

F-56503 TYPE TELEPHONE SET USING KS-19594 DIALER

IDENTIFICATION, OPERATION, INSTALLATION, CONNECTIONS, AND MAINTENANCE

1. GENERAL

1.01 This section covers the identification, assembly of parts, installation, operation, connection and maintenance of the F-56503 type telephone set.

1.02 There are two basic versions of the F-56503 type telephone set available; the F-56503-A, for use with the KS-19594 List 103 repertory dialer, for dial exchange areas and the F-56503-B, without the repertory dialer, for use in manual exchange areas.

1.03 This telephone set is primarily intended for installation in national chain motels to be used by the motel customers in making reservations at other locations within the chain. It is designed for outgoing calls only.

1.04 The illustrations used in this section are of prototype models; production models may differ slightly.

2. IDENTIFICATION

2.01 The F-56503 type telephone set (Fig. 1) is a two-piece molded fiberglass unit approximately 17 inches high, 20 inches wide, and 13 inches deep. It is equipped with a lighted billboard area for displaying customers advertisement.

2.02 The manual version of the telephone set consists of the two-piece unit, a G3A handset, a B-696117 jack extension cord, and a blank cover panel. Two F-15T8CW fluorescent lamps are required and must be ordered separately.

2.03 The dial version (Fig. 1 and 2) consists of the two-piece unit, a G3A handset, a B-696117 jack extension cord, a front cover designed to accept the repertory dialer unit, and the following components which must be ordered separately:

One KS-19594 List 103 dialer
One KS-19594 List 14 tape cartridge
Two F-15T8CW fluorescent lamps

2.04 The KS-19594, List 103 dialer consists of the KS-19594, List 1 dialer unit with KS-19594, List 15 adapter plate, KS-19594, List 2 dial-in unit, KS-19594, List 3 power supply, and a set of interconnecting cables.

2.05 The index window of the KS-19594, List 103 dialer unit is covered with the adapter plate which allows only the entry placed between the two guide lines to be seen. This plate has a numerical index (0 to 9) along the bottom to correspond to each group of 100 lines on the tape. Replacement adapter plates are available for maintenance as part KS-19594, List 15.

2.06 The KS-19594, List 14 tape cartridge is a 1000-entry cartridge. The lines are numbered from 0 to 1000. When required, the customer shall arrange to have the cartridge printed and recorded with motel locations and telephone numbers. A KS-19594, List 14 cartridge will be supplied at the initial installation.

2.07 The F-56503 type telephone set and dialer are available in color. The desired color is specified by a dash number following the list number of the dialer unit or F-specification telephone set in accordance with Table A. The KS-19594, List 3 power supply unit is available in light olive gray only.

TABLE A
AVAILABLE COLORS

DASH NUMBER	COLOR
-58	White
-60	Light Beige

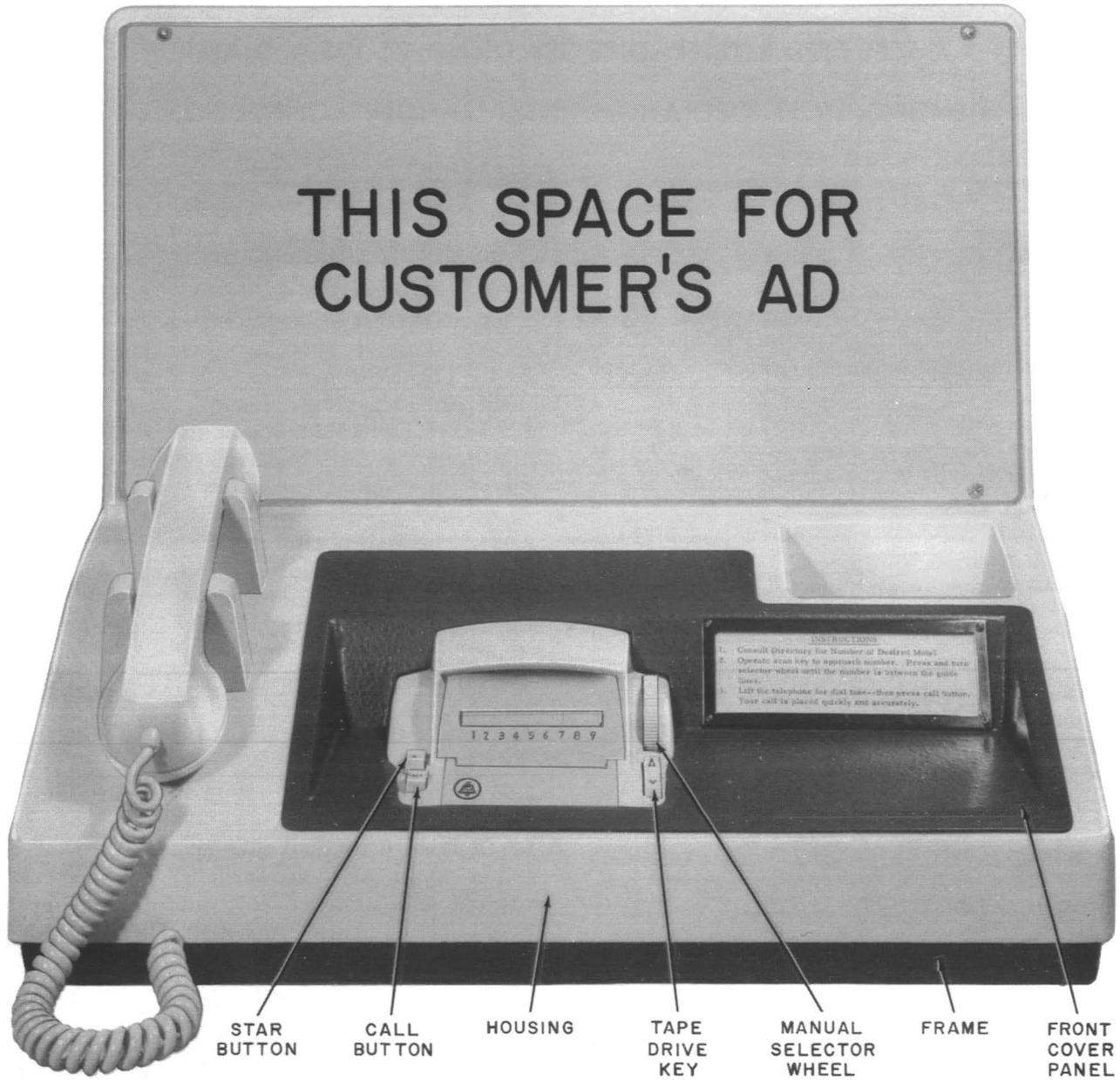


Fig. 1 — F-56503-A Telephone Set

3. ASSEMBLY OF PARTS

3.01 The two-piece molded fiberglass unit consists of the outer housing and cover panel and a frame assembly to which the telephone circuit, lighting circuit, and power-cord are pre-connected.

3.02 The telephone circuit for the manual and/or dial version is made up of a 425E network, standard switch hook assembly and a 4000-ohm resistor to replace the ringer circuit. Since the set is intended for outgoing calls only, no ringer is provided.

3.03 The lighting circuit is designed for two F-15T8CW fluorescent lamps and is wired directly to the power line. No provision is made for a light switch.

3.04 The housing is secured to the frame by three captive and one loose screw. The cover is clip mounted to the housing.

3.05 The handset is a G3A handset equipped with a spring cord.

3.06 The advertisement for the lighted billboard area and the operating instruction card will be furnished by the customer and installed by the craftsman at the time of the telephone set installation.

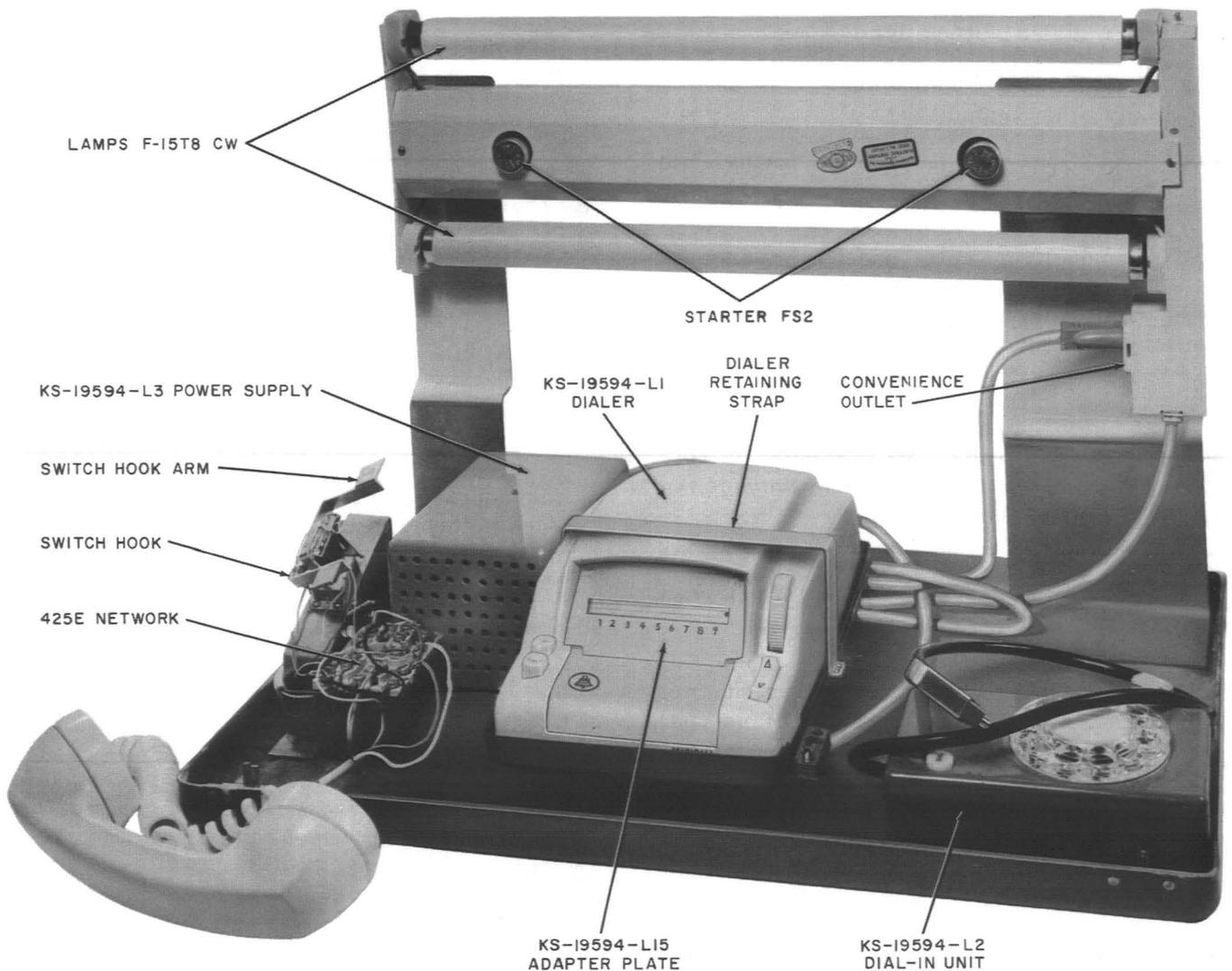


Fig. 2 — F-56503-A Telephone Set — Interior View

4. OPERATION

4.01 To place a call from the F-56503-A telephone set:

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

4.02 The F-56503-B telephone set is used as any other manual set.

4.03 To record a number in the F-56503-A telephone set:

- (1) Remove front cover panel by raising forward edge of panel just enough to free the front clips, then move panel forward to disengage rear clips.



Do not raise forward edge of cover panel too high as it may damage rear clips or housing.

- (2) Raise the access cover on the front of the dialer to expose the writing tape.
- (3) Using the tape drive key and/or the manual selector wheel, locate a blank space in the desired portion of the tape.
- (4) Write or print the desired name and telephone number on the tape. Refer to Section 512-125-100 for method of typing entries on cartridge tape.



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

(5) 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.

(6) Insert the connector plug of dial-in unit into the jack mounted on the right front side of the dialer pan. This will condition the dialer for recording.

(7) Depress the CALL button on the dialer unit which causes the WAIT lamp on the dial-in unit to light momentarily. After the WAIT lamp goes out, the unit is "ready to dial."

(8) Using the dial on the dial-in unit, record the complete telephone number, including area codes. 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 (4) through (9) for each number. Disconnect the dial-in unit when all numbers have been recorded.

(11) Install the cover panel by sliding it back to engage the rear panel clips and pressing down on the forward edge of the panel to engage the front clips.



The dial-in unit connector plug must be removed from the dialer jack before the cover panel can be replaced.

(12) The dialer is now ready for use.

4.04 If it is necessary to make erasures to change a name or telephone number on the tape, the tape cartridge must be removed from

the dialer. Refer to 8.04 for instructions to be followed in removing the cartridge. All erasure particles must be brushed off the tape before replacing the cartridge. Recording the new number onto the tape with the dial-in unit will automatically erase the old number on the magnetic portion of the tape.

5. INSTALLATION

5.01 The location for the F-56503 type telephone set should be selected with consideration to the following:

- (1) Location must be near a source of 115-volt, 60 cycle ac power not under control of a switch.
- (2) In placing the set, magnetic fields, such as electric typewriters, desk calculators, cash registers, etc, must be avoided.
- (3) The power and telephone cords to the set must be placed so as not to present a hazardous condition.

5.02 Exercise caution in unpacking the fiberglass housing and the dialer units to prevent breaking or marring of outer surfaces.

5.03 Install the F-56503-A telephone set in a dial exchange area as follows:

- (1) Remove the housing of the F-56503-A by loosening four housing screws (Fig. 3) and remove the packing detail.
- (2) The hardware to be used in securing the power supply and dialer unit to the frame is packaged inside the housing assembly. Fig. 4 shows the frame with the housing removed.
- (3) Loosen the cover retaining screw on the front of the power supply and remove the cover.
- (4) Secure the power supply chassis to the left rear of the frame using the hardware provided.

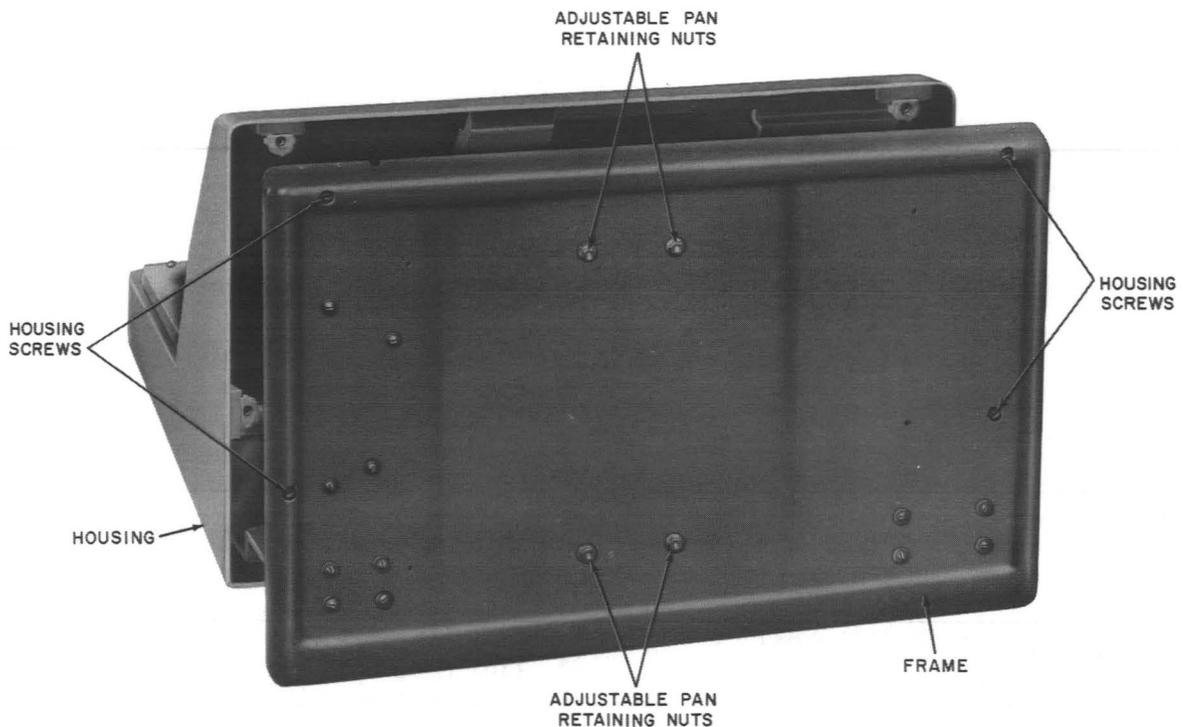


Fig. 3 — Bottom View of Housing and Frame

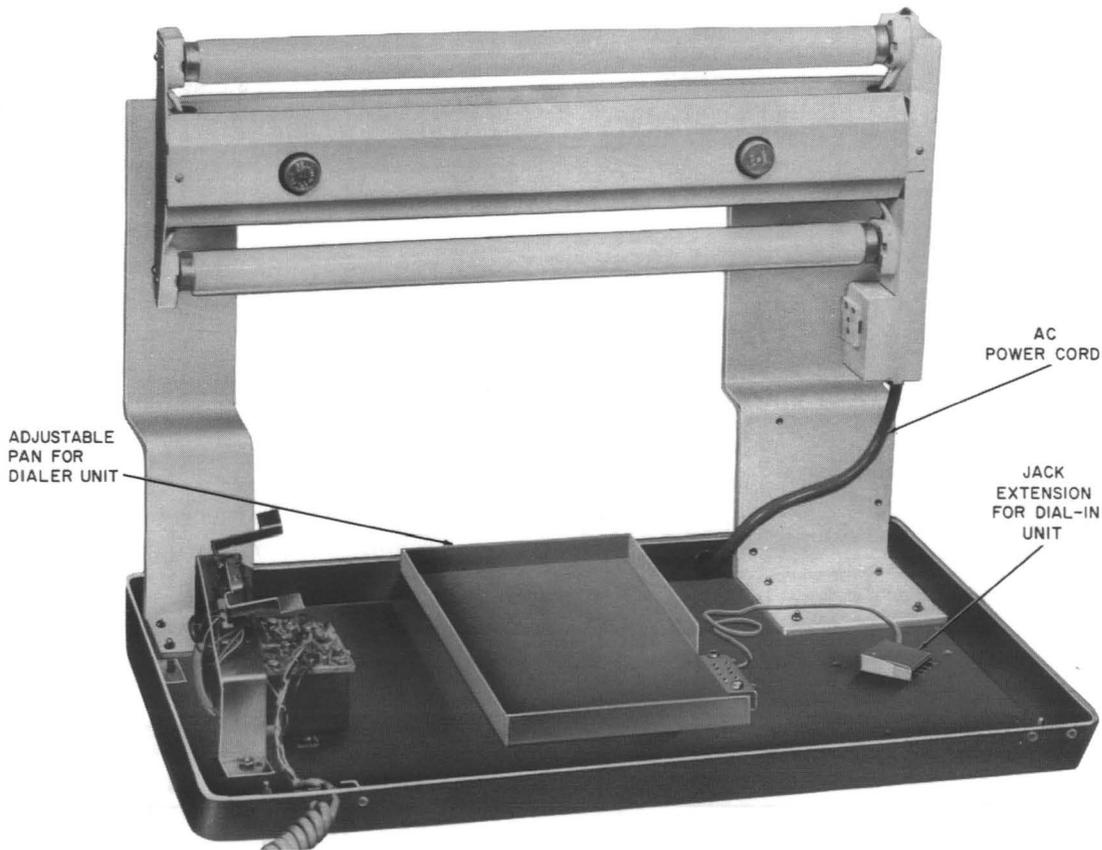


Fig. 4 — Interior View with Dialer Components Removed

(5) Connect the four conductors of the dialer power cord to terminal board TB1 of the power supply as shown on Fig. 5. TB1 is marked with letters indicating the color code of the mating cord conductor.

(7) Place the dialer unit in the pan assembly mounted in the center of the frame (Fig. 4). Connect the jack extension cable connector to the rear of the dialer. Dress the cables to facilitate removal of the dialer unit without disconnecting the jack extension cable.



Do not cut off any excess telephone or power cord. The excess should be folded and secured behind the dialer unit.

(8) Install the retaining strap over the dialer housing and secure the dialer to the pan.

(9) Place the dial-in unit in its storage position in the right front corner of the frame (Fig. 2).

(6) Replace the power supply cover.

(10) Secure the handset cable stay to the left front of the frame.

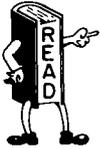


Do not plug power cord into ac outlet until installation is completed.

(11) Install two F-15T8CW lamps in the lamp sockets on the frame.

(12) Connect the power supply input connector to the convenience outlet on the right frame member. Secure the power cord under the cable stay on the rear of the frame.

(13) Make the connections between the dialer components and to the line as outlined in Part 6.



Make certain switch hook plungers properly engage switch hook assembly arms (Fig. 2) before securing housing screws.

(14) After connections have been completed and the unit tested, replace the housing and secure the four housing screws.

Note: If, when replacing the housing, the dialer unit interferes with the seating of the cover-panel, the dialer pan assembly may be adjusted by loosening its mounting hardware and shifting the position of the pan. Securely tighten the hardware after adjusting the pan assembly.

5.04 Install the F-56503-B telephone set as follows:

- (1) Remove the housing by loosening the four housing screws (Fig. 3) and remove the packing detail.
- (2) Secure the telephone handset cord stay to the left front of the frame.
- (3) Install two F-15T8CW lamps in the lamp sockets provided.

Caution: *The F-56503-B telephone set is top heavy and must be weighted or otherwise secured during installation to prevent tipping.*

(4) Make connections to network and line as outlined in Part 6.

(5) Replace the housing.

6. CONNECTIONS

6.01 The connections necessary to connect the F-56503 type telephone set to a dial exchange are shown in Fig. 5.

6.02 To connect the set in a manual exchange area move the (S-W) switch hook lead from the F terminal to the RR terminal of the network.

6.03 If local conditions require the use of a ringer in the installation, the strap between network terminal L1 and K and the 4000-ohm resistor between terminals A and L2 must be removed. The ringer is then installed in the normal manner.

6.04 After all connections have been completed, connect the power cord to a 115-volt, 60 cycle ac outlet which is not under control of a switch.

7. OPERATION TESTS

7.01 Test the F-56503-A telephone set as follows:

- (1) Ascertain that the billboard lamps are secure in their sockets and lighted.
- (2) Using the tape drive key and manual selector wheel, move the tape on the dialer to a **blank** space. Align the blank space between the red guide lines on the window.



Be sure to use a blank space on the tape for recording the test number, as recording a number automatically erases any number recorded in a space.

- (3) Plug the dial-in unit into the jack extension on the right of the dialer.
- (4) Using dial on the dial-in unit, record the number normally called for test purposes.
- (5) Disconnect the dial-in unit.
- (6) Lift the handset and listen for dial tone. Depress the CALL button of the dialer, the test number is now dialed automatically.
- (7) After the test call has been completed, reconnect the dial-in unit and depress the STAR button of the dialer. This will erase the test number. Disconnect the dial-in unit.

7.02 Test the F-56503-B telephone set in accordance with local requirements.

8. MAINTENANCE

8.01 Maintenance of the F-56503 type telephone sets is limited to replacement of lamps, lamp starters, dialer components, tape cartridges, and telephone components.

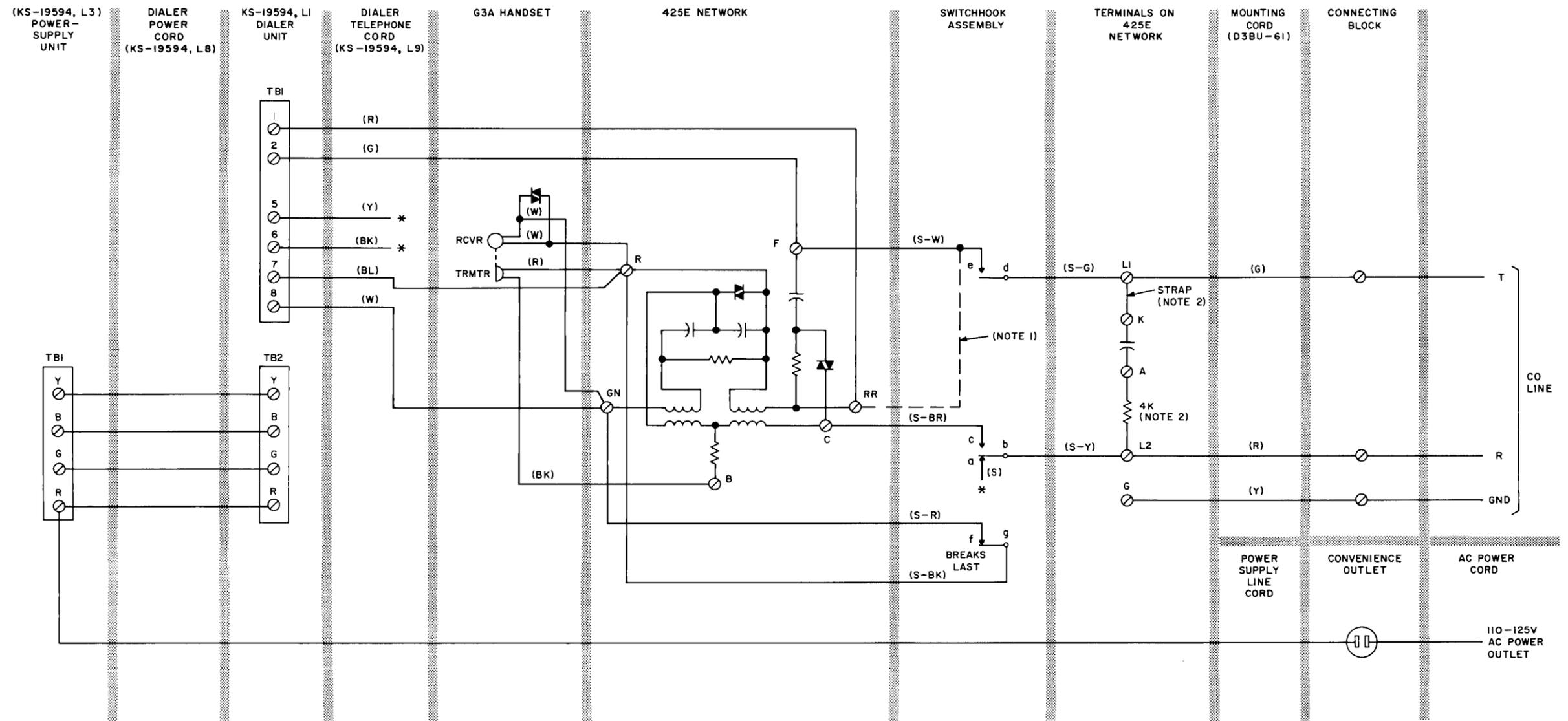
8.02 Disconnect power before working on the set.

8.03 No maintenance is to be performed on the dialer, dial-in unit, or power supply. If maintenance is required, replace the defective unit.

8.04 If a dialer unit is determined to be defective, remove the preprinted tape cartridge as follows and install it in the replacement unit.

- (1) Remove the front cover panel (see 4.03).
- (2) Remove the retaining strap securing the dialer unit to the pan in the center of the frame. Lift the dialer unit from housing.
- (3) Raise the access cover on the front of the dialer unit.
- (4) Raise the front end of the dialer, press firmly on the release bar which rests on top of the tape, and snap the tape cartridge out of the bottom of the dialer.
- (5) Pull the tape cartridge forward to clear the hinges.
- (6) To install the tape cartridge, place the hinges on the rear of the cartridge so that they mate at right angles with the hinges at the rear of the opening in the bottom of the dialer, and push upward on the cartridge to lock it in place.

8.05 Refer to maintenance practices on 500-type telephone sets for procedures to be followed in maintenance of the telephone components.



- NOTES:
1. FOR MANUAL SERVICE MOVE (S-W) SWITCHHOOK LEAD FROM F TERMINAL TO RR TERMINAL OF NETWORK. KS-19594-L1 DIALER AND KS-19594-L3 POWER SUPPLY NOT REQUIRED.
 2. TO CONNECT RINGER, REMOVE STRAP BETWEEN L1 AND K TERMINALS OF NETWORK AND 4,000 OHM RESISTOR BETWEEN A AND L2 TERMINALS. CONNECT RINGER IN NORMAL MANNER.
- * INSULATE AND STORE.

Fig. 5 — F-56503 Type Telephone Set, Connections