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KS-19594 DIALER

DESCRIPTION AND OPERATION

1. GENERAL

1.01 This section is reissued to change the title and to include information on new models and applications for the dialer. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.02 The dialer unit is placed in a convenient location near the associated telephone set and, although it is electrically connected with a

short cord, it does not interfere with the normal usage of the set.

2. DESCRIPTION

2.01 The KS-19594 dialer consists of a magnetic recording repertory dialer unit, a detachable dial-in unit, a wall mounted power supply, and associated interconnecting cords. A typical unit installation is shown in Fig. 1.

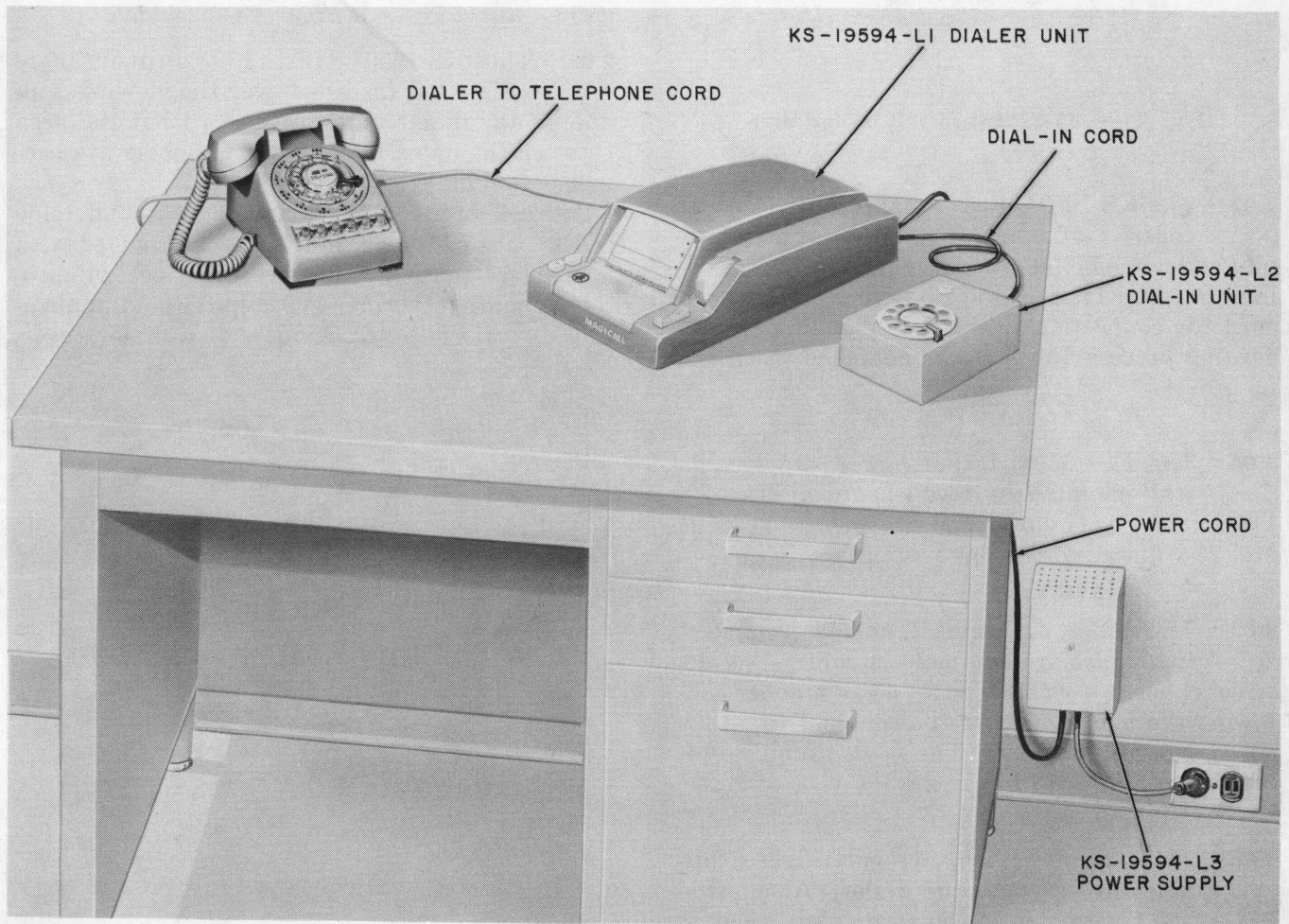
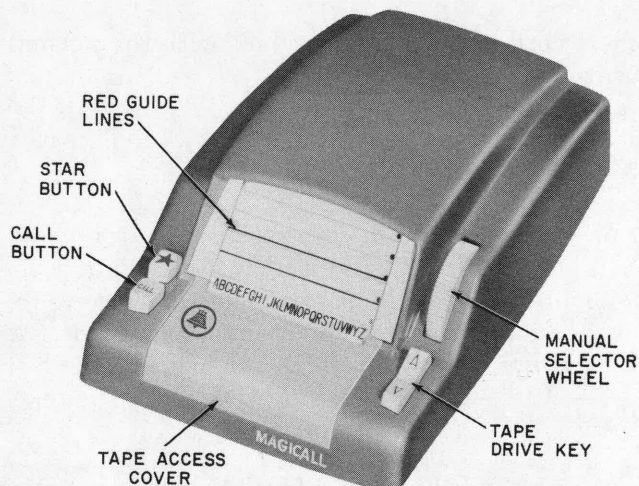


Fig. 1 — KS-19594 Dialer — Typical Installation

**2.02** The KS-19594, List 1 dialer unit (Fig. 2) contains the record-reproduce and scanning mechanism, and a tape cartridge.



**Fig. 2 — KS-19594, List 1 Dialer Unit**

**2.03** The KS-19594, List 2 dial-in unit (Fig. 3) consists of a motor assisted rotary-type dial and a WAIT lamp for use during the recording process. It is equipped with a plug-ended cord for connection to the dialer during the recording process and must be detached when not in use.

**2.04** The KS-19594, List 3 power supply is a wall-mounted unit which connects to a 115-volt, 60-cycle outlet and provides 18-volts dc and 28-volts ac to the dialer unit.

**2.05** The dialer, dial-in unit, and interconnecting cables are available in color. The desired color is specified by a dash number following the list number of the components in accordance with Table A. The power supply unit is available in light olive gray only.

**2.06** Table B shows the tape cartridges available for use with the dialer. Also listed are cords, covers, and an adapter plate used as replacement items in maintenance or to provide services features listed in the table.

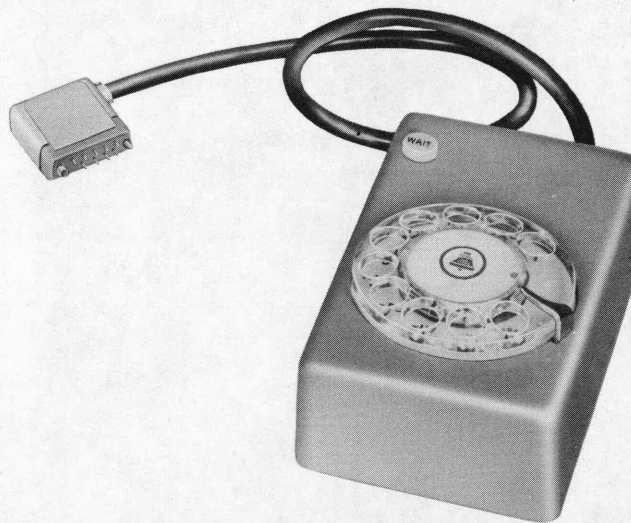
**TABLE A**

**AVAILABLE COLORS**

| DASH NUMBER | COLOR       |
|-------------|-------------|
| -3          | Black       |
| -51         | Moss Green  |
| -58         | White       |
| -60         | Light Beige |
| -61         | Light Gray  |

**2.07** For convenience in ordering, list numbers have been assigned to complete dialer assemblies; consisting of dialer, dial-in unit, power supply, and necessary interconnecting cords, or to combinations of these units to provide various features. Table C shows the list numbers together with the service features provided.

**2.08** The KS-19594, List 15 adapter plate (Fig. 4) is installed over the viewing window of the dialer unit to mask all but the area between the index lines. Guide numbers are provided for indexing with the red line on the KS-19594, List 14 tape cartridge. The underside of the ends of the adapter plate is provided with a pressure sensitive adhesive, with peel-off protective paper covering, to facilitate field application directly over the window of a dialer cover.



**Fig. 3 — KS-19594, List 2 Dial-In Unit**

TABLE B — KS-19594 DIALER, COMPONENTS AND USES

| LIST NO. | COMPONENT                     | DESCRIPTION   | INTENDED USE   |
|----------|-------------------------------|---|--|
| L4       | Tape cartridge                | 400 listing capacity recording tape with markings to provide alphabetical grouping of names (and telephone numbers) with single red line for indexing against alphabet engraved at bottom of viewing window.  | General use where 400 entries are sufficient.  |
| L5       | Tape cartridge                | Same as List 4 cartridge except has 1000 listing capacity.  | General use where 1000 entries are desired.  |
| L6       | Tape cartridge                | Same as List 5 except alphabetical grouping and red index line are not provided.  | Used where grouping of entries on individual basis is required.  |
| L14      | Tape cartridge                | Similar to List 6 cartridge except that each line is consecutively numbered from 1 to 1000 on left-hand side of tape. An index line is provided to index the line numbers to guide numbers on the KS-19594, List 15 adapter plate. Tape can be provided with names and telephone numbers recorded in accordance with customer-furnished list. | For use with the KS-19594, List 103 dialer intended for motel-hotel reservation service.   |
| L7       | Dial-in cord                  | 6-conductor cord terminated at one end by 9-contact plug. Other end terminated by tinned leads for solder connection to dial-in unit. Available in five colors (see Table A).   | Used to connect KS-19594, List 2 dial-in unit to dialer.   |
| L8       | Power cord                    | 4-conductor cord terminated at each end by strain relief and spade tips. Furnished in five colors. (see Table A).   | To connect dialer to KS-19594, List 3 power supply.  |
| L9       | Dialer telephone cord         | 6-conductor cord terminated at both ends by strain relief and spade tips. Furnished in color (see Table A).   | To connect dialer unit to the telephone set.   |
| L10      | Cover                         | CYCOLAC plastic cover available in five colors (see Table A).   | Component of KS-19594, List 2 dial-in unit.  |
| L11      | Cover                         | CYCOLAC plastic cover available in five colors (see Table A).   | Component part of KS-19594, List 1 dialer unit.  |
| L12      | Cover                         | Similar to KS-19594, List 11 cover except provides lamp and hood for illuminating viewing window.   | Component part of the KS-19594, List 101 dialer designed for use in areas of subdued lighting.   |
| L15      | Adapter plate<br>(see Fig. 4) | Molded acrylic plate engraved with numerals 1 through 9. Provided with pressure sensitive adhesive on back side to secure to window.  | Mounts on viewing window of KS-19594, List 1 dialer unit to provide numerical indexing guide when the KS-19594, List 4 tape cartridge is used. |



TABLE C

## KS-19594 DIALER

## MAJOR COMBINATIONS AND INTENDED USES

| LIST NO. | DESCRIPTION   | INTENDED USE   |
|----------|---|--|
| L100     | Consists of 1 each KS-19594-L1 dialer with KS-19594, List 4 tape cartridge; KS-19594, List 2 dial-in unit; KS-19594, List 3 power supply; and connecting cords. | General use where 400 listing capacity repertory is sufficient. Can be used with any telephone set listed in the section entitled KS-19594 Dialer Connections.     |
| L101     | Same as List 100 except that KS-19594, List 1 dialer unit is supplied with the KS-19594, List 12 cover.   | General use in areas of subdued lighting where illuminated viewing window is desired.  |
| L102     | Similar to List 100 except no KS-19594, List 2 dial-in unit is provided.  | For use in multiple installations where a single dial-in unit can serve several stations.  |
| L103     | Similar to List 100 except that KS-19594, List 1 is supplied without tape cartridge but with KS-19594, List 15 adapter plate installed.                         | For use with the KS-19594, List 14 tape cartridge as components of the 627-type hotel-motel reservation set. List 14 tape cartridge must be ordered separately.    |
| L104     | Same as List 100 except that the KS-19594, List 1 is supplied with the KS-19594, List 5 tape cartridge.   | General use where 1000 listing capacity repertory is desired.  |
| L105     | Consists of a KS-19594, List 1 dialer unit without a tape cartridge.  | Used as a replacement for a defective dialer when customer tape cartridge is suitable for installation in replacement unit and other system units are serviceable. |

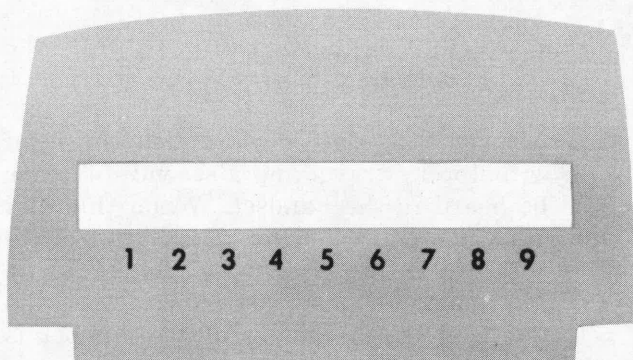


Fig. 4 — KS-19594, List 15 Adapter Plate

## 3. OPERATION

## 3.01 To record a telephone number.



*Recording a number with the dial-in unit will automatically erase and replace a number previously recorded in that space on the magnetic tape.*

- (1) Check current directory listing of number.
- (2) Connect the dial-in unit (Fig. 3) to the rear of the dialer unit with the cord and plug supplied. This will automatically change the dialer from dial to record operation.

- (3) Raise the access cover on the front of the dialer to expose the writing tape.
- (4) Locate a blank space in the desired portion of the tape by operating the tape drive key and/or the manual tape selector wheel. The selector wheel must be depressed to engage the tape drive gears.
- (5) Place name and number upon the tape (see 3.07 for method of typing listing on tape).



***When entering listings on tape, it is important to write in the blank space and not in the upper or shaded area of the space.***

- (6) Lower the access cover and using the selector wheel, rotate the tape until the new entry is between the two guide lines on the window.
- (7) Depress the CALL button on the dialer which causes the WAIT lamp on the dial-in unit to light momentarily. After the lamp goes out, the unit is "ready to record."
- (8) Using the dial on the dial-in unit, record the complete telephone number (including area code if needed). The WAIT lamp must be off before dialing each digit.



***Do not force or retard the dial. This will cause a number to be recorded incorrectly.***

- (9) When all digits of the number have been dialed, depress the STAR button on the dialer unit.
- (10) If more than one number is to be recorded, move the tape to the next position and repeat the process in steps (3) through (9). Disconnect the dial-in unit when all numbers have been recorded.
- (11) The dialer is now ready to use.

### **3.02 To record a number requiring an access code (such as "9") and a second dial tone:**

- (1) Complete operations (1) through (7) of 3.01.
- (2) Dial in the code number.
- (3) Depress the STAR button.
- (4) Dial the remaining digits of the number.
- (5) Depress the STAR button.
- (6) Proceed as in (10) of 3.01.

### **3.03 To place a call:**

- (1) Locate the desired name and number on the directory tape by use of the tape drive key and manual selector wheel.
- (2) Place the desired name between the two guide lines on the window.
- (3) Lift the telephone handset and wait for dial tone.
- (4) Depress the CALL button. The number is now dialed automatically.

### **3.04 To place a call containing an access code:**

- (1) Locate the desired name on the directory tape.
- (2) Place the name between the two guide lines and lift the handset.
- (3) When dial tone is heard, depress the CALL button.
- (4) After the access code is dialed the head will stop its travel and a second dial tone will be heard in the handset. When this dial tone is heard, depress the STAR button.
- (5) The magnetic head continues across the tape and the remainder of the number is dialed.

**3.05** If a space on the tape contains an access code and night lines or other situations eliminate the need for using such a code, it can be bypassed as follows:

- (1) Locate the desired name on the directory tape and place it between the two guide lines.
- (2) Depress the CALL button *before* lifting the telephone handset.
- (3) Wait until the dialer stops after dialing the special code.
- (4) Lift the telephone handset and wait for dial tone.
- (5) Depress the STAR button.

**3.06** If when placing a call with the dialer from a key telephone set it becomes necessary to answer a call from another line, the dialer can be stopped immediately. This is done by moving the listing on the tape slightly off the existing line by using the manual selector wheel. If the dialer is not stopped and the incoming call is answered, the dialing pulses from the dialer will carry over into the incoming call.

**3.07** If it is desired to enter listings on the directory tape using a typewriter, remove the tape cartridge from the dialer as follows:

- (1) Raise the access cover on the front of the dialer (Fig. 2).
- (2) Raise the front end of the dialer.
- (3) Press firmly on the release bar which rests on the top of the tape to cause the cartridge to snap out of the bottom of the dialer.
- (4) Pull the tape cartridge forward to clear the hinges.

**3.08** *To place the tape in the typewriter:*

- (1) Remove the roller (platen) from the typewriter.

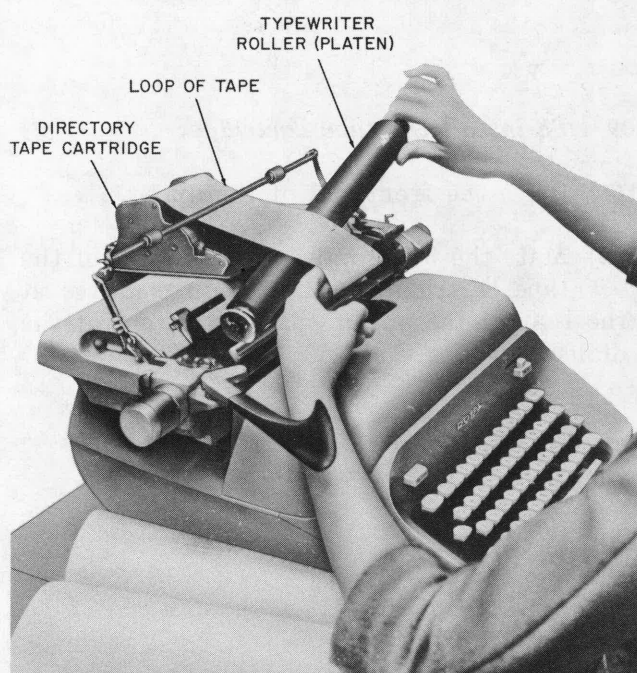
(2) Make about a 6-inch loop in the directory tape by placing a finger through the side hole under the tape near the top of the cartridge and pulling upward.

(3) Insert typewriter roller through this loop, Fig. 5.

(4) Replace the typewriter roller, resting the tape cartridge on the rear of the typewriter carriage or a suitable support of books, etc. (See Fig. 6.)

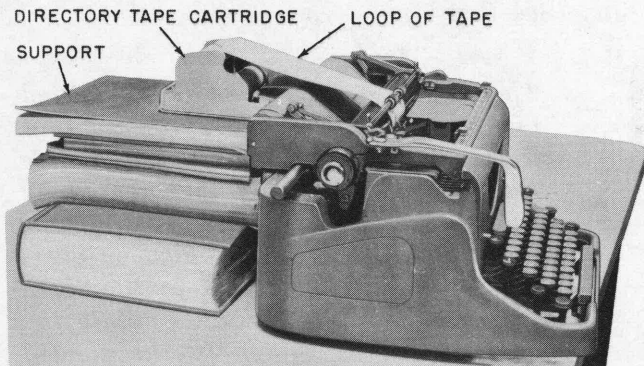


*The tape cartridge must be supported on the rear of the typewriter so that the inner surfaces, which are oxide coated, will not rub or be creased by snagging under the roller as the tape is advanced. Care must also be exercised to align the tape in the typewriter so that the typing is within the clear space, as typing in the shaded area may cause embossing of the tape with resultant errors in dialing.*

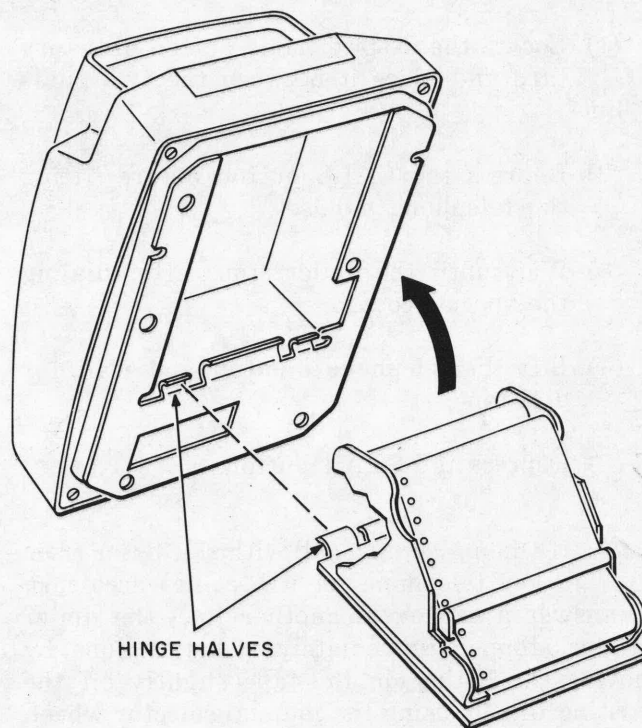


**Fig. 5 — Placing Tape Cartridge in Typewriter**





**Fig. 6 — Support for Tape Cartridge — Older Model Typewriters**



**Fig. 7 — Installing Tape Cartridge**

**3.09 To install the tape cartridge:**

- (1) Raise the front end of the dialer.
- (2) Mate the hinge halves on the rear of the tape cartridges with the hinge halves at the rear of the opening in the bottom of the dialer (see Fig. 7).

- (3) Push upward on the tape cartridge to lock it into place.

**3.10** Remove the tape cartridge from the dialer when erasures are required to change a name or number. All eraser particles must be brushed off the tape before replacing the cartridge.