

## 1B AND 1BA TELEPHONE ANSWERING SETS

### INSTALLATION

#### 1.00 GENERAL

- 1.01 This section provides installation information for both the 1B and 1BA telephone answering sets.
- 1.02 Handle telephone answering set carefully at all times. Secure both magnetic recording heads by their lock springs before transporting (see Fig. 3).

#### 2.00 LOCATION

Locate answering set in accordance with the customer's wishes, but also consider the following:

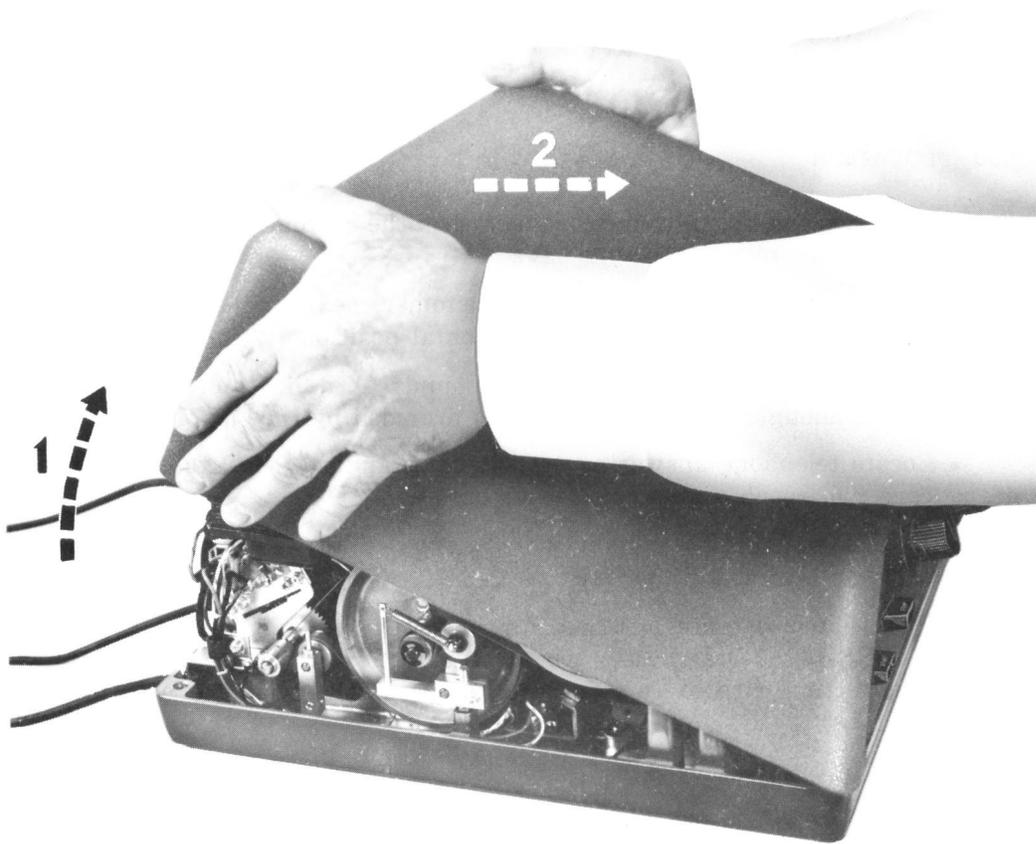
- Locate within easy reach of the customer, next to the associated telephone set, and install in a horizontal position.
- The set weighs approximately 44 pounds. A desk, table, or shelf strong enough to support it shall be provided by the customer.
- Locate telephone answering set so that standard 8-1/2 foot power cord will reach a standard power outlet.
- Avoid placing set where it will be exposed to weather or where extreme heat conditions exist.
- The set will operate satisfactorily in temperatures of 20 to 120 F. Use KS-14782 base heater where temperature may go below 20 F (see section entitled Heater Base for Use with Telephone Answering Sets).

#### 3.00 INSTALLATION

- 3.01 Do not connect the answering set to the power supply until all installation work is completed.
- 3.02 Protect the customer's table, etc from being scratched or damaged.

**3.03** Remove cover of 1B and 1BA answering sets in the following manner:

- Loosen, but do not remove, the two set screws in the rear-bottom edge of base.
- Raise the rear of the cover until its rear-bottom edge clears the apparatus inside. Then slide the cover forward off the front panel (see Fig. 1).



**Fig. 1 — 1-Type Telephone Answering Set Showing Position of Hands and Direction of Movement When Removing Cover**

3.04 Remove the packing materials shown in Fig. 2 between:

- Left side of announcement drum and drive pulley.
- Right side of message drum and slide switch mounting bracket.
- Intermediate pulley, transformer, and rectifier (not used when the set has a transformer stop stud).

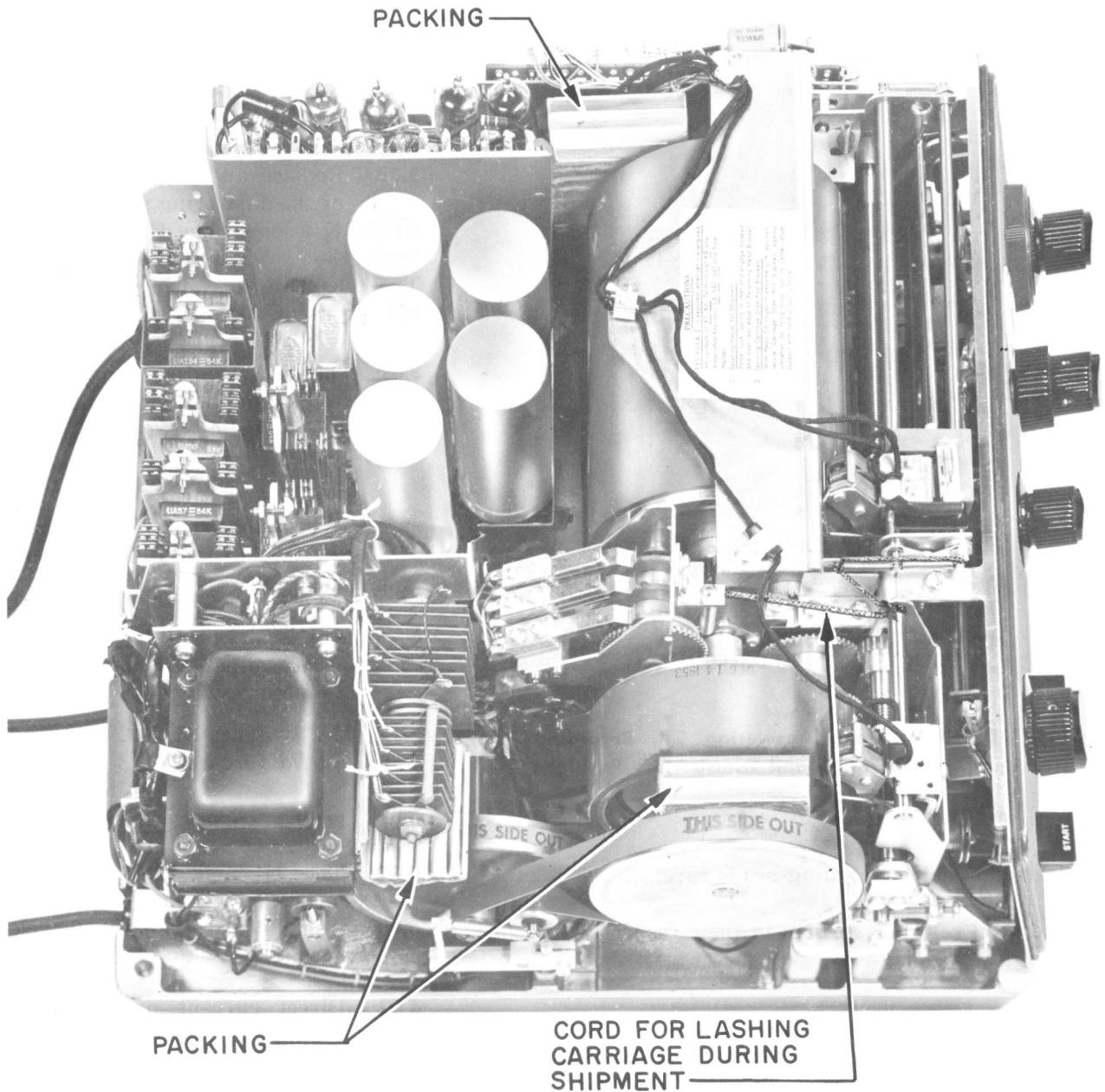
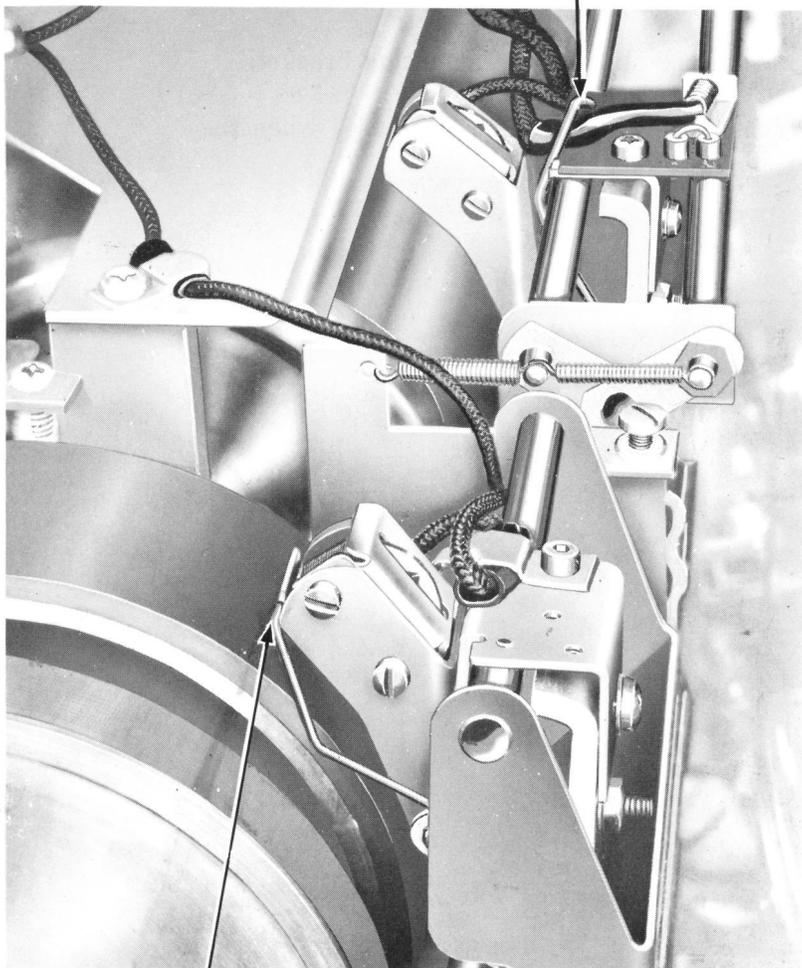


Fig. 2 — 1-Type Telephone Answering Set, Location of Packing Materials

HEAD LOCK SPRING IN NOTCH ON CARRIAGE (UNLOCKED POSITION)



HEAD LOCK SPRING IN TRANSPORTING POSITION

**Fig. 3 – 1-Type Telephone Answering Set, Recording Heads in Operating and Transporting Positions**

- 3.05** Release magnetic recording heads carefully.
- Place head retainer springs in their respective notches in the head carriage brackets (see Fig. 3).



*Avoid touching surface of magnetic bands or allowing dirt or other foreign material to fall on the bands. If loose matter is observed, wipe off lightly with a clean KS-2423 twill jean cloth or other approved lint-free cloth.*

**3.06** The associated telephone set will require a 4-conductor mounting cord terminated as shown in the connection section of this practice. Insert cord through right rubber grommet and fasten to cord retainer bracket. Secure cord with stay-hook mounting screw provided and terminate on terminal strip TS1 (see Fig. 4).

**3.07** Insert a suitable mounting cord through the middle rubber grommet. Secure it with stay-hook mounting screw provided and terminate on terminal strip TS1 (see Fig. 4).

**3.08** Replace and secure the cover of the answering set. With the OFF-ON knob in the OFF position, insert the power plug in power outlet. The telephone answering set should now be ready for operation.

**3.09** The power plug should be secured in the power outlet as described in Section 167-400-210.

- When answering set is energized, 115 volts ac current is on:
  1. Relay contacts K5 and K6.
  2. Terminal K9 and associated resistors.
  3. Switches S4, S42, S43, and F1 fuse holder.

**4.00 POWER SUPPLY**

**4.01** The 1B and 1BA telephone answering sets are designed to operate on 105- to 125-volt 60-cycle ac power supply.

**4.02** Direct current must not be connected to the telephone answering set. If dc is the only available power supply, a KS-15662, List 1 inverter must be used. Installation information regarding the KS-15662,

List 1 inverter is covered in section entitled KS-15662 DC-AC Inverter for Use with Telephone Answering Sets.

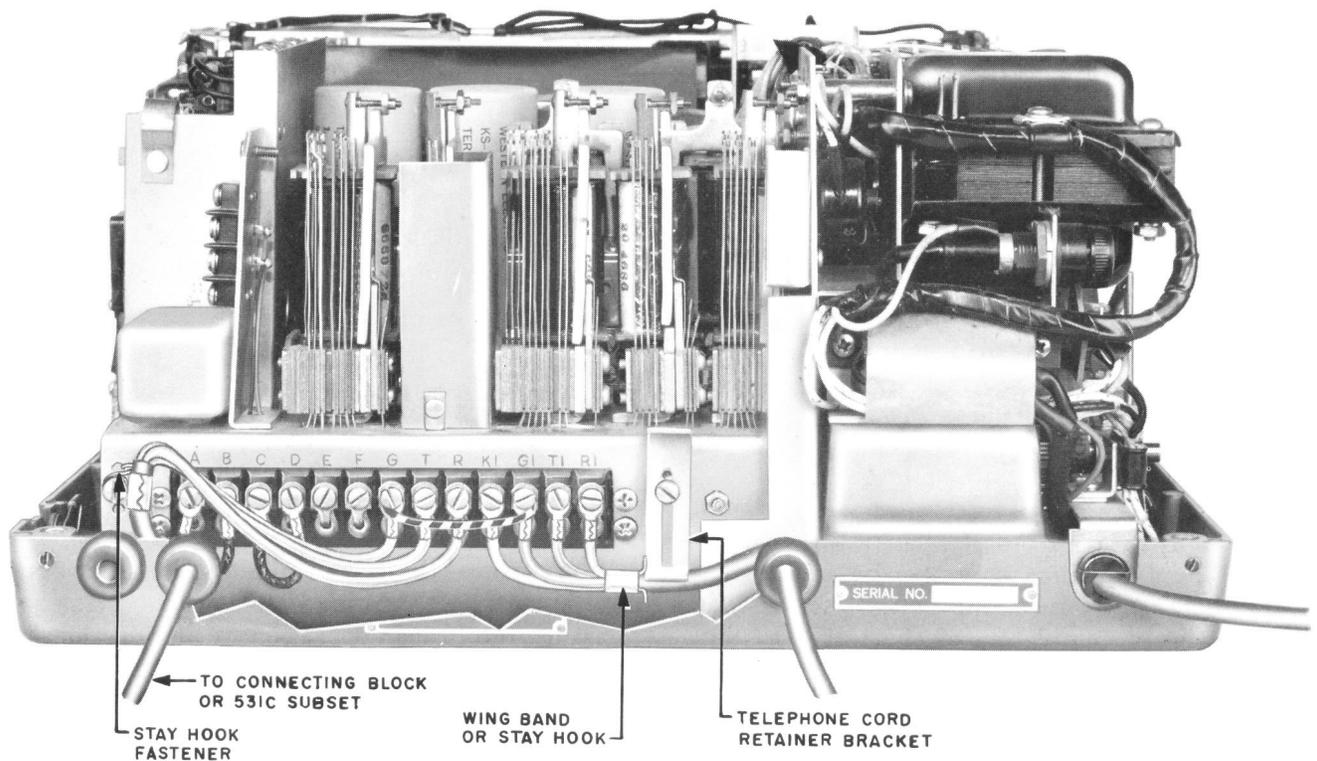
**4.03** A 1-ampere fuse (3AGC1 ampere or equivalent) and manual reset thermal time relay K9 are provided for protection. If the Bell System medallion does not light when OFF-ON knob is turned on, check this fuse and press the reset button on the thermal time relay (see Fig. 5).

#### 5.00 FINAL TEST

**5.01** With OFF-ON knob in OFF position, make station dial and ringing test. During this test the telephone must operate in the normal manner. Before placing cover on set, check visually for the following:

- Foreign material in set, dirt on drums and bands, and excessive oil on motor or drive belts.

- Check relays and switches for contact follow and gap.
- End play in feed screws, carriage bails, and drum assemblies.
- Proper engagement of latch in drum notch:
  1. Alignment in notch.
  2. Full engagement in notch, particularly of talk-out latch which may become disengaged as a result of tying the bails for shipment.
- Proper dress of head leads.
- Detent action of slide switch.
- Alignment and flyback of S8.
- Drive-belt tension and alignment.
- Head locking springs disengaged from heads and resting in notch on carriage and not on slide rod.



**Fig. 4 — 1-Type Telephone Answering Set Showing Mounting, Cord Fastening, and Termination**

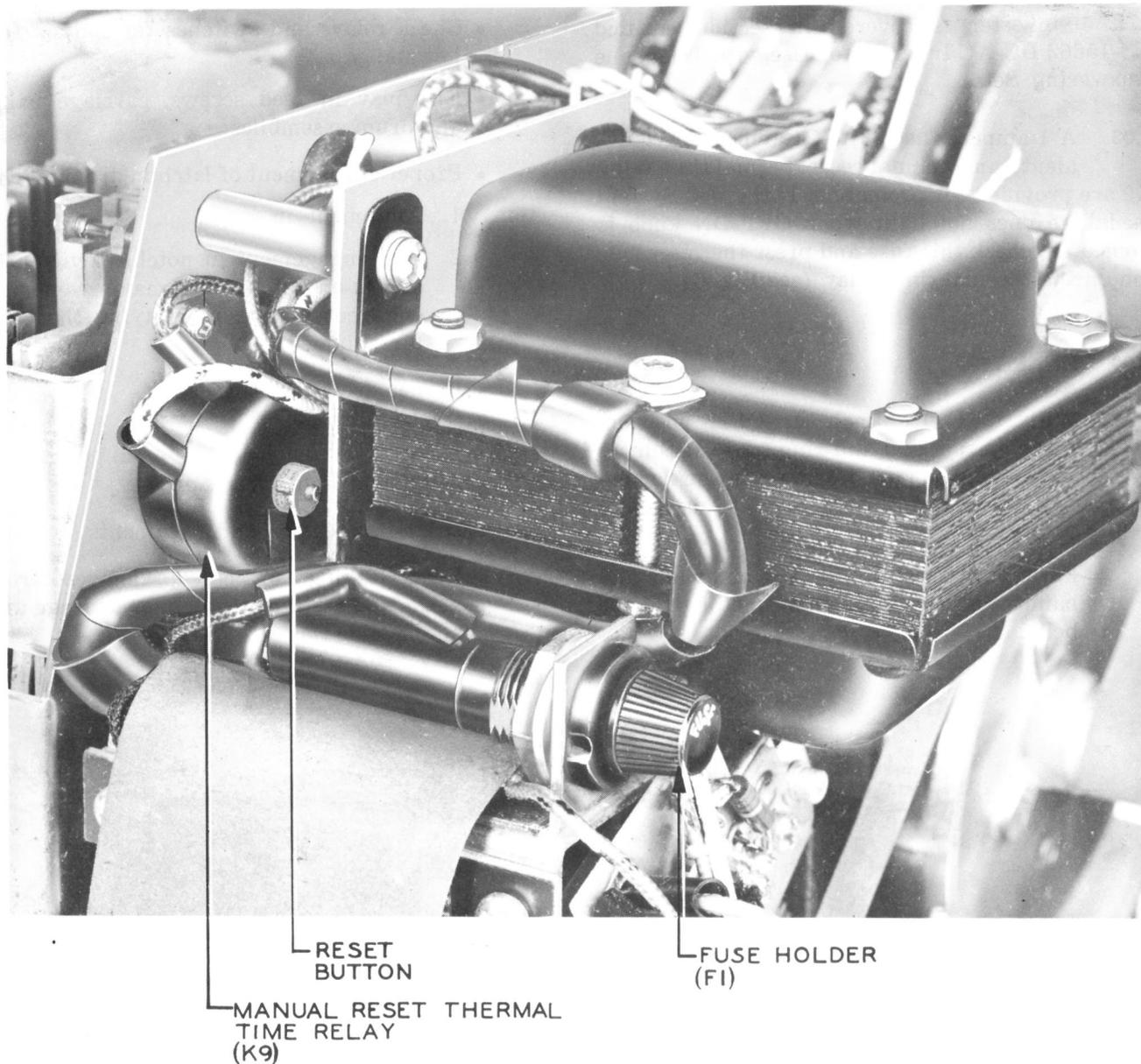


Fig. 5 — 1-Type Telephone Answering Set, Fuse Holder and Reset Button of Thermal Time Relay (K9)

**5.02** The following test message is suggested because an incoming call to the customer may interrupt completion of the tests:

**Example:** You are being answered by a telephone answering set on (use customer's telephone number). This service is being tested by the telephone company and will be ready for service shortly. Please call back. Thank you.

**5.03** Have test desk originate calls to the station connected to the telephone answering set to assure the proper operation of all functions.

**5.04** Instruct customer regarding correct operation and against placing objects on the telephone answering set.