ringer adjustments, light, switches, line switches, etc.
- Correct telephone number on station number card.
- Over-all appearance of installation.