

## 930A-, 930B-, 2930A-, 2930B-, AND 2931B-TYPE TELEPHONE SETS IDENTIFICATION, INSTALLATION, AND CONNECTIONS

### 1. GENERAL

1.01 This section contains information on the *Elite I* (Fig. 1), 930A-type (MD) 2930A-type (MD); *Elite II* (Fig. 2), 930B31 (MD), 930B30, 2930B31 (MD), 2930B30; and *Commemorative* (Fig. 3), 2931B33 (MD), and 2931B35 DESIGN LINE\* telephone sets.

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1.02 This section is reissued to:

- Show 930B31-58, 2930B31-58, and 2931B33-03 codes MD
- Revise Tables A, B, and C
- Revise Fig. 8, 9, 10, and 11 to update information

**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 plug-ended mounting cord.

### 2. IDENTIFICATION

2.01 The 930B (rotary dial), 2930B, and 2931B (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.



Fig. 1—930A-(MD) or 930B-Type DESIGN LINE Telephone Set



Fig. 2—2930B-Type DESIGN LINE Telephone Set

Ordering Guide (Refer to Table A)

2.02 *Basic Telephone Set Ordering Information.*

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Fig. 3—2931B35 DESIGN LINE Telephone Set

Example: Set, Telephone, 930B30-105† is a dark green set with gold trim and is equipped with a rotary dial and a green simulated leather vinyl applique.

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

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

2.04 *Optional Component (order separately):*

- D-180503 Guard Assembly (polarity guard for 2930A coded sets)

- 819040122 (P-90D012) Guard Assembly (polarity guard for 2930B and 2931B coded sets).

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 625-type connecting block or if the existing jack is a 548A or equivalent, a 1A converter or 225A adapter is required and must be ordered separately.

3.02 The internal connections for the 930-type, 2930-type, and 2931B telephone sets, for nonkey system use, are shown in Fig. 8 and 9, respectively.

3.03 Connections for 1A KTS do not require any set modifications and are the same as Fig. 8 and 9.

3.04 Connections for use with 1A1 or 1A2 KTS are shown in Fig. 10 for 930-type telephone set and Fig. 11 for 2930-type or 2931B telephone set. Table D includes necessary wiring modifications required for 1A1 and 1A2 key telephone system use.

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

♦TABLE A♦

ORDERING GUIDE

TEL SET CODE	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL INSERT COLOR	DIAL	HANDSET CORD	MTG CORD
930B30-105	Dark Green	Green Vinyl	Gold	Gold	8HA-120 or 8HT-120	H4DU-105	D4BU-29
2930B30-105				None	35AW3D or 35AH3D		
2931B35-03	Black	Commemorative Non-Medallion		None	35AW3D or 35AH3D	H4DU-03	

**3.06** The D-180503 polarity guard is used in the 2930A telephone set and the 819040122 (P-90D012) polarity guard is used in the 2930B and 2931B telephone sets. Refer to Table E for connections when installing the polarity guard according to local administrative practices or procedures for end-to-end signaling purposes where battery and ground reversals are encountered.

**3.07** To install the D-180503 polarity guard, proceed as follows.

- (1) Assemble the 840361901 bracket to the 819040122 (P-90D012) guard assembly using a 814450933 (P-44E095) screw.
- (2) Fasten bracket to telephone set baseplate at threaded screw hole located directly in front of the right hand dial mounting bracket using No. 6 screw, furnished.

**Note:** Fork on 840361901 bracket straddles tab on telephone set baseplate at the left side of the mounting hole. Printed wiring board extends over ringer gong when assembly is completed.

**3.08** To install the 819040122 (P-90D012) guard assembly proceed as follows.

- (1) Assemble the guard assembly to the telephone set base using the 814450953 (P-44E095) screw.

**Note:** Two posts located under the dial near the front of the lower housing support the printed wiring board.

**3.09 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 930-type, 2930-type, and 2931-type DESIGN LINE telephone sets, proceed as follows.

◆**Note:** Remove only the telephone company-owned components that can be easily removed.◆

(a) **930A and 2930A Sets.**

- (1) Remove handset and mounting cords from the bottom of the telephone set.
- (2) Remove the four bottom plate and lower housing mounting screws (Fig. 4).

**Caution: Bottom plate and lower housing are now loose and care should be taken not to drop them.**

- (3) Remove bottom plate and lower housing.
- (4) Remove handset cord jack and mounting cord jack from brackets by lifting off (Fig. 5).
- (5) Remove four upper housing mounting screws (Fig. 5) which secure upper housing and remove upper housing.
- (6) Turn handset mounting plate and telephone set base over and remove hair pin clip and connecting pin from switchhook linkage.
- (7) Remove four telephone set base mounting screws (Fig. 5) and remove base.
- (8) Reassemble upper housing to handset mounting plate (Fig. 5).
- (9) Reassemble lower housing and bottom plate to handset mounting plate (Fig. 4).

(b) **930B, 2930B, and 2931B Sets.**

- (1) Remove handset and mounting cords from the back of the telephone set.
- (2) Remove the four lower housing mounting screws (Fig. 6).

**Caution: Upper housing and handset mounting plate are now loose and care should be taken not to drop them.**

- (3) Remove upper housing and handset mounting plate.

**♦TABLE B♦**  
**LINE AND RINGER CONNECTIONS**  
**[930A-(MD) AND 930B-TYPE TELEPHONE SETS]†**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENT GROUND	
					1000Ω	2650Ω
Inside Wire at Conn Block or 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 Mtg Cord Jack	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

\*Insulate and store.

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

**♦TABLE C♦**  
**LINE AND RINGER CONNECTIONS**  
**[2930A- (MD), 2930B-, AND 2931B-TYPE TELEPHONE SETS]†**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENT GROUND	
					1000Ω	2650Ω
Inside Wire at Conn Block or 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 Mtg Cord Jack	R	A	A	L1	C	C
	G	L1	L1	A	S	S
	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

\*Insulate and store.

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

‡Terminals on terminal S in the 2930A-type telephone set.

- (4) Remove handset cord jack and mounting cord jack by lifting out (Fig. 7).
  - (5) Remove screws holding company-owned components to base and remove components.
  - (6) Reassemble handset mounting plate and upper housing on lower housing.
- 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.

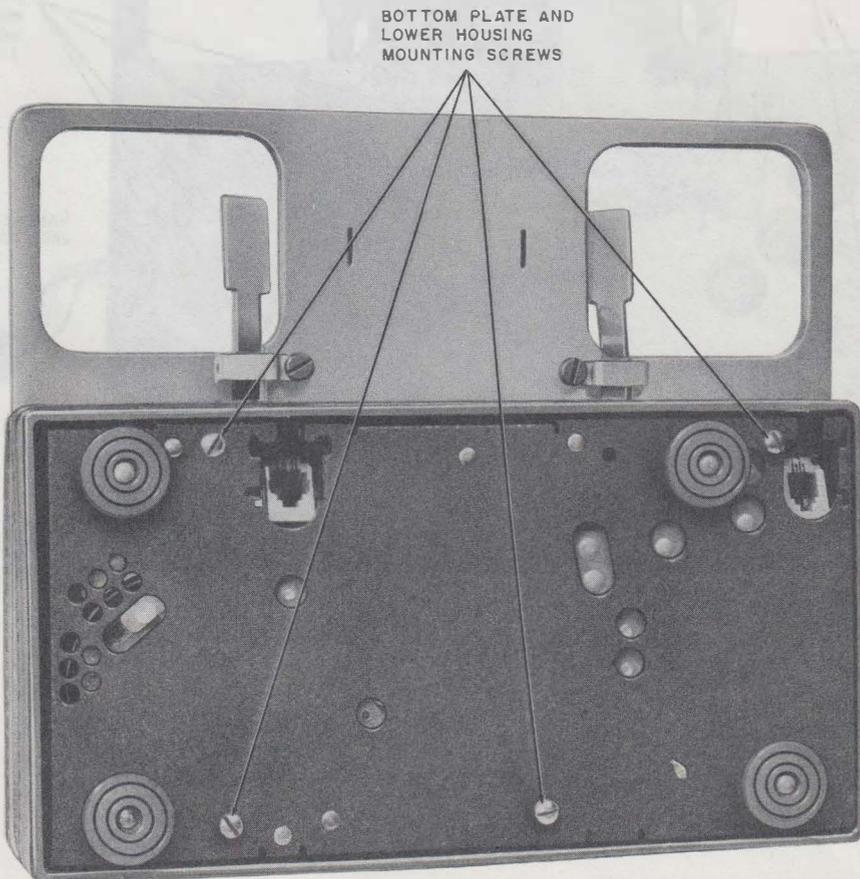


Fig. 4—930A-(MD) or 2930A-Type (MD) Telephone Set, Bottom View

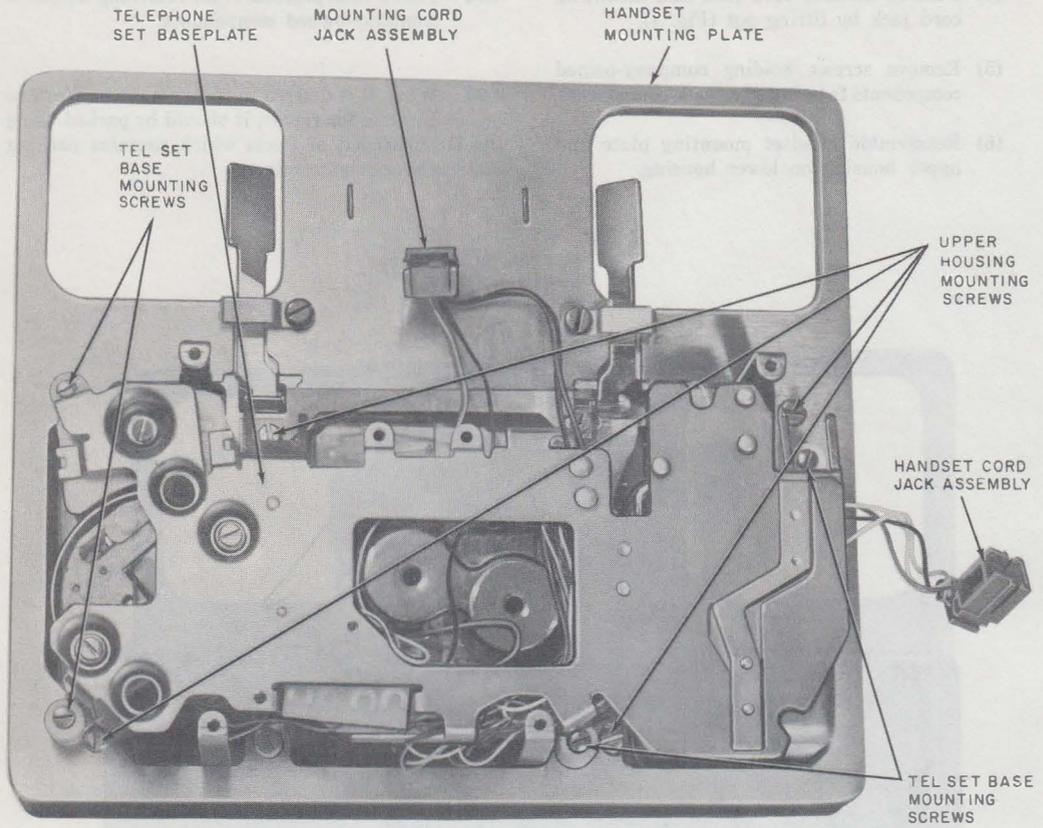
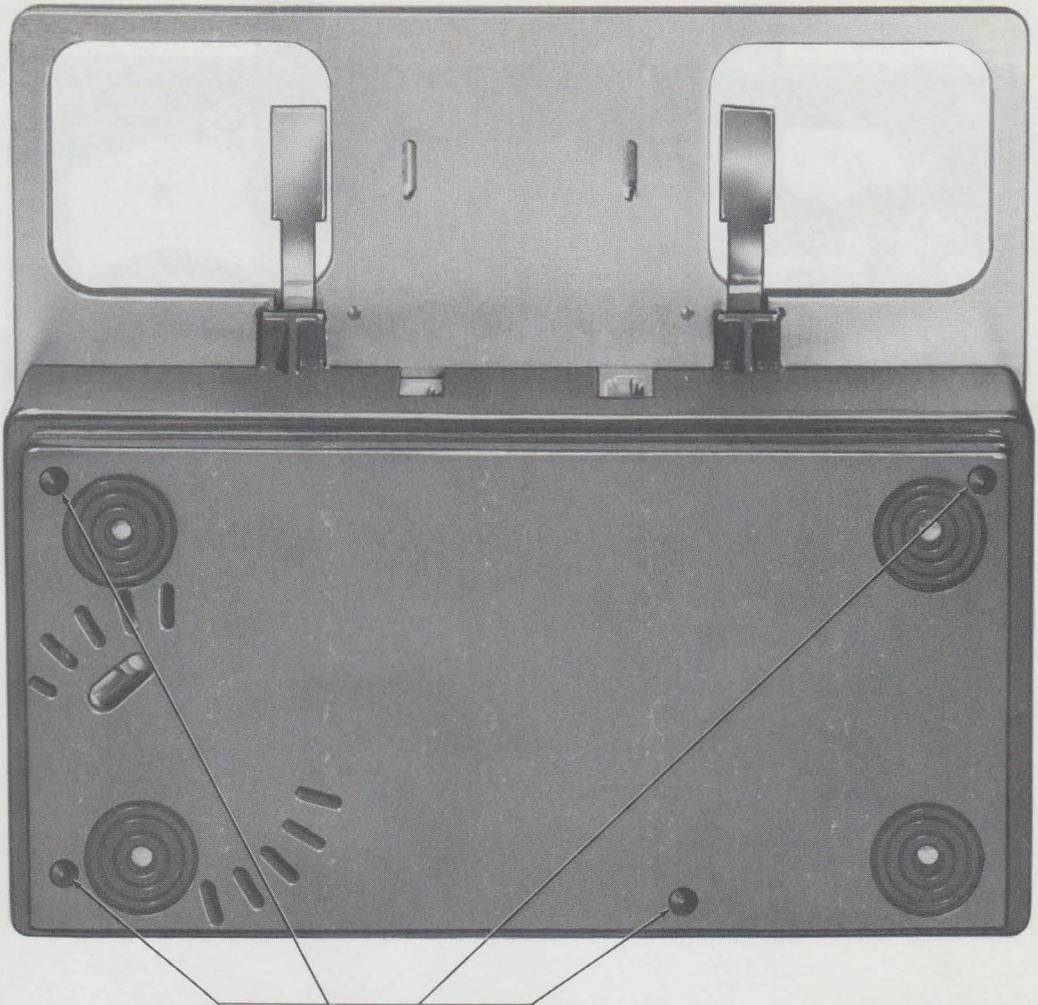


Fig. 5—2930A-Type (MD) Telephone Set with Lower Housing Removed



LOCATION OF LOWER HOUSING  
MOUNTING SCREWS

Fig. 6—930B-, 2930B-, or 2931B-Type Telephone Set, Bottom View

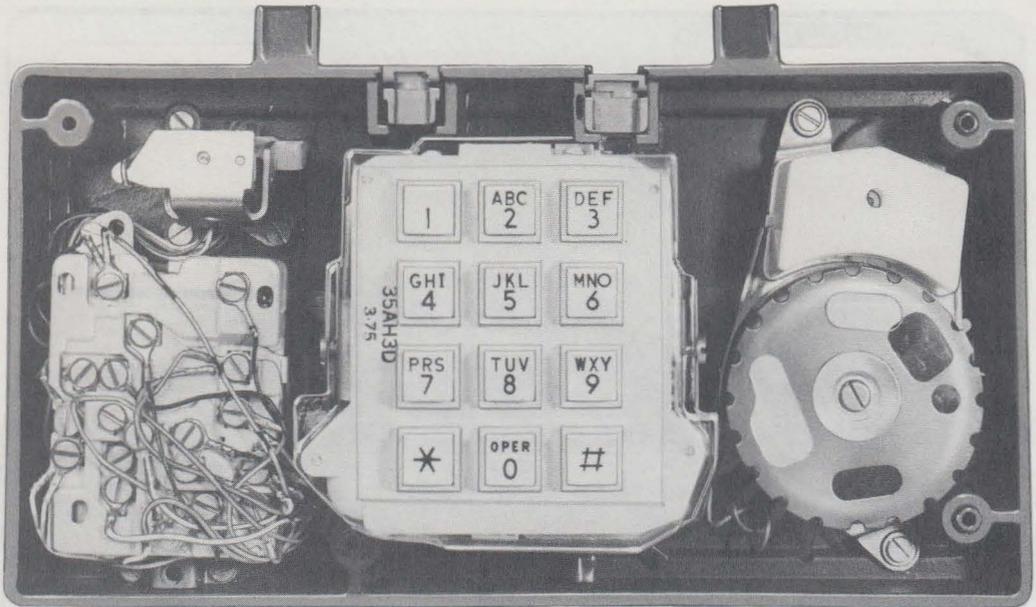


Fig. 7—2930B-Type Telephone Set, Upper Housing, and Handset Mounting Plate Removed

## ◆TABLE D◆

MODIFICATION FOR 1A1 AND 1A2 KTS\*

LEAD	COLOR	NET. TERMINAL		
		REMOVE FROM	930-TYPE TEL SET	2930- AND 2931B-TYPE TEL SET
			CONNECT TO	CONNECT TO
Line Switch	S	A	L2	L2†
	Y	A	L2	L2†
	BR	C	G	G
	G	L1	A	A
	W	F	C	C
623P4 Mtg Cord Jack	G	L1	F	F
Ringer	BK	L1	F	F

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

† Terminates on terminal S in the 2930A telephone set.

## 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 Mtg Cord Jack	R ③			
Polarity Guard	G W			

\* 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.

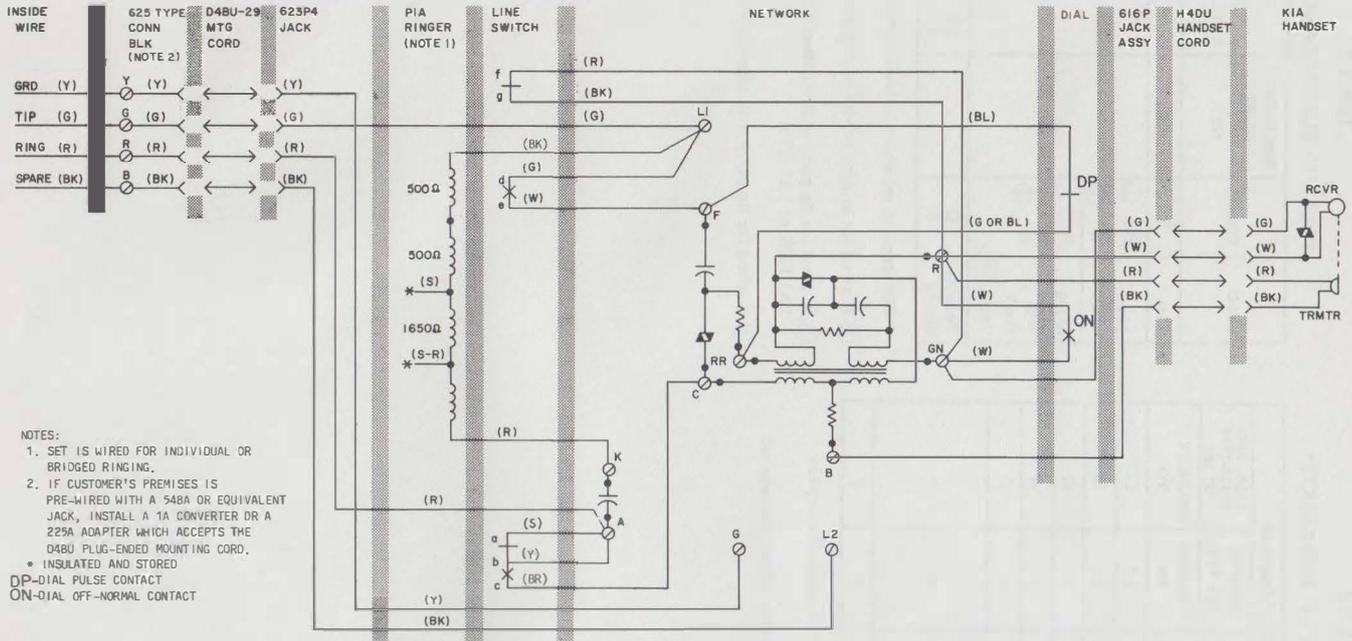


Fig. 8—930A-(MD) or 930B-Type Telephone Set,Connections

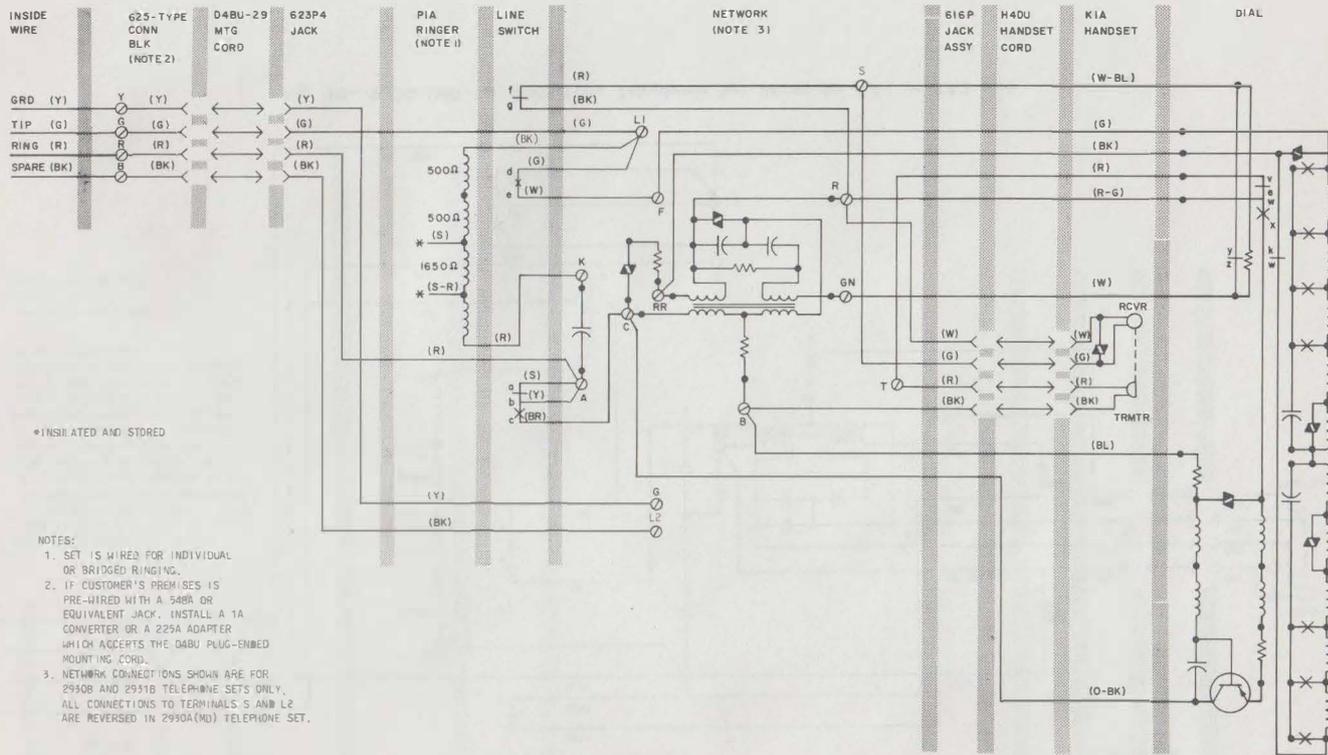


Fig. 9—2930A-(MD), 2930B-, or 2931B-Type Telephone Set, Connections

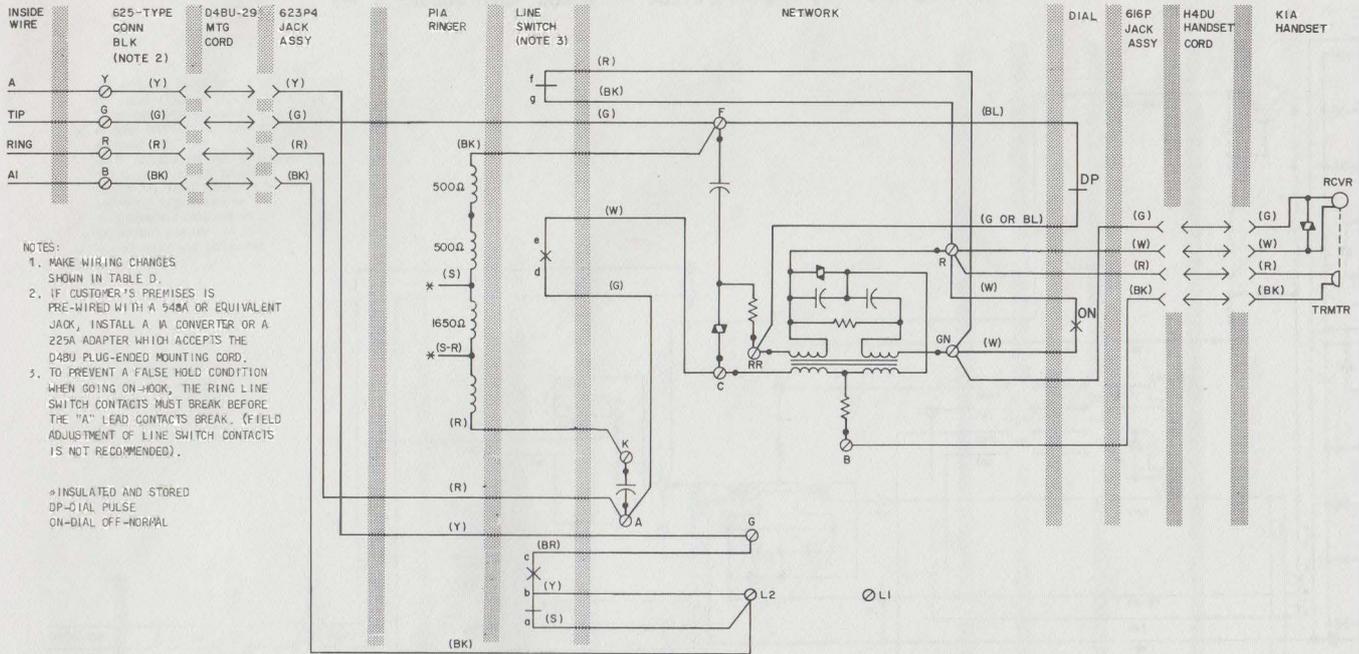


Fig. 10—930A-(MD) or 930B-Type Telephone Set Wired for 1A1 or 1A2 KTS

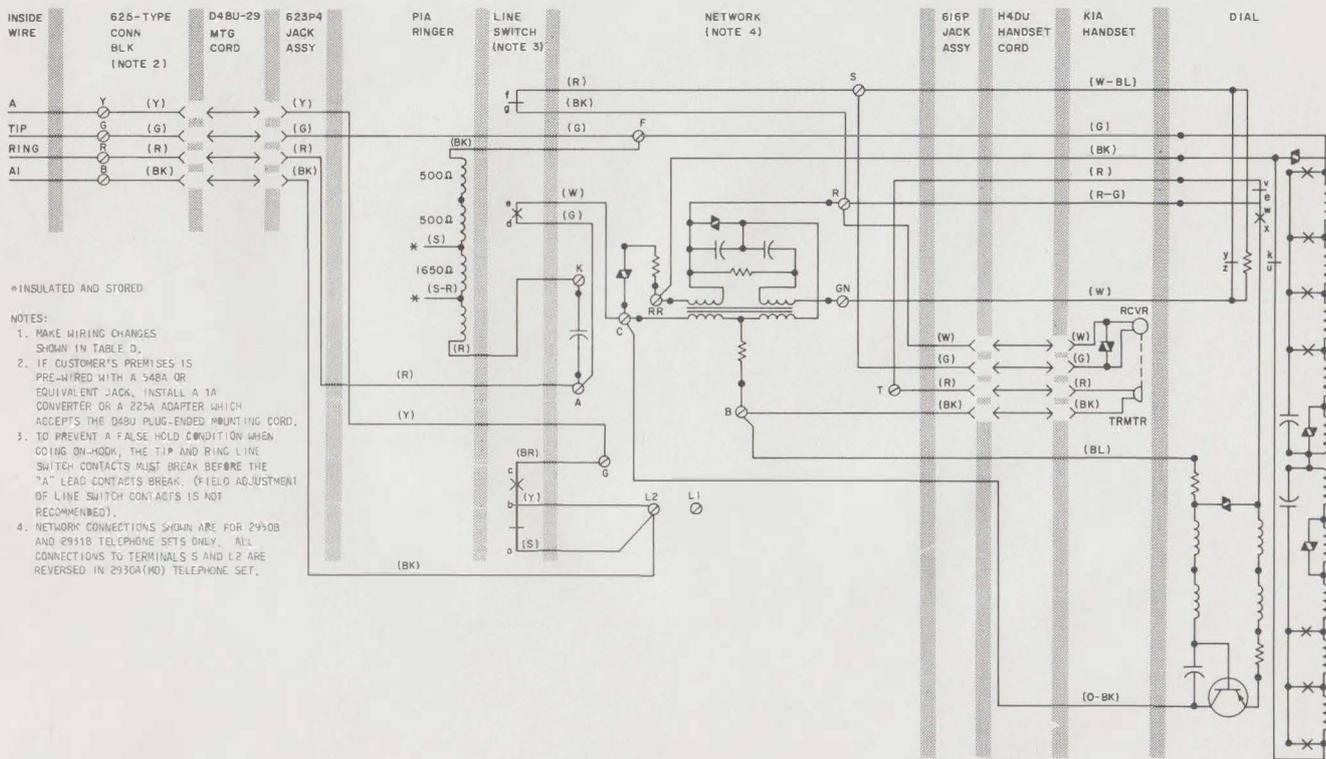


Fig. 11—2930A-(MD), 2930B-, or 2931B-Type Telephone Set Wired for 1A1 or 1A2 KTS