

## 1A AND 1AA TELEPHONE ANSWERING SETS INSTALLATION

### 1. GENERAL

- 1.01 This section covers the installation of the 1A and 1AA Telephone Answering Sets.
- 1.02 This section is reissued to convert it to letter size and to incorporate material from the addendum in its proper location. In the process of this conversion, marginal arrows have been omitted.
- 1.03 The 1A and 1AA Telephone Answering Sets are installed only upon issuance of a service order or other proper authorization.

### 2. TRANSPORTING

- 2.01 The set should be handled carefully at all times to avoid damage.
- 2.02 Before transporting the machine always:
- (a) Secure the magnetic record-reproduce heads by tying with lacing twine so that the heads are held out of contact with the recording drums (Fig. 2).
  - On the 1AA Set secure the magnetic record-reproduce heads by means of the head lock springs. These springs eliminate the need of lacing twine to tie the heads (Fig. 3).
  - (b) Secure the erasing coils by loosening the clamp screws, moving the clamps toward the front of the machine and tightening the screws again (Fig. 2).
- Note: The above precautions must also be taken on disconnection of the answering set.

### 3. POWER SUPPLY

- 3.01 The answering set is designed to operate on 110-125 volt, 60-cycle a-c power supply.
- 3.02 In no case should the set be directly connected to direct current since serious damage may result.
- 3.03 If direct current is encountered, a KS-15662 Invertor must be used.
- 3.04 The set is protected by means of a 2-ampere fuse which is located inside the cover of the set at the left rear corner near the motor (Fig. 1). Should the machine fail to operate and the Bell System medallion does not light, this fuse should be checked. The fuse is a No. 312002—2-ampere—Littelfuse or equivalent.

The later model 1A Telephone Answering Sets, above Serial No. 1531, and all 1AA Sets are fused with a No. 312001—1 ampere—Littelfuse or equivalent. Earlier type unmodified 1A Sets will continue to use the 2 ampere fuse.

- 3.05 An overload thermal relay is also used to protect the erasing coils in case of failure of operating contacts to open. Such a failure would cause the relay to operate, opening the main power supply circuit. If the machine fails to operate after checking the power supply and fuse, press the reset button on the relay (Fig. 1). The erase coil circuit in the 1AA Set and modified 1A Set is protected only by the overload thermal switch (Klixon).

### 4. LOCATING

- 4.01 In general, locate the answering set in accordance with the customer's wishes. Consideration must also be given to the following:
- (a) The answering set must be located within easy reach of the subscriber's telephone set.
  - (b) A desk, table or shelf sufficiently strong (approximate weight of the answering set is 45 pounds) should be selected.
  - (c) The answering set is arranged for desk installation and need not be fastened.
  - (d) The subscriber should be advised to avoid piling papers, books or other objects on top of set.
  - (e) The set is equipped with 10-foot power cord and plug for connection to a standard power outlet. It may, therefore, be necessary to relocate the subscriber's telephone set so that the power supply outlet is convenient and at the same time a suitable support for the answering set obtained.

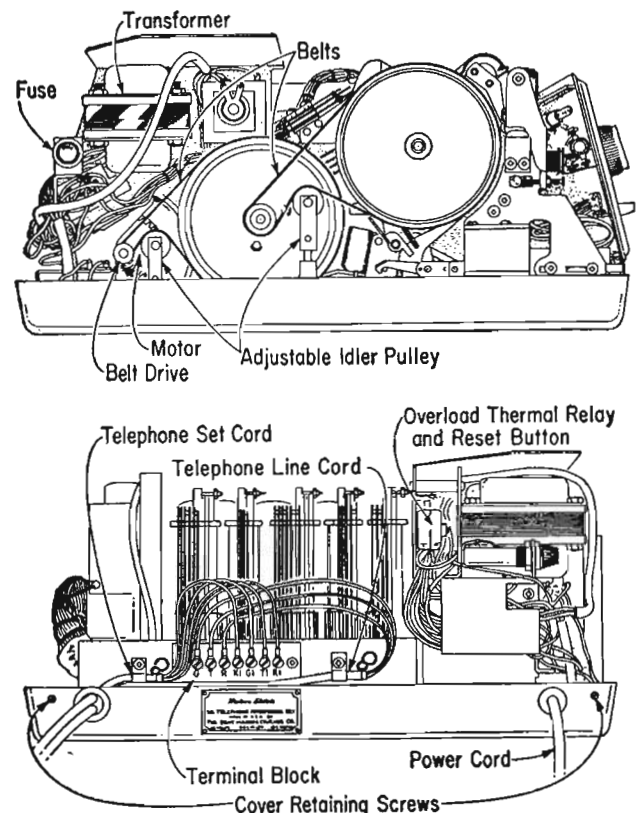


Fig. 1

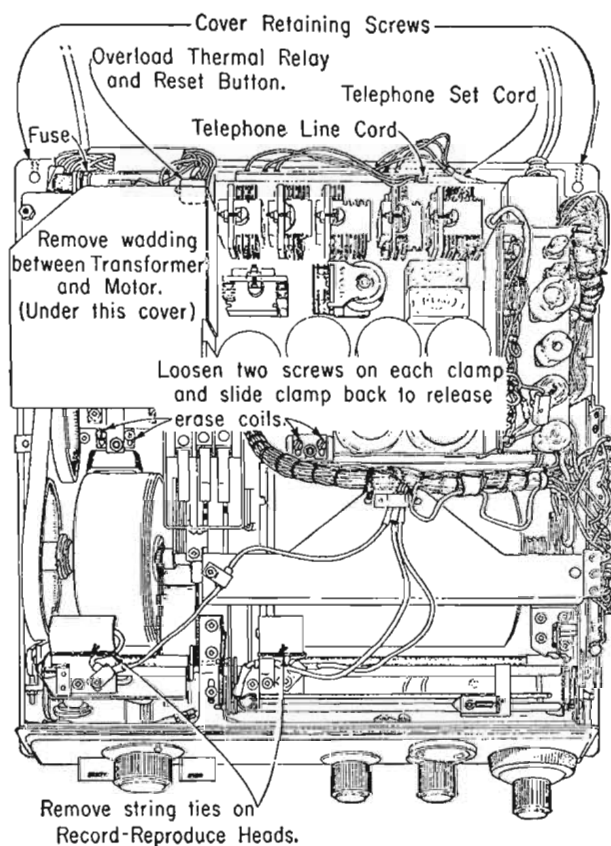
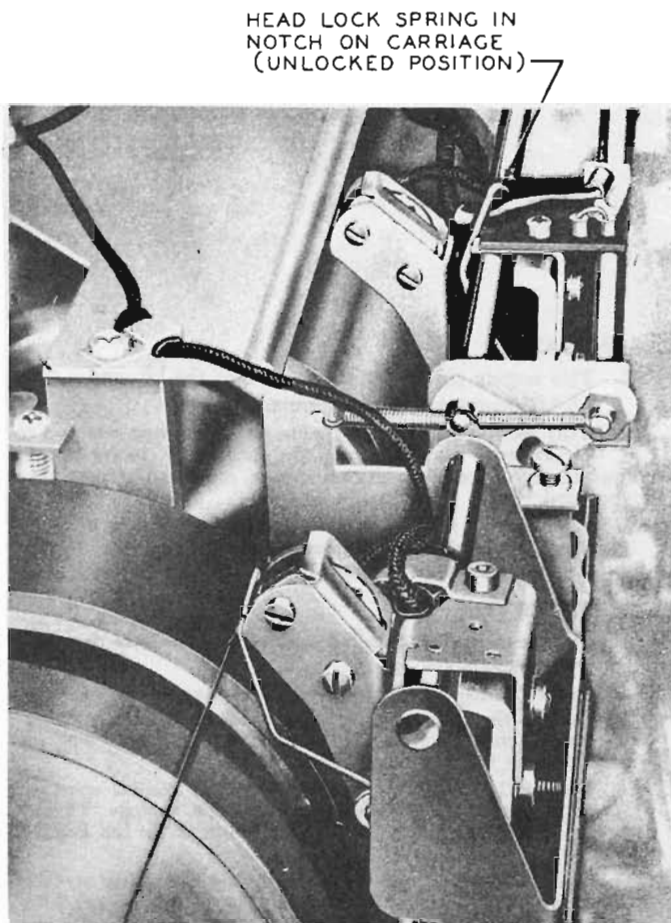


Fig. 2



HEAD LOCK SPRING IN  
TRANSPORTING POSITION

Fig. 3—Record Reproduce Head Lock Springs for 1AA Sets

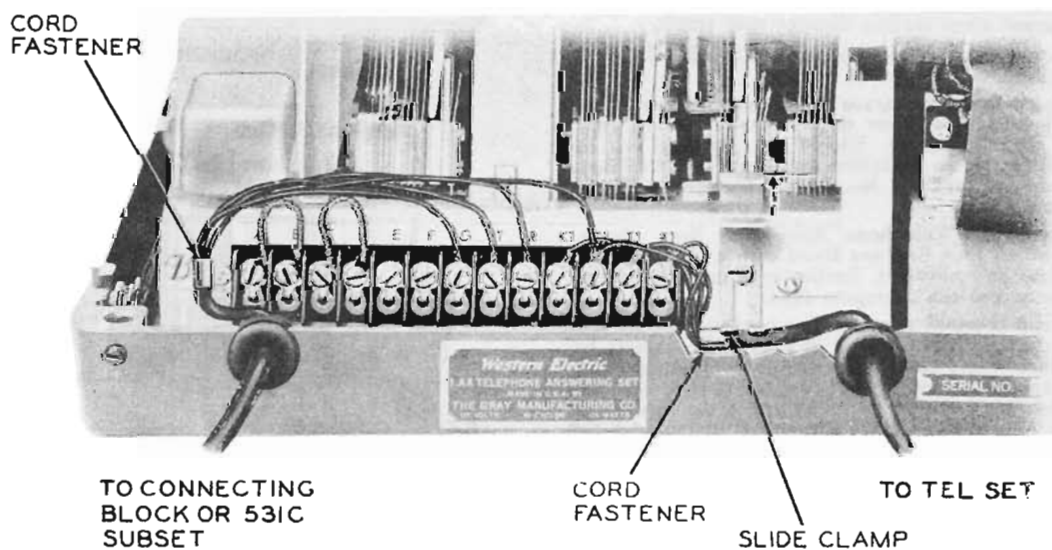


Fig. 4—Terminal Strip for 1AA Set

## 5. INSTALLATION

5.01 **Do not connect the answering set to the power supply until all of the installation work described below is completed.**

5.02 Use suitable protection to avoid marring desks, tables, etc.

5.03 The following order of installation operations is suggested.

(a) To remove the cover loosen the two cover retaining screws at the rear of the machine (see Fig. 2), just far enough to release the cover locking pins. When the cover is released, raise the rear of the cover until it clears the apparatus inside, then slide the cover forward to release the front end.

(b) Remove cord, tissue paper and "caution" tags from each of the 2-magnetic record-reproduce heads.

On the 1AA Telephone Answering Set release the head lock springs holding the magnetic record-reproduce heads and place in notches (unlocked positions) on carriages (Fig. 3).

(c) Remove the wadding inserted between the power transformer and the motor. **Do not attempt to loosen motor or transformer to remove wadding.**

(d) Release the movable coils for erasing messages on the Announcement and Incoming Message drums. To release the coils loosen two screws on each clamp (see Fig. 2), slide the clamps toward the rear of the set, and retighten the screws.

**Caution: Do not turn lock nuts on erase coil brackets. Avoid touching the surface of the drums or allowing dirt or other foreign matter to fall on the drums. If loose dirt is observed, wipe off lightly with a clean KS-2423 Twill Cloth.**

(e) Insert telephone set mounting cord through split rubber grommet and terminate on answering set connecting block as shown in Fig. 1. It may be necessary to cut the rubber grommet. A four-conductor cord must be substituted for existing telephone set mounting cord in all cases.

For the 1AA Telephone Answering Set insert the telephone set mounting cord through the rubber grommet to the right of the connecting block and terminate as required. Anchor this cord by clamping under the slide clamp (Fig. 4).

(f) Use a suitable mounting cord between the 42A connecting block or 531C subscriber set and connecting block in the answering set. Mount 531C subscriber set as covered in Section C31.145. Terminate as shown in Fig. 1.

In the 1AA Telephone Answering Set insert the mounting cord from the 42A connecting block or 531C subset through the rubber grommet to the left of the terminal strip. Anchor cord by placing stay hook under screw on rear of the chassis (Fig. 4).

(g) Make the connections for the type of service required as covered in Section C55.610.

The connections for the 1AA Telephone Answering Set are covered in Section C55.612.

(h) Place grommet in slot in left rear of set. Replace cover and tighten cover retaining screws making sure that grommet is properly seated in slot.

In 1AA Telephone Answering Set place grommets in their respective slots in base of set (Fig. 4).

(i) With the ON-OFF switch in the OFF position, insert the power cord plug in the power outlet.

(j) The machine should now be ready for operation.

5.04 Check the operation of the telephone set. Turn the ON-OFF switch to OFF and make station, dial and ringing tests. If telephone set does not operate in the normal manner, check local wiring and connections to answering set.

## 6. FINAL TESTS

6.01 Upon completion of the installation, make certain that all features of the answering set function properly.

6.02 Check the operation of the answering set by performing the operations described in Section C55.607, Part 4.

6.03 Record a suitable announcement message, e.g., "This is Exchange 6-9970. You are being answered by an automatic machine. This is a test recording being used by the Telephone Company to check the service. Please leave a message commenting on the performance of the machine. You have about 30 seconds recording time. Begin to speak when you hear the first tone signals and continue to speak until you hear the second tone signals. Please speak clearly and distinctly."

6.04 **Immediately** depress the STOP key at the end of the announcement message.

6.05 Check the announcement message. If it is satisfactory proceed with a test of the incoming recording.

6.06 Turn the ON-OFF switch to OFF. Call the test desk and request the test deskman to make a test call and leave a suitable message. Hang up, turn the ON-OFF switch to ON, then turn Function Selector Knob to AUTOMATIC ANSWER and await the incoming call.

6.07 After the answering set has responded to the call and has released the line, check the recorded incoming message to see that it is clear and intelligible.

6.08 Make certain that the subscriber or a competent representative understands the functions and use of the answering set before leaving the subscriber's premises.