

3A SPEAKERPHONE SYSTEM

IDENTIFICATION

1.00 GENERAL

Speakerphone system 3A includes all the functions of speakerphone system 1A plus circuitry and apparatus which voice switch the gain in the transmitting and receiving circuits.

2.00 IDENTIFICATION

2.01 As compared to the 1A speakerphone, which is nonswitching, the 3A speakerphone incorporates a voice-switching circuit which permits a substantial increase in receiving volume, eliminates singing, and essentially eliminates far-end talker echo. As compared to speakerphone system 1A1, speakerphone system 3A has less noticeable voice-switching action and better operation under adverse room noise condition.

2.02 Like the 1A and 1A1 speakerphones system, which incorporate distant talking and

loudspeaker features, the 3A may be transferred from hands-free (distant-talking) to handset operation and vice versa.

2.03 The following types of services may be used with the 3A speakerphone system:

- Individual lines; ring and tip party; and 2-party flat, 4-party selective, and 8-party semi-selective service.

2.04 The 55A control unit is used with the speakerphone.

2.05 All telephone sets used in the 1A and 1A1 speakerphone systems, with the exception of the 592-type set, may be used in the 3A speakerphone system.

2.06 Fig. 1 shows 3A speakerphone components with a 500R/S telephone set; however, a key telephone set or equivalent may be used.

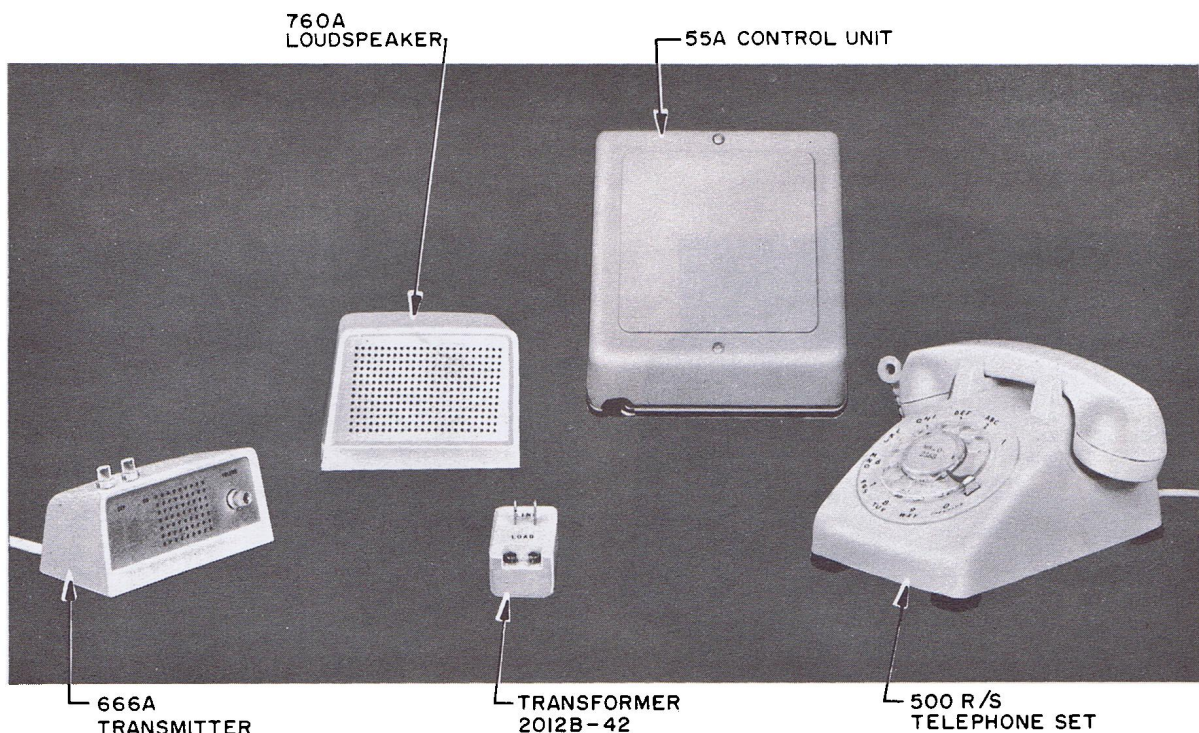


Fig. 1 — 3A Speakerphone Components

2.07 For information on telephone sets used with the 3A speakerphone systems, see C Section entitled 3A Speakerphone, Connections.

2.08 The 55A control unit (Fig. 2) consists of an assembly of electronic apparatus mounted on a base approximately 8 by 8-1/2 inches.

- The cover is plastic, approximately 4-3/8 inches deep with a beige finish.
- The base may be mounted on a wall or desk.
- Entrance for inside wiring cable is located at top and bottom of unit.
- A screw-type terminal strip is provided for terminating inside wiring cable.
- Brackets are provided for holding the inside wiring cable in the unit.

2.09 Power is furnished from a 2012B-42 plug-in type transformer. Standard inside wire is used to connect transformer to control unit. Allowable maximum distance between control unit and transformer is 100 feet.

2.10 The 666A transmitter (Fig. 3 and 4) consists of the following:

- Pushbuttons for OFF-ON operation and muting of the transmitter.
- Volume control.

- 51A lamp for illumination of ON button.
- 3-stage transistorized amplifier.
- 11-terminal connecting block.
- 11-conductor cord.
- AC1 transmitter unit.

2.11 The muting feature of the 666A transmitter allows, if desired, a private conversation with others within the room without having the conversation transmitted over the line. Depressing and holding the ON button for such a conversation short-circuits the transmitter unit and holds the line. (Distant party can still be heard.) Releasing the ON button permits resumption of the conversation, when desired.

3.00 760A LOUDSPEAKER

3.01 The 760A loudspeaker (Fig. 5) is a permanent magnet-type dynamic loudspeaker mounted on a metal base plate. The unit is enclosed in a plastic housing. Connection to the speaker is made by using a 2-conductor R2FK cord.

3.02 For transmitter associated with the 600-type sets, see C Section entitled Module Unit Used with 600 Series Telephone Sets.

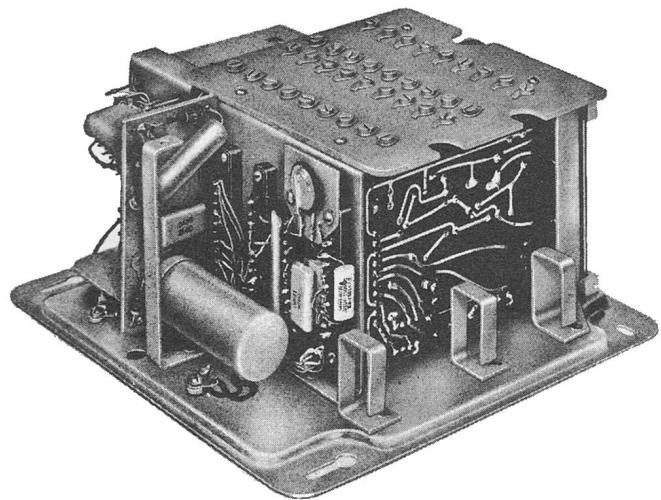
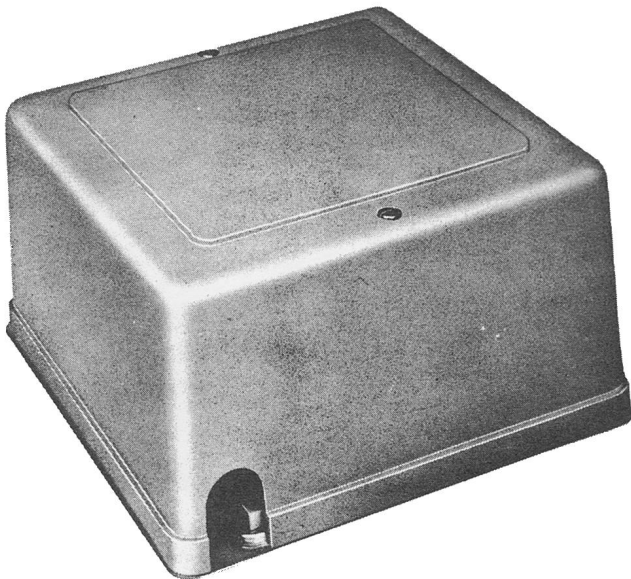


Fig. 2 — 55A Control Unit

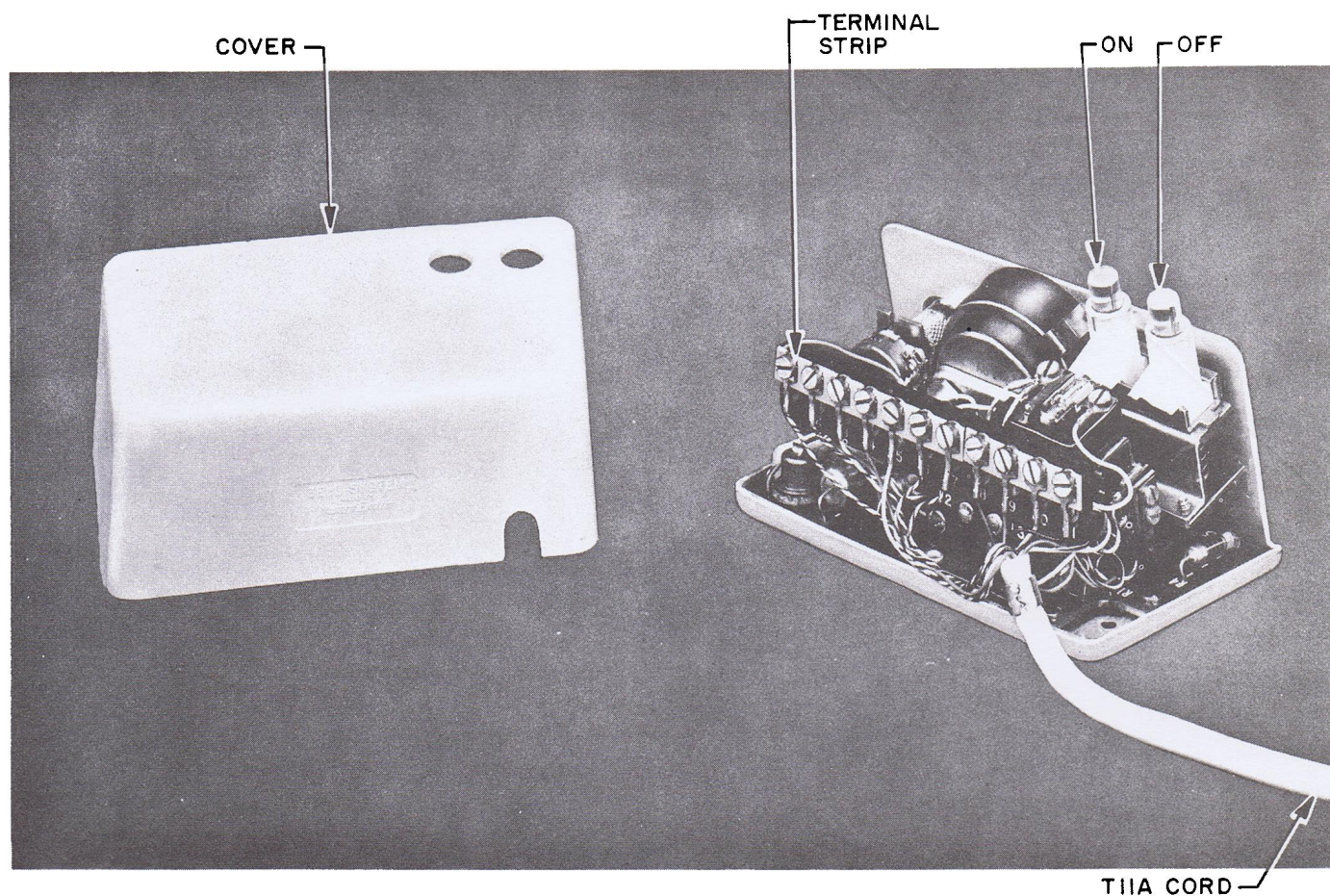


Fig. 3 — 666A Transmitter, Cover Removed

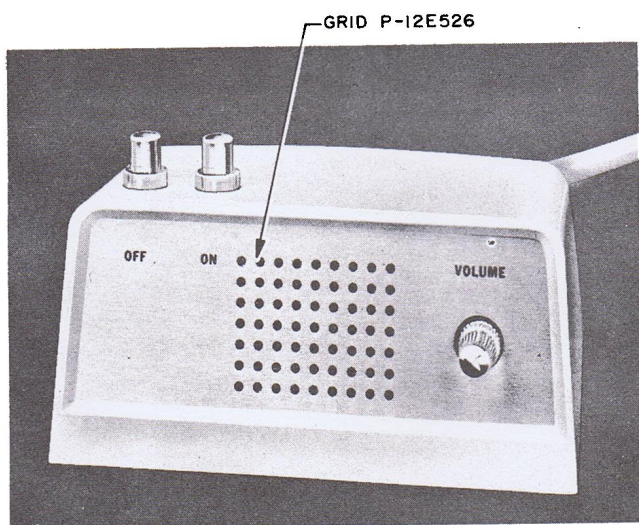


Fig. 4 — 666A Transmitter

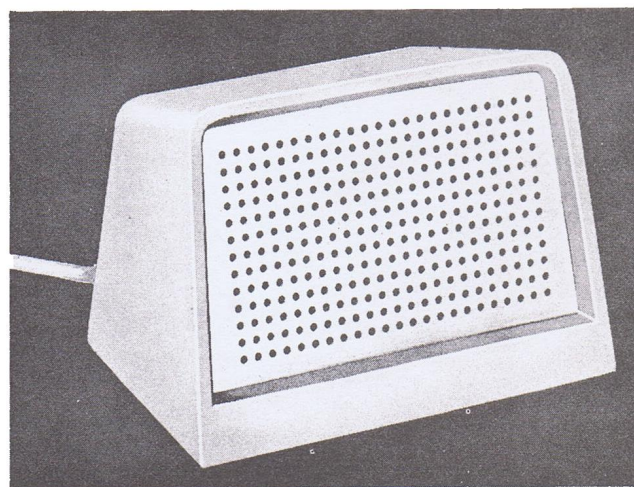


Fig. 5 — 760A Loudspeaker