

## HAND TELEPHONE SET—220A AND 1220A

### IDENTIFICATION, INSTALLATION, MAINTENANCE, AND CONNECTIONS

#### 1. GENERAL

1.01 This section is reissued to:

- Add piece part information for dial face cards (1220A only)
- Add piece part number for dial hub cover (220A only)
- Add ivory (-50) and red (-53) to color list (Table A)
- Add information on 53A dial lamp
- Show LB1 receiver unit replaces LA1
- Remove reference to 2160A dial lamp transformer

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

#### 2. IDENTIFICATION

2.01 The 220A and 1220A hand telephone sets (Fig. 1 and 2) are dial-in-handset type telephone sets. These sets are complete telephones except for the ringer and line switch which are housed in a telephone base.

#### ORDERING GUIDE

Set, Telephone, Hand 220A-\*

Set, Telephone, Hand 1220A-\*

##### (a) *Replaceable Components*

- Cord, Handset H4DB-\*
- Cord, Handset H5AA-\*
- Dial, 10A (220A)

- Dial, 80B2A (1220A)
- Form, E5002A (number card)
- Lamp, 53A
- Lamp, 53B
- Network, 854A (220A)
- Network, 861A (1220A)
- P-22F5\* Card (1220A only)
- P-25E803, Number Card Retainer
- P-28E320, Light Seal
- P-88E0\* Cover (220A only)
- Receiver Unit, LA1 (early models)
- Receiver Unit, LB1 (current models)
- Transmitter Unit, T1

##### (b) *Associated Apparatus or Equipment (order separately)*

- AC1-\* Telephone Base
- AD1-\* Telephone Base
- 2012A Transformer (for other suitable transformers, see section on transformers)
- Cord, Handset H4DB
- Cord, Handset H5AA (required for tip party identification)

SECTION 502-320-100

(c) *Customer Instruction Booklet*

- GN-2426 (220A)
- GN-2433 (1220A)

\* Refer to Table A for color selection.

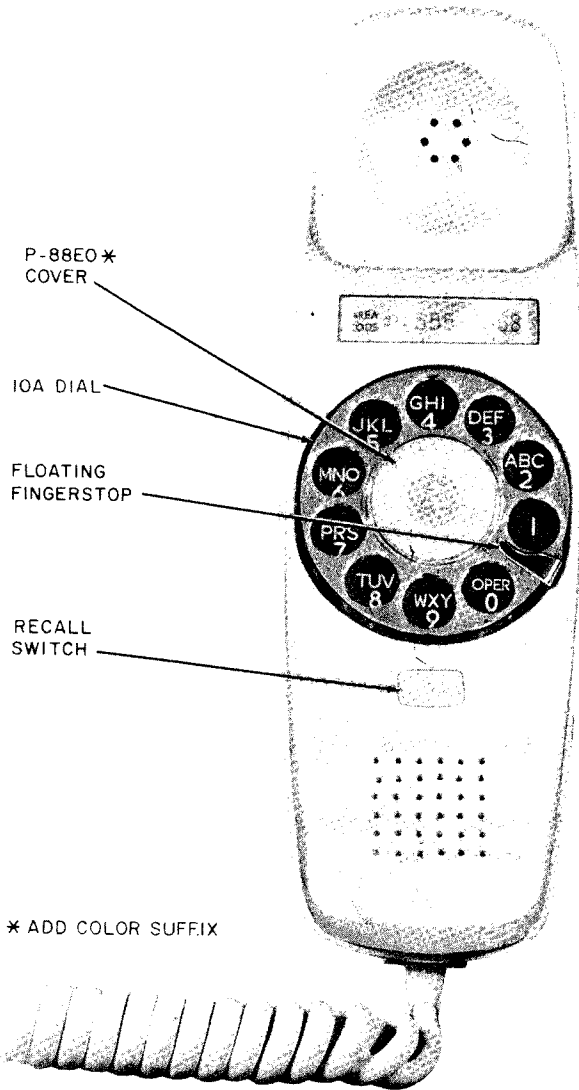


Fig. 1—220A Hand Telephone Set

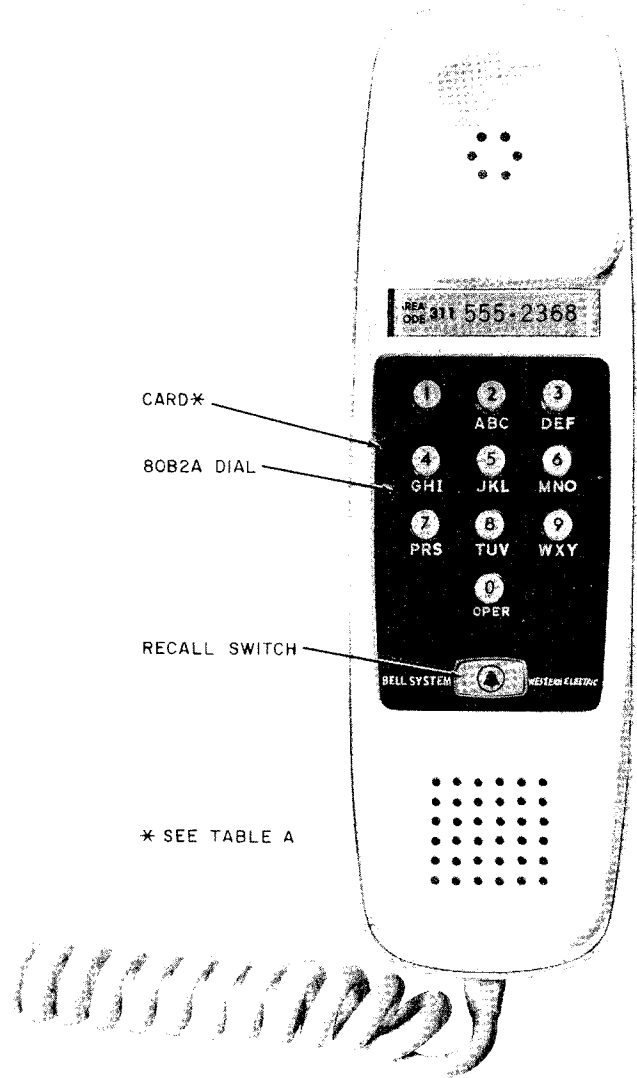


Fig. 2—1220A Hand Telephone Set

## COLOR

**TABLE A**  
**COLOR SELECTION AND PIECE PART INFORMATION\***

HAND TELEPHONE SET, DIAL HUB COVER† AND HANDSET CORD		DIAL FACE CARD (1220A ONLY)	
STANDARD COLOR	SUFFIX	COLOR	PIECE PART NO.
Black	—03	Slate	P-22F570
Ivory	—50	Cinnamon Brown	P-22F571
Green	—51	Dark Jade Gray	P-22F572
Red	—53	Burgundy	P-22F573
Yellow	—56	Gold	P-22F574
White	—58	Slate	P-22F570
Rose Pink	—59	Rose	P-22F575
Lt. Beige	—60	Sandalwood	P-22F576
Lt. Gray	—61	Slate	P-22F570
Aqua Blue	—62	Peacock Blue	P-22F577
Turquoise	—64	Turquoise Green	P-22F578

\* Refer to Section 500-120-100 for promoted colors

† 220A hand telephone set only

### 3. INSTALLATION

#### (a) *Planning*

- Safety for yourself, customer, and maintenance personnel.
- Location—desk, table, wall, etc.
- Space requirements.
- Distance between associated equipment or apparatus.
- General appearance of installation.

#### (b) *Installing*

- (1) Connect the 220A or 1220A hand telephone set to a telephone base by plugging the 5-1/2 foot H4DB cord (Fig. 3) into the jacks on each component.
- (2) If tip party identification is required, an H5AA cord must be used. Check under number card window to see that screw used in tip party identification switch is tightened down (early models, Fig. 4). The absence of a screw or screw hole in the identification switch position (Fig. 5) indicates that the connection has been made in the network at the factory. The H4DB and H5AA handset cords are also available in 9- and 13-foot lengths.



If it is necessary to use an H5AA cord for other than tip party identification service, disconnect the (BL) ringer lead from B terminal on the terminal board in the base, insulate and store.

(3) The 220A and 1220A hand telephone set is factory equipped with a 53B dial lamp; power for lamp is supplied by a 2012A transformer. **DO NOT USE 2012B TRANSFORMER.**



The illumination of the dial diminishes with increased cord lengths. In installations where the illumination is considered inadequate, the 53B lamp may be replaced by a 53A, provided the lamp power is supplied by a 2012A transformer and the combined lengths of mounting and handset cords are not less than 14-1/2 feet. Refer to Fig. 6 for dial lamp replacement.

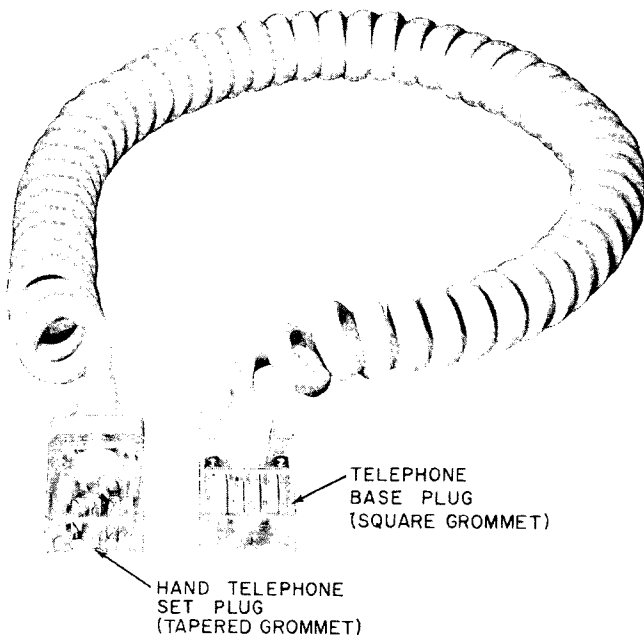


Fig. 3—H4DB Cord

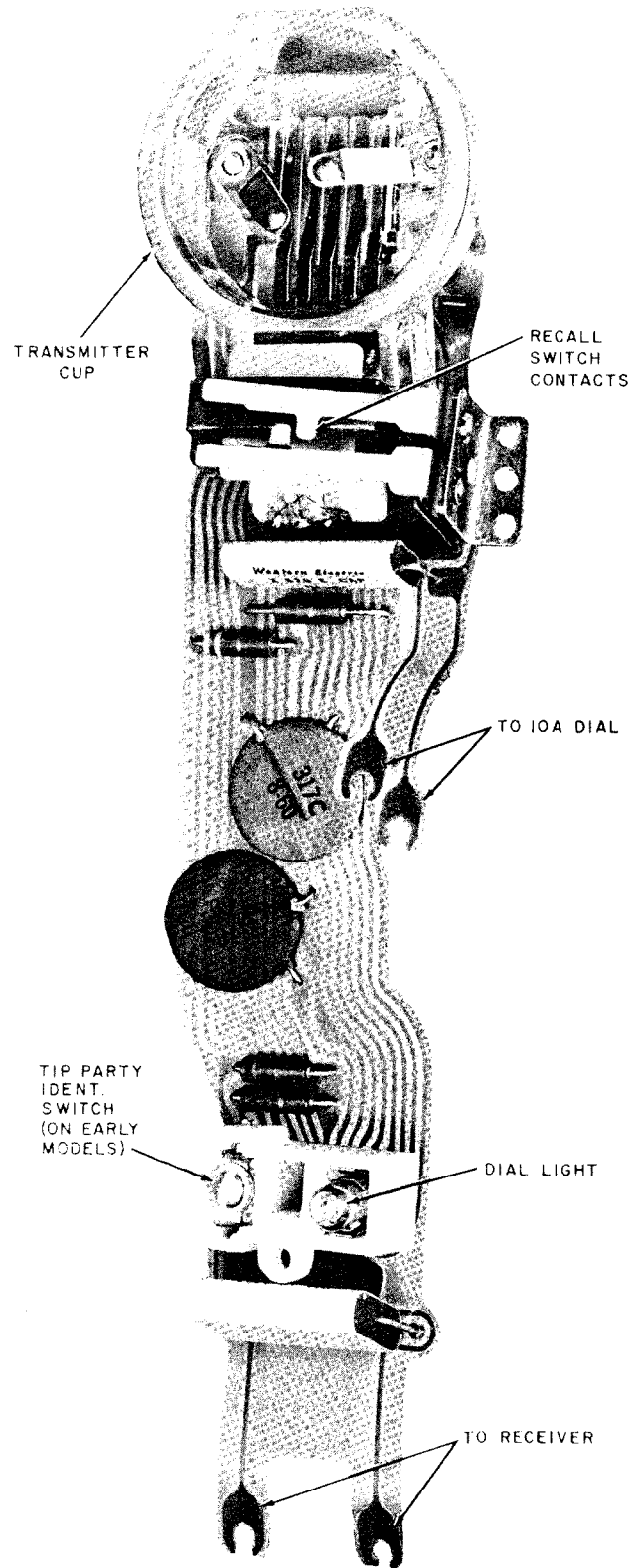


Fig. 4—854A Network

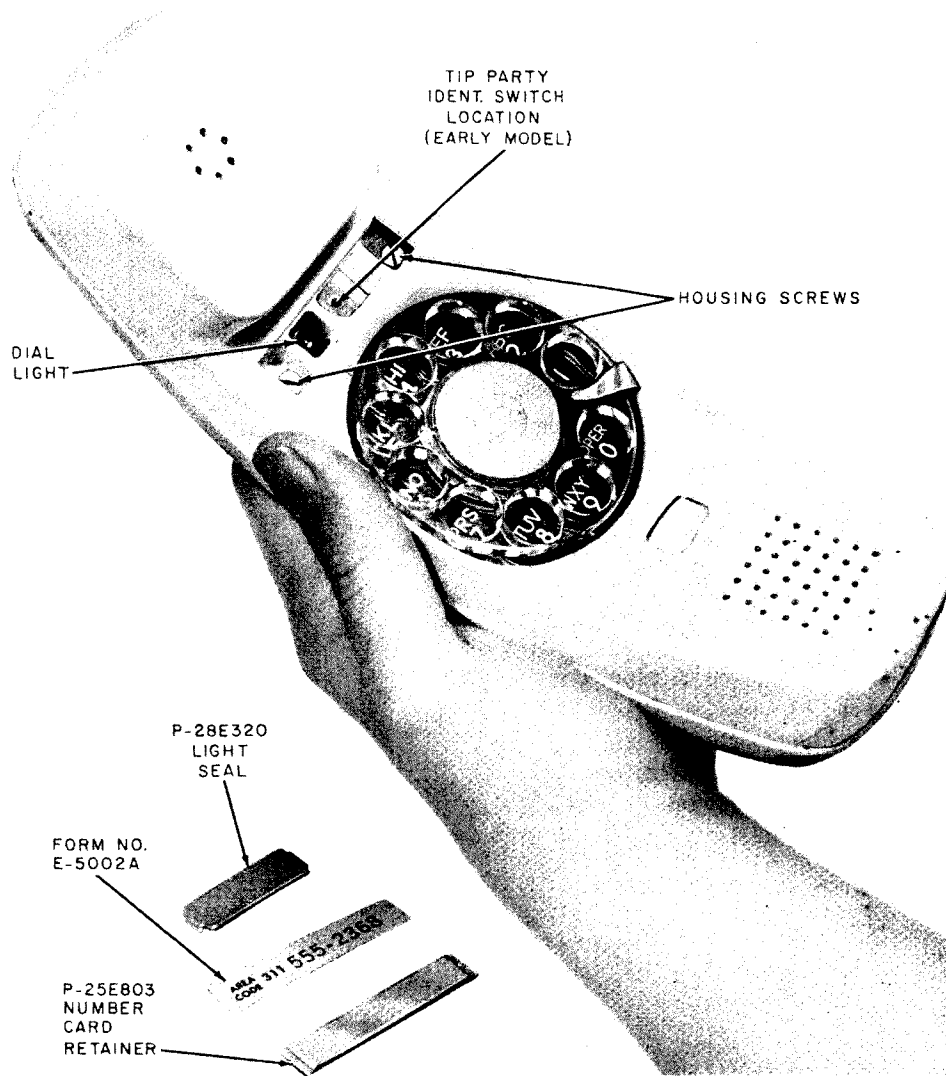


Fig. 5—220A Hand Telephone Set, Number Card Removed

(4) Install Form E5002A (number card) in space provided above the dial. Use KS-16750L2 releaser to remove number card holder. Replace holder by inserting one end in the recess. Put light pressure on the other end to cause a slight outward bow and snap into recess.

#### INSTRUCTING THE CUSTOMER

(a) **Recall Switch (Fig. 1 and 2):** Point out recall switch and explain advantages of switch. Example: If a person receives busy

tone at conclusion of dialing a number, he may depress the recall switch for a few seconds; then release. Dial tone will again be heard. This is done in place of depressing line switch plunger on the telephone base.

**Caution:** *If the recall switch is depressed during conversation or dialing, central office equipment may be disconnected.*

(b) **“Floating” Finger Stop (220A only)**

- Demonstrate finger stop by dialing digit “1”. Then depress recall switch.

- To prevent dialing errors, every digit dialed requires rotation of fingerwheel until finger is stopped.

(c) **ACI Telephone Base:** Show customer how to place 220A or 1220A hand telephone set in waiting position as shown in Fig. 7.

**4. MAINTENANCE**

**4.01** Limited field maintenance of the 220A and 1220A hand telephone set is recommended. Transmission trouble, defective dial or network should result in replacing complete handset. Replace defective dial lamp and handset cord as follows:

(a) **Dial Lamp:** To replace a defective dial lamp (Fig. 6), use 553A tool. To gain access to the lamp, remove number card retainer, number card, and light-seal plate.

(b) **Handset Cord:** To replace a plug ended handset cord (Fig. 8), use a KS-16750L2 releaser. Insert tool in space provided and apply pressure against spring clip toward body of plug. When spring clip has been depressed, pull plug out of jack.

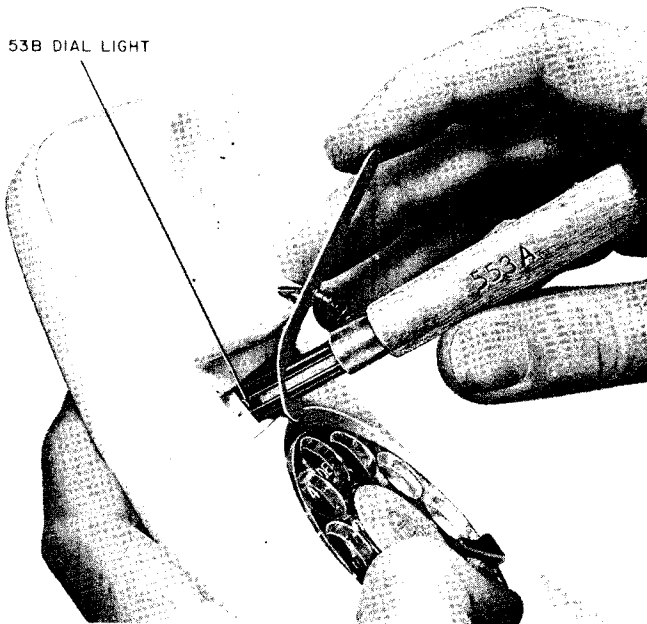


Fig. 6—Replacing Dial Lamp

**4.02** Interior views of 220A and 1220A hand telephone sets are shown in Fig. 9 and 10. Refer to Fig. 5 to remove housing screws concealed under the number card holder and dial light seal.

**5. CONNECTION INDEX**

Fig. 11—220A Hand Telephone Set—Wiring Diagram

Fig. 12—1220A Hand Telephone Set—Wiring Diagram

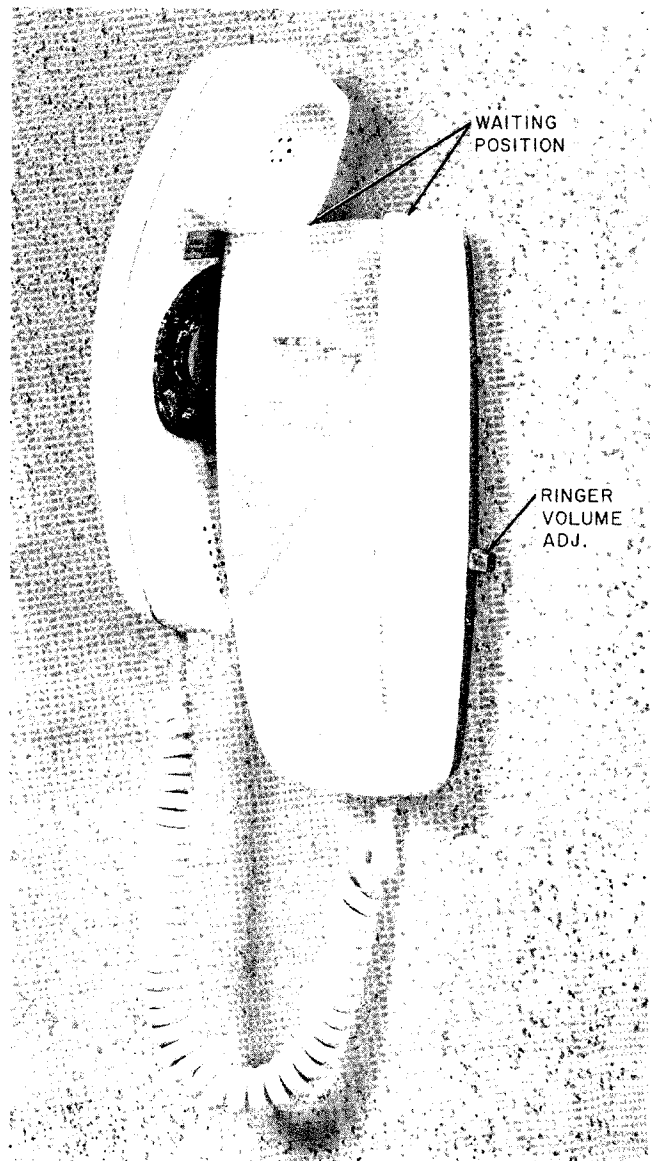


Fig. 7—220A Hand Telephone Set in Waiting Position on ACI Telephone Base

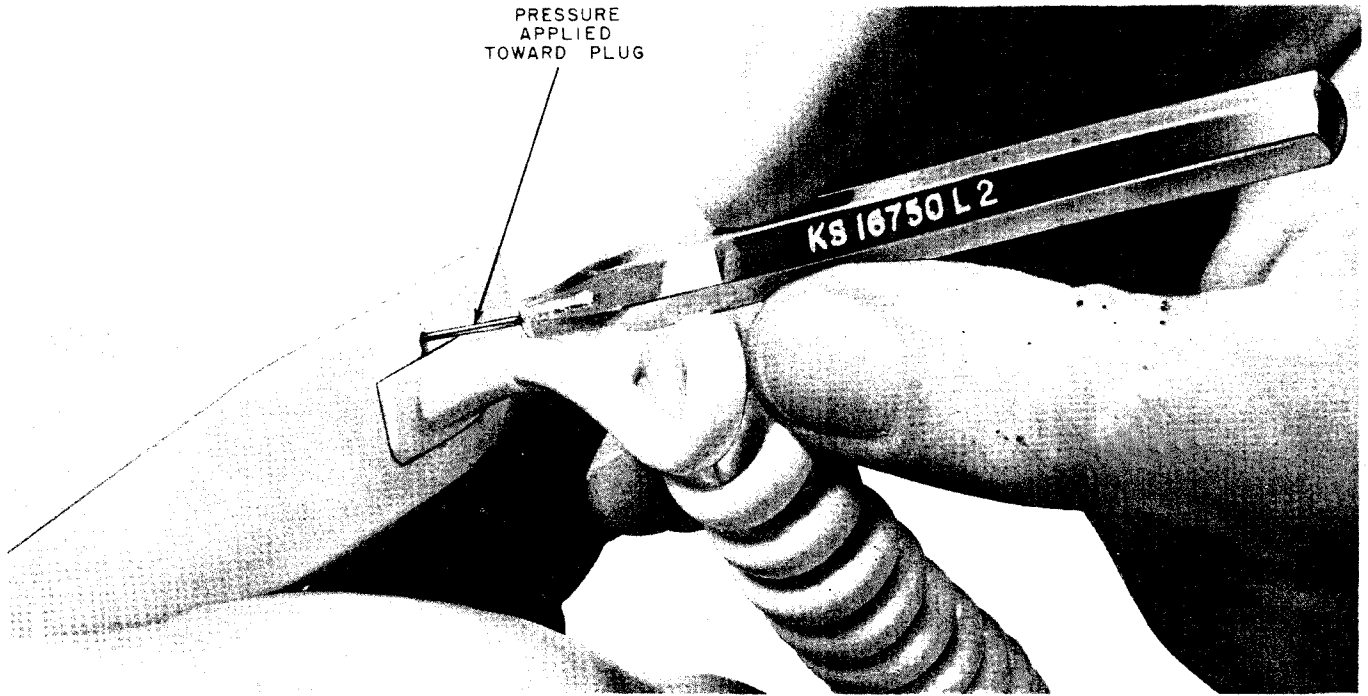


Fig. 8—Removing Cord From 220A Hand Telephone Set

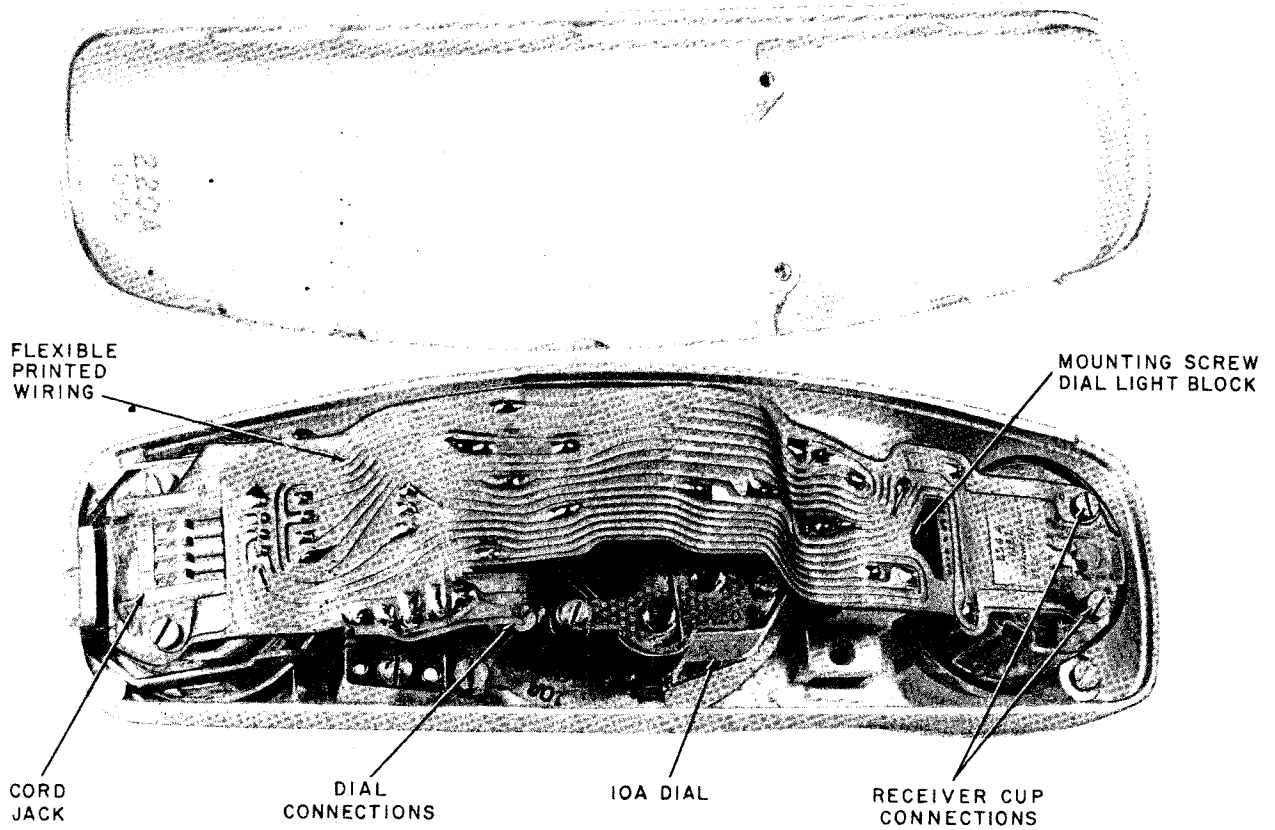


Fig. 9—Interior of 220A Hand Telephone Set



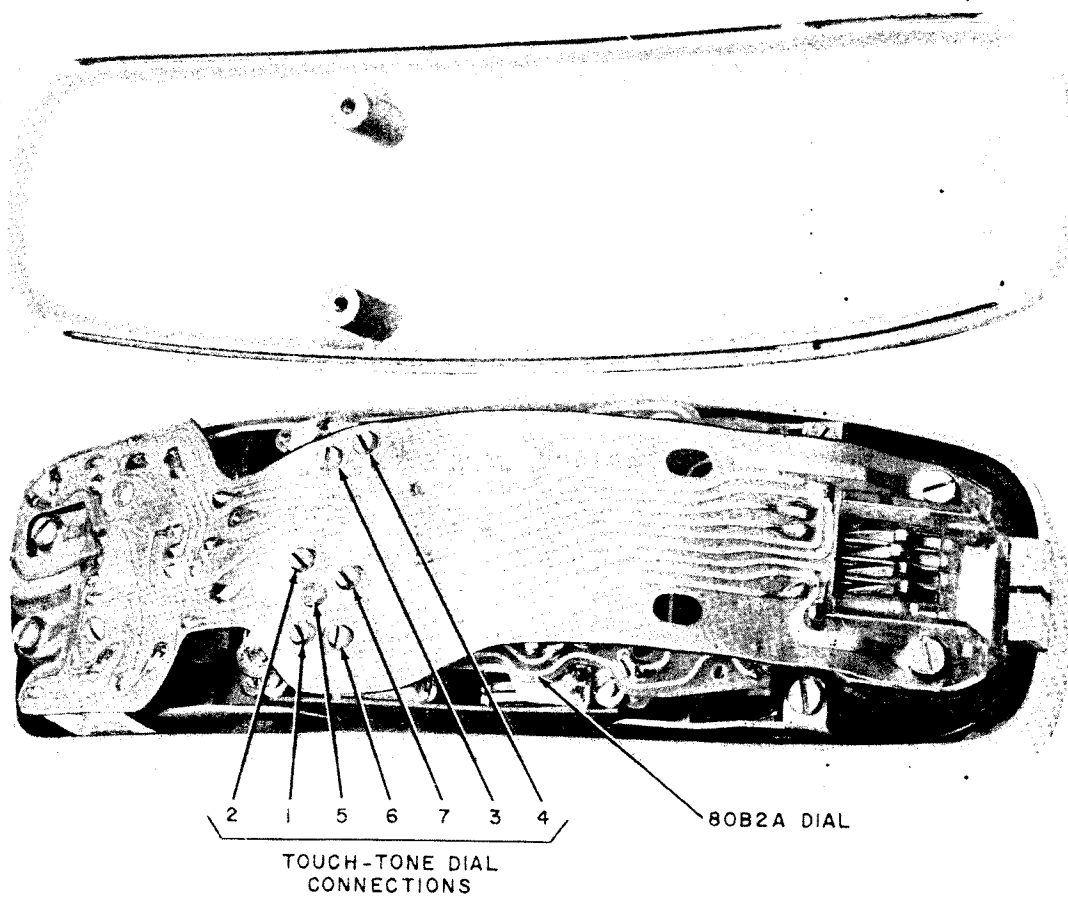


Fig. 10—Interior of 1220A Hand Telephone Set

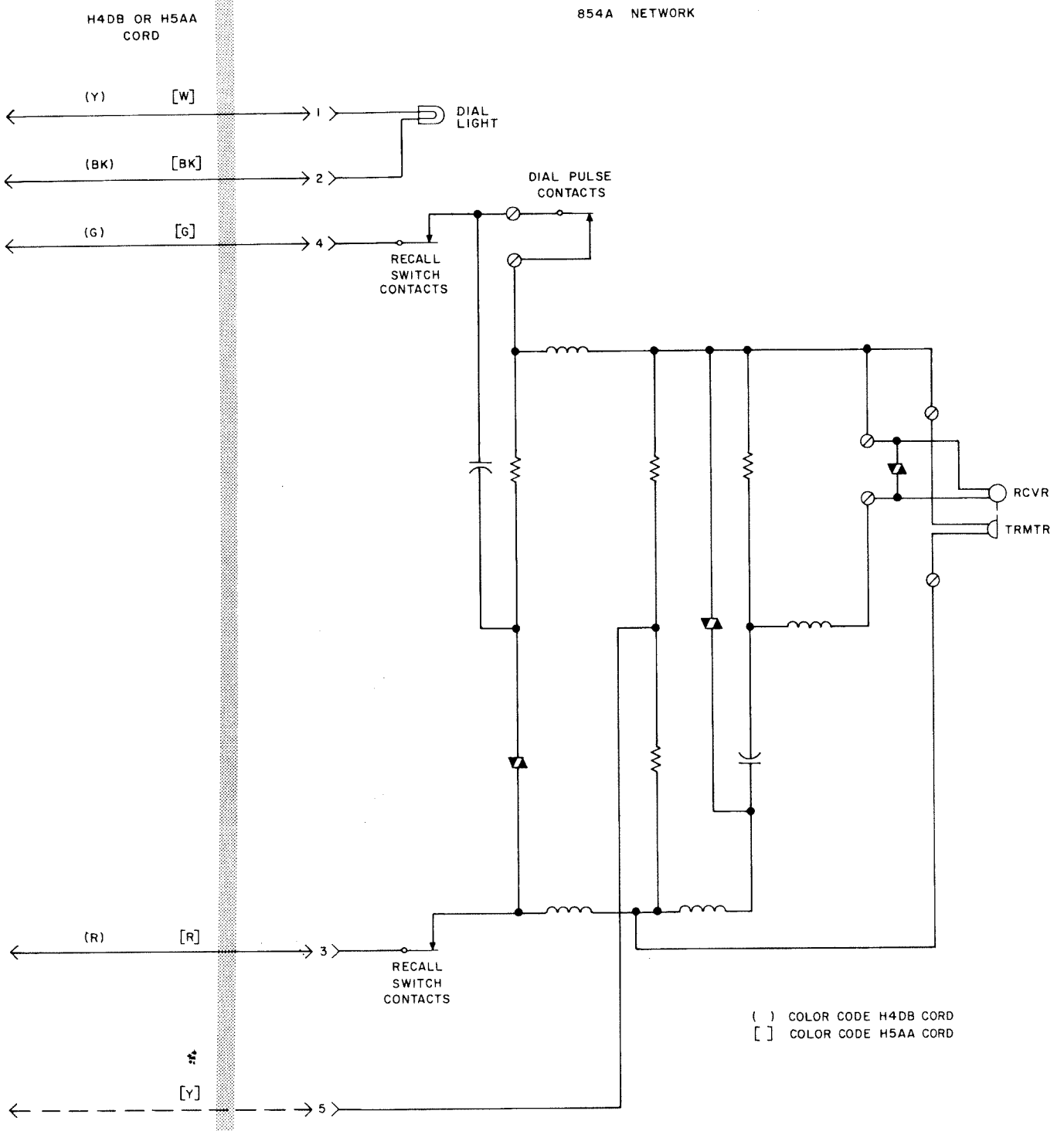


Fig. 11—220A Hand Telephone Set—Wiring Diagram

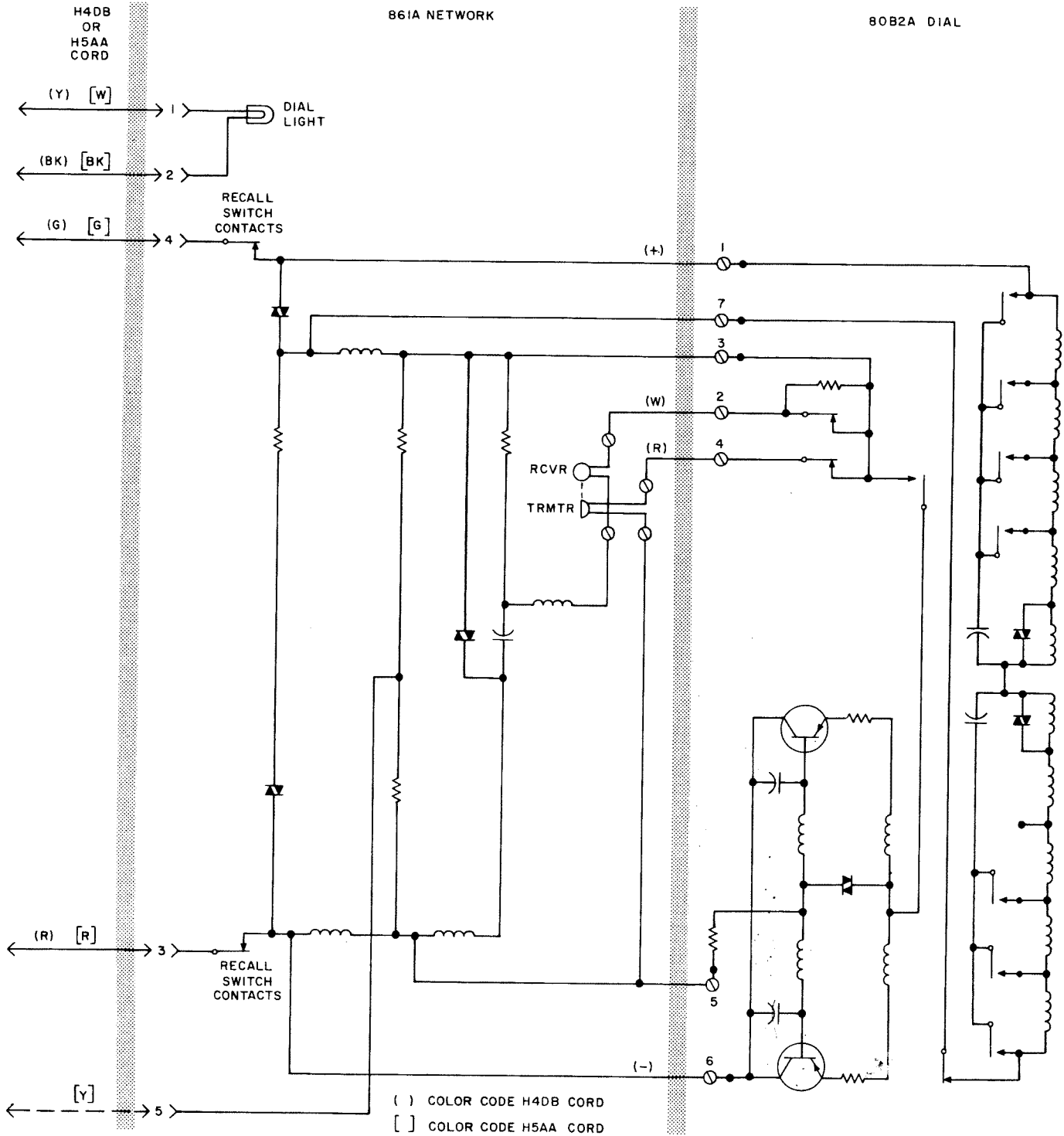


Fig. 12—1220A Hand Telephone Set—Wiring Diagram