

1A SPEAKERPHONE SYSTEM

IDENTIFICATION

1. GENERAL

This section covers the identification and assembly of parts and operating instructions for the 1A speakerphone system.

2. IDENTIFICATION

2.01 The 1A speakerphone system, incorporating distant talking and loudspeaker features, may be switched from a hands-free or distant-talking set to a regular telephone set. It may be used with:

- Manual or dial individual and 2-party lines.
- PBX extension stations.
- 1A and 1A1 key telephone systems.
- 750A and 755A dial PBX stations.

2.02 The 1A speakerphone system has two main groups of equipment:

- **The first group consists of:**

592-type Telephone Set
758A Loudspeaker
KS-14964, List 2 Control Unit

- **The second group consists of:**

656A Transmitter
758A Loudspeaker
KS-14964, List 2 Control Unit, any key telephone arranged for speakerphone service.
The above items are available in black.

2.03 The 592-type telephone set shown in Fig. 1 has the same general appearance as the 500-type key telephone set. It contains:

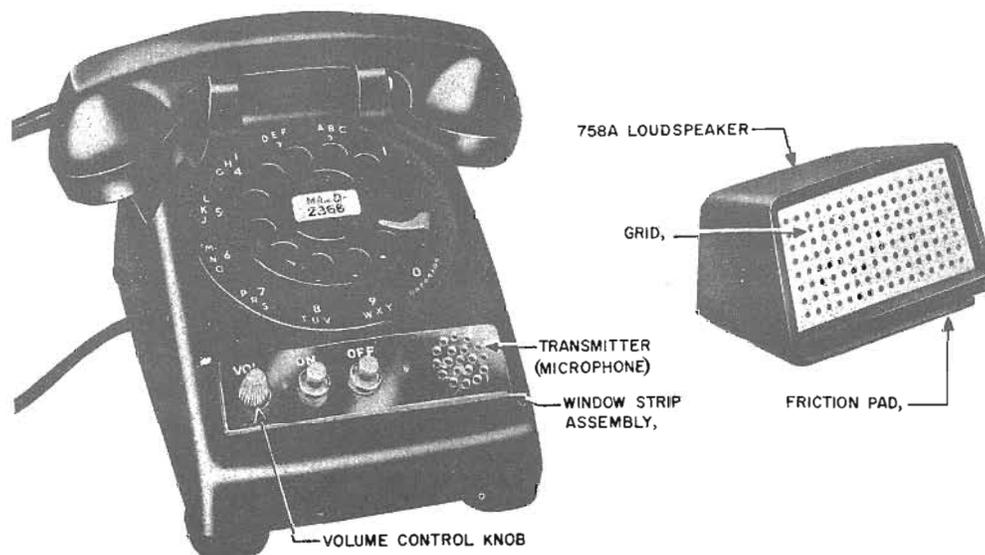


Fig. 1 — Speakerphone Components, Microphone in Base of Set

- A switching arrangement to transfer from regular usage to the distant talking feature.
- Volume control for associated 758A loudspeaker.
- Pilot lamp that lights when set is used as a distant talking set.
- Nonlocking ON and OFF keys.
- A modified U1 receiver mounted in a soft neoprene cushion and used as a microphone.

- A small speaker unit mounted on a metal chassis.
- Screw terminals for cord connection.
- A rectangular thermoplastic housing and metal grill.
- A 5-1/2 foot mounting cord that is arranged for connecting to 42-type connecting block.
- A base equipped with an adhesive-type friction pad.

2.04 For other information that is common to the 500-type telephones, see section entitled Telephone Sets, 500 Series, Identification and Assembly of Parts.

2.06 The 656A transmitter assembly is contained in a rectangular thermoplastic housing on a base equipped with an adhesive-type friction pad. The components are:

2.05 The 758A loudspeaker (Fig. 1 and 2) is used to provide loudspeaker facilities for the distant talking set. It consists of:

- A modified U1 receiver mounted in a soft neoprene cushion, used as a microphone, and equipped with an equalizer.

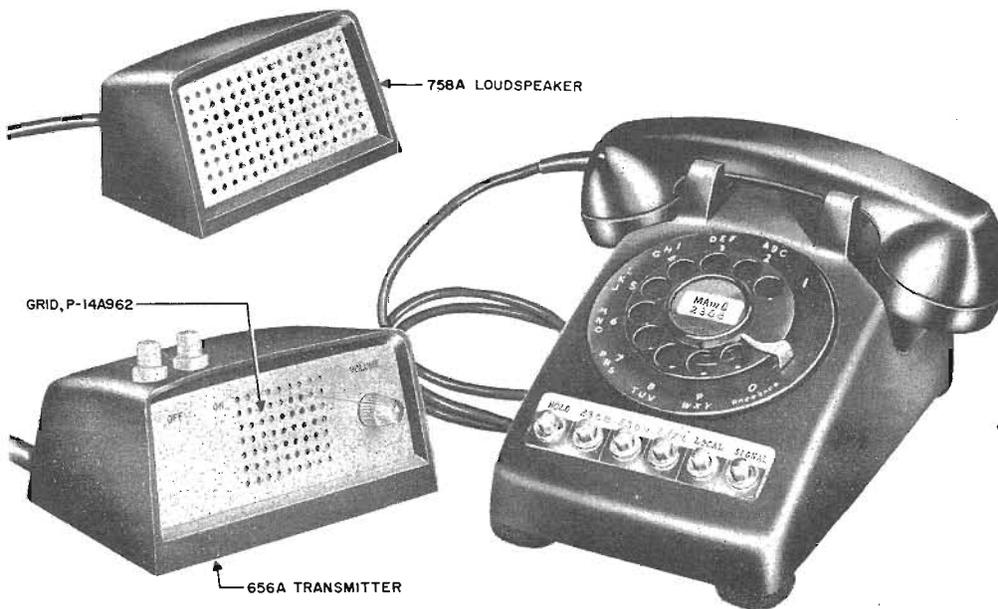


Fig. 2 — Speakerphone Components, Microphone Separate

- The volume control for associated 758A loudspeaker.
- Nonlocking ON and OFF keys.
- A pilot lamp to indicate when speaker-phone is in use.
- A 5½ foot mounting cord equipped with a stay hook for fastening to either a 44-type block or directly to the terminal strip provided in the control unit.

2.07 The KS-14964, List 2 control unit (see Fig. 3) consists of an assembly of electronic apparatus mounted on a base approximately 9-5/8 by 7-1/8 inches.

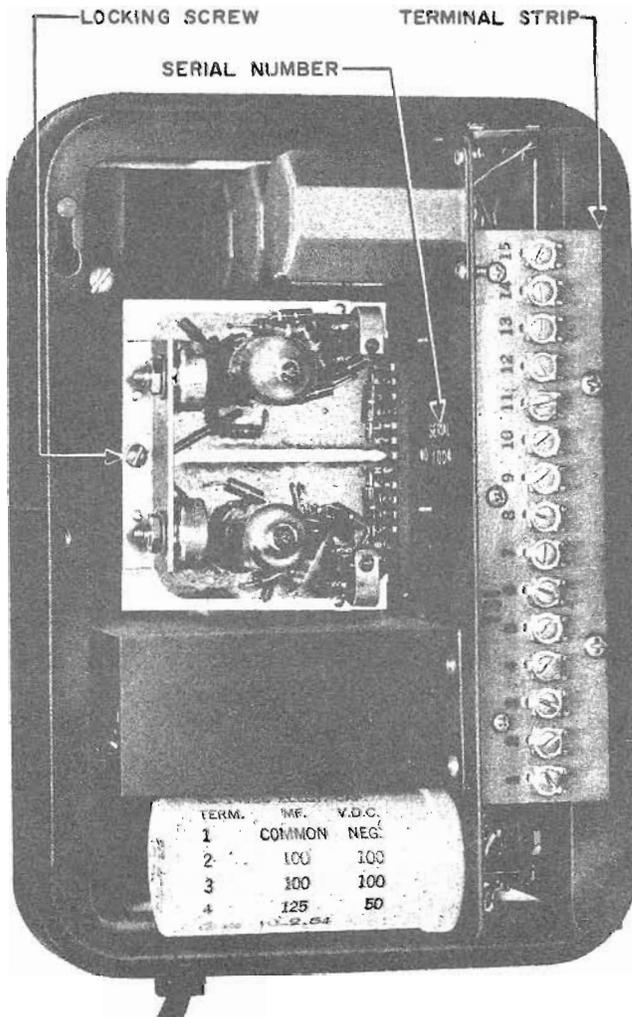


Fig. 3 — KS-14964, List 2 Control Unit

- The cover is approximately 4 inches deep with a beige-gray crinkle finish.
- The base may be mounted on a wall or desk.
- Entrance for inside wiring cable and power cord is located in bottom of unit.
- A screw-type terminal strip is provided for terminating inside wiring cable.
- A clamp is provided for fastening the inside wiring cable to the unit.



A 6-foot cord is provided for connecting to 60-cycle 105- to 125-volt commercial power supply. This unit will not operate on direct current.

- The power consumption for the KS-14964, List 2 unit is 8 watts for operating and 0.8 watt for stand-by.
 - The power supply furnishes the plate supply of the KS-14990 amplifier, power for pilot lamp in either the 592-type set or 656A transmitter, and power to operate the U200 relay.
- 2.08** The KS-14990 amplifier (Fig.4) is used in the KS-14964, List 2 control unit.
- It furnishes both receive and transmit amplification for the distant talking set.
 - The transmit volume is preset by the manufacturer. This adjustment should not be changed in the field.
 - The receive volume is adjustable at receiving station by the customer.
 - The amplifier circuits are mounted on a single plug-in type plastic card.

- The card fits into an elongated socket in the base of control unit.
- The amplifier is held in place by a screw when used with the KS-14964, List 2 control unit (see Fig. 3).

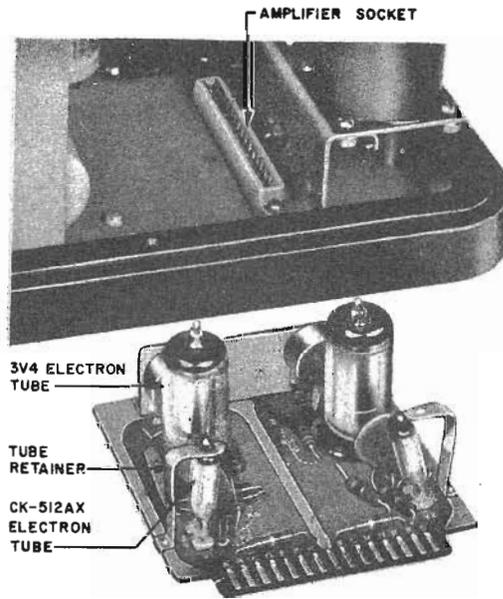


Fig. 4 — KS-14990 Amplifier