

**881A105, 881A106, 881A107, 881A108, 881B105, 881B106,
881B107, 881C105, 881C107, AND 881C108 TELEPHONE SETS
IDENTIFICATION, INSTALLATION, AND CONNECTIONS**

1. GENERAL

1.01 This section provides information for the DESIGN LINE* telephone sets (*Candlestick***) (Fig. 1).

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

1.02 This section is reissued to:

- Add information on the 881C105, 881C107, and 881C108 telephone sets
- Add Fig. 10
- Change Tables A and B
- Show 881B105, 881B106, 881B107, and 881B108 telephone sets MD.

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.

2. IDENTIFICATION

2.01 The 881A105 (MD), 881A106 (MD), 881A107 (MD), and 881A108 (MD) are the (rotary dial) equipped-nonmodular telephone sets. The 881B105 (MD), 881B106 (MD), 881B107 (MD), and 881B108 (MD) telephone sets are the (rotary dial) equipped modular telephone sets. ♦The 881C105C, 881C107,

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Fig. 1—881A105 (MD), 881B105 (MD), or 881C105 DESIGN LINE Telephone

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and 881C108 are the same as the 881B105, 881B107, and 881B108 except that a new relay line switch has been added (Fig. 10) and a 616P4 handset jack replaces the 616P2 handset jack in the telephone set base. The customer buys the housing from the telephone company and the telephone company retains ownership of the transmission and signaling components.

Ordering Guide (Refer to Table A)

2.02 Basic Telephone Set Ordering Information:

Example: Set, Telephone 881C105† is a black set equipped with a rotary dial (Fig. 1).

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. The set has the P1A ringer bias spring in the low bias position. To connect the telephone set, plug the mounting cord into the set base and a 625-type connecting block.

Note: If there is an existing 548A or equivalent jack use the 225A adapter or 1A converter.

3.02 The internal connections for the 881A105, 881A106, 881A107, 881A108, and 881B105, 881B106, 881B107, 881B108 telephone sets, for nonkey system use, are shown in Fig. 5 and 7.

3.03 The internal connections for 881C105, 881C107, or 881C108 telephone sets for nonkey and key systems are shown in Fig. 9.

3.04 Connections for 1A KTS do not require any telephone set modifications and are wired same as Fig. 5, 7, and 9.

3.05 Connections for A- and B-type telephone sets for use with 1A1 or 1A2 KTS are shown

in Fig. 6 and 8. Table C includes necessary wiring modification required for 1A1 or 1A2 key telephone system use.

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

3.07 Line and Ringer Connections.

- (1) For single line and two-party service, refer to Table B.
- (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 telephone company-owned components that can be easily removed.

- (1) Remove four base mounting screws from the bottom of the telephone set and remove bottom base (Fig. 2).
 - (2) Remove one dial frame and two line switch mounting screws from the base and remove dial frame and line switch (Fig. 3).
 - (3) Remove one network, two ringer and three dial mounting screws from the base and remove network, ringer and dial (Fig. 4).
 - (4) Unscrew transmitter and receiver caps and remove T1 transmitter and U3 receiver units.
 - (5) Replace dial frame and base using four screws removed in Step (1), see Fig. 2.
- 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.

†Refer to Table A for codes and component parts.

◆ TABLE A ◆

SET CODES AND COMPONENT PARTS

TEL SET CODE	DIAL	TRMTR UNIT	RCVR UNIT	MTG CORD	HANDSET CORD	DESCRIPTION
881C105	6UA-120 or 8YA-120	T1	U3	D4BU-29	H4DU-03	Rotary Dial Black Candlestick
881C107					H4DU-58	Rotary Dial White Candlestick
881C108					H4DU-58	Rotary Dial Stars and Stripes Candlestick
881B105*	6U-120 or 6UA-120	T1	U3	D4BU-29	H4DU-03	Rotary Dial Black Candlestick
881B106*					H4DU-53	Rotary Dial Red Candlestick
881B107*					H4DU-58	Rotary Dial White Candlestick
881B108*					H4DU-58	Rotary Dial Stars and Stripes Candlestick
881A105*	6U-120	T1	U3	D4BU-29	H4CJ-03	Rotary Dial Black Candlestick
881A106*					H4CJ-53	Rotary Dial Red Candlestick
881A107*					H4CJ-58	Rotary Dial White Candlestick
881A108*					H4CJ-58	Rotary Dial Stars and Stripes Candlestick

* MD

◆ TABLE B ◆

LINE AND RINGER CONNECTIONS †

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 881A and B Type	Y	A	A	A	L2	L2
	W	F	F	F	B	B
Line Switch 881C-Type	W	F	F	F	B	B
	BL	C	C	C	*	*
	BL-W	A	A	A	*	*
	BR	L2	L2	L2	C	C
	S	L2	L2	L2	A	A

* Insulated and stored.

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

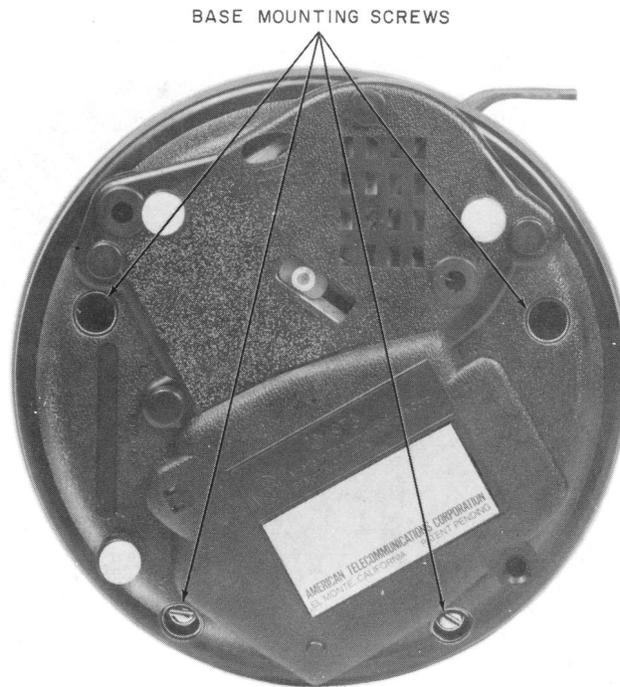


Fig. 2—881A105 (MD), 881A106 (MD), 881A107 (MD), or 881A108 (MD) Telephone Set, Bottom View

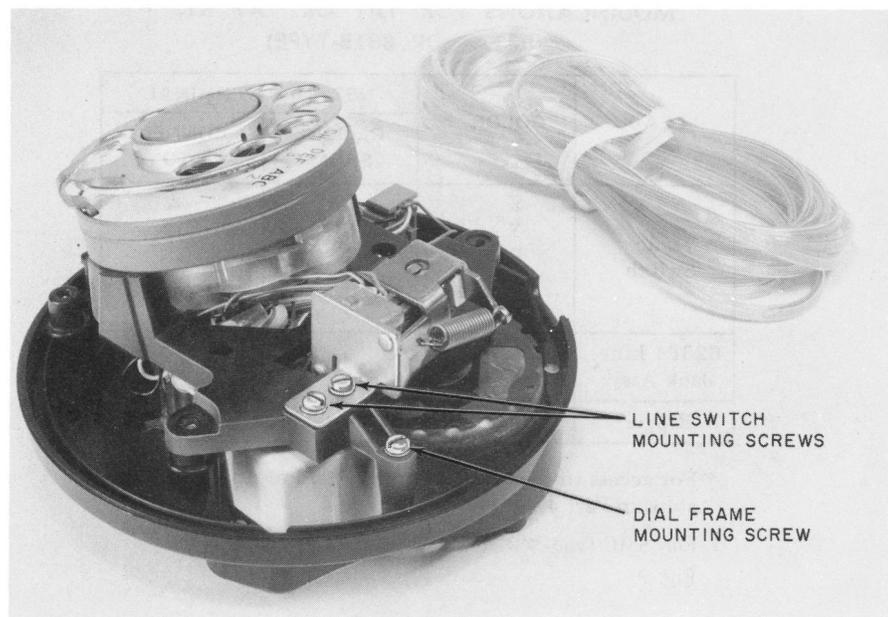


Fig. 3—Removing Line Switch and Dial Mounting Frame

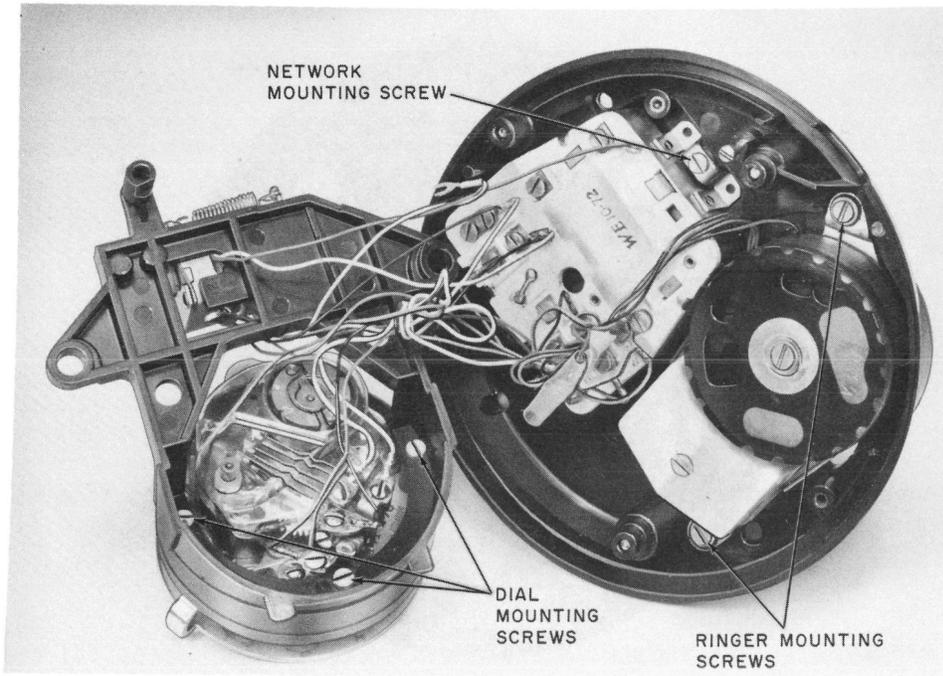


Fig. 4—Removing Dial, Network, and Ringer

TABLE C
MODIFICATIONS FOR 1A1 OR 1A2 KTS*†
(881A- OR 881B-TYPE)

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.

† For 881C-type sets for 1A1 or 1A2 wiring, refer to Fig. 9.

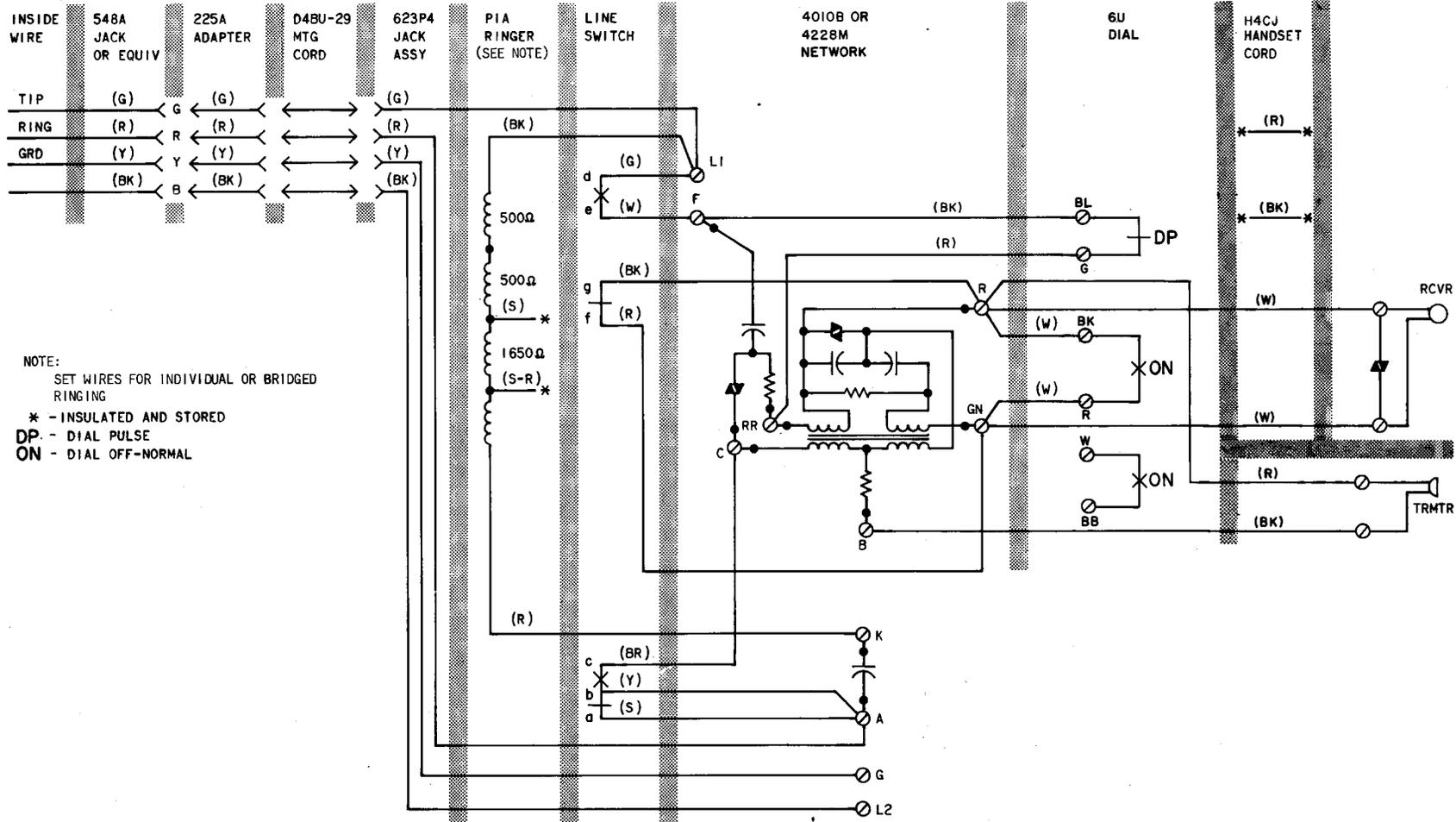


Fig. 5—881A105 (MD), 881A106 (MD), 881A107 (MD), or 881A108 (MD) Telephone Set, Connections

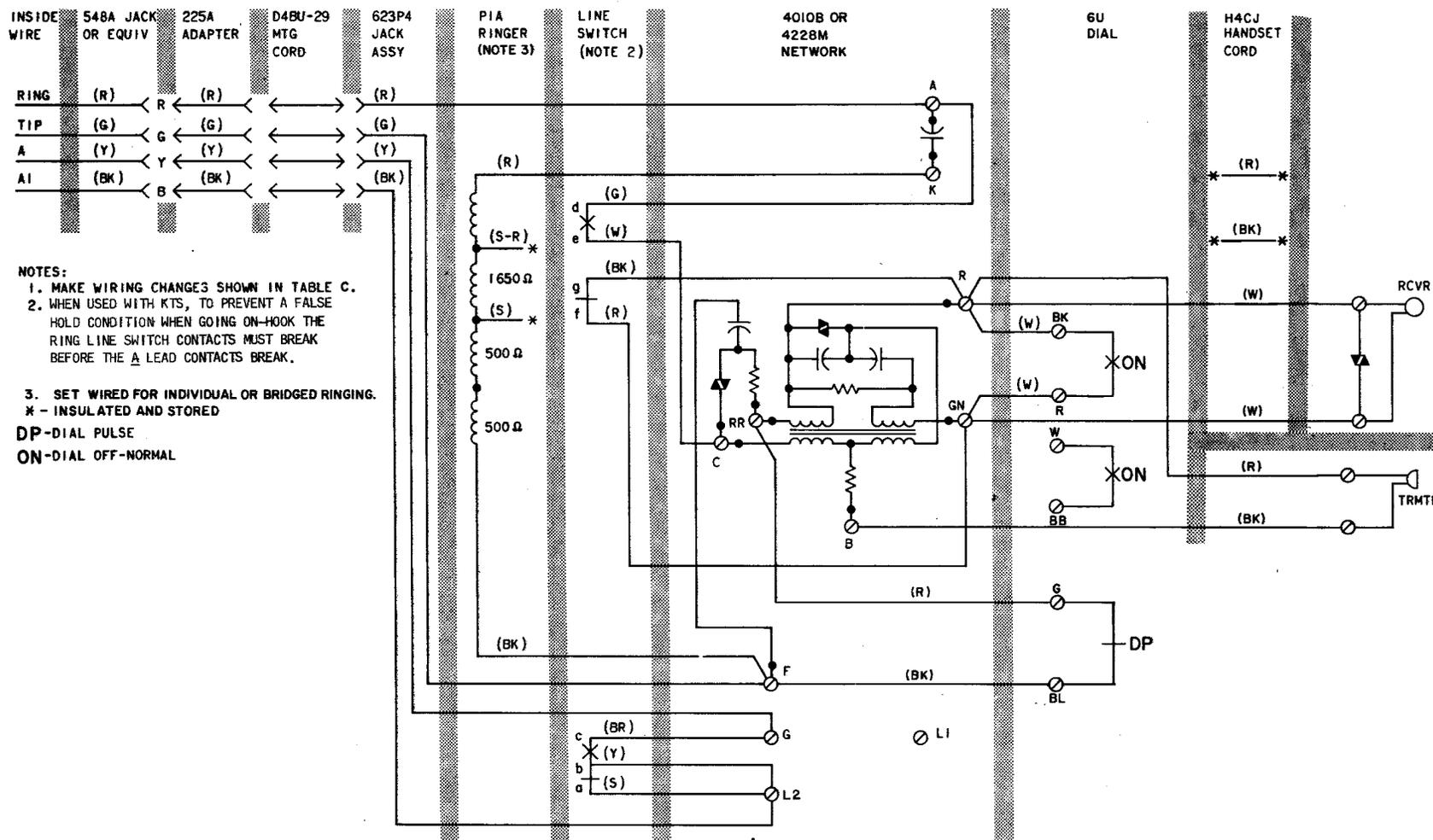


Fig. 6—881A105 (MD), 881A106 (MD), 881A107 (MD), or 881A108 (MD) Telephone Set Wired for 1A1 or 1A2 KTS

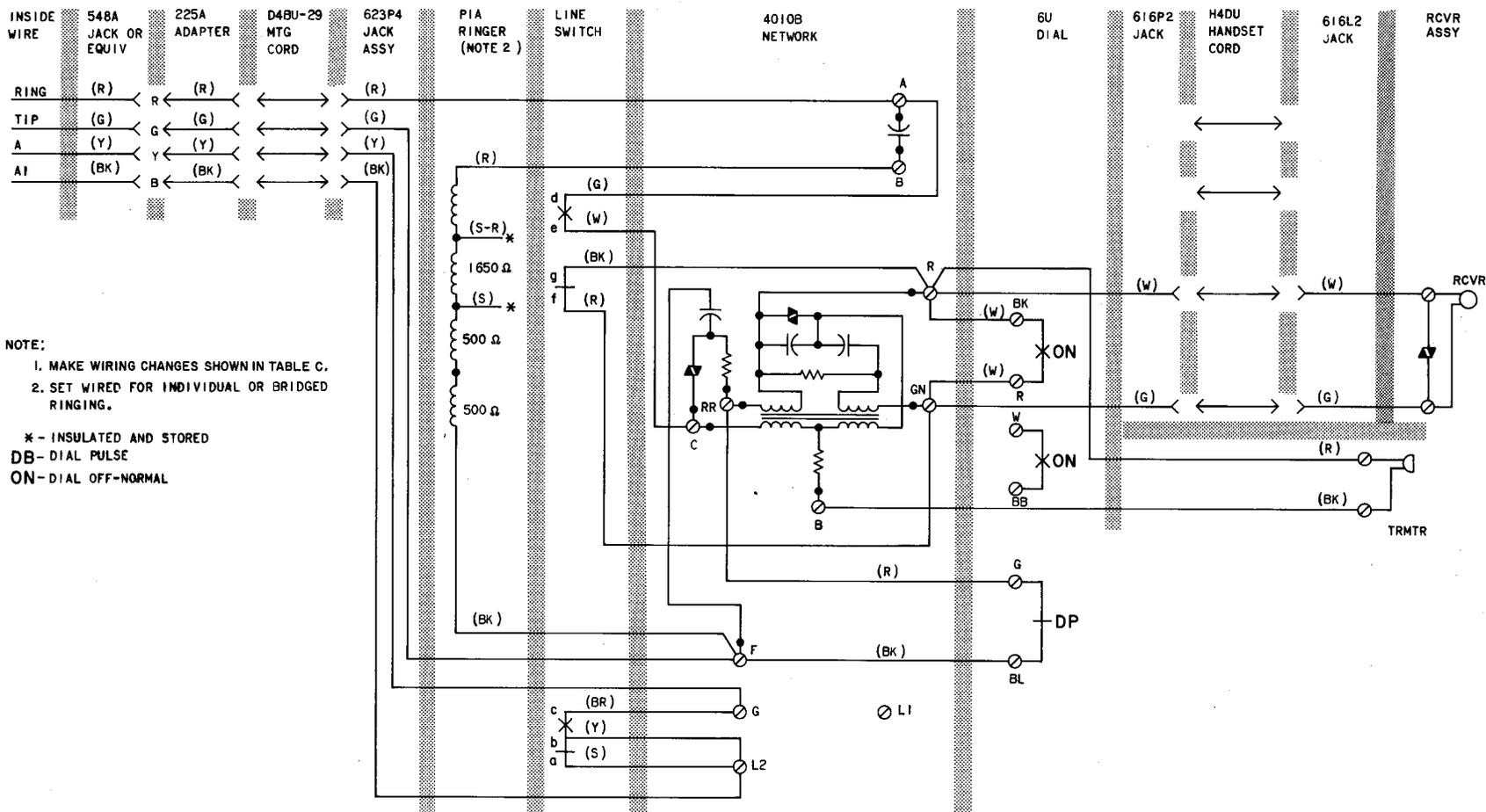
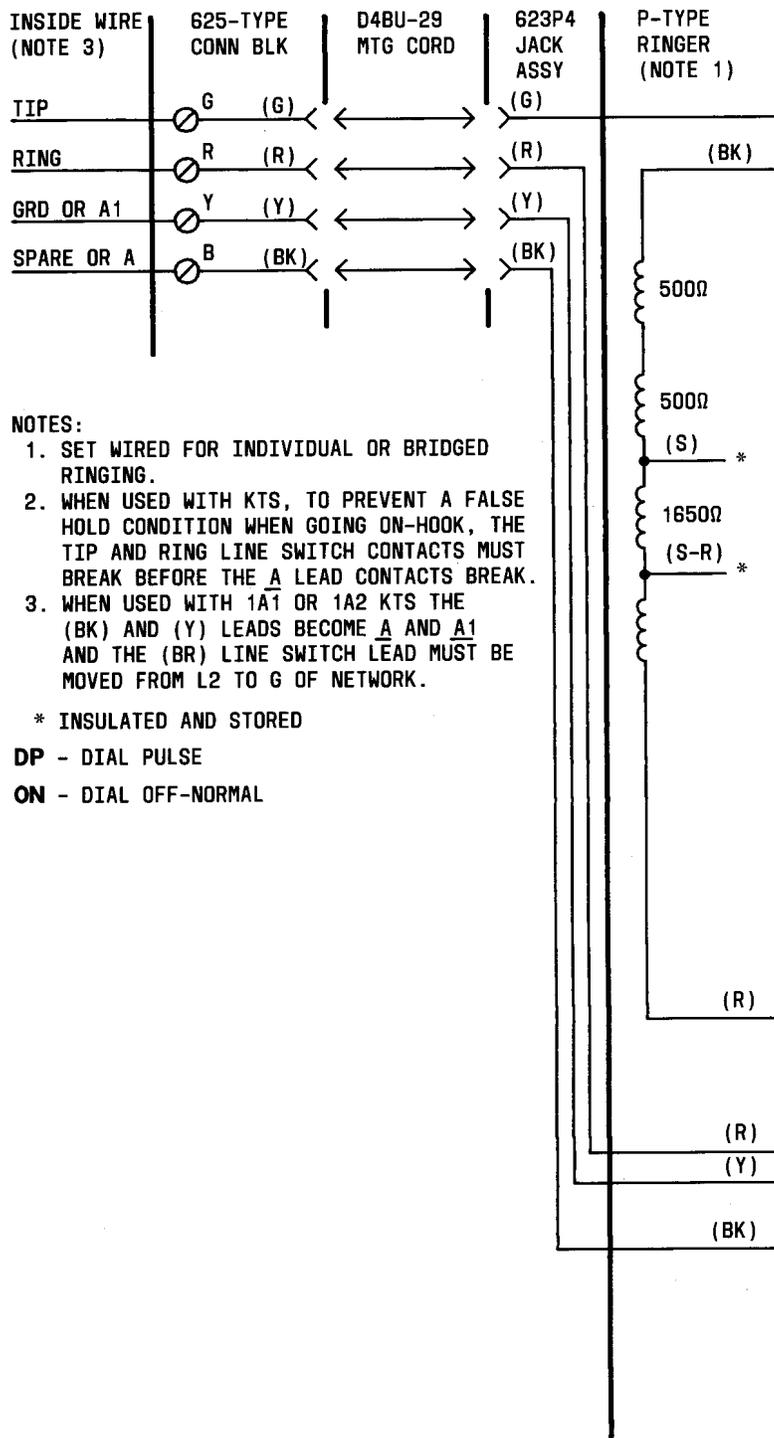


Fig. 8—881B105 (MD), 881B106 (MD), 881B107 (MD), or 881B108 (MD) Telephone Set Wired for 1A1 or 1A2 KTS



NOTES:

1. SET WIRED FOR INDIVIDUAL OR BRIDGED RINGING.
2. WHEN USED WITH KTS, TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON-HOOK, THE TIP AND RING LINE SWITCH CONTACTS MUST BREAK BEFORE THE A LEAD CONTACTS BREAK.
3. WHEN USED WITH 1A1 OR 1A2 KTS THE (BK) AND (Y) LEADS BECOME A AND A1 AND THE (BR) LINE SWITCH LEAD MUST BE MOVED FROM L2 TO G OF NETWORK.

* INSULATED AND STORED

DP - DIAL PULSE

ON - DIAL OFF-NORMAL

Fig. 9—881C105, 881C107, or 881C108 Telephone Set, Connections (Sheet 1 of 2)

