

## H1-TYPE RINGER

### IDENTIFICATION AND MAINTENANCE

#### 1. GENERAL

1.01 This section is reissued to:

- Add information on the H1B Ringer
- Add Fig. 4
- Change title

#### 2. IDENTIFICATION

2.01 The H1-type ringer is a single-coil, high-impedance ringer with a two position bias spring adjustment. It is equipped with a single 54B gong and a bracket to mount a KS-8109 type or KS-20419L1 buzzer. The component parts are shown in Fig. 1 and 2.

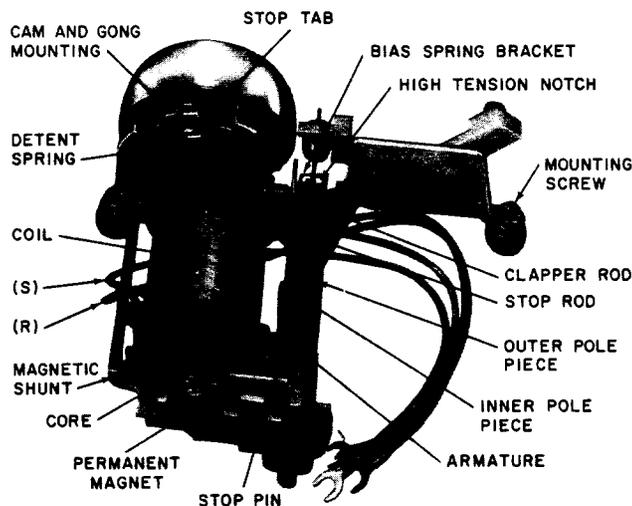


Fig. 2—H1A Ringer, Top View

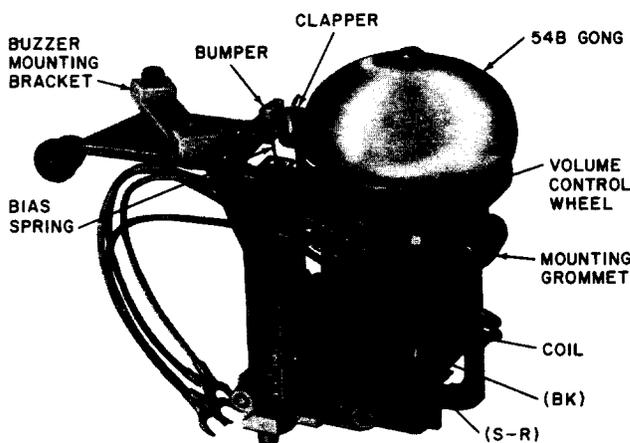


Fig. 1—H1A Ringer, Bottom View

2.02 The H1A and H1B ringers are identical except that the coil of the H1A ringer has a split winding terminated in four spade-tipped

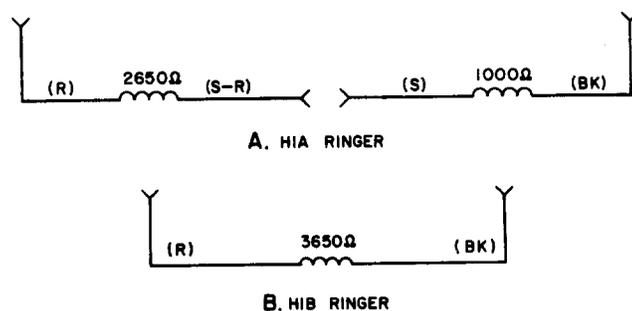


Fig. 3—H1-Type Ringer, Schematic

leads while the H1B has a continuous winding and only two leads (Fig. 3).

2.03 This ringer has a volume control wheel, adjustable in four steps. It can also be cut off by bending the stop tab and moving the volume control wheel to a fifth position (see Fig. 1 and 2).

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**2.04** The H1-type ringer is used in various 6-button key telephone sets.

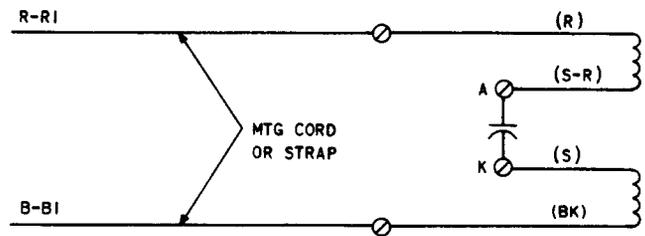
**3. MAINTENANCE**

**3.01** On maintenance visits where ringer fails to operate properly, check the following:

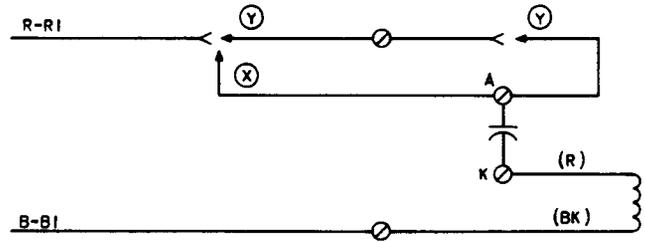
- (a) Volume control wheel—it may be in the cut off position.
- (b) Leads dressed away from ringer gong and clapper.
- (c) Connections are tight and correct.
- (d) Bias spring properly positioned.
- (e) Airgap is clear of dirt or foreign particles.
- (f) Coil windings are not open or shorted.

**3.02** If ringer still does not operate properly, replace. If tip party identification is not required, replacement ringer can be either an H1A or H1B.

**3.03** Use of an H1B ringer may require wiring changes in the ringer circuit involving the network capacitor. Fig. 4 shows typical ringer circuit and suggested wiring changes.



**A. TYPICAL WIRING WITH H1A RINGER**



**OPTIONS:**

- (X) MOVE MOUNTING CORD CONDUCTOR IF OF SUFFICIENT LENGTH
- (Y) SUBSTITUTE STRAP FOR SECOND WINDING

**B. SUGGESTED WIRING WITH H1B RINGER**

**Fig. 4—Telephone Set Wiring With H1-Type Ringer**