

## J1A RINGER

### IDENTIFICATION AND MAINTENANCE

#### 1. GENERAL

**1.01** The J1A ringer (Fig. 1) is a single-coil, high impedance ringer, designed for use in the 525-type outdoor telephone set.

**1.02** This ringer is the same as the C4A ringer, except the coil, pole piece, armature, and core are protected to minimize the effects of moisture and corrosion.

#### 2. IDENTIFICATION

**2.01** The J1A ringer is equipped with one No. 54A and one No. 55A gong and a two position (low and high) bias spring.

**2.02** This ringer has an adjustable four-step volume control. It can also be cut off by bending the stop tab and moving the volume control wheel to a fifth position.

**2.03** The coil has two windings, with 1000 ohms between the slate and black leads and 2650 ohms between the red and slate-red leads making tip party identification connections possible (Fig. 2).

**2.04** The ringer is designed to operate in series with the ringing capacitor of the telephone set network.

#### 3. MAINTENANCE

**3.01** If the ringer fails to operate properly, check the following:

- (a) Volume control is not in OFF position.
- (b) Ringer coil is not open or shorted.
- (c) All leads are dressed away from movable parts of ringer.
- (d) All leads are tight and properly terminated.

(e) Permanent magnet and gongs are free from dirt and foreign material.

(f) Bias spring is correctly positioned.

(g) If ringer still does not operate properly, replace ringer.

**3.02** After completing work, obtain a ring for ringing tests according to local instructions. Check for bell tap while dialing.

**3.03** If bell taps with bias spring in low notch and ringer properly poled, move bias spring to high notch. Repeat ringer test. If ringer fails to operate properly, change ringer.

**3.04** If the ringer does not operate properly, due to long subscriber loop, place the bias spring in low tension notch (Fig. 1).

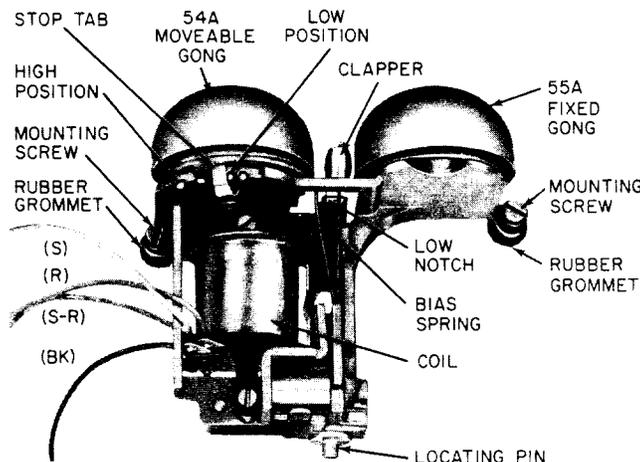


Fig. 1—J1A Ringer



Fig. 2—J1A Ringer, Schematic