

SPEAKERPHONE SYSTEMS—3A

IDENTIFICATION

1. GENERAL

1.01 The 3A speakerphone system is similar to the 1A and 1A1 speakerphone systems which incorporate distant talking and loudspeaker features.

1.02 This section is reissued to add the color line for 3A speakerphone apparatus (Table A).

2. IDENTIFICATION

2.01 The main difference between the 3A and other speakerphone circuits is a voice-switch circuit which controls the gain in the transmitting and receiving circuits.

2.02 The voice-switch circuit of the 3A speakerphone system performs the following functions:

- Increases receiving volume.
- Eliminates singing and far-end talker echo.
- Provides better operation under adverse room noise conditions.
- Reduces voice-switching action.

2.03 The 3A speakerphone system may be used with all classes of service.

2.04 The 3A speakerphone components may be used with a 500R/S telephone set (Fig. 1); however, a key telephone set or equivalent may also be used.

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 For information on telephone sets used with 3A speakerphone systems, see section covering connections for particular type telephone set.



Fig. 1 — 3A Speakerphone Components

3. 55A CONTROL UNIT

3.01 The 55A control unit, used with the 3A speakerphone (Fig. 2), includes the following:

- (a) A base to mount on a wall or desk.
- (b) An entrance for inside wiring located at top or bottom of unit.
- (c) A screw-type terminal strip for terminating inside wiring cable.
- (d) Brackets to hold the inside wiring cable in unit.
- (e) Voice-switching relay.
- (f) Printed wiring boards.
- (g) Component assembly boards.
- (h) Power transformers.

3.02 Power is furnished from a 2012B plug-in type transformer. Standard inside wire is used to connect transformer to control unit with allowable maximum distance of 100 feet.

4. 666A TRANSMITTER

4.01 The 666A transmitter (Fig. 3) consists of the following:

- Pushbuttons for OFF-ON operation and muting of transmitter.

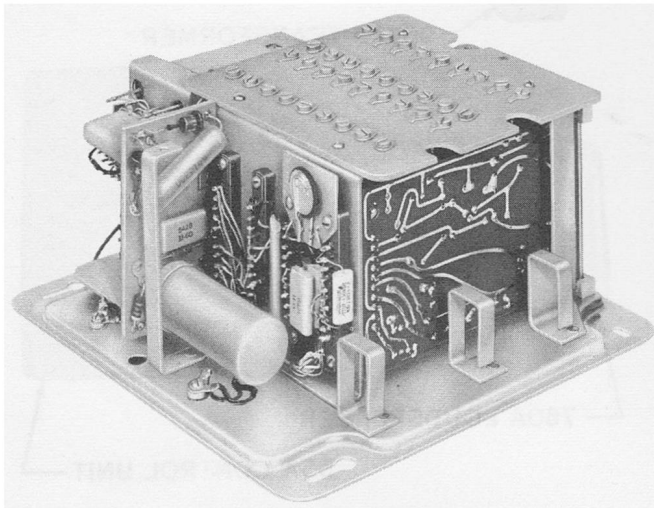


Fig. 2 — 55A Control Unit, Cover Removed

- Volume control button.
- 51A lamp for illumination of ON button.
- 3-stage transistorized amplifier.
- 11-terminal connecting block.
- T11A cord.
- AC1 transmitter unit.

4.02 The muting feature of the 666A transmitter allows, if desired, a private conversation with others within the room without transmitting the conversation 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.

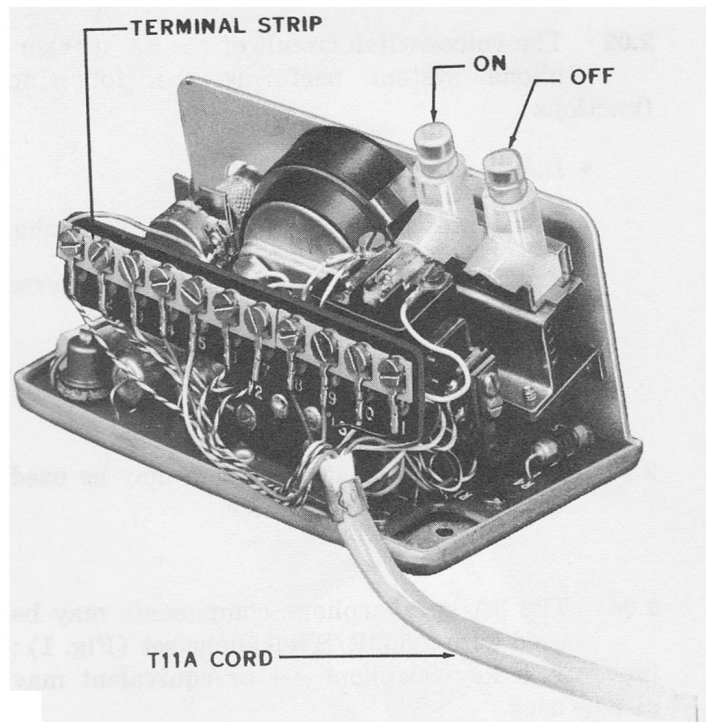


Fig. 3 — 666A Transmitter, Cover Removed

4.03 For transmitter associated with the 600-type sets, see section covering modular units.

mounted on a metal base plate and is enclosed in a plastic housing. Connections to the speaker are made by using a 2-conductor R2FK cord.

5. 760A LOUDSPEAKER

5.01 The 760A loudspeaker (Fig. 1) is a permanent magnet-type dynamic loudspeaker

5.02 For color information on the R2FK and the T11A cords, see section covering station cords.

TABLE A

COLOR LINE FOR 3A SPEAKERPHONE APPARATUS

Color	Color Code	760A Loudspeaker	666A Transmitter	55A Control Unit	2012B Transformer
Black	- 3	•	•		
Light Olive Gray	-49			•	•
Ivory	-50				•
Green	-51	•	•		
Yellow	-56	•	•		
White	-58	•	•		
Rose Pink	-59	•	•		
Light Beige	-60	•	•		
Light Gray	-61	•	•		
Aqua Blue	-62	•	•		
Turquoise	-64	•	•		

Note: For color information on telephone sets used with 3A speakerphone apparatus, refer to section on color.

• Indicates available colors.