

1A HOME INTERPHONE

IDENTIFICATION AND OPERATION

1.00 GENERAL

1.01 This section is reissued to:

- Show alternate locations of loudspeaker in kitchen installations.
- Show position of component board in Fig. 6.
- Change Fig. 7 to show latest printed wiring board.

- Add information on modifying U1 receiver to 2.06.
- Reword 3.00 to clarify operation of the 1A home interphone.

1.02 The 1A home interphone provides central office line pickup and holding, interphone between stations, and door-answering features.

1.03 Central office line pickup is provided at all stations.

central office connection

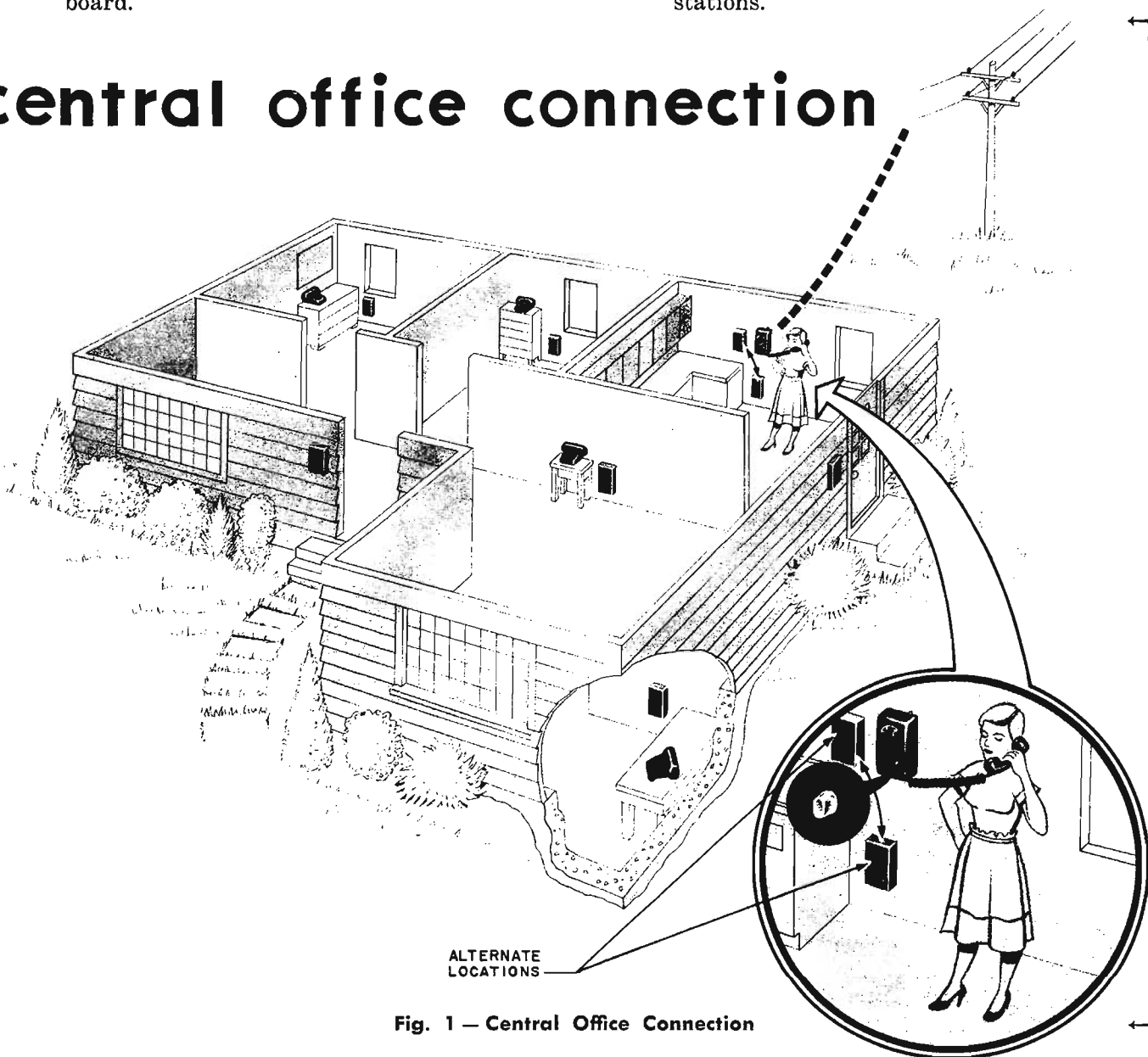


Fig. 1 — Central Office Connection

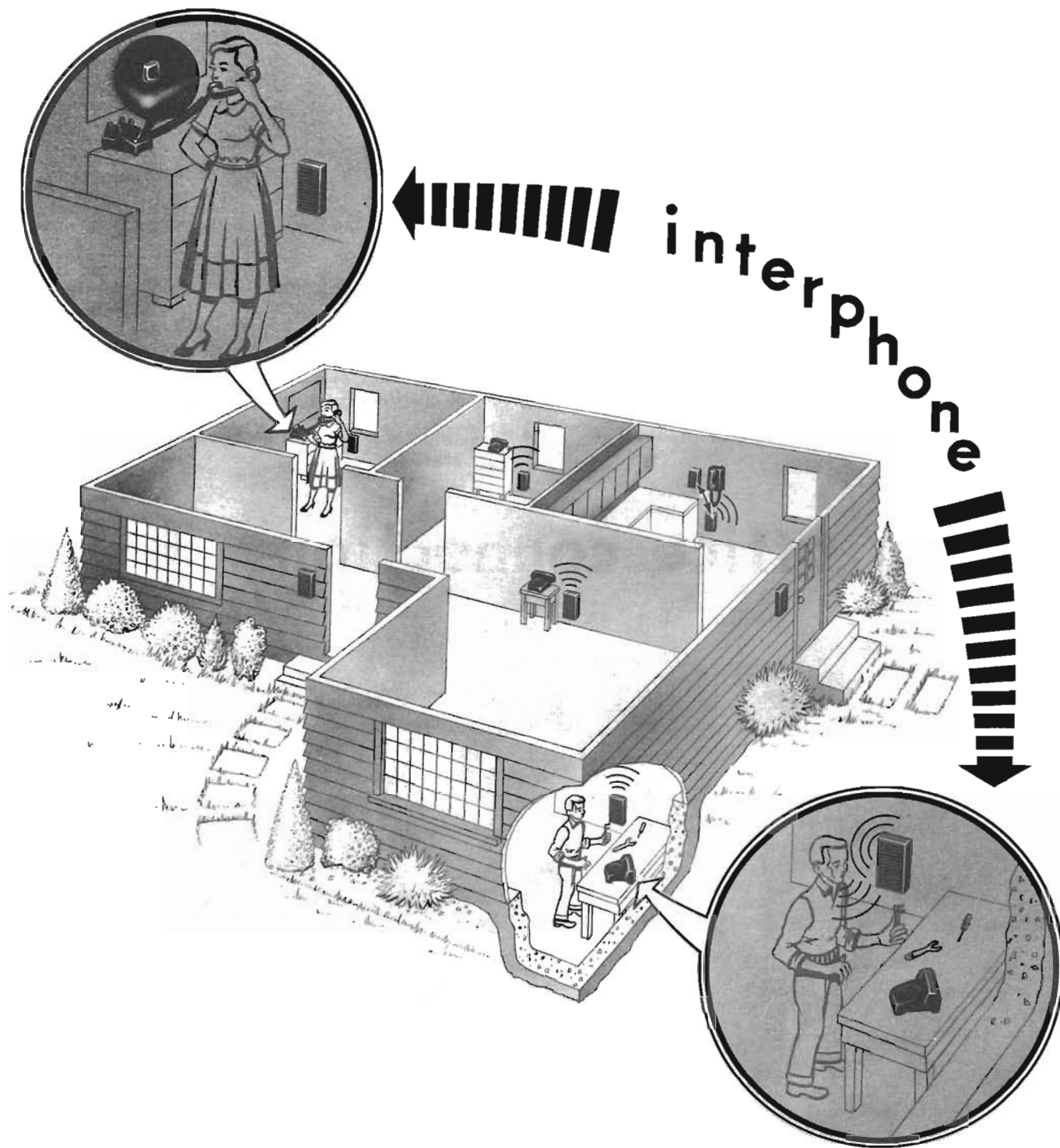


Fig. 2 — Interphone Feature

- 1.04** Central office line holding is provided at all 1A home interphone stations.
- 1.05** Interphone calls originate from telephone handset; operation is hands-free at called stations.
- 1.06** The 1A home interphone is limited to five telephone set locations.



Fig. 3 – Door-Answering Feature

- 1.07** Door units may be answered from any 1A home interphone telephone set location.
- 1.08** The 1A home interphone is limited to two door-answering units.

SECTION C70.160.00

2.00 IDENTIFICATION

2.01 The 1A home interphone consists of the following components:

- Telephone sets: 511C/D, 558C/D, or 711B.
- Transmitters: 659A, 660A, or 664A.
- Control unit, 51A.
- Receiver (door-answering unit), 730A. *Fig. 9*
- Loudspeaker, 759A. *Fig. 8*
- Transformer, 2012A or KS-16184.



2.02 For information on color of the various components see section entitled Telephone Apparatus Color.

2.03 The 511C/D, 558C/D, and 711B telephone sets are modified by adding the 660A, 659A, and 664A transmitter units, respectively, as shown in Fig. 4, 5, and 6. These function as microphones to provide the hands-free, talk-back interphone feature.

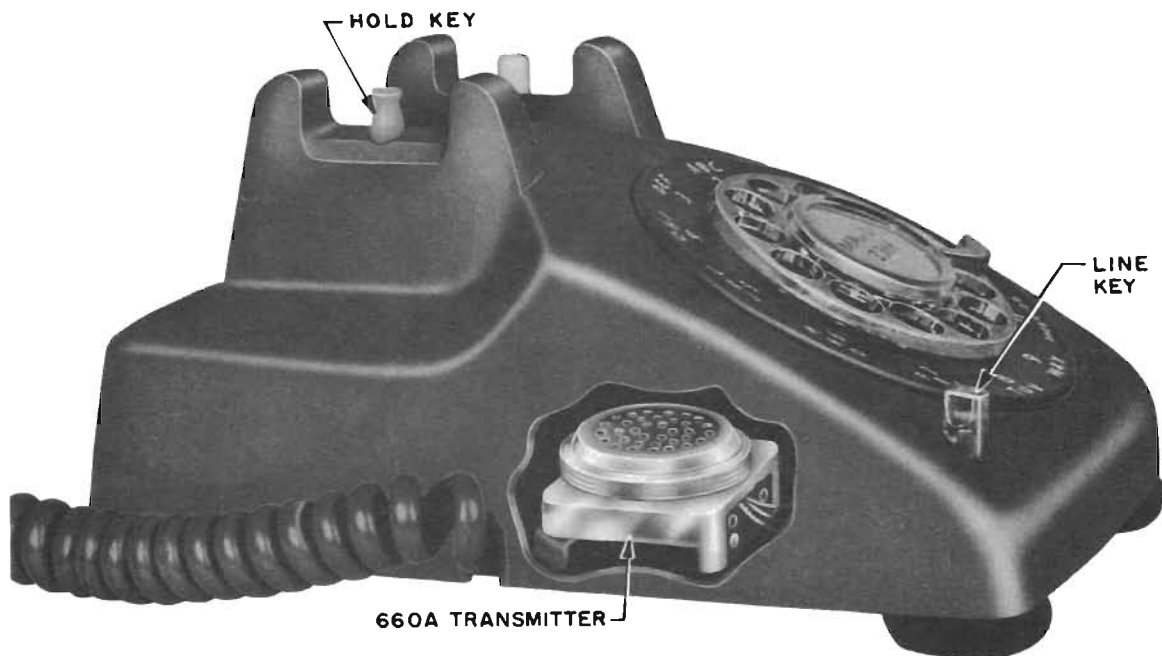


Fig. 4 — 511C/D Telephone Set Modified to Include 660A Transmitter Unit



Fig. 5 — 558C/D Telephone Set Modified to Include 659A Transmitter Unit

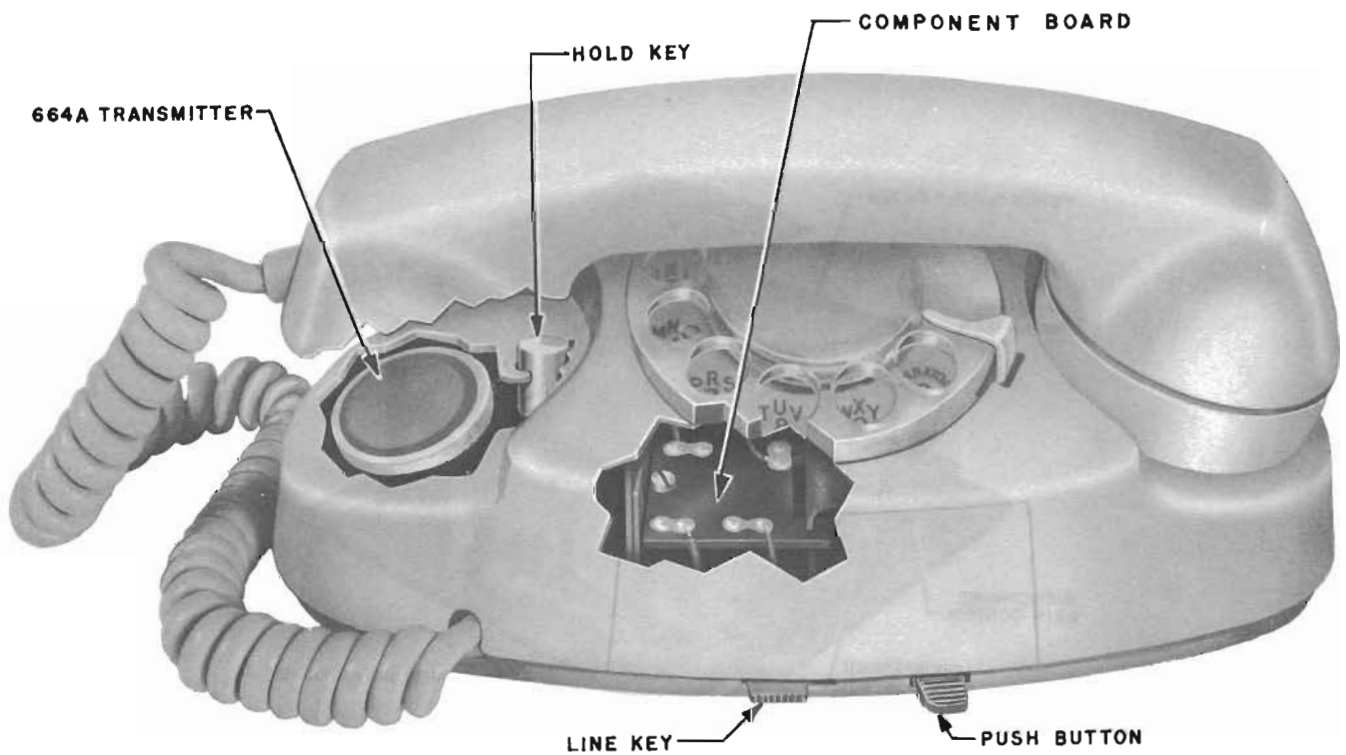


Fig. 6 — 711B Telephone Set Modified to Include 664A Transmitter Unit

2.04 The 51A Control Unit consists of:

- Apparatus box similar to but larger than a 105 apparatus box.
- Terminal board to connect wiring from one to five telephone sets.
- Printed wiring board which includes the transistorized microphone and loudspeaker amplifiers, and power supply.
- A dual-wire spring relay which switches between the interphone and door answering, and supplies power to the amplifiers.

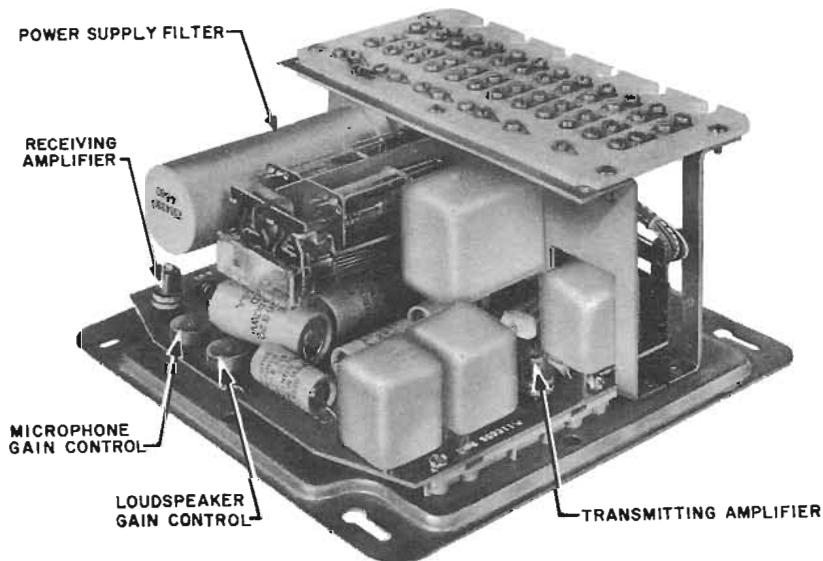
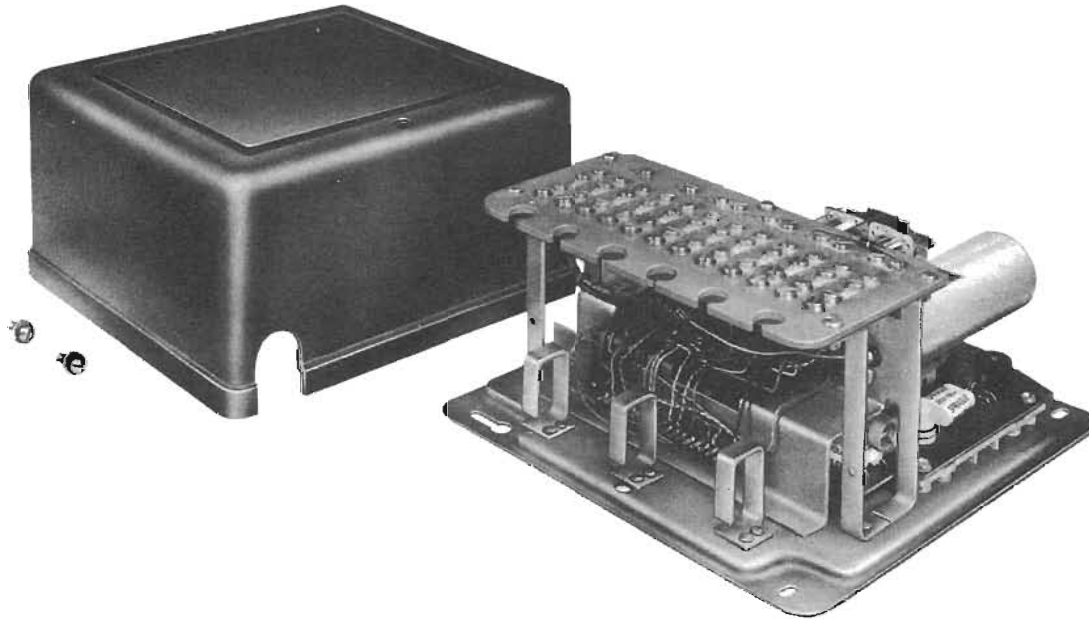


Fig. 7 – 51A Control Unit

2.05 The 759A Loudspeaker (Fig. 8) consists of a dynamic loudspeaker and a 12-terminal connecting block. They are mounted on a metal base and covered with a plastic housing. The loudspeaker provides hands-free interphone reception.

2.06 The 730A Receiver (Fig. 9) consists of a dynamic loudspeaker, a P-14A464 receiver assembly, and a 2-terminal connecting block. For replacement purposes, a U1 receiver with the 44A varistor removed from the rear of the unit can be substituted for the P-14A464 receiver. The components are mounted on a metal base and covered with a weatherproof plastic housing. The 730A receiver provides hands-free communication at door-answering locations.

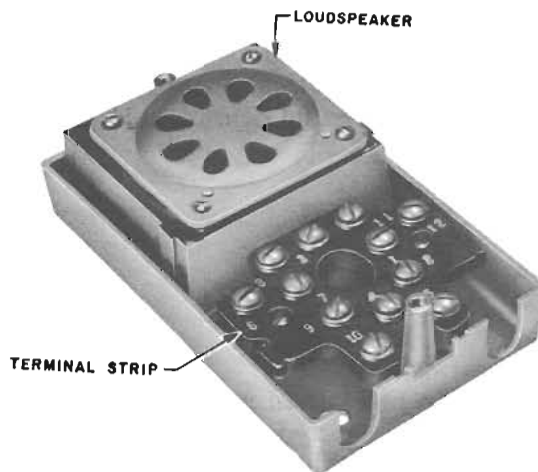


Fig. 8 — 759A Loudspeaker

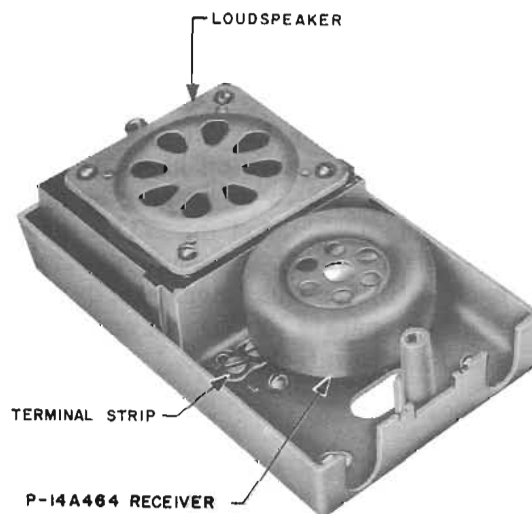
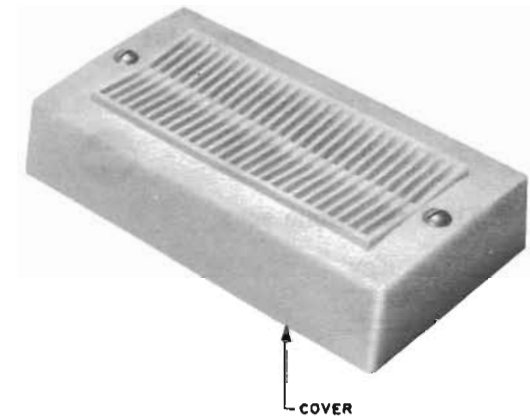


Fig. 9 — 730A Receiver



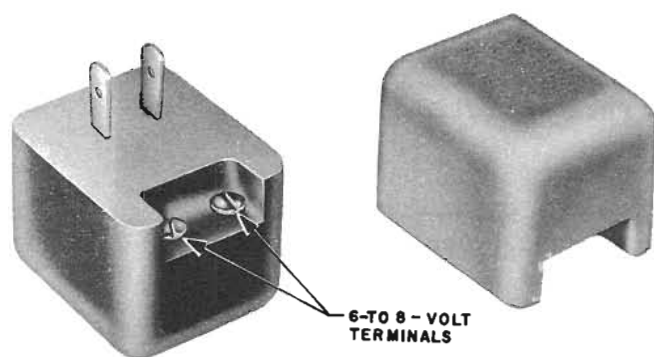


Fig. 10 — 2012A or KS-16184 Transformer

2.07 The 2012A or KS-16184 Transformer:

- Is encased in ceramic.
- Operates on 105 to 130 volts 60 cycles.
- Secondary voltage: 6 to 8 volts 60 cycles.
- Plugs directly into an electric outlet by means of two protruding prongs.
- Supplies power for 51A control unit or dial light.

3.00 OPERATION OF 1A HOME INTERPHONE

3.01 Key positions for telephone sets are shown by the following symbols:

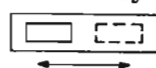
- 511C/D and 558C/D telephone set:

Line Key

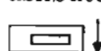


- 711B telephone set:

Line Key



Pushbutton



Central Office Connection



3.02 With line key in position shown, telephone set is connected for incoming or outgoing calls. Ringer will operate on incoming calls with line keys in either position.

Central Office Line Holding

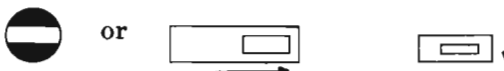
3.03 Central office line may be held to answer interphone or door-answering units by pulling up on hold key. The hold key is the key normally designated as the exclusion key when set is used for other services. Line key is then operated to interphone position (3.04). To re-establish central office connection, operate line key to central office position and depress hold key.

Interphone



3.04 With line key in position shown, telephone set is connected to all other interphone stations by talking through handset. Other interphone stations may answer hands-free through loudspeaker or use telephone set with key in interphone position.

Door Answering



3.05 With line key in position shown, station with receiver off-hook is transferred from interphone to door answering by momentarily depressing pushbutton on 711B or line key on 511C/D or 558C/D telephone sets. To transfer back to interphone, momentarily operate switch-hook or operate line key to central office position and back to interphone.