

TELEPHONE SETS 900A AND 2900A IDENTIFICATION, INSTALLATION, AND CONNECTIONS

1. GENERAL

1.01 This section provides identification, installation, and connection information for the 900A (Fig. 1) and 2900A (Fig. 2) DESIGN LINE* telephone (*Exeter*) sets.

*Trademark

1.02 This section is reissued to:

- Add D-18C000 Kit of Parts
- Add new Fig. 4 and 5, 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—900A DESIGN LINE Telephone Set



Fig. 2—2900A 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 900A (rotary dial) and 2900A (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. 3, 4, and 5).

Ordering Guide (Refer to Table A)

2.02 **Basic Telephone Set Ordering Information:**

Example: Set, Telephone, 900A3-58† is a white desk set equipped with a rotary dial and an etched metal applique (Fig. 1).

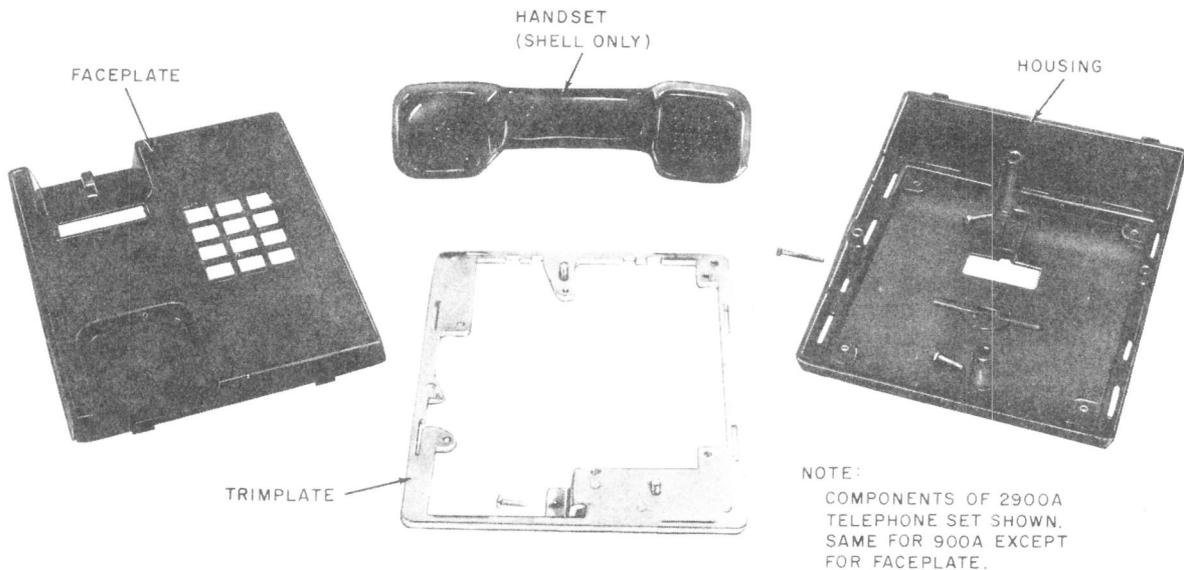


Fig. 3—Customer-Owned Components

†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 common battery desk sets and cannot be used on four- and eight-party service.

2.04 *Optional Component (order separately):*

- P-90D170 Guard Assembly (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.

3.02 The internal connections for the 900A and 2900A telephone sets, for nonkey system use, are shown in Fig. 9 and 10, respectively.

3.03 Connections for 1A KTS do not require any telephone set modifications and are wired same as Fig. 9 and 10.

3.04 Connections for use with 1A1 or 1A2 KTS are shown in Fig. 11 for 900A telephone set and Fig. 12 for 2900A telephone set. 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 Part 4.

3.06 When installing polarity guard (P-90D170 Guard Assembly) in 2900A 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 guard assembly in set, insert mounting screw into the telephone set base plate and the bracket on the guard assembly (Fig. 7).

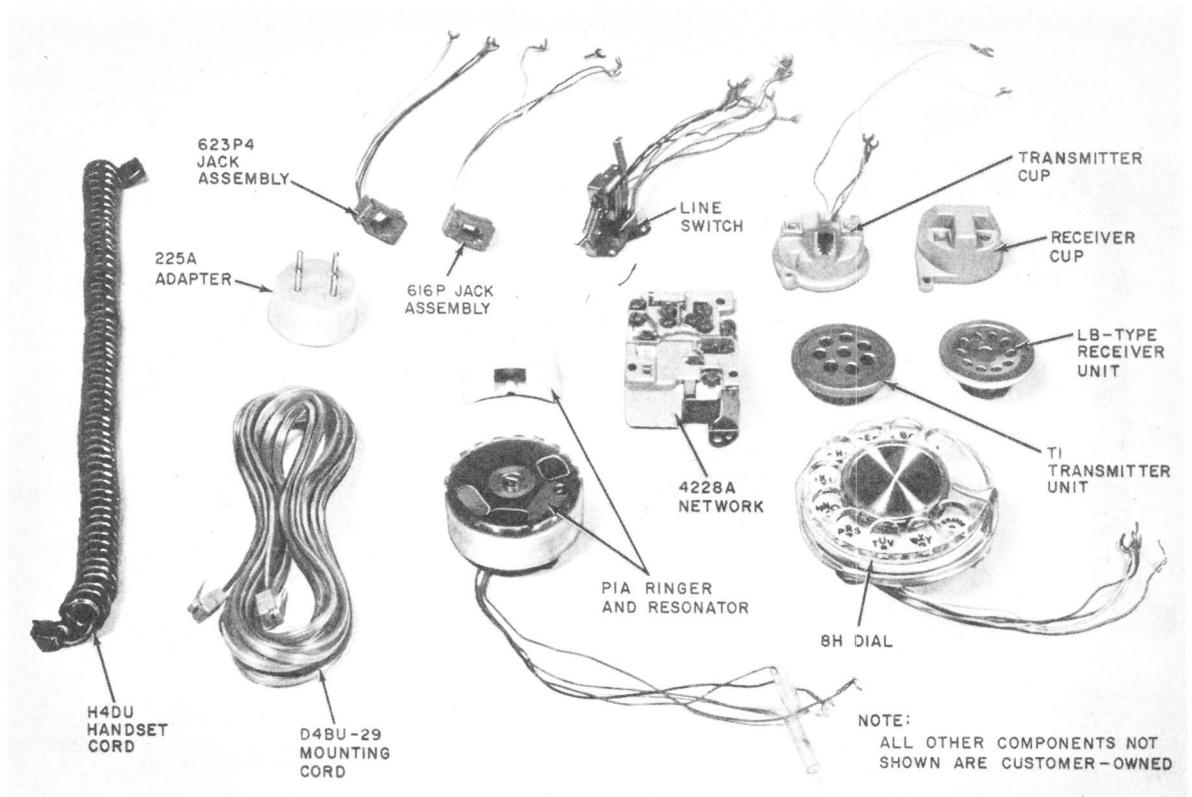


Fig. 4—Telephone Company-Owned Components (Set Equipped with a Rotary Dial)

3.08 Line and Ringer Connections:

- (1) Refer to Table B for single line and two-party service for 900A or Table C for 2900A telephone 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 the 900A or 2900A 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. 4 and

5 for identification of company-owned components and proceed as follows:

- (1) Remove handset and mounting cords from the telephone set.
- (2) Remove housing:
 - Loosen the two captive mounting screws in bottom of housing (Fig. 6)
 - Remove two screws from side of housing (Fig. 6).
 - Remove screw that mounts faceplate to trimplate (Fig. 7).

Caution: Lift bottom edge of trimplate approximately 1/16-inch and slide forward to clear the trimplate tabs from the notches

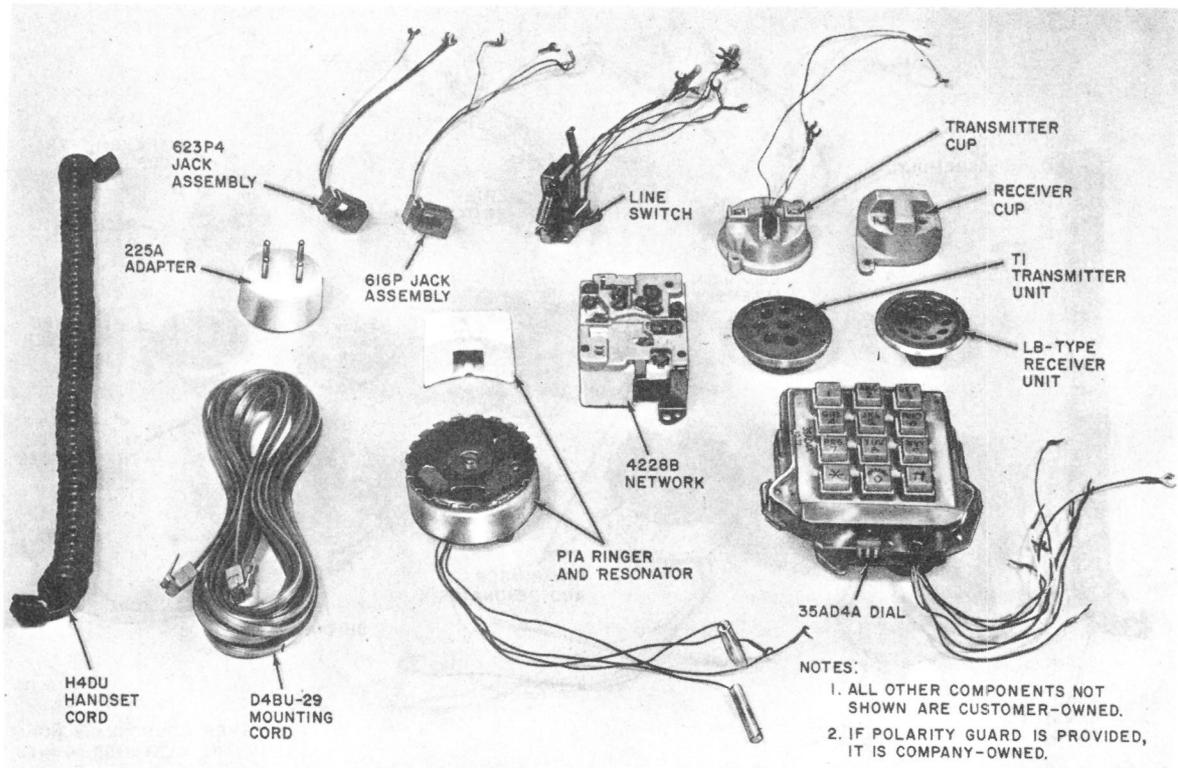


Fig. 5—Telephone Company-Owned Components (Set Equipped with a TOUCH-TONE Dial)

in faceplate and separate trimplate from faceplate.

- Remove telephone set base by removing four machine screws shown in Fig. 8.
- (3) Reassembly trimplate to faceplate.
- (4) Reassemble housing to trimplate.

4.02 Follow local procedures for returning 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 A ◆
ORDERING GUIDE

DISPLAY TEL SET CODE	TEL SET CODE	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL INSERT COLOR	DIAL	HANDSET CORD	MTG CORD
900AD1-58	900A1-58	White	Customer Option	Chrome	Chrome	RTY	H4DU-58	D4BU-29
2900AD1-58	2900A1-58					TT		
900AD1-104	900A1-104	Dark Brown				RTY	H4DU-104	
2900AD1-104	2900A1-104					TT		
900AD1-105	900A1-105	Dark Green				RTY	H4DU-105	
2900AD1-105	2900A1-105					TT		
900AD2-58	900A2-58	White	Alligator			RTY	H4DU-58	
2900AD2-58	2900A2-58					TT		
900AD2-104	900A2-104	Dark Brown				RTY	H4DU-104	
2900AD2-104	2900A2-104					TT		
900AD3-58	900A3-58	White	Etched Metal			RTY	H4DU-58	
2900AD3-58	2900A3-58					TT		
900AD4-58	900A4-58	White	Green Vinyl	RTY	H4DU-58			
2900AD4-58	2900A4-58			TT				
900AD4-105	900A4-105	Dark Green		RTY	H4DU-105			
2900AD4-105	2900A4-105			TT				

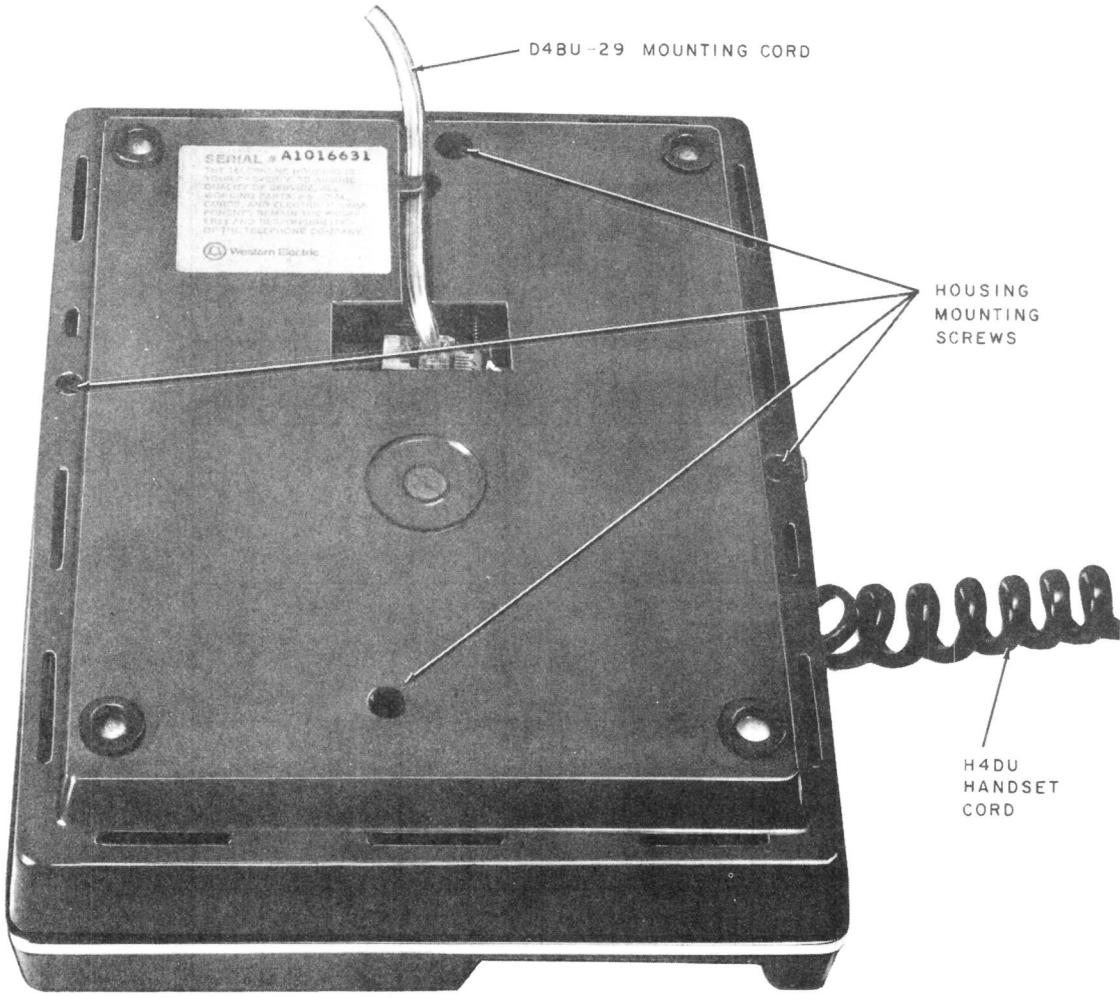


Fig. 6—900A or 2900A Telephone Set, Bottom View

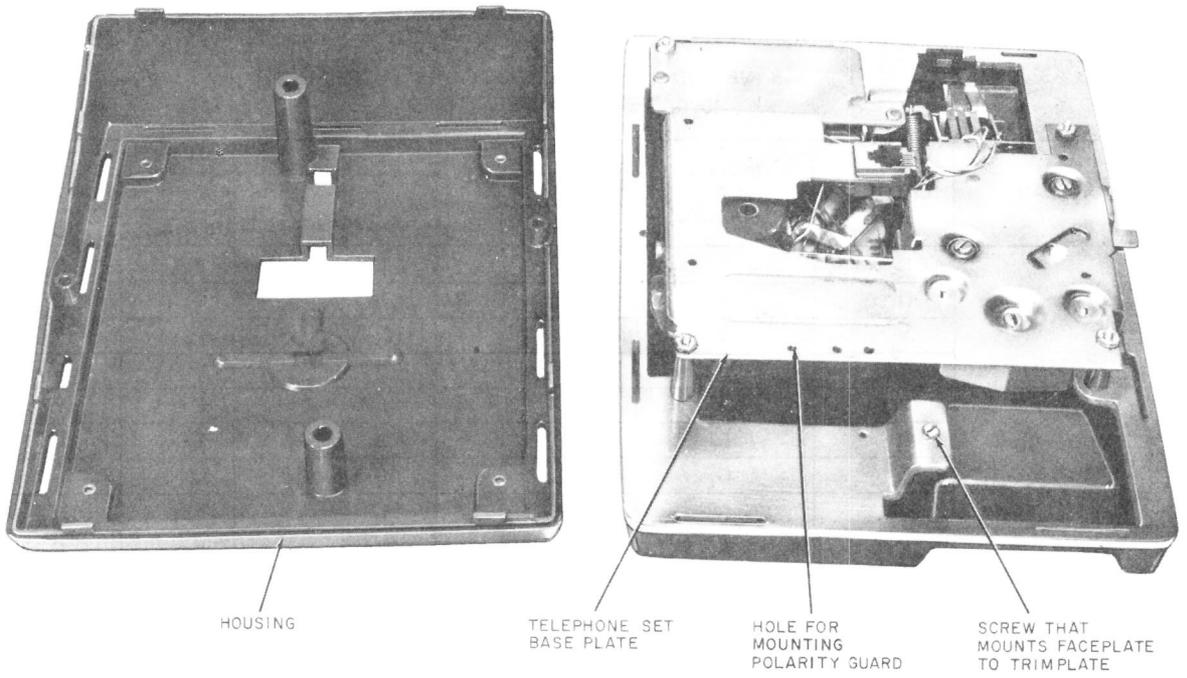


Fig. 7—2900A Telephone Set, Housing Removed

TABLE B
LINE AND RINGER CONNECTIONS
(900A TELEPHONE SET)†

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 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
(2900A TELEPHONE SETS)†

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENTIFYING GROUND	
					1000 Ω	2650 Ω
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	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.

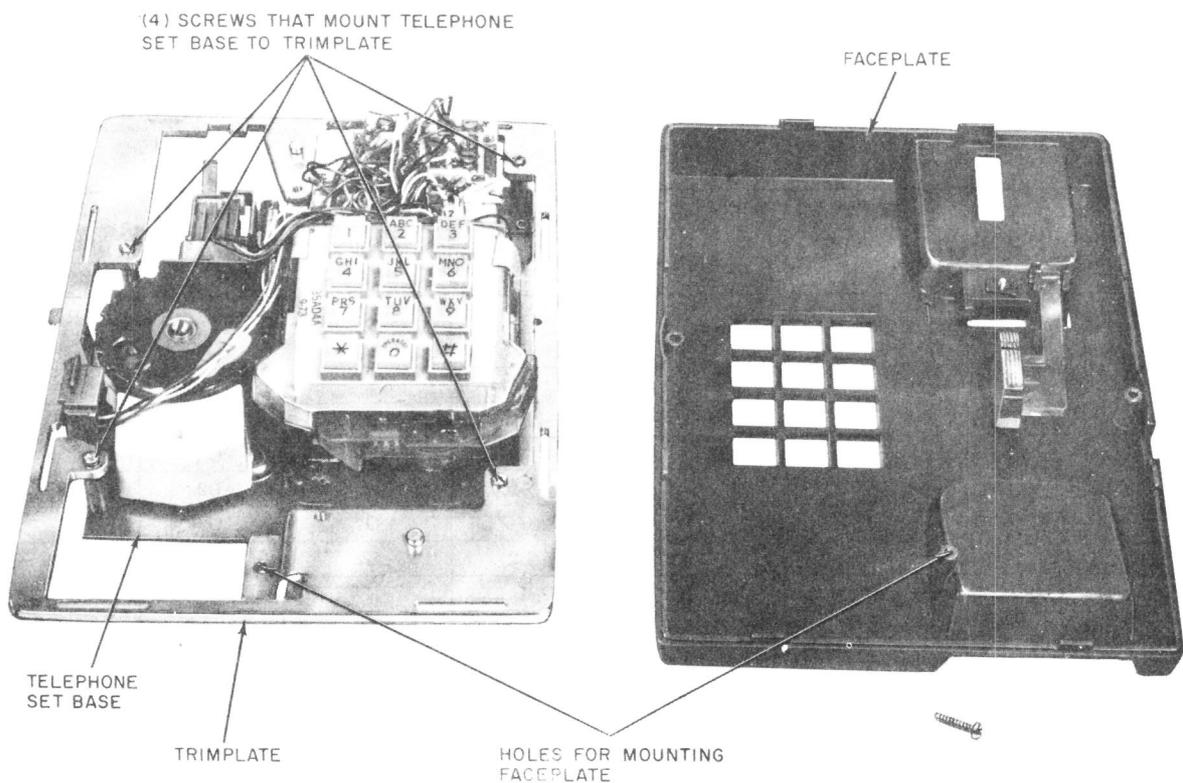


Fig. 8—2900A Telephone Set, Less Housing With Faceplate Removed

TABLE D
MODIFICATIONS FOR 1A1 OR 1A2 KTS
(900A OR 2900A TELEPHONE SET)*

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 Cord Jack Assy	G	L1	F
Ringer	BK	L1	F

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

TABLE E
POLARITY GUARD CONNECTIONS
FOR 2900A TELEPHONE SET
(P-90D170 GUARD ASSEMBLY)*

LEAD	COLOR	DIS-CONNECT 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

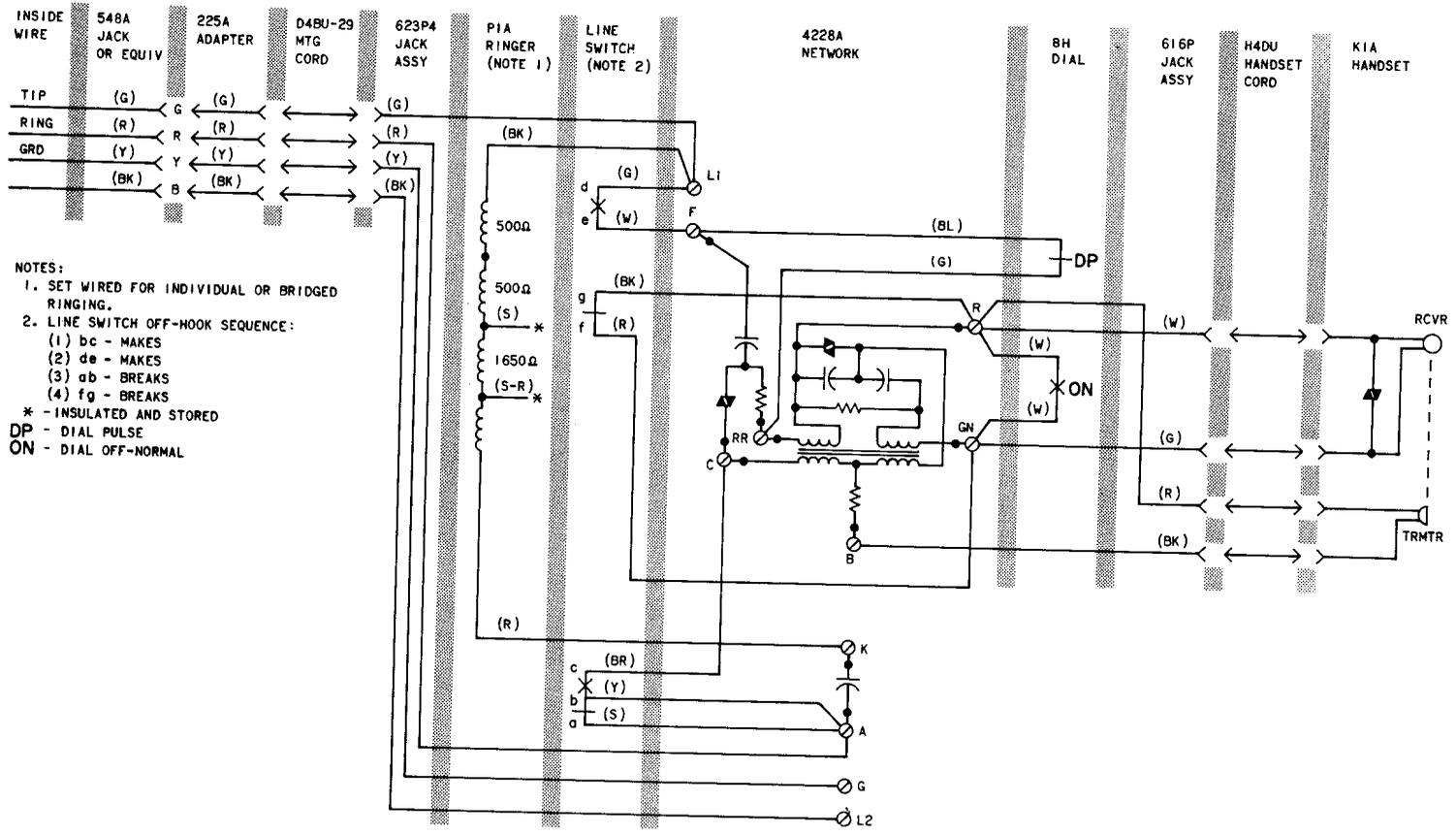


Fig. 9—900A Telephone Set, Connections

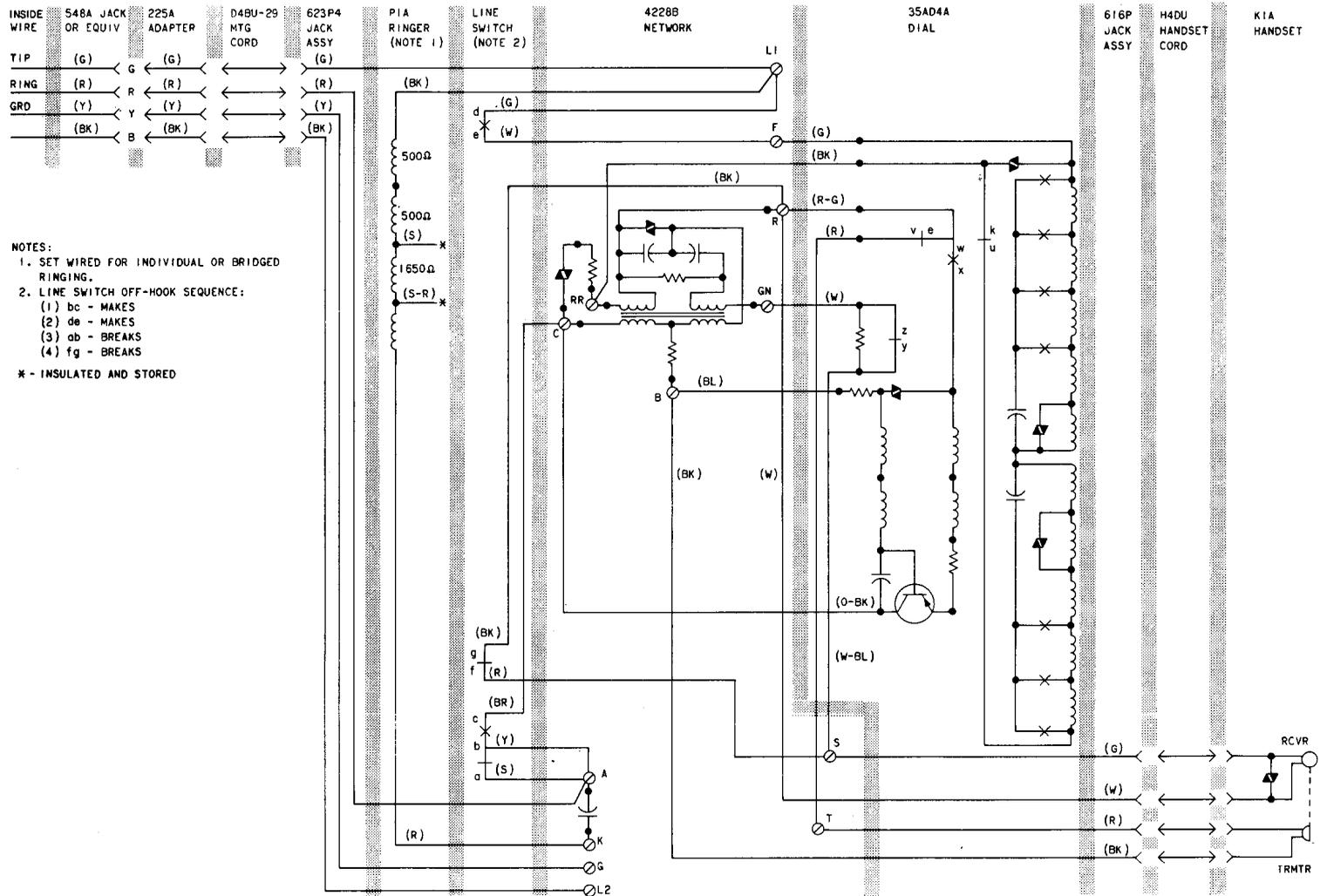


Fig. 10—2900A Telephone Set, Connections

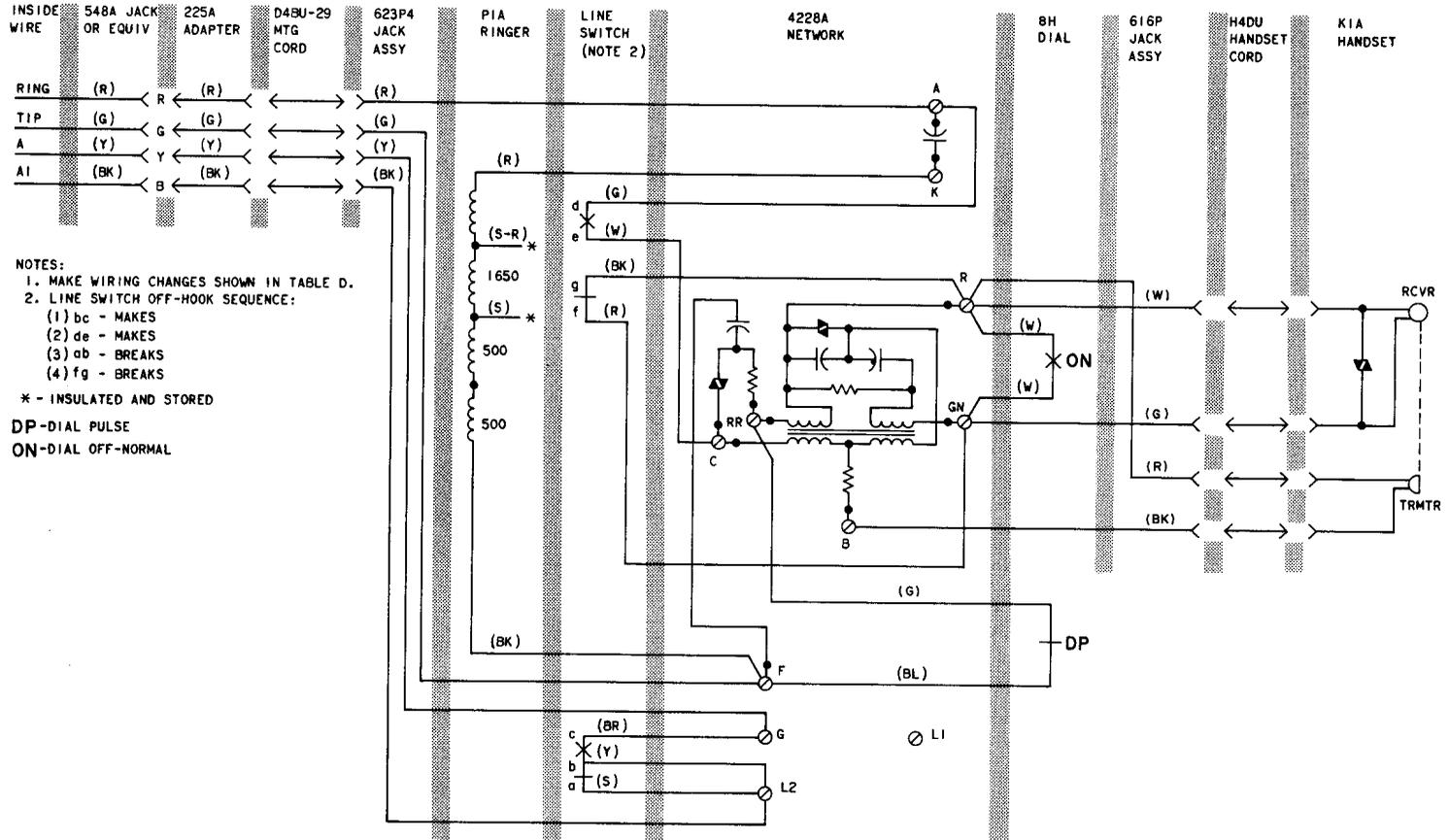


Fig. 11—900A Telephone Set Wired for 1A1 or 1A2 KTS

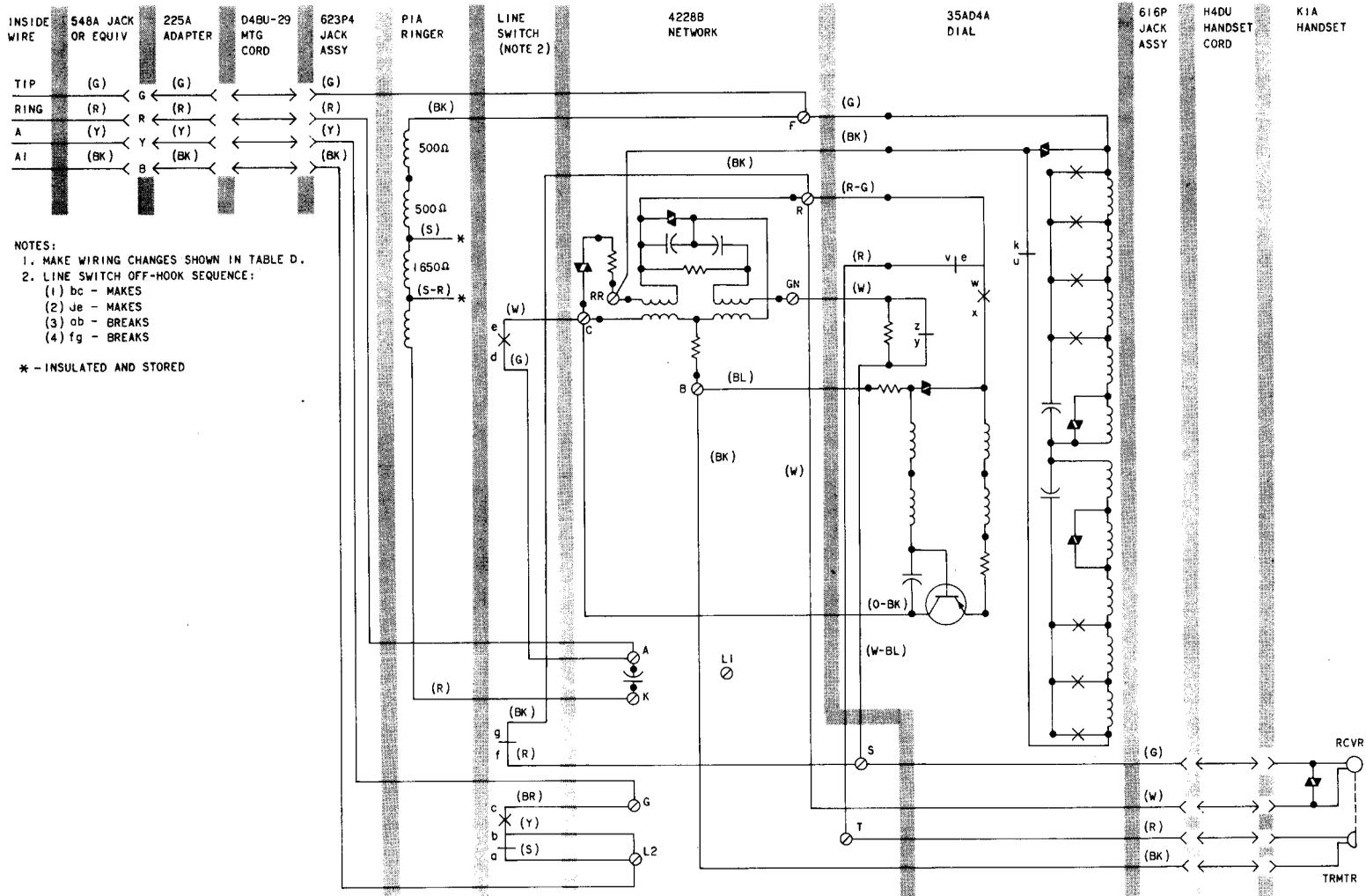


Fig. 12—2900A Telephone Set Wired for 1A1 or 1A2 KTS