

G1-TYPE RINGERS

IDENTIFICATION AND MAINTENANCE

1. GENERAL

1.01 This section is reissued to add information on the 64A plastic gong.

2. IDENTIFICATION

PURPOSE

2.01 The G1-type ringer (Fig. 1 and 2) is a high-impedance ringing bridge designed for internal use in telephone sets only.

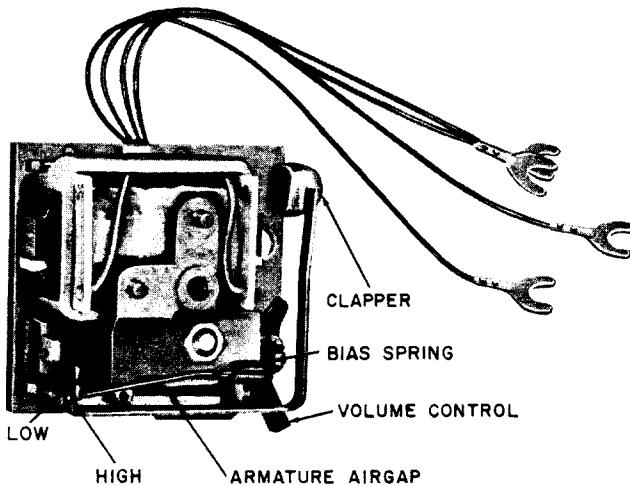


Fig. 1—G1-Type Ringer, Cover Removed

ORDERING GUIDE

- Ringer, G1A
- Ringer, G1B
- Ringer, G1C

(a) *Replaceable Parts*

- P-13E034 Gong (for G1A and G1C ringer)

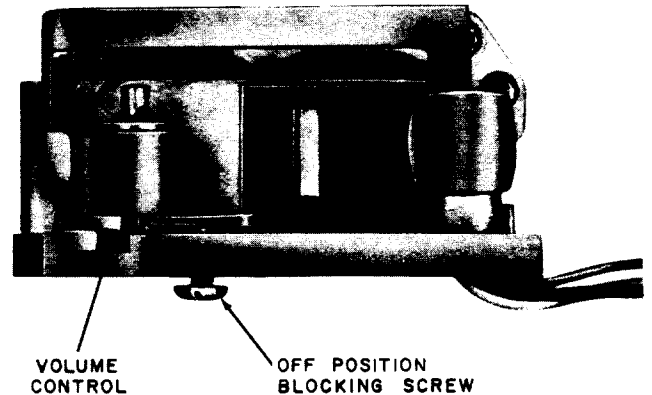


Fig. 2—G1-Type Ringer, Side View

- P-15E296 Gong (for G1B ringer)
- Gong, 64A (for G1A and G1C ringer)

DESIGN FEATURES

2.02 Designed to operate in series with a 0.45 microfarad capacitor.

2.03 Designed to mount with the gong in a horizontal position with the base isolated from the surface on which it will mount by means of rubber grommets. (Grommets not furnished with ringers.)

G1A Ringer

2.04 The G1A ringer (Fig. 3) is a biased ringer having a single gong which also serves as a cover and an external volume control with three positions: full volume, low volume, and off. Subscriber operation to off position is prevented by a screw which is removable at the option of the installer.



When replacing blocking screw, be sure volume control is in high-volume position to avoid breaking volume control arm.

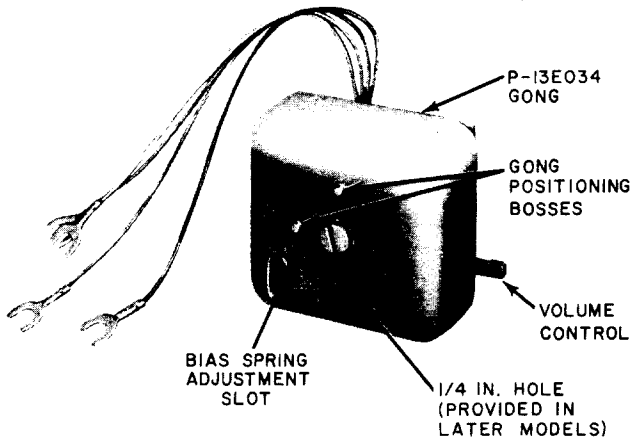


Fig. 3—G1A Ringer

2.05 The bias spring is factory set in the high-tension position and the following steps should be taken to reposition the bias spring:

- (1) Loosen gong (cover mounting screw on top of ringer approximately one turn).
- (2) Tilt gong upward in the area of bias spring adjustment slot (Fig. 3). This provides space for repositioning bias spring.
- (3) Bias spring which is visible through the adjustment slot can be repositioned from the high-tension slot to the low-tension slot (Fig. 1) by using long-nosed pliers.
- (4) Position gong with the aid of the positioning bosses and retighten gong mounting screw securely.

G1B Ringer

2.06 The G1B ringer (Fig. 4) is the same as the G1A except for a minor change in the ringer size and the gong design.

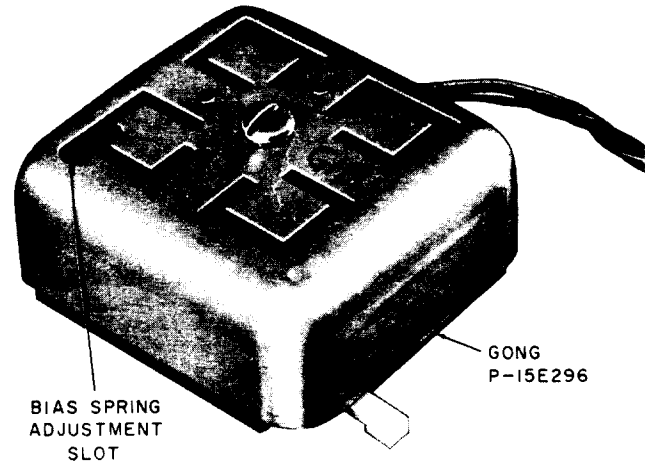


Fig. 4—G1B Ringer

G1C Ringer

2.07 The G1C ringer is a G1A ringer without the volume control cam and stop screw. The coil is similar to the G1A ringer without the taps or slate and slate-red leads. The gong had been raised to permit changing the bias spring position without disturbing the gong. Intended for use in the 236G coin telephone set.

P-13E034 Gong

2.08 The P-13E034 gong is designed to be used on the G1A and G1C ringer. It serves as a gong and cover for the ringer, has a bias spring adjustment slot, and two holes used to properly position the gong when installing it on the ringer. Later production models of the gong include a 1/4 inch hole to provide access to the bias spring for the purpose of bending the spring to increase or decrease tension beyond the normal adjustment limitations.

P-15E296 Gong

2.09 The P-15E296 gong is slightly larger than the P-13E034 gong and has been perforated to improve ringing quality (Fig. 4).

64A Gong

2.10 The 64A gong is plastic and slightly larger than the P-13E034 gong. The basic design

is the same as the P-13E034 gong including the 1/4 inch hole (2.08).

2.11 The plastic material used in the 64A gong provides a distinctive signal for persons with certain types of hearing impairments.♦

3. MAINTENANCE

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

- (1) Volume control (may be in OFF position).
- (2) Make sure all leads are dressed away from the ringer gong (cover).
- (3) All ringer connections are tight and correct.
- (4) Bias spring correctly positioned.
- (5) Check armature airgap for dirt or foreign material. Clean if required.
- (6) If the ringer still does not operate properly, or if coil is open or shorted, replace the entire ringer.

3.02 Fig. 6 is a schematic drawing of G1-type ringer.

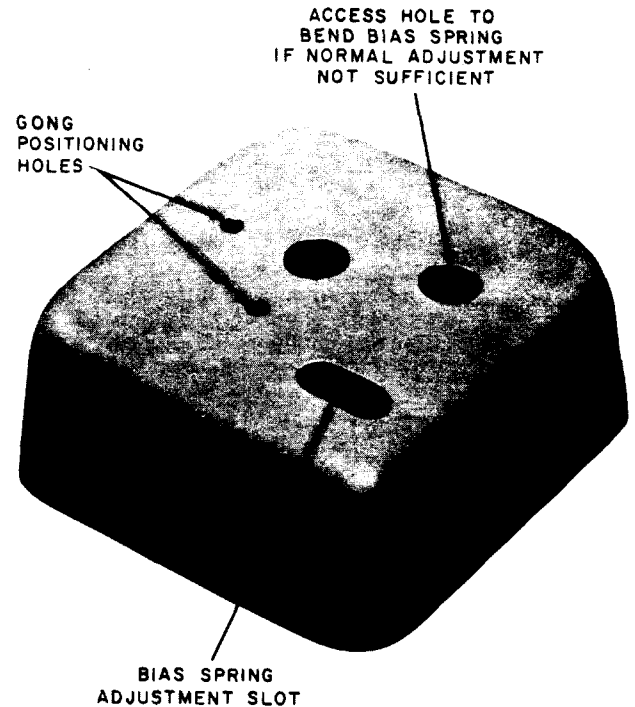
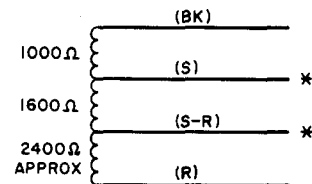


Fig. 5—64A Gong



* THE G1C RINGER COIL IS NOT TAPPED AND HAS ONLY (BK) AND (R) LEADS.

Fig. 6—G1-Type Ringer, Schematic