

## 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.

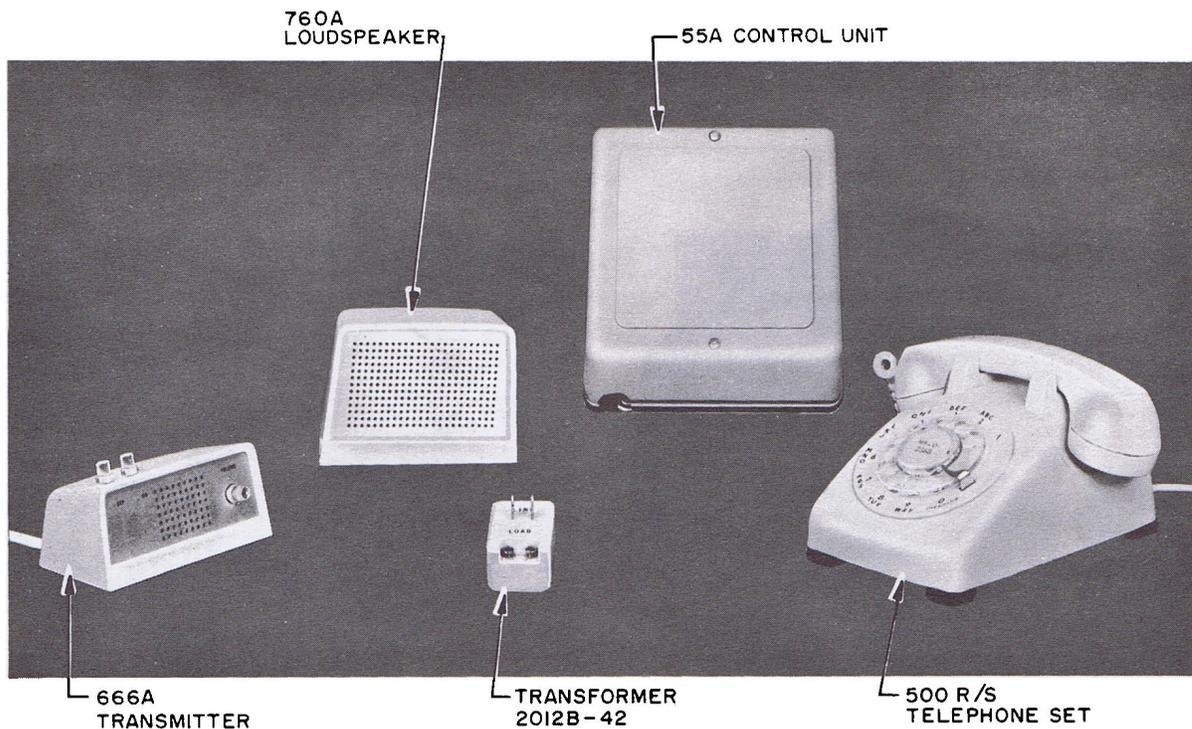


Fig. 1 — 3A Speakerphone Components

## SECTION C70.202.00

**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.

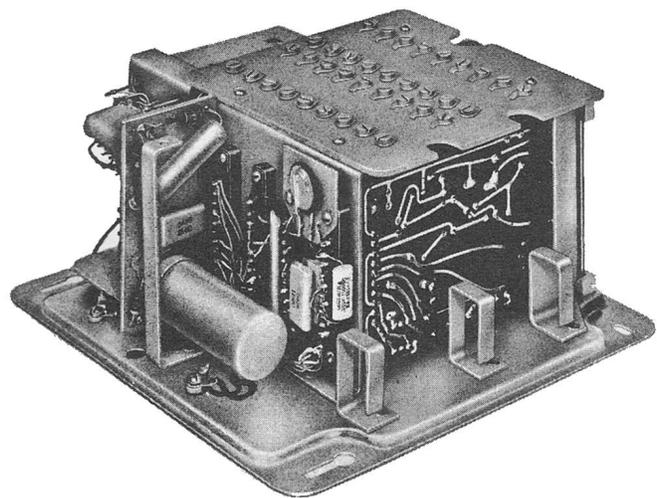
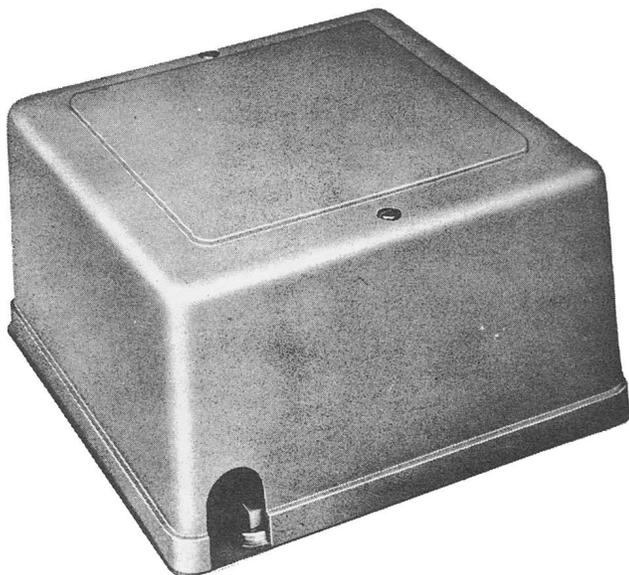
- 51A lamp for illumination of ON button.
- 3-stage transistorized amplifier.
- 11-terminal connecting block.
- 11-conductor cord.
- AC1 transmitter unit.

**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**

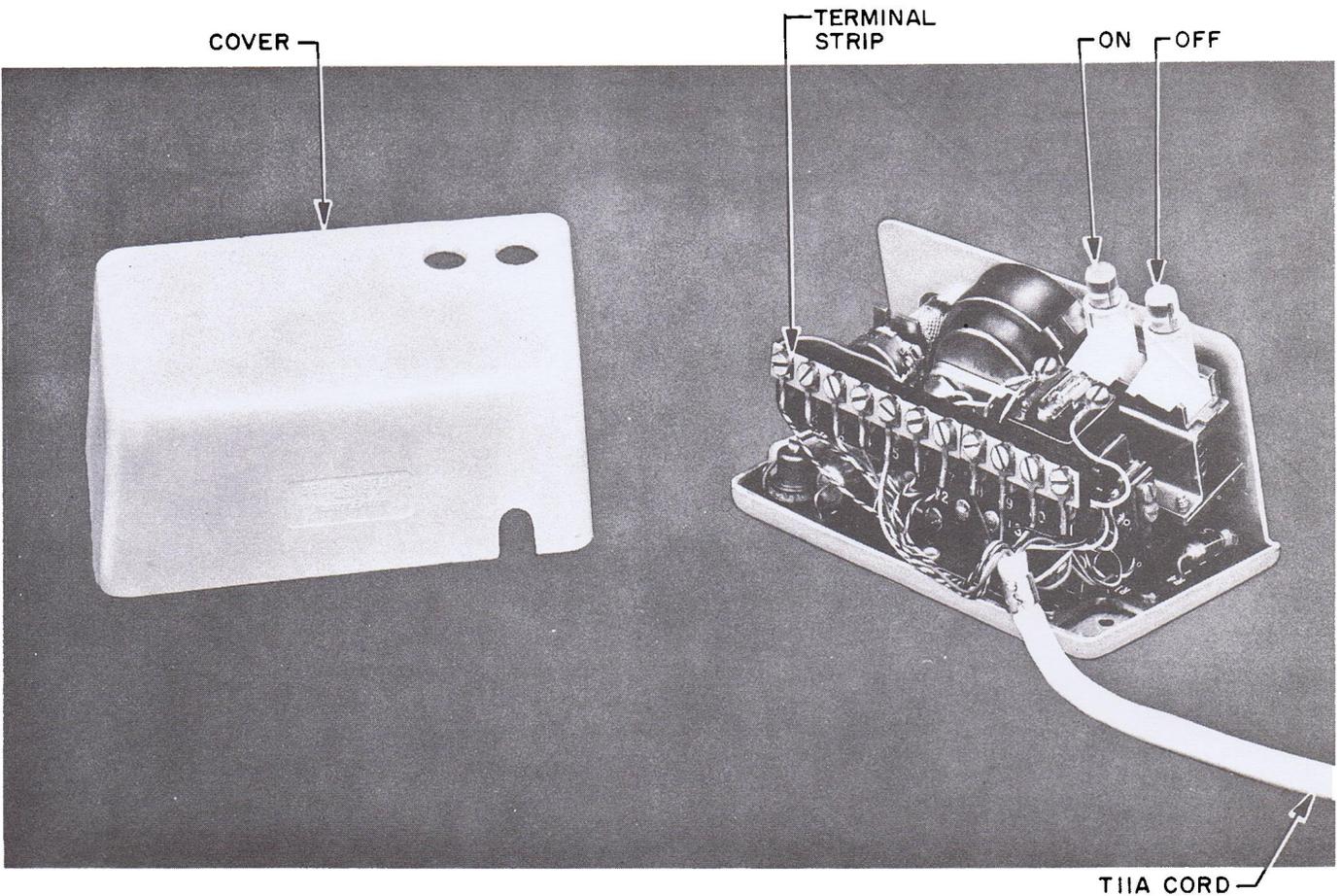


Fig. 3 - 666A Transmitter, Cover Removed

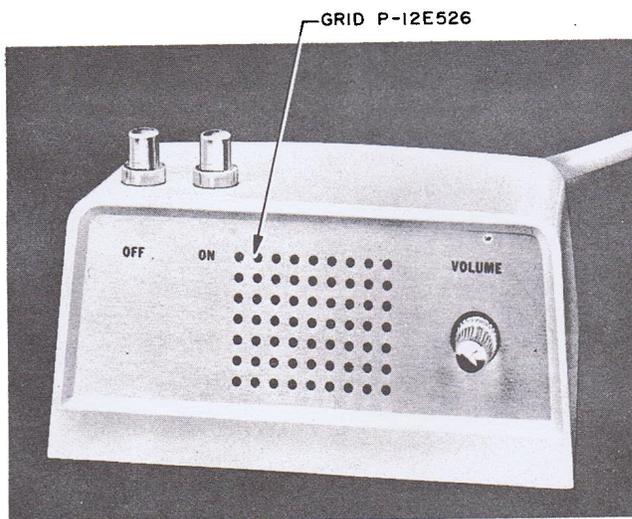


Fig. 4 - 666A Transmitter

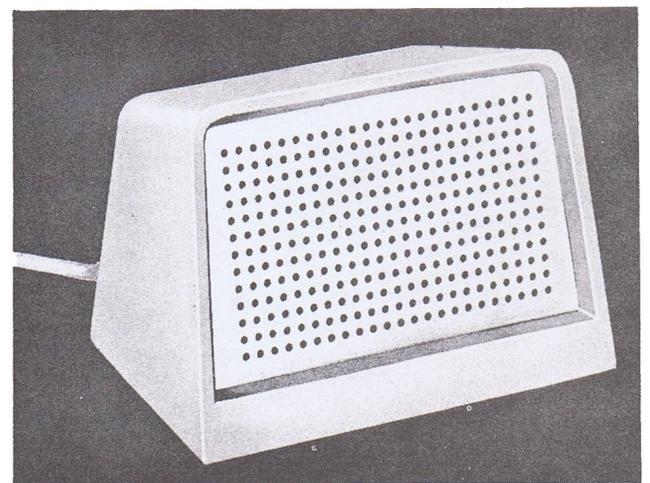


Fig. 5 - 760A Loudspeaker