

## TELEPHONE SETS

### 700 SERIES

#### MAINTENANCE

#### 1.00 INTRODUCTION

1.01 This section covers the 701B telephone set.

1.02 Replacement part information may be found in the C Section covering identification and assembly of parts.

1.03 Circuit diagrams are provided in the C Section covering connections.

#### 2.00 GENERAL

2.01 A visual check of telephone sets may disclose cracked, broken, or worn components.

- If colored parts are replaced, avoid mismatch of colors. If necessary, replace the set.

2.02 Effective trouble analysis is important. A discussion with customer may determine:

- Particular set involved.
- Trouble on incoming or outgoing calls.
- If trouble is with a certain exchange or number.
- Specific nature of difficulty.

2.03 Before replacing telephone set believed to be defective, check that connections are correct, tight, and not touching other connections which could result in a trouble condition.

#### 3.00 TRANSMISSION

3.01 Listening and talking qualities of the 700 series are the same as those in the 500-type set.

- Originate a test call from set and check for proper operation.

- If set is dead or noisy, connect 1011B test set to line terminals (5 and 6) at ringer for a comparison check.

3.02 When trouble is traced to telephone set, check for:

- Cords cutting out.
- Dirty switchhook or dial contacts.
- Defective transmitter unit.
- Defective receiver unit.

3.03 If contact burnishing or part substitution does not correct condition, replace telephone set.

- Return defective sets through normal supply channel. (Do not wrap cords around set.)

#### 4.00 HOUSING ASSEMBLY

Switchhook plungers should operate without sticking or binding.

#### 5.00 8A DIAL

5.01 Maintenance on 8A dial should be limited to finger wheel replacement, contact burnishing, and cleaning exposed surfaces.

- Do not attempt to replace number plate.

5.02 Finger wheel is removed by inserting paper clip in the same manner as the 7-type dial.

5.03 Replace dial if other than above maintenance is indicated.

**6.00 DIAL LIGHT**

**6.01** Slide switch for night light operation is located on rear of base. Night light (reduced illumination) is obtained with switch operated to left and handset in place. When handset is removed, light increases in brilliancy for dialing purposes.

- With switch operated to right, lamp will light only when handset is removed.

**6.02** , Repair service attendant or desk man will inquire of customer reporting trouble whether the transformer is plugged in.

**6.03** When lamp replacement does not correct condition, check output of transformer with 1011B test set connected to transformer leads on ringer terminal strip.

- Transformer does not contain a fuse. It provides self-protection if output remains short-circuited.

**6.04** Dial light path is through switchhook contacts. Night light path is through resistor and slide switch.

**6.05** Reports of poor illumination may be due to overloading of the transformer such as:

- Excessive length of inside wiring from transformer. Satisfactory illumination can be obtained with as much as 150 feet of inside wire.
- More than one telephone set lamp on transformer.