

## 5A AND 5B KEY EQUIPMENTS

### IDENTIFICATION

#### 1.00 INTRODUCTION

This section covers the identification of 5A and 5B key equipments using the 100-type loudspeaker set for loudspeaker conference service.

#### 2.00 GENERAL

**2.01** The 5A and 5B key equipments consist of key control arrangements for associated loudspeaker sets with central office or PBX extension lines, thereby permitting a group of people to hear a person speaking from another station over a regular telephone connection. The 5B key equipment provides the additional feature of reproducing the local talker's voice over the loudspeaker as well as the voice at the distant end.

**2.02** The reception provided by these loudspeaker sets may vary due to differences in line conditions, type of telephone set used at the talking customer's station, the manner in which the speaker at the distant end talks into the transmitter, and room conditions at the loudspeaker station.

**2.03** It is recommended that a 500-type telephone set be used with 5A and 5B key equipments on new installations. In general, higher received volume levels are obtained with the 500-type set.

**2.04** When the difference in gain between key positions is objectionable, an alternate circuit may be installed. The alternate circuit elim-

inates the difference in loudspeaker volume between the key position's loudspeaker only on the line and loudspeaker with the telephone set on the line.

**2.05** Improved performance of this equipment is obtained when it is installed in small rooms, such as private offices, etc, and surrounding noise reduced to a minimum.

**2.06** Connections for 5A and 5B key equipments are covered in a separate C Section entitled 5A and 5B Key Equipments, Connections.

#### 3.00 IDENTIFICATION

**3.01** The 5A key equipment is particularly adapted for use in cases where the distant party is to do most of the talking. This key equipment includes a 2-position key. In the normal position this key connects the telephone set to the line and in the operated position, connects a loudspeaker set in place of the telephone set. With this arrangement, if the local talker wishes to speak to the distant party, it is necessary to operate the key to the normal position.

**3.02** The 6017K key (Fig. 1) is of the lever type, enclosed in a metal case equipped with a suitable connecting block and arranged to lock in either of the two positions. It is intended for use with 5A key equipment and is equipped with the 2GP key unit adjusted for make-before-break contact sequence.

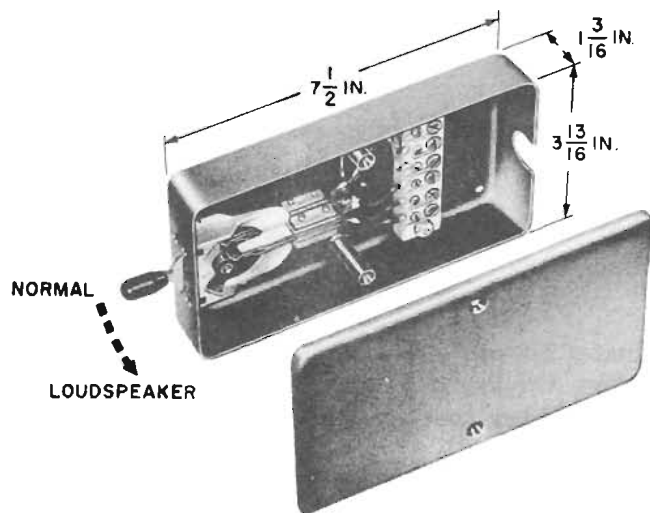


Fig. 1 — 6017K Key

**3.03** The 5B key equipment includes a 3-position key, two positions of which provide essentially the same features as 5A key equipment. The third position connects the telephone set to the line with the loudspeaker set bridged across the telephone set receiver circuit. This permits both sides of the conversation to be heard at the loudspeaker station without the necessity of operating the key to change from listening to talking or vice versa. With the key in the third position, however, the

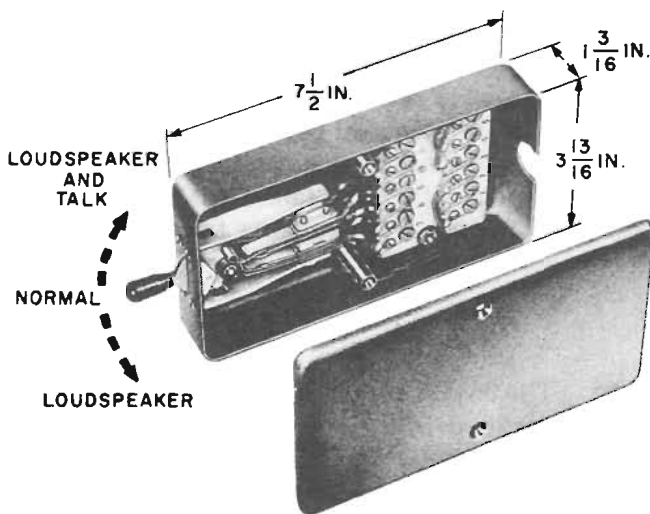


Fig. 2 — 6017L Key

amplification is limited. Where greater amplification is needed it will be necessary to operate this key equipment the same as 5A key equipment using the other operated key position for listening and the normal position for talking.

**3.04** The 6017L key (Fig. 2) is of the lever type, enclosed in a metal case equipped with a suitable connecting block and arranged to lock in either of the three positions. Intended for use with 5B key equipment, it is equipped with the 2 AND key unit adjusted for make-before-break contact sequence.

**3.05** With either 5A or 5B key equipment the connection will be lost if the handset is restored to the handset mounting before the call is completed.

**3.06** The 100-type loudspeaker set (Fig. 3) consists essentially of a 2-stage resistance coupled amplifier and a loudspeaker mounted in a walnut-finished wooden cabinet. It is provided with a 6-foot power supply cord equipped with a plug and a 5-foot 6-inch telephone cord for connecting to the telephone line. It is intended for use on telephone lines as part of 5A and 5B key equipments.

**3.07** The 534BP subscriber set (Fig. 4) consists of a black finished metal base with mounted apparatus and a black finished hinged metal cover. It is intended for use with 5B key equipment as an attenuation and filter unit in conjunction with the 100-type loudspeaker set. This subscriber set permits regulation of the maximum amplification by means of a control located within the set, and adjustment is established for each installation by the installer or repairman.

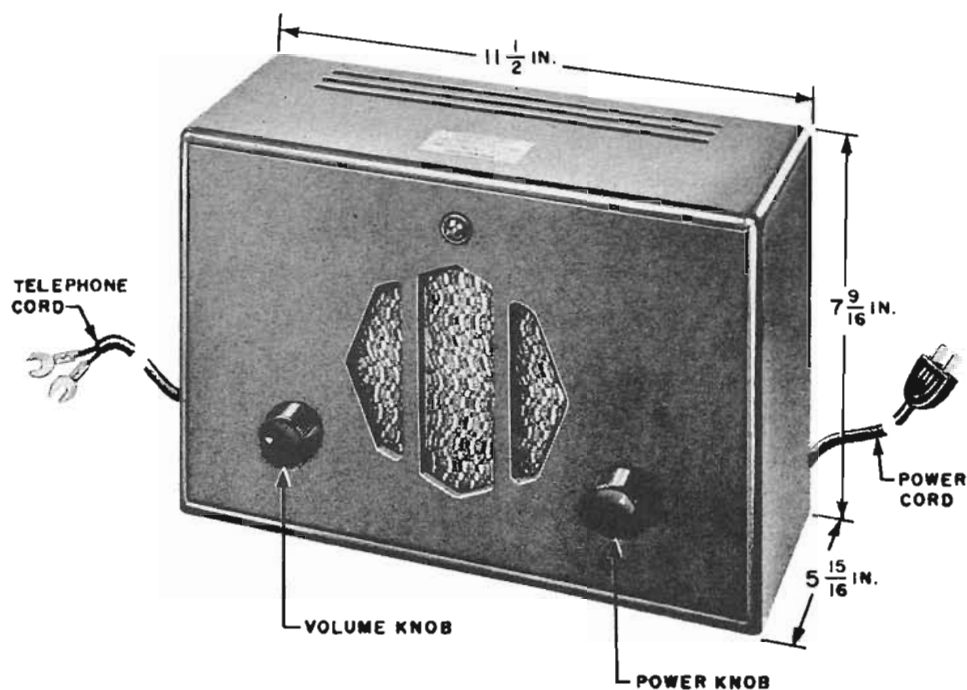


Fig. 3 — 100-type Loudspeaker Set

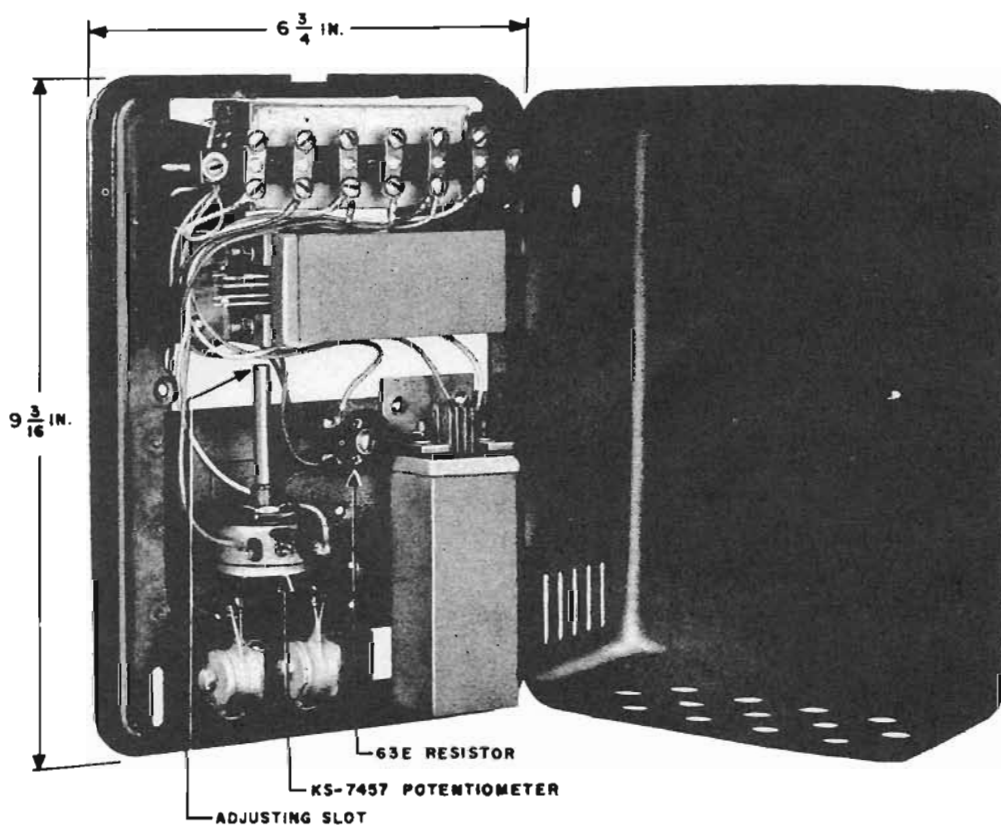


Fig. 4 — 534BP Subscriber Set