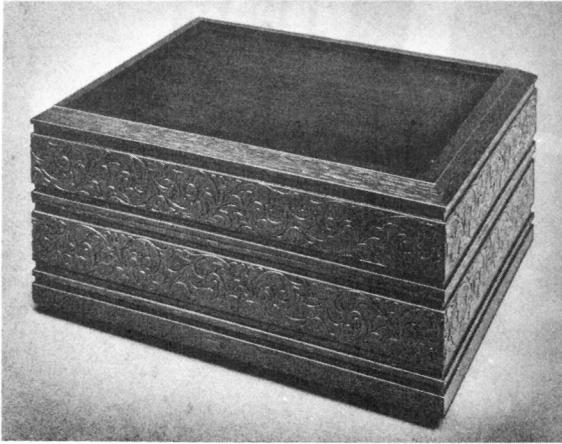


## 881A100, 881B100, 2881A100, 2881B100, 881A101, 881B101, 2881A101, AND 2881B101 TELEPHONE SETS

### 1. GENERAL

**1.01** This section provides identification, installation, and connection information for the 881A100 (MD), 881B100, 881A101 (MD), 881B101, 2881A100 (MD), 2881B100, 2881A101 (MD), or 2881B101 DESIGN LINE\* telephone (*Chestphone*\*\* sets. (See Fig. 1 and 2).



**Fig. 1—881A100 or 2881A100 DESIGN LINE Telephone Set With Cover Closed**

\*Trademark American Telephone and Telegraph Company.

\*\*Trademark American Telecommunication Corporation.

**1.02** This section is reissued to:

- Add information on the 881B100, 881B101, 2881B100, and 2881B101 (modular) telephone sets (Table A)



**Fig. 2—2881A100 DESIGN LINE Telephone Set**

- Show 881A100, 881A101, 2881A100, and 2881A101 telephone sets rated MD.

**Warning:** *Telephone apparatus or wiring shall not be installed in a location where minimum separation from other wiring as specified in Section 460-300-149 cannot be maintained.*

**1.03** The customer's premises must be properly wired with an appropriate connecting block or jack, in order to accept the D4BU-29 plug-ended mounting cord or 225A adapter furnished with each set.

### NOTICE

Not for use or disclosure outside the  
Bell System except under written agreement

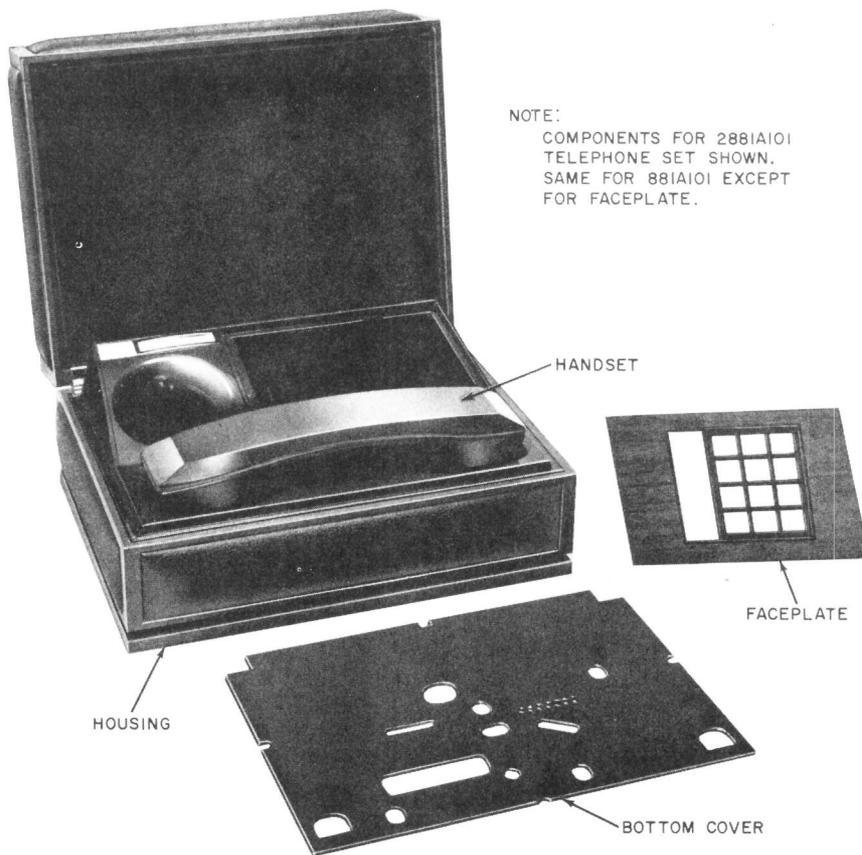


Fig. 3—Customer-Owned Components

## 2. IDENTIFICATION

**2.01** The 881A100, 881B100, 881A101, or 881B101 (rotary dial) and 2881A100, 2881B100, 2881A101, or 2881B101 (TOUCH-TONE® dial) equipped telephone sets are new DESIGN LINE telephone sets being made available to the customer. The customer buys the housing and the handset from the telephone company and the telephone company retains ownership of the transmission and signaling components (Fig. 3, 4, and 5).

### Ordering Guide (Refer to Table A)

#### 2.02 Basic Telephone Set Ordering Information:

**Example:** Set, Telephone, 2881B100† is a simulated walnut Chestphone equipped with a TOUCH-TONE dial (Fig. 2).

†Refer to Table A for available codes and ordering information.

**2.03** These telephone sets are intended to be used as single line or two-party desk sets and not recommended for use on four- and eight-party service.

#### 2.04 Optional Components (order separately):

- 819040122 (P-90D012) Guard Assembly (polarity guard)
- 814316121 (P-43A612) Screw (for mounting polarity guard)

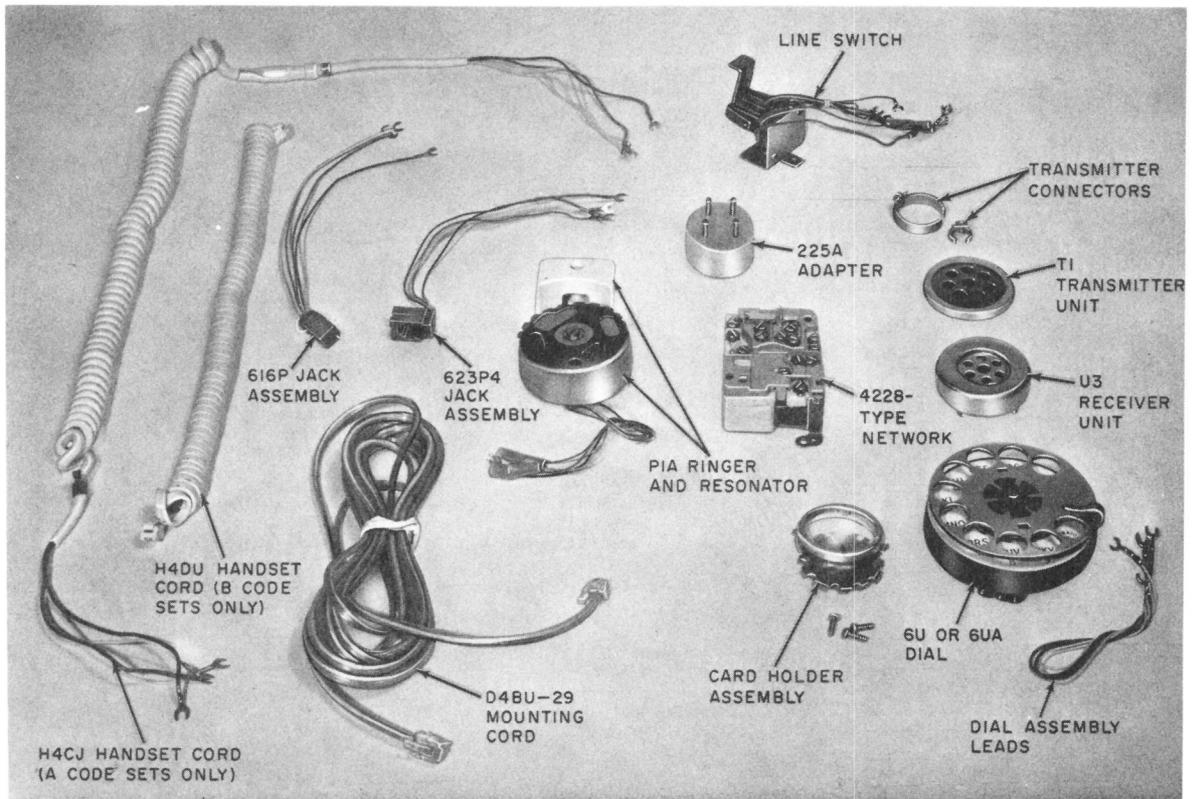


Fig. 4—Telephone Company-Owned Components (Set Equipped With Rotary Dial)

### 3. INSTALLATION AND CONNECTIONS

**3.01** These telephone sets are furnished from the factory fully assembled and wired for bridged ringing. To connect the telephone set, plug the mounting cord into a 625A connecting block or if the existing jack is a 548A or equivalent, use the 225A adapter furnished with each set.

**3.02** The internal connections for these telephone sets, for nonkey system use, are shown in Fig. 16 and 17, respectively.

**3.03** Connections for 1A KTS do not require any telephone set modifications and are wired same as Fig. 16 and 17.

**3.04** Connections for use with 1A1 or 1A2 KTS are shown in Fig. 18 for the rotary dial telephone sets and Fig. 19 for the TOUCH-TONE dial telephone sets. Table D includes necessary wiring modifications required for 1A1 or 1A2 key telephone system use.

**3.05** To gain access to the interior of these sets for wiring changes, refer to appropriate paragraph in Part 4.

**3.06** If a polarity guard is to be installed in conjunction with the TOUCH-TONE dial, install 819040122 (P-90D012) Guard Assembly (Polarity Guard), ordered separately using an 814316121 (P-43A612) screw which is also ordered

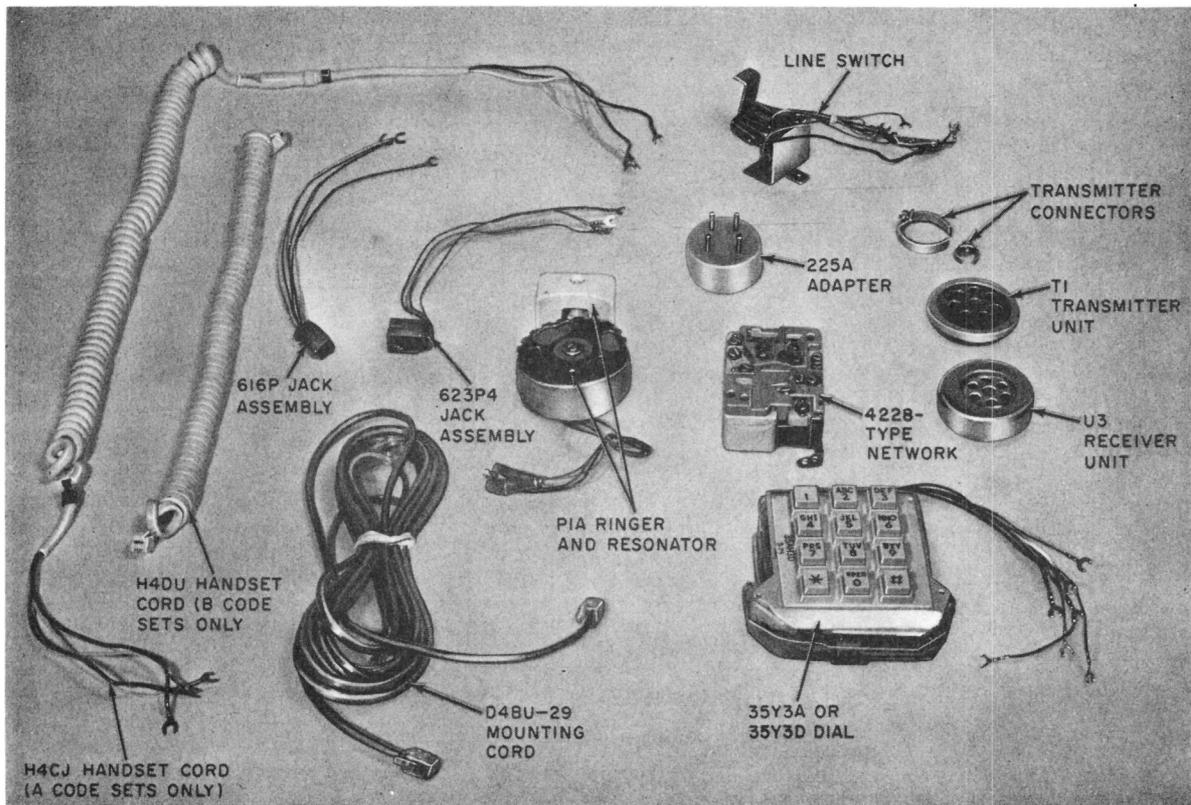


Fig. 5—Telephone Company-Owned Components (Set Equipped With TOUCH-TONE Dial)

separately. A polarity guard should be used only when specified by local instructions for end-to-end signaling purposes when battery and ground reversals are encountered. Refer to Fig. 6 for installation information and Table E for connections.

### 3.07 Line and Ringer Connections:

- (1) For single line and two-party service, refer to Table B for the rotary dial sets and to Table C for the TOUCH-TONE dial sets.
- (2) For adjustments and ringer cutoff feature of the P1A ringer, refer to Section 501-259-101.

## 4. REMOVAL OF TELEPHONE COMPANY-OWNED COMPONENTS

4.01 When it is desired to discontinue telephone service of these DESIGN LINE telephone sets, proceed as follows:

**Note:** Remove the telephone company-owned components that can be easily removed. Refer to Fig. 5 and 6 for identification of company-owned components.

- (1) Remove four bottom cover mounting screws from the bottom of the telephone set and remove the bottom cover (Fig. 7).
- (2) Disconnect base end of handset cord (Fig. 10).
- (3) Pull cord, attached to the handset, out through the top of the telephone set base.
- (4) Disconnect the cord from the handset.
- (5) Remove four telephone set base mounting screws and withdraw the base (Fig. 8).
- (6) Rotary dial equipped sets only—remove three dial mounting screws and remove the rotary dial (Fig. 9).

◆ TABLE A ◆

## AVAILABLE CODES AND ORDERING GUIDE

TEL SET CODE	TEL SET BASE	DIAL	TRMTR UNIT	RCVR UNIT	MTG CORD	HANDSET CORD	DESCRIPTION
881B100	880CT-60	6U-120 or 6UA-120	T1	U3	D4BU-29	H4DU-60	Rotary Dial Walnut Chestphone
2881B100	2880BT-60	35Y3D					TOUCH-TONE Dial, Walnut Chestphone
881B101	880CT-03	6U-120 or 6UA-120				H4DU-03	Rotary Dial Black Leatherette Chestphone
2881B101	2880BT-03	35Y3D					TOUCH-TONE Dial Black Leatherette Chestphone
881A100*	880A-60	6U-120 or 6UA-120				H4CJ-60	Rotary Dial Walnut Chestphone
2881A100*	2880A-60	35Y3D					TOUCH-TONE Dial, Walnut Chestphone
881A101*	880A-03	6U-120 or 6UA-120				H4CJ-03	Rotary Dial Black Leatherette Chestphone
2881A101*	2880A-03	35Y3D					TOUCH-TONE Dial Black Leatherette Chestphone

\* MD.

(7) TOUCH-TONE dial equipped sets only—remove three faceplate mounting screws as shown in Fig. 10 and remove the faceplate. Remove two dial mounting screws and remove the TOUCH-TONE dial (Fig. 11).

(8) TOUCH-TONE dial equipped sets only—replace faceplate (Fig. 10).

(9) Open handset by removing two screws (Fig. 12) and remove transmitter and receiver cups. Remove T1 transmitter and U3 receiver units (Fig. 13).

(10) Replace transmitter and receiver cups and restore handset cover.

**4.02** Follow local procedures for returning telephone company-owned components.

**4.03** When it is desired to return a set to Western Electric for repair, it should be packed using the D-180600 Kit of Parts which contains packing materials and instructions.

◆ TABLE B ◆  
**LINE AND RINGER CONNECTIONS†**  
**(SETS WITH ROTARY DIAL ONLY)**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENTIFYING GROUND	
					1000Ω	2650Ω
Inside Wire at Jack	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	Y	Y	Y	Y	Y
	BK	B	B	B	B	B
623P4 Line Jack Assy	R	A	A	L1	F	F
	G	L1	L1	A	L2	L2
	Y	G	G	G	G	G
	BK	L2	L2	L2	*	*
Ringer	R	K	K	K	K	K
	S-R	*	*	*	*	L1
	S	*	*	*	L1	*
	BK	L1	G	G	G	G
Line Switch	Y	A	A	A	L2	L2
	W	F	F	F	B	B

\* Insulated and stored.

† For access to set wiring follow applicable steps in Part 4.

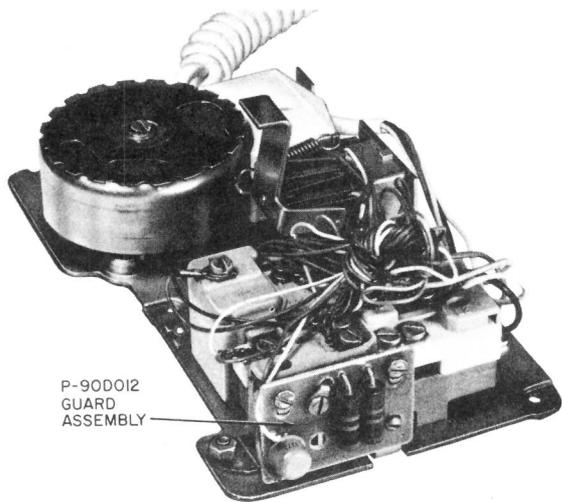


Fig. 6—819040122 (P-90D012) Guard Assembly (Polarity Guard Installed on 2880A Telephone Set Base)◆

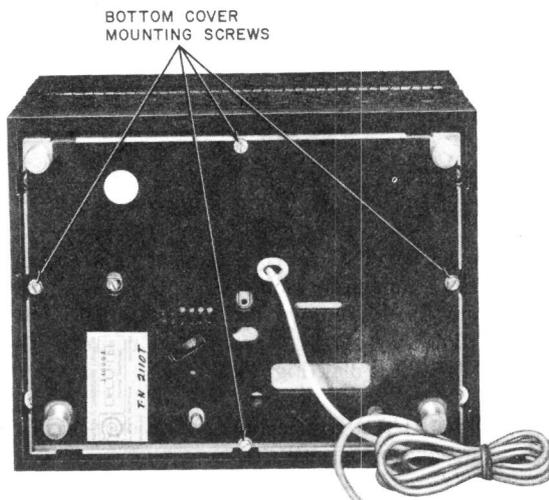


Fig. 7—881A100 or 2881A100 Telephone Set, Bottom View

◆ TABLE C ◆  
**LINE AND RINGER CONNECTIONS†**  
**(SETS WITH TOUCH-TONE DIAL ONLY)**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENTIFYING GROUND	
					1000Ω	2650Ω
Inside Wire at Jack	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	Y	Y	Y	Y	Y
	BK	B	B	B	B	B
623P4 Line Jack Assy	R	A	A	L1	C	C
	G	L1	L1	A	L2	L2
	Y	G	G	G	G	G
	BK	L2	L2	L2	*	*
Ringer	R	K	K	K	K	K
	S-R	*	*	*	*	L1
	S	*	*	*	L1	*
	BK	L1	G	G	G	G
Line Switch	Y	A	A	A	L2	L2
	W	F	F	C	B	B
	BR	C	C	F	F	F

\* Insulated and stored.

† For access to set wiring follow applicable steps in Part 4.

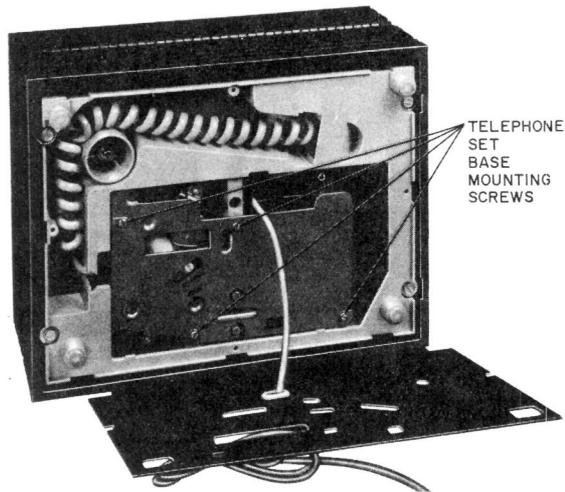


Fig. 8—881A100 or 2881A100 Telephone Set With  
 Bottom Cover Removed

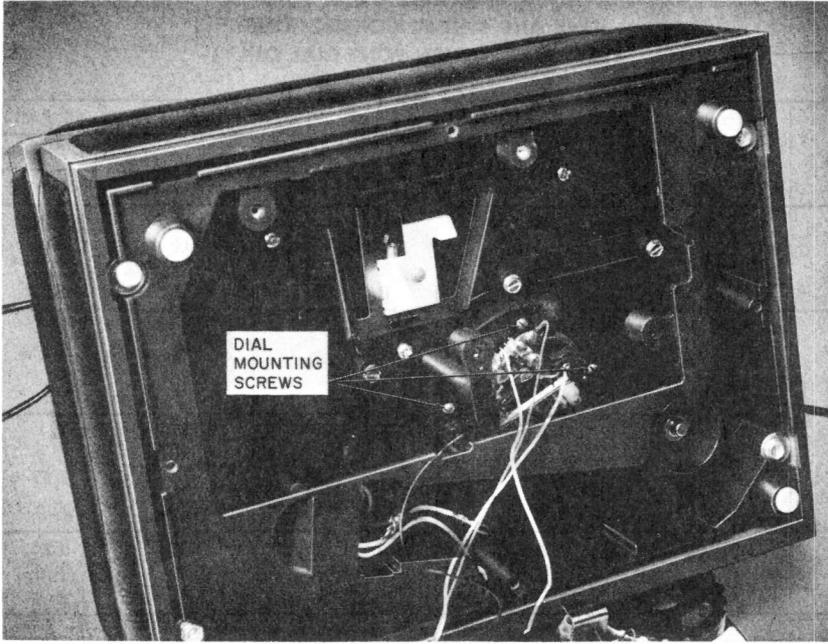


Fig. 9—Removing Rotary Dial

**TABLE D**  
**MODIFICATIONS FOR 1A1 OR 1A2 KTS \***

LEAD	COLOR	NETWORK TERMINAL	
		REMOVE FROM	CONNECT TO
Line Switch	S	A	L2
	Y	A	L2
	BR	C	G
	G	L1	A
	W	F	C
623P4 Line Jack Assy	G	L1	F
Ringer	BK	L1	F

\* For access to telephone set wiring follow applicable steps in Part 4.

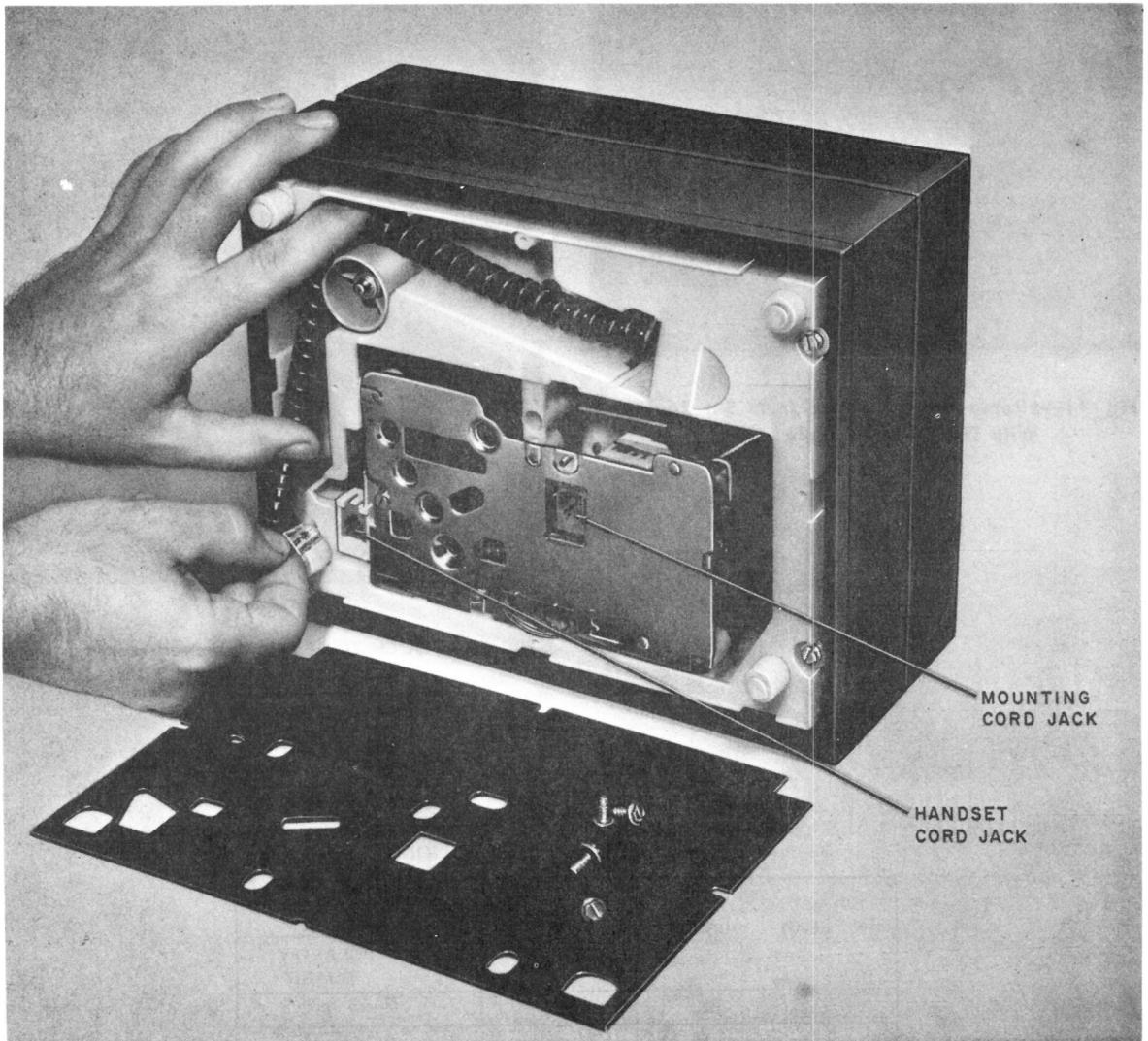


Fig. 10—881B100 or 2881B100 Telephone Set With Bottom Cover Removed

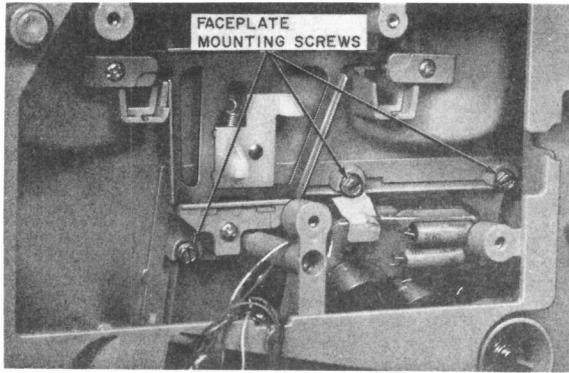


Fig. 11—Removing Faceplate from Set Equipped With TOUCH-TONE Dial

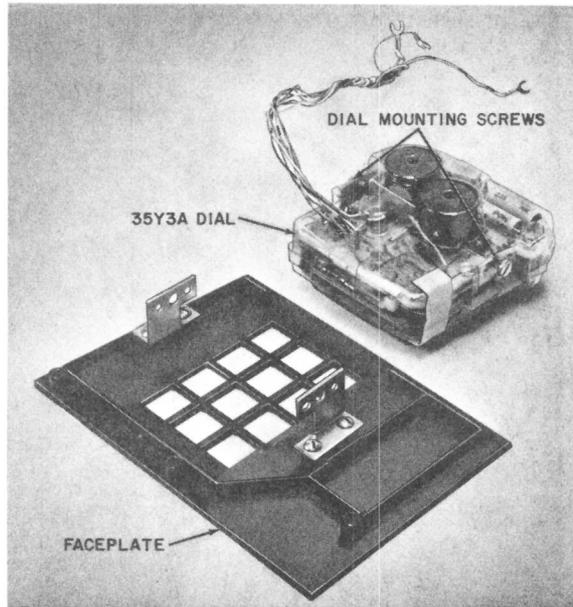


Fig. 12—TOUCH-TONE Dial Removed From Faceplate

TABLE E  
POLARITY GUARD CONNECTIONS \*

LEAD	COLOR	DISCONNECT FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	BK	RR		T
Line Switch	BR ①	C		S
	W ②			
623P4 Line Jack Assy	R ③			
Polarity Guard	G		RR	
	W		C	

\* For access to telephone set wiring follow applicable steps in part 4.

- ① If wired for bridged service or ring party.
- ② If wired for tip party with no identification ground, 1A1, or 1A2 KTS.
- ③ If wired for tip party with identification ground.

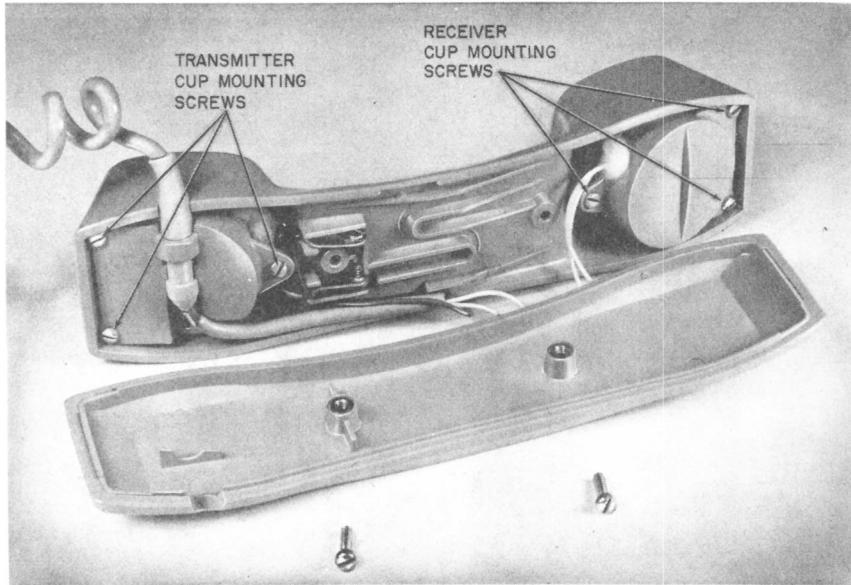


Fig. 13—Removing Transmitter and Receiver Cups From Handset (A Code Sets Only)

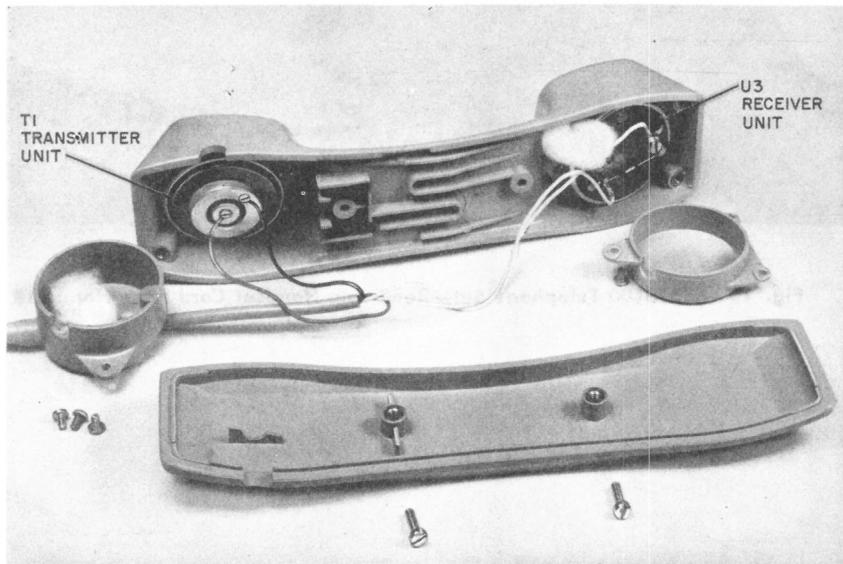


Fig. 14—Removing Transmitter and Receiver Units From Handset (A Code Sets Only)

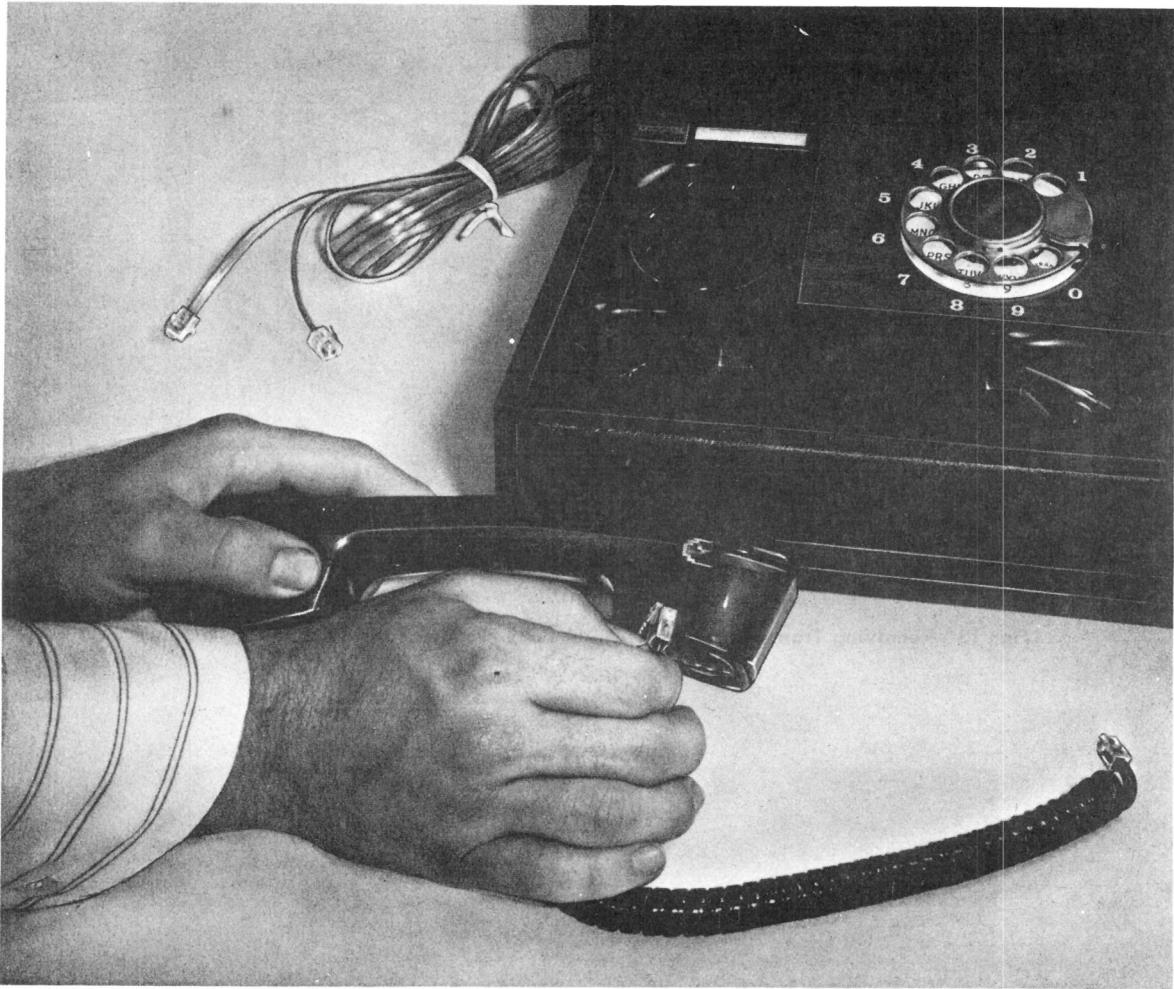


Fig. 15—881B100 Telephone Set—Removing Handset Cord From Handset

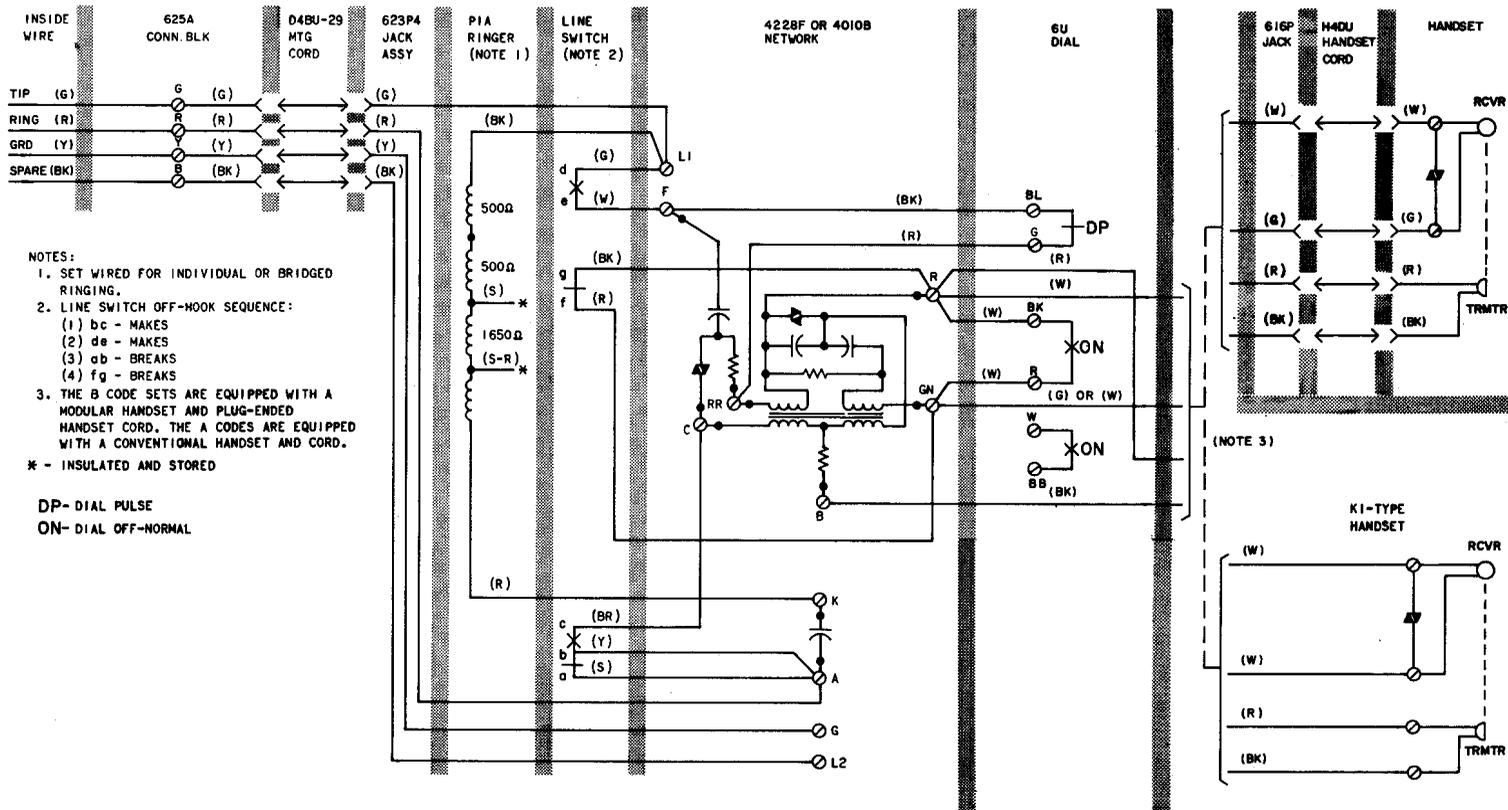


Fig. 16—881A100, 881B100, 881A101, or 881B101 Telephone Set, Connections

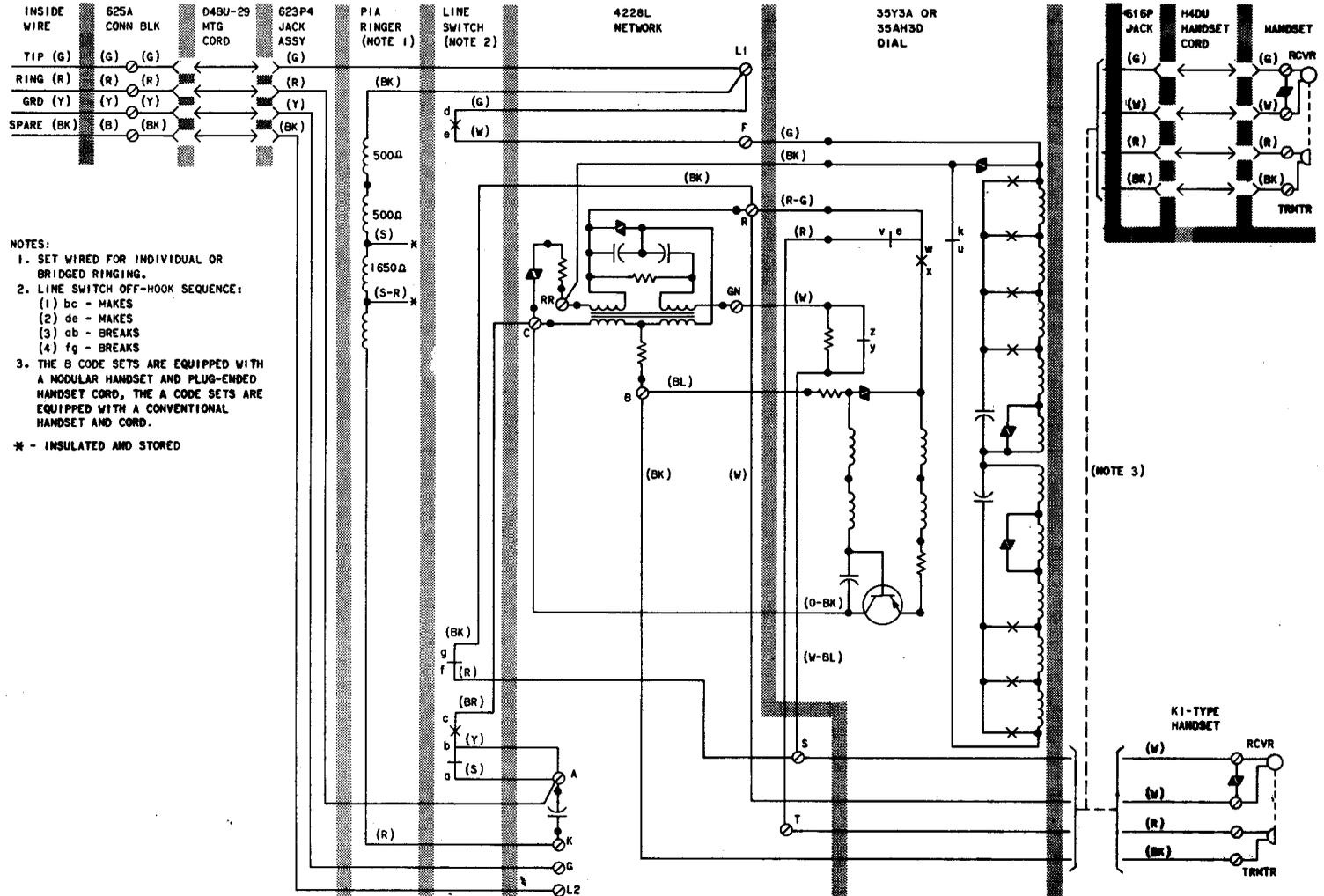


Fig. 17—2881A100, 2881B100, 2881A101, or 2881B101 Telephone Set, Connections

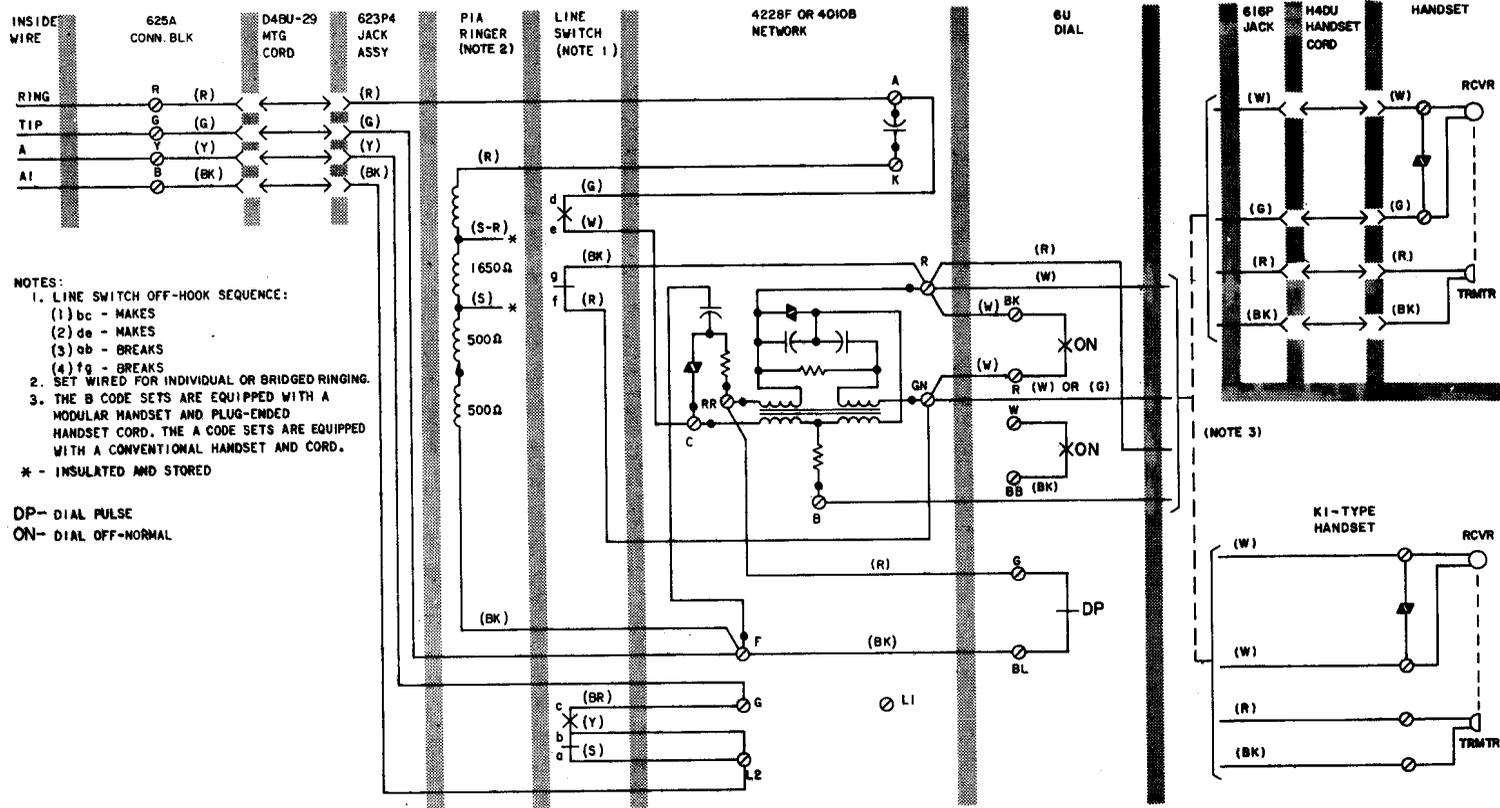
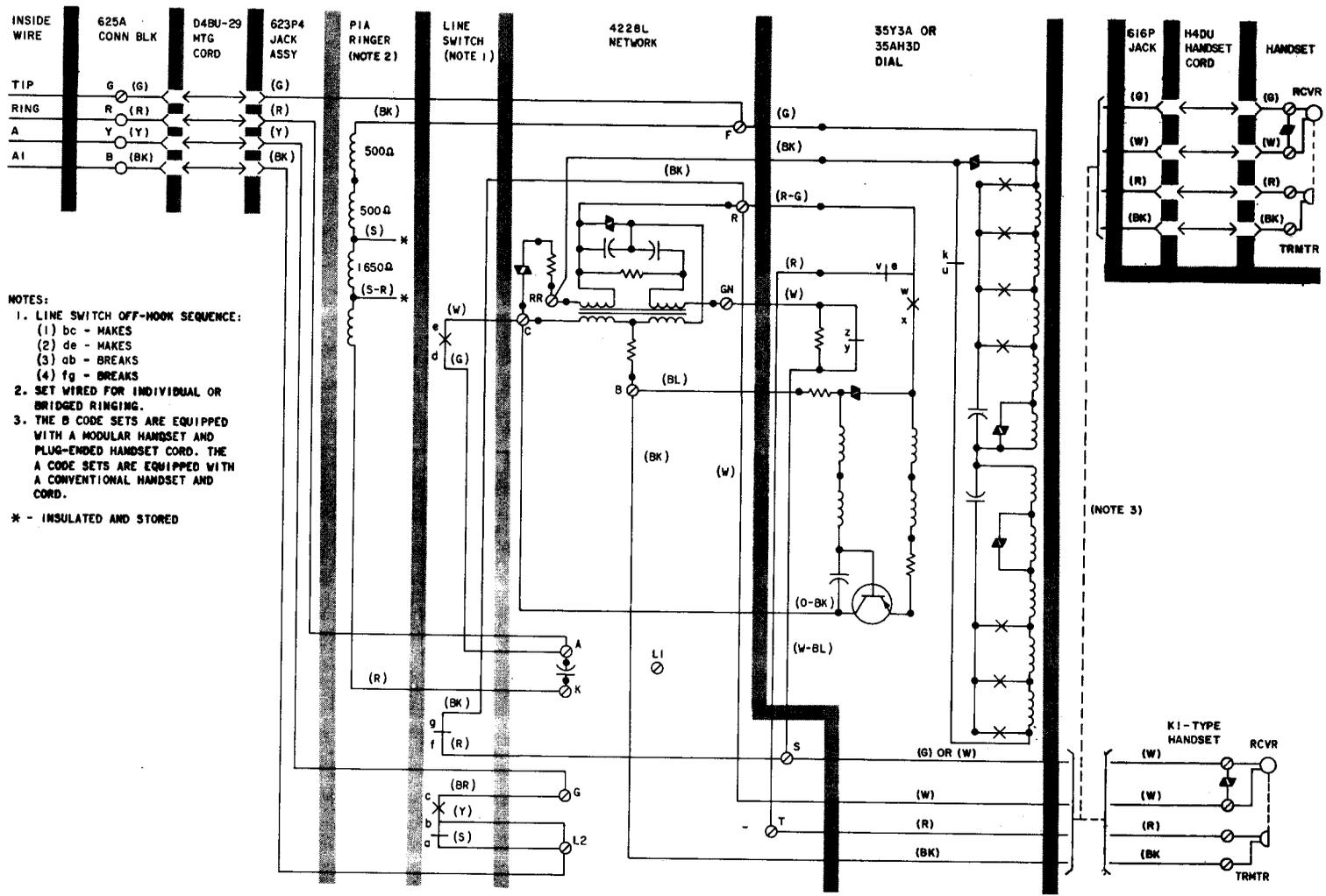


Fig. 18—881A100, 881B100, 881A101, or 881B101 Telephone Set Wired for 1A1 or 1A2 KTS



- NOTES:
1. LINE SWITCH OFF-HOOK SEQUENCE:
    - (1) dc - MAKES
    - (2) de - MAKES
    - (3) ab - BREAKS
    - (4) fg - BREAKS
  2. SET WIRED FOR INDIVIDUAL OR BRIDGED RINGING.
  3. THE B CODE SETS ARE EQUIPPED WITH A MODULAR HANDSET AND PLUG-ENDED HANDSET CORD. THE A CODE SETS ARE EQUIPPED WITH A CONVENTIONAL HANDSET AND CORD.
- \* - INSULATED AND STORED

Fig. 19—2881A100, 2881B100, 2881A101, or 2881B101 Telephone Set Wired for 1A1 or 1A2 KTS