

## TELEPHONE SETS

### 881B109 AND 2881B109

#### 1. GENERAL

1.01 This section provides identification, installation, and connection information for the 881B109 (Fig. 1) and 2881B109 DESIGN LINE\* telephone (The Mickey Mouse® Phone\*\*) sets.

\*Trademark AT&TCo.

\*\*Housing produced by American Telecommunication Corporation.

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**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.**

1.02 Whenever this section is reissued the reason for reissue will be listed in this paragraph.

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 telephone set.

#### 2. IDENTIFICATION

2.01 The 881B109 (rotary dial) and 2881B109 (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.

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



Fig. 1—881B109 DESIGN LINE Telephone Set

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.

#### 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 jack or if the

#### NOTICE

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

**TABLE A**  
**ORDERING GUIDE**

TEL SET CODE	DIAL	TRMTR UNIT	RCVR UNIT	HANDSET CORD JACK	MTG CORD JACK	HANDSET CORD	MTG CORD	HANDSET	RINGER	NET.
881B109	6UA	T1	U3	616P	623P4	H4DU-58	D4BU-29	G15A-56	P1A	4228A
2881B109	35AH3D	T1	U3	616P	623P4	H4DU-58	D4BU-29	G15A-56	P1A	4228B

existing jack is a 548A or equivalent, use the 225A adapter furnished with each set.

**3.02** The internal connections for the 881B109 and 2881B109 telephone sets, for nonkey system use, are shown in Fig. 3 and 4.

**3.03** Connections for 1A KTS do not require any telephone set modifications and are wired same as Fig. 3 and 4.

**3.04** Connections for use with 1A1 or 1A2 KTS are shown in Fig. 5 and 6. Table D includes necessary wiring modification 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** *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.

**3.07** When needed a 819040528 (P-90D052) polarity guard assembly can be mounted to the right hand dial mounting bracket. Refer to Table E for connections.

**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 telephone company-owned components that can be easily removed. To

provide an appearance model telephone set, components such as the dial and handset cord will remain with the telephone set.

- (1) Remove four base mounting screws from the bottom of the telephone set and remove bottom base (Fig. 2).
- (2) Pop off small black cover on bottom of base and remove and two outer line switch mounting screws from the base and remove line switch (Fig. 2).
- (3) Remove two network, two ringer, and four dial mounting screws from the base and remove network, ringer, and dial (Fig. 2).
- (4) Unscrew transmitter and receiver caps and remove T1 transmitter and U3 receiver units.

**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-180779 Kit of Parts which contains packing materials and instructions.

**TABLE B**  
**LINE AND RINGER CONNECTIONS**  
**(881B109 TELEPHONE SET)†**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO INDENT GROUND	IDENT GROUND	
					1000Ω	2650Ω
Inside Wire at 625-type Conn Bik	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

\*Insulate and store.

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

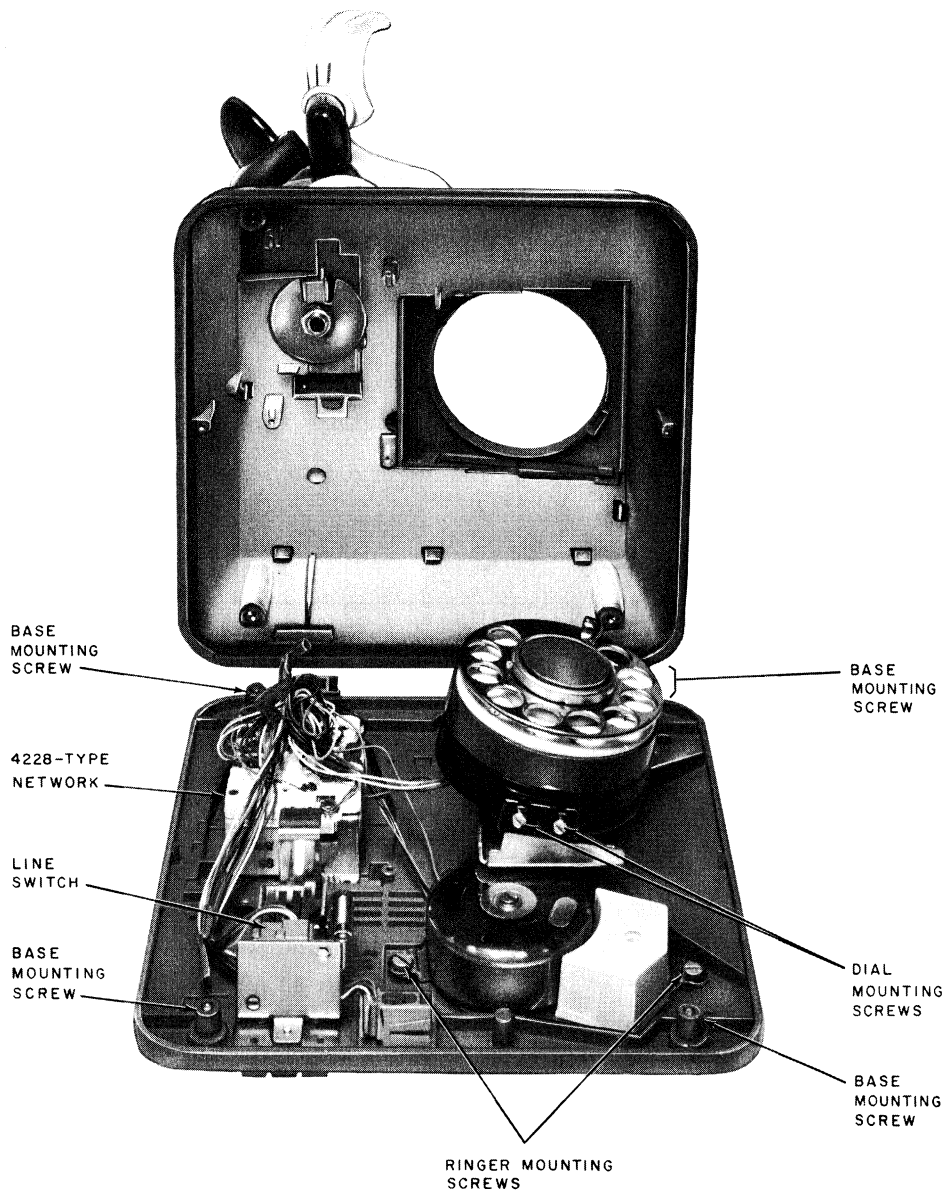


Fig. 2—881B109 Telephone Set With Base

TABLE C

**LINE AND RINGER CONNECTIONS  
(2881B109 TELEPHONE SET)†**

WIRE OR LEAD	COLOR	INDIVID. OR BRIDGED	RING PARTY	TIP PARTY		
				NO IDENT GROUND	IDENT GROUND	
					1000 $\Omega$	2650 $\Omega$
Inside Wire at 625-Type Conn. Blk	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

\* Insulate and store.

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

**TABLE D**  
**MODIFICATIONS FOR 1A1 OR 1A2 KTS (881B109 OR**  
**2881B109 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 set wiring follow applicable steps in Part 4.

**TABLE E**  
**POLARITY GUARD CONNECTIONS FOR**  
**2881B109 TELEPHONE SET**  
**819040528 (P-90D052) GUARD ASSEMBLY\***

LEAD	COLOR	DIS-CONNECT FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	BK	RR		T
Line Switch	BR†	C		S
	W‡			
623P4 Line Cord Jack Assy.	R§			
Polarity Guard	G		RR	
	W		C	

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

† If wired for bridged service or ring party.

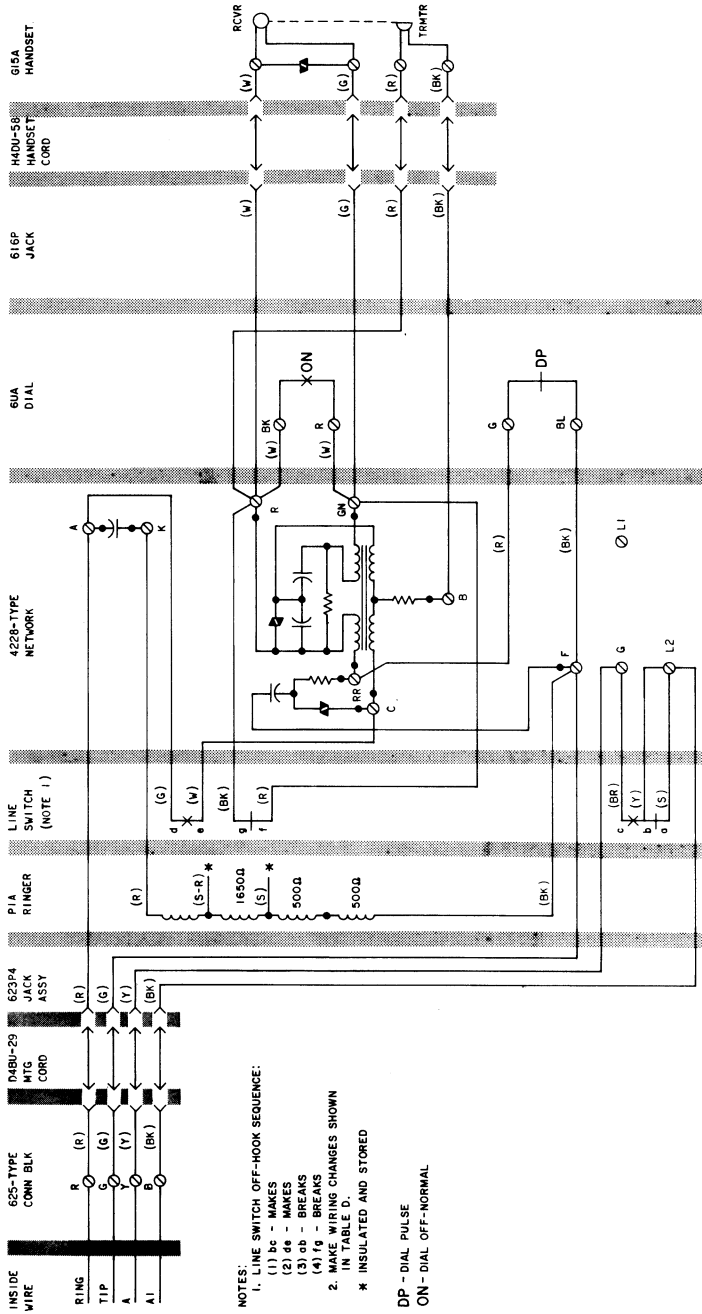
‡ If wired for tip party with no identification ground, 1A1 KTS, or 1A2 KTS.

§ If wired for tip party with identification ground.









NOTES:  
 1. LINE SWITCH OFF-HOOK SEQUENCE:  
 (1) DC - MAKES  
 (2) DC - BREAKS  
 (3) AC - MAKES  
 (4) AC - BREAKS  
 2. MAKE WIRING CHANGES SHOWN  
 \* IN TABLE D.  
 \* INSULATED AND STORED

DP - DIAL PULSE  
 ON - DIAL OFF-NORMAL

Fig. 5—881B109 Telephone Set Wired for 1A1 or 1A2 KTS (Note 2)

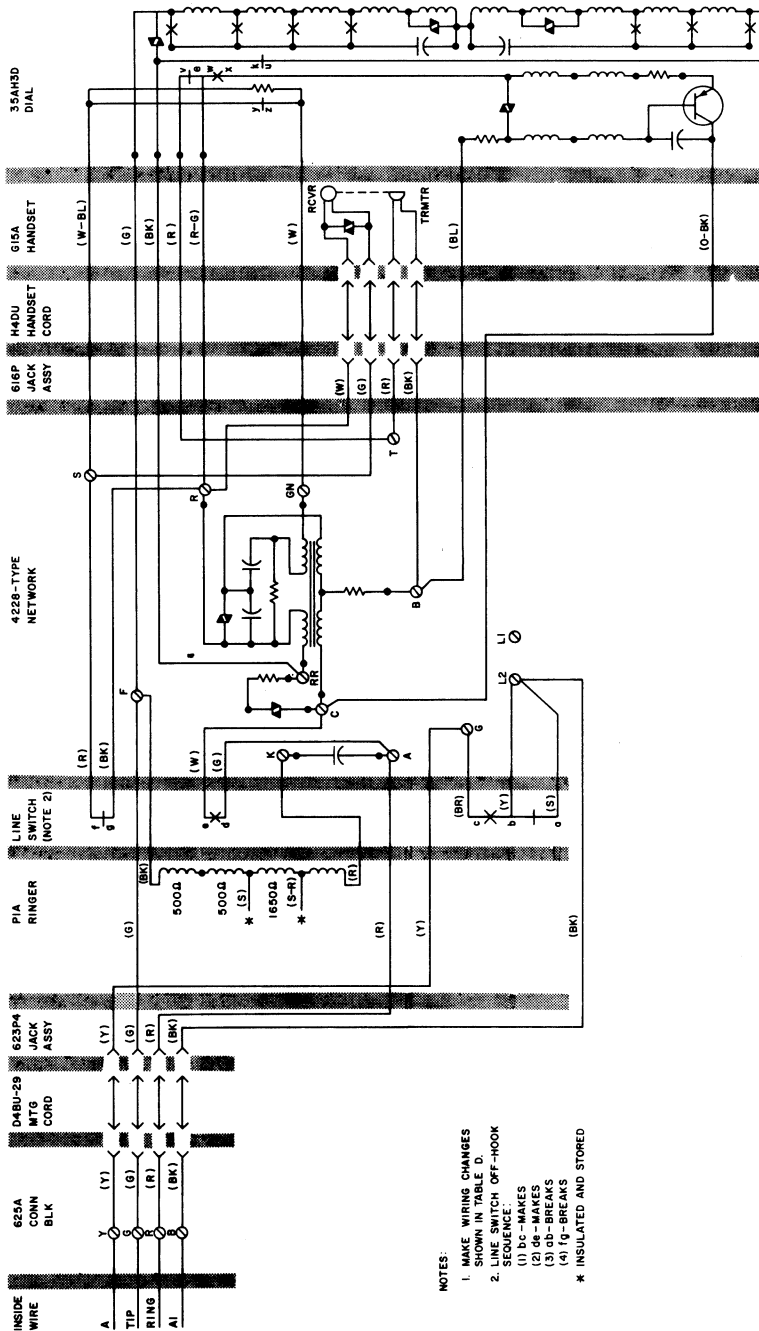


Fig. 6—2881B109 Telephone Set Wired for 1A1 or 1A2 KTS (Note 1)

- NOTES:
1. MAKE WIRING CHANGES SHOWN IN TABLE D.
  2. LINE SWITCH OFF-HOOK SEQUENCE:
    - (1) bc—MAKES
    - (2) de—BREAKS
    - (3) cd—BREAKS
    - (4) fg—BREAKS
- \* INSULATED AND STORED