

## TELEPHONE SETS 910A AND 2910A IDENTIFICATION, INSTALLATION, AND CONNECTIONS

### 1. GENERAL

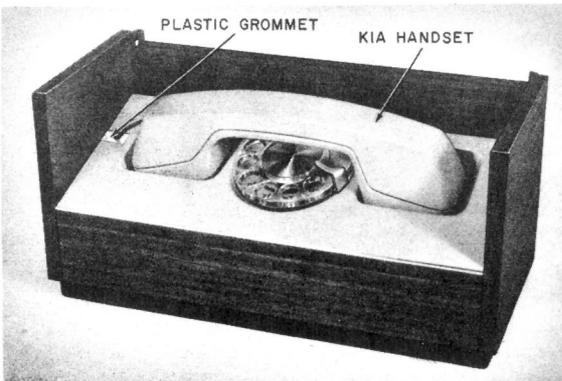
**1.01** This section provides identification, installation, and connection information for the 910A (Fig. 1) and 2910A (Fig. 2) DESIGN LINE\* telephone (*Stowaway*) sets.

\*Trademark

**1.02** This section is reissued to:

- Add D-180600 Kit of Parts
- Add new Fig. 5 and 6, telephone company-owned components
- Remove Uniform Service Order Code (USOC) and D-kit of parts, Table A.

**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.



**Fig. 1—910A DESIGN LINE Telephone Set**



**Fig. 2—2910A DESIGN LINE Telephone Set**

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

### 2. IDENTIFICATION

**2.01** The 910A (rotary dial) and 2910A (TOUCH-TONE® dial) equipped telephone sets are new DESIGN LINE telephone sets being made available to the customer. The customer buys the housing and handset from the telephone company and the telephone company retains ownership of the transmission and signaling components which are mounted on a removable base and incorporated in the handset (Fig. 4, 5, and 6).

**Ordering Guide (Refer to Table A)**

#### **2.02 Basic Telephone Set Ordering Information:**

Example: Set, Telephone, 910A10-50† is an ivory set with chrome trim and is equipped

with a rotary dial and an oiled walnut applique (Fig. 1 and 3).

†Refer to Table A for available color and applique information.

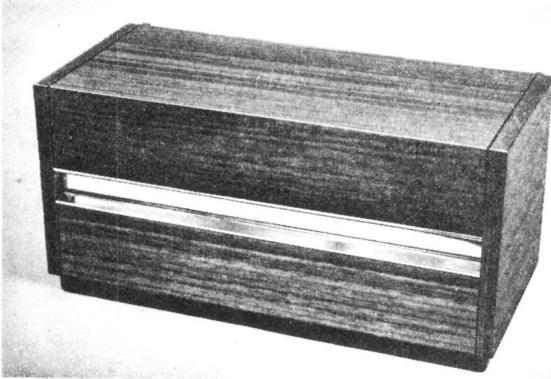


Fig. 3—910A or 2910A DESIGN LINE Telephone Set with Cover Closed

**2.03** These telephone sets are intended to be used as single line or two-party common battery desk sets and cannot be used on four- and eight-party service.

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

- D-180461 Guard Assembly (polarity guard)
- D-180460 Kit of Parts (bracket and two screws for polarity guard).

### 3. INSTALLATION AND CONNECTIONS

**3.01** These telephone sets are furnished from the factory fully assembled and wired for bridged ringing. ♦The P1A ringer is shipped from the factory with the bias spring in the low bias position.♦ To connect the telephone set, plug the mounting cord into a 625A jack or if the existing jack is a 548A or equivalent, use the 225A adapter furnished with each set.

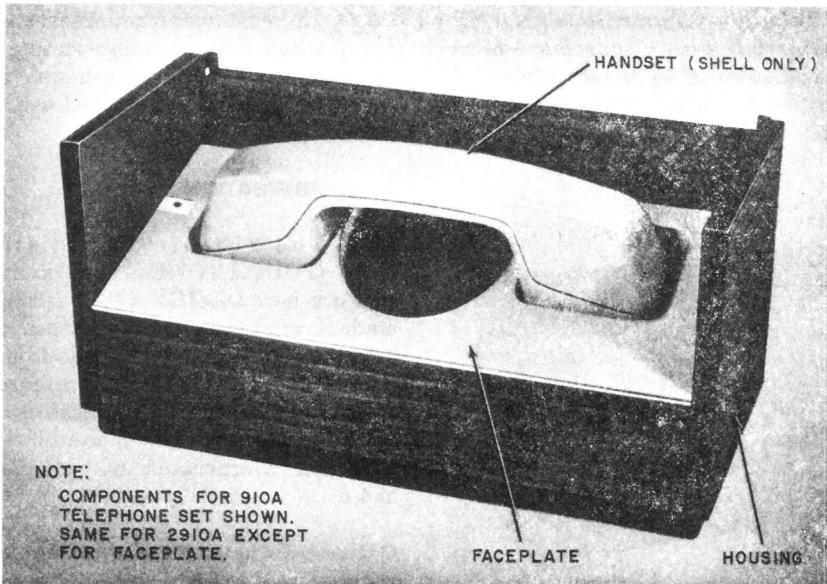


Fig. 4—Customer-Owned Components

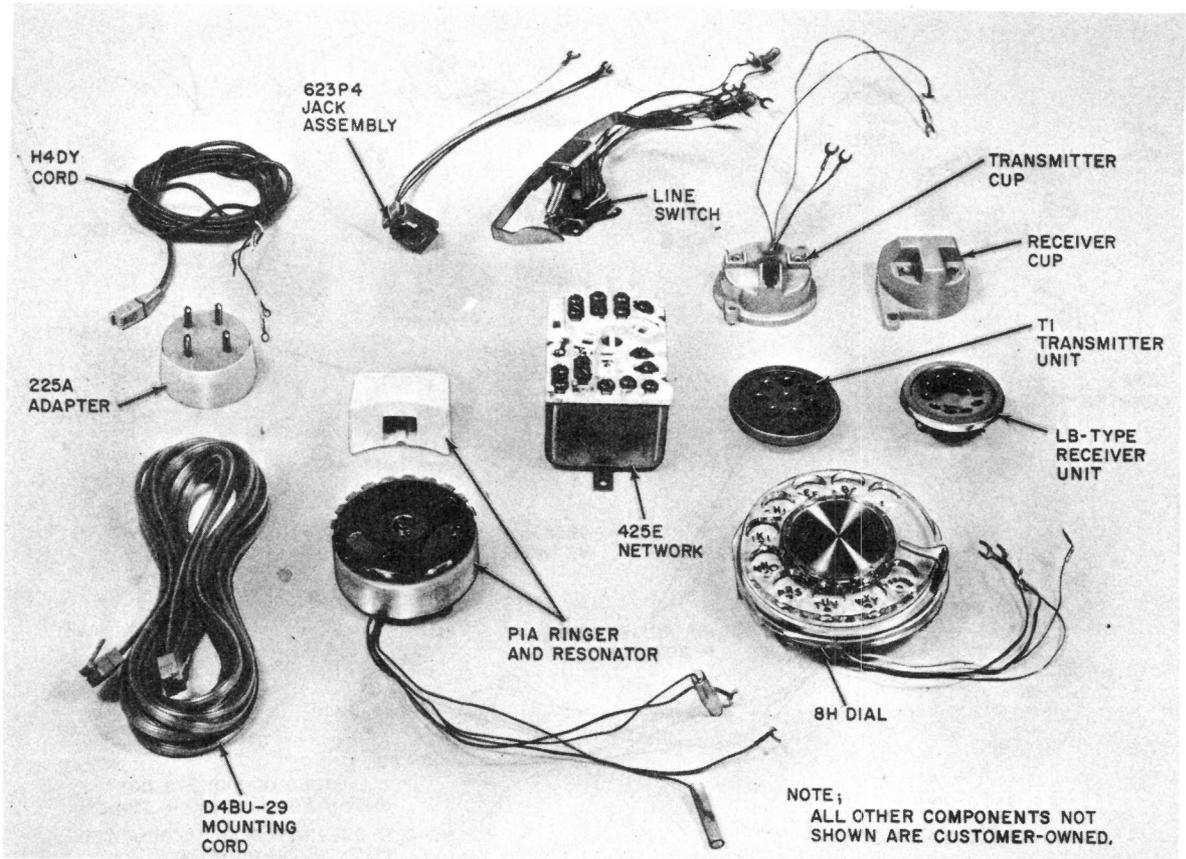


Fig. 5—Telephone Company-Owned Components (Set Equipment with a Rotary Dial)

**3.02** The internal connections for the 910A and 2910A telephone sets, for nonkey system use, are shown in Fig. 10 and 11, respectively.

**3.03** Connections for 1A KTS do not require any telephone set modifications and are wired same as Fig. 10 and 11.

**3.04** Connections for use with 1A1 or 1A2 KTS are shown in Fig. 12 for 910A telephone set and Fig. 13 for 2910A telephone set. Table D includes necessary wiring modifications required for key telephone system use.

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

**3.06** When installing polarity guard (D-180461) in 2910A telephone set, when instructed by local administrative practices or procedures for end-to-end signaling purposes when battery and ground reversals are encountered, refer to Table E for connections.

**3.07** To install the D-180461 Guard Assembly proceed as follows:

- (1) Select the (840360408) bracket and two screws from the D-180460 Kit of Parts and discard the remaining parts.
- (2) Install (840360408) bracket in the mounting holes between the line switch and 425K network on the 2910A telephone set base plate. Make sure the bracket tab fits into the square

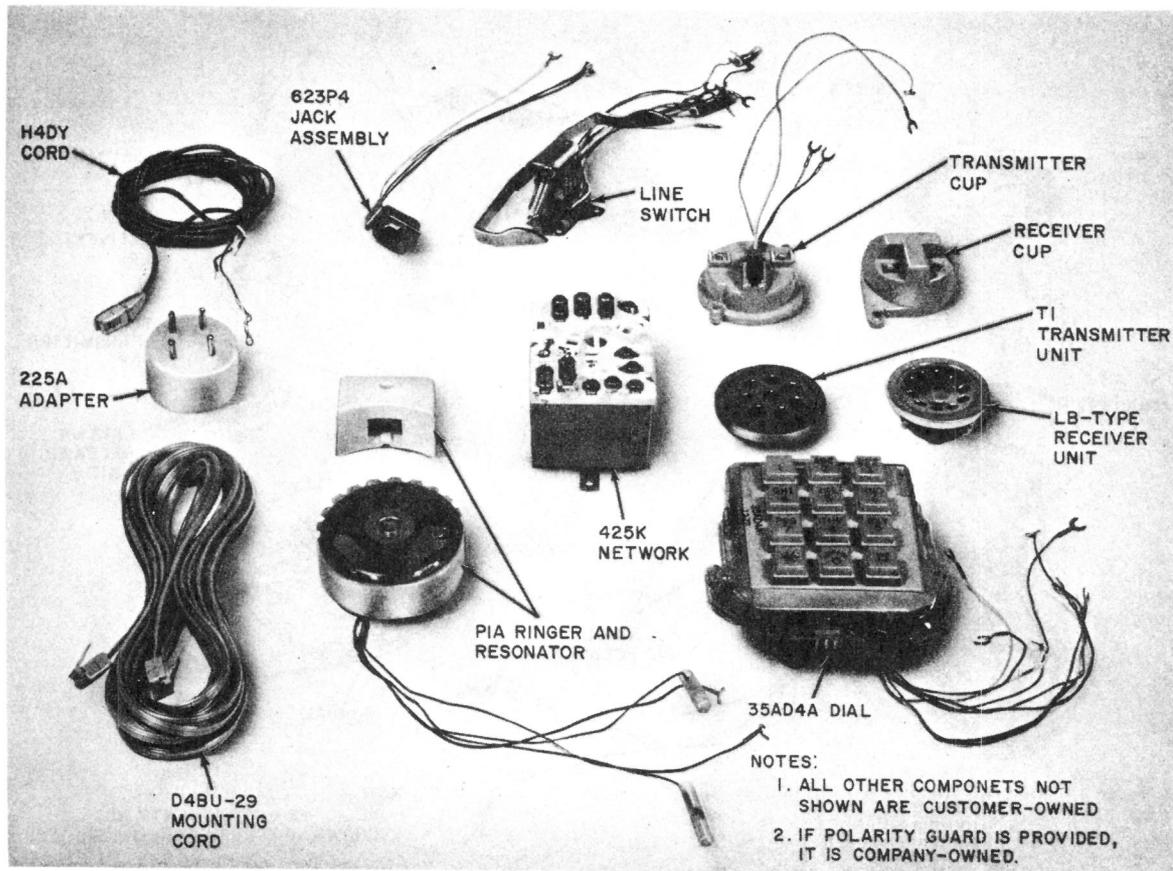


Fig. 6—Telephone Company-Owned Components (Set Equipment with a TOUCH-TONE Dial)

hole in the base plate. Fasten bracket firmly to the base plate using the two screws from the D-180460 Kit of Parts.

(3) Mount D-180461 Guard Assembly to the (840360408) bracket using screw which is furnished.

### 3.08 Line and Ringer Connections:

- (1) For single line and two-party service, refer to Tables B and C.
- (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 the 910A or 2910A DESIGN LINE telephone set remove the telephone company-owned components that are screwed to the base or can otherwise be easily removed. Refer to Fig. 5 and 6 for identification of company-owned components and proceed as follows:

- (1) Unplug the cord from the handset and remove the handset from the telephone set.
- (2) Cut the cord reel cord close to the plastic grommet on the housing, Fig. 1 and 2.

◆ TABLE A ◆  
ORDERING GUIDE

DISPLAY TEL SET CODE	TEL SET CODE	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL INSERT COLOR	DIAL	MTG CORD
910AD10-03	910A10-03	Black	Oiled Walnut	Chrome	Chrome	RTY	D4BU-29
2910AD10-03	2910A10-03				None	TT	
910AD10-50	910A10-50	Ivory	Oiled Walnut	Chrome	Chrome	RTY	
2910AD10-50	2910A10-50				None	TT	
910AD11-03	910A11-03	Black	Mediterranean	Gold	Gold	RTY	
2910AD11-03	2910A11-03				None	TT	
910AD11-50	910A11-50	Ivory	Mediterranean	Gold	Gold	RTY	
2910AD11-50	2910A11-50				None	TT	

TABLE B  
LINE AND RINGER CONNECTIONS  
(910A TELEPHONE SET) †

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENT 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 Cord 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.

**TABLE C**  
**LINE AND RINGER CONNECTIONS**  
**(2910A TELEPHONE SET) †**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENT 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 Cord 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 Lead	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.

- (3) Unplug the mounting cord from the base of the telephone set.
- (4) Remove the two screws, one at each end, from the metal housing base of the wooden box (Fig. 7).
- (5) Remove the four screws, two at each end, from the 910A or 2910A telephone set base (Fig. 8).
- (6) Withdraw the base slowly from the housing (Fig. 9).
- (7) Reassemble metal housing base to the box end brackets. See Fig. 7 and 9.
- 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 D**  
**MODIFICATIONS FOR 1A1 OR 1A2 KTS**  
**(910A OR 2910A TELEPHONE SET)\***

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

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

**TABLE E**  
**POLARITY GUARD CONNECTIONS**  
**FOR 2910A TELEPHONE SET**  
**(P-90D012 GUARD ASSEMBLY)\***

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

\* For access to 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 KTS, or 1A2 KTS.
- ③ If wired for tip party with identification ground.

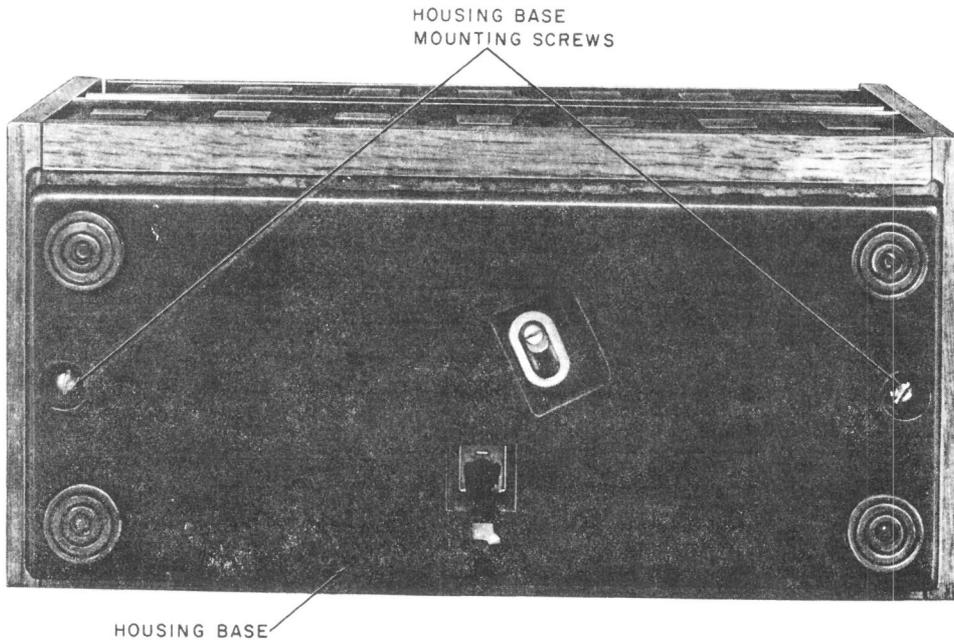


Fig. 7—Removing Metal Housing Base (910A or 2910A Telephone Set)

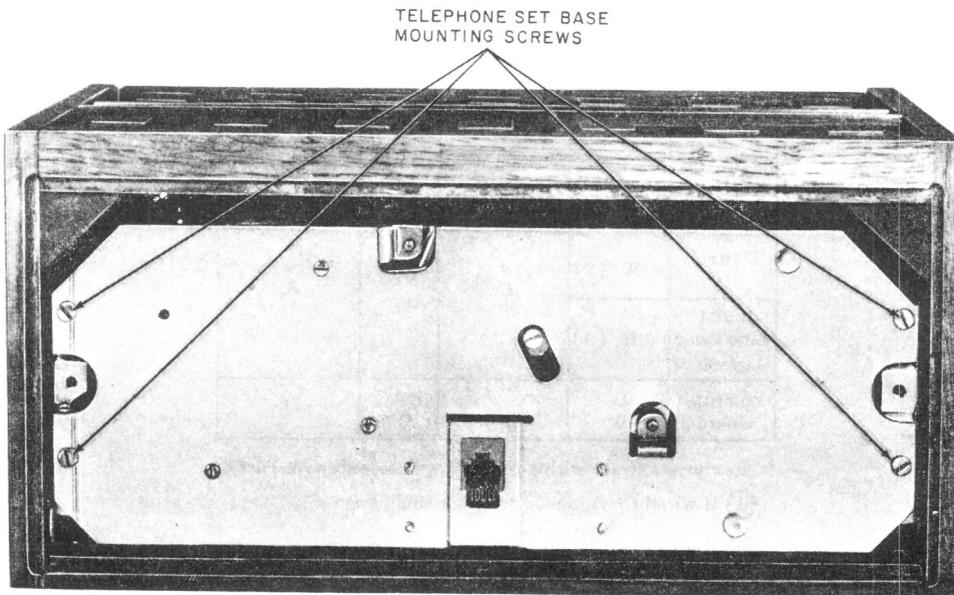
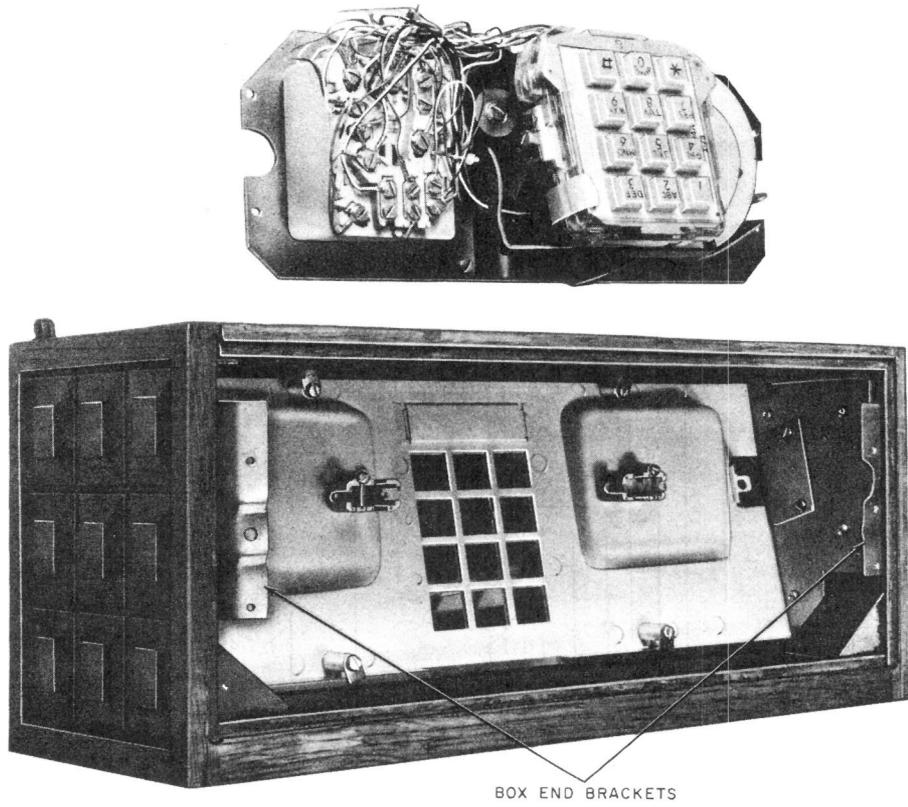
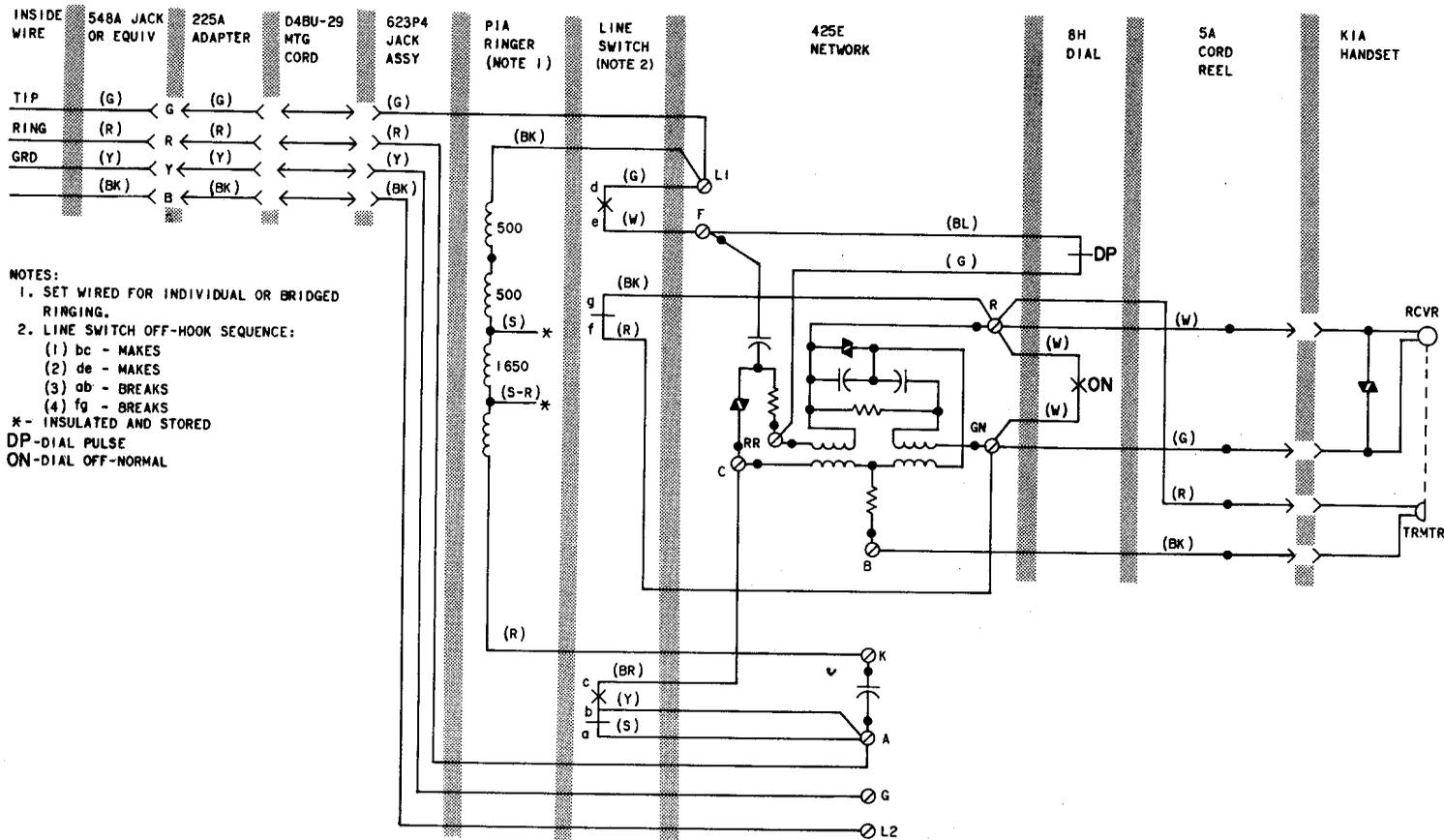


Fig. 8—Removing Telephone Set Base (910A or 2910A Telephone Set)



BOX END BRACKETS

Fig. 9—2910A Telephone Set with Telephone Set Base Removed



NOTES:  
 1. SET WIRED FOR INDIVIDUAL OR BRIDGED RINGING.  
 2. LINE SWITCH OFF-HOOK SEQUENCE:  
 (1) bc - MAKES  
 (2) de - MAKES  
 (3) ab - BREAKS  
 (4) fg - BREAKS  
 X - INSULATED AND STORED  
 DP - DIAL PULSE  
 ON - DIAL OFF-NORMAL

Fig. 10—910A Telephone Set, Connections



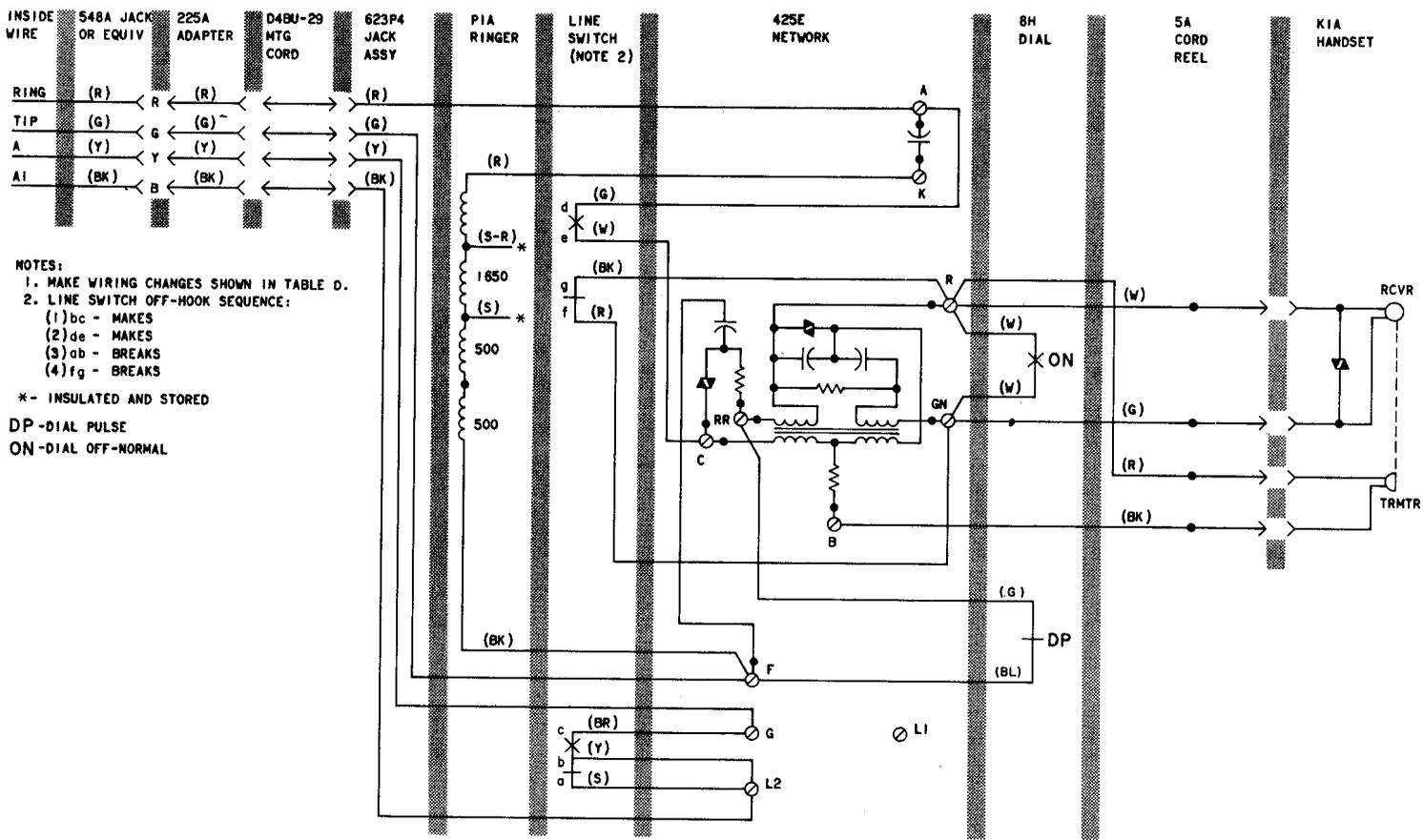


Fig. 12—910A Telephone Set Wired for 1A1 or 1A2 KTS

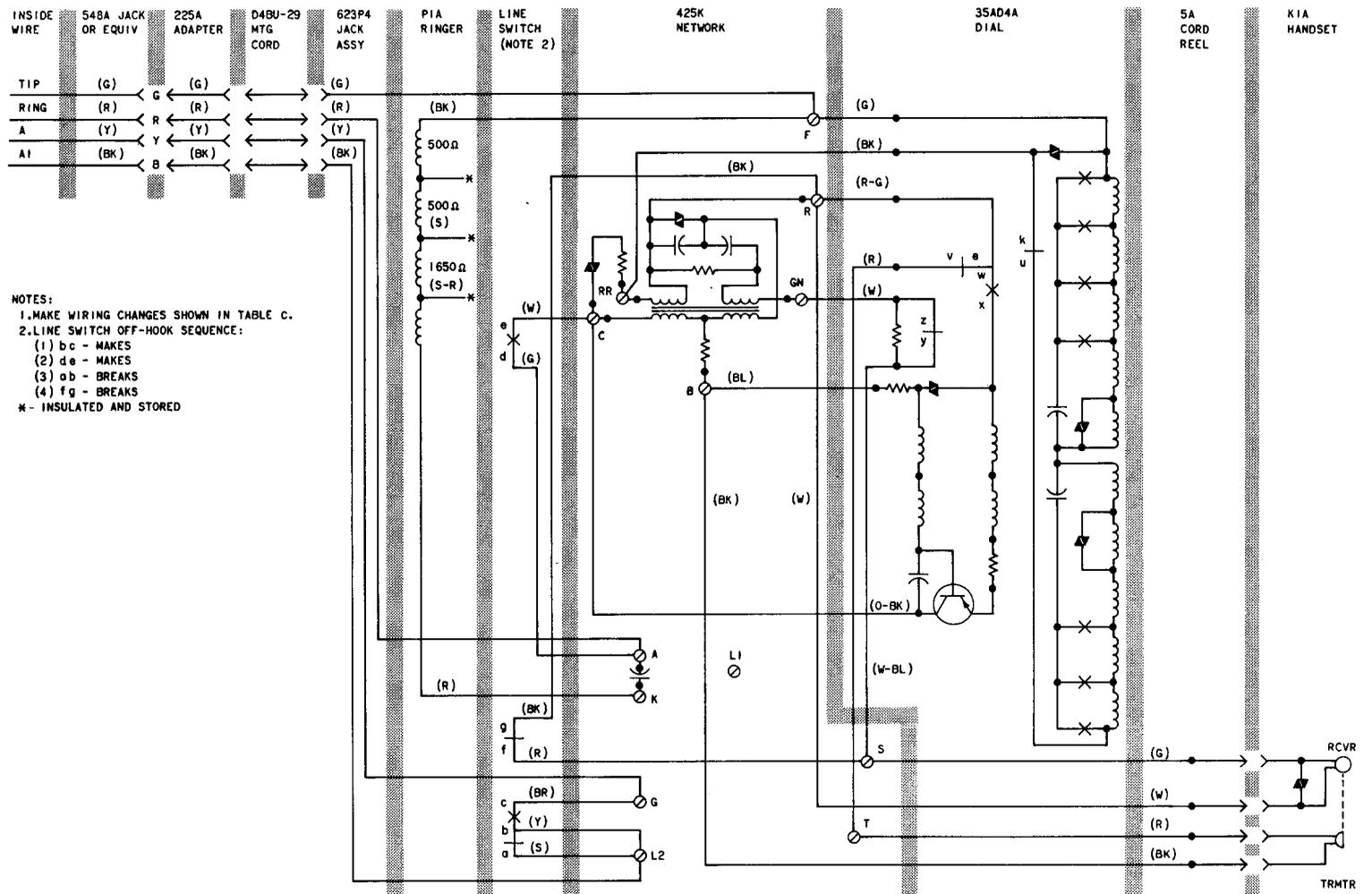


Fig. 13—2910A Telephone Set Wired for 1A1 or 1A2 KTS