

TELEPHONE SETS

921A, 921B, 2921A, AND 2921B

1. GENERAL

1.01 This section provides identification, installation, and connection information for the 921A (MD), (Fig. 1), 921B and 2921A (MD), 2921B (Fig. 2) DESIGN LINE* telephone (*Accent*) sets.



Fig. 1—921A DESIGN LINE Telephone Set



Fig. 2—2921B DESIGN LINE Telephone Set

*Trademark AT&TCo.

1.02 This section is reissued to:

- Add information on 921B and 2921B (modular) telephone sets
- Show 921A and 2921A telephone sets rated MD.

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 921B and 2921B telephone sets are like the 921A and 2921A sets, respectively, except the B codes are approximately 1-inch lower in height to give a low profile appearance and the internal components have been rearranged on the removable base. No wiring or connection changes were made in the B codes.

1.04 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 921A or B (rotary dial) and 2921A or B (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. 3, 4, and 5).

NOTICE

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

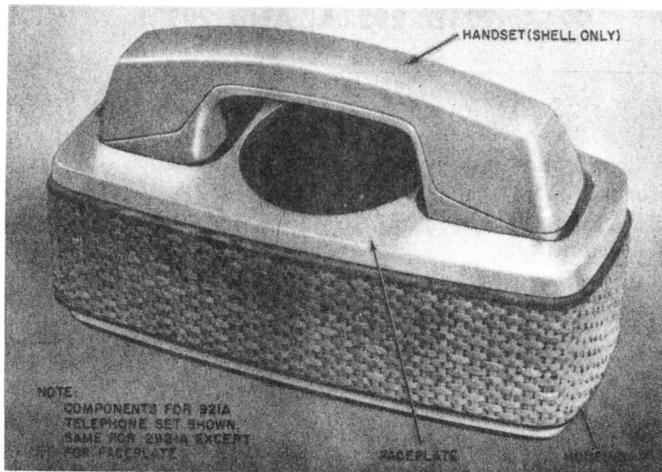


Fig. 3—Customer-Owned Components

Ordering Guide (Refer to Table A)

2.02 Basic Telephone Set Ordering Information:

Example: Set, Telephone, 921B21-50† is an ivory set with brass trim and equipped with a rotary dial, walnut veneer applique, and a retractile handset cord.

† 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 Components (order separately):

- D-180229 Kit of Parts [Polarity Guard for 2921A manufactured prior to February 1975 (Table G) Fig. 8]
- 819041708 (P-90D170) Guard Assembly (Polarity Guard for 2921A sets manufactured after January 1975 and for the 2921B sets) (Table H).

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 connecting block. If there is an existing 548A jack or equivalent, use the 225A adapter furnished with each set.

3.02 The internal connections for the 921A or B and 2921A or B 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 921A or B telephone set and Fig. 12 for 2921A or B telephone set. Table C includes necessary wiring modifications required for 1A1 or 1A2 key telephone system use.

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

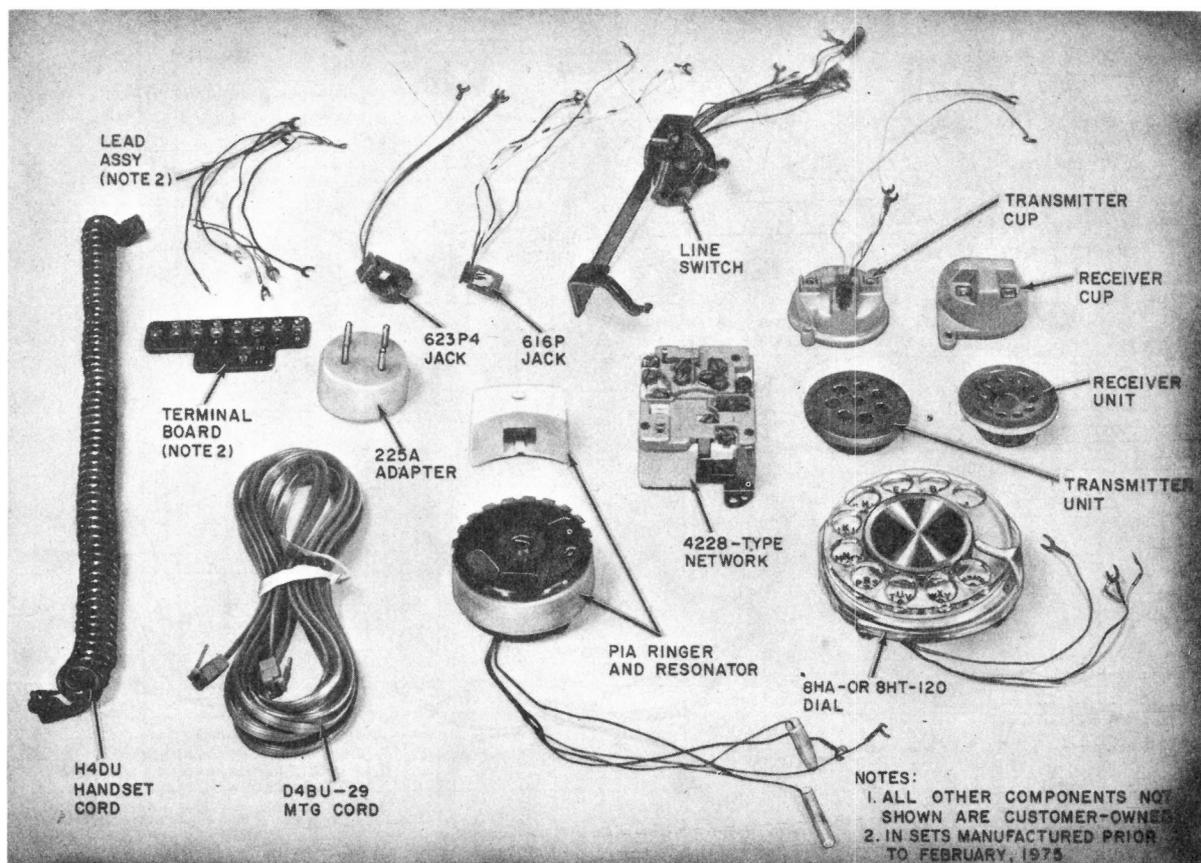


Fig. 4—Telephone Company-Owned Components (Set Equipped with Rotary Dial)

3.06 To install polarity guard (D-180229 Kit of Parts) in a 2921A telephone set manufactured prior to February 1975 when instructed by local administrative practices or procedures for end-to-end signaling purposes when battery and ground reversals are encountered, proceed as follows:

- (1) Remove housing, refer to Fig. 6.
- (2) Loosen dial mounting screws.
- (3) Remove dial.
- (4) Make connections as shown in Table D.
- (5) The 819040544 (P-90D054) Guard Assembly (Fig. 8) mounts on the right hand side of the dial mounting bracket with the screw contained in the D-180229 Kit of Parts. The bent tabs

on the guard assembly bracket should fit over the back edge of the portion of the dial mounting bracket where the telephone set terminal board mounts. In this location the guard assembly is suspended over the ringer gong with the component facing up.

Note: The retainer and terminal board in the D-180229 Kit of Parts are not used.

- (6) Reinstall dial and replace the housing.

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.

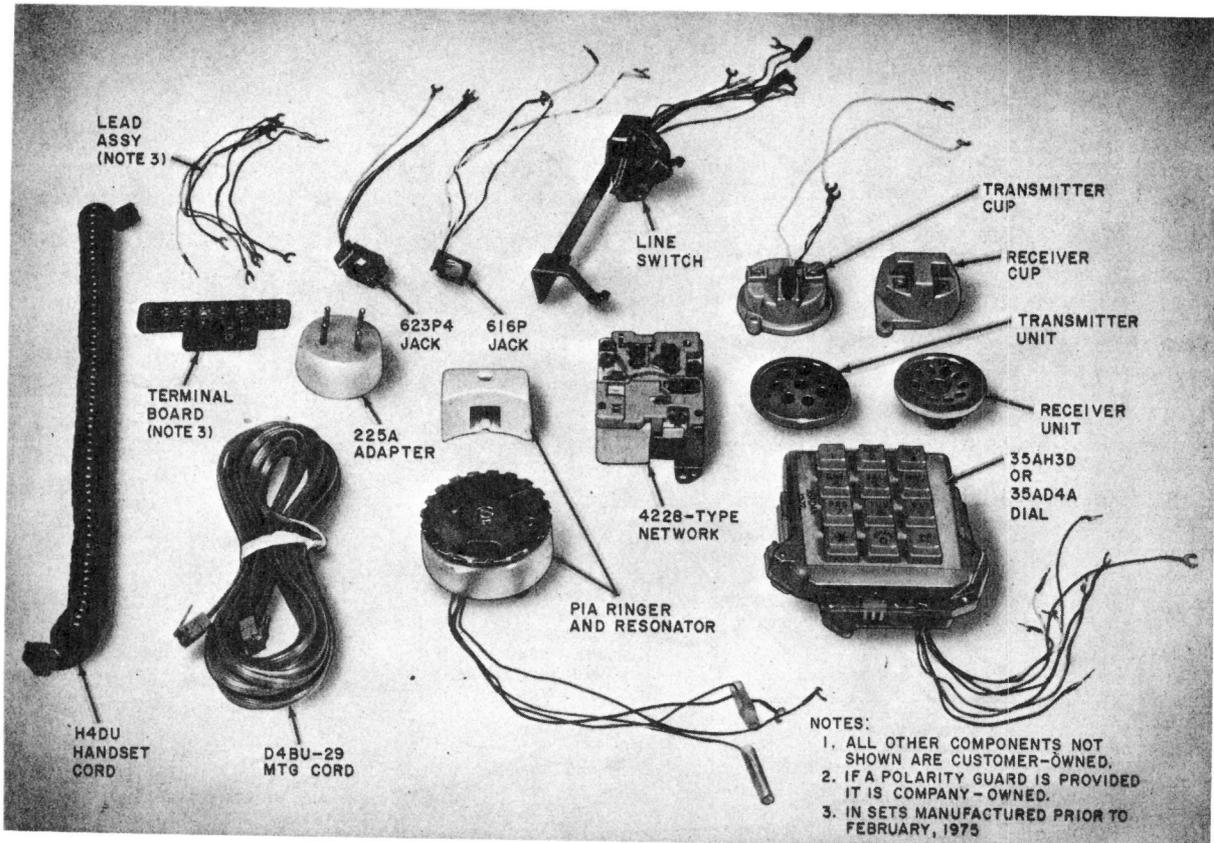


Fig. 5—Telephone Company-Owned Components (Set Equipped with TOUCH-TONE Dial)

4. REMOVAL OF TELEPHONE COMPANY-OWNED COMPONENTS

4.01 When it is desired to discontinue telephone service of the 921A, B or 2921A, B DESIGN LINE telephone set, proceed as follows:

Note: Remove the telephone company-owned components that can be easily removed. Refer to Fig. 4 and 5 for identification of company-owned components.

- (1) Remove handset and mounting cords from the telephone set.
- (2) Remove the four screws on the bottom of the plastic base and withdraw the base. Refer to Fig. 6.
- (3) Remove the four screws on the bottom of the telephone set base and withdraw the

base from the faceplate and attached brackets (Fig. 7).



The two mounting brackets attached to the faceplate are not to be removed.

- (4) After removing telephone company-owned components, reassemble housing base to the two brackets mounted on the faceplate.

4.02 Follow local procedures for returning telephone company-owned components.

4.03 When it is necessary to return a set to Western Electric for repairs, it should be packed using the D-180600 Kit of Parts which contains packing material and instructions.

◆ TABLE A ◆

ORDERING GUIDE

TEL SET CODE	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL	HANDSET CORD	MTG CORD
921B20-50	Ivory	Customer Option	Brass	8HA-120	H4DU-50	D4BU-29
2921B20-50				35AH3D		
921B20-58	White			8HA-120	H4DU-58	
2921B20-58				35AH3D		
921B20-93	Yellow			8HA-120	H4DU-93	
2921B20-93				35AH3D		
921B20-106	Lime Green			8HA-120	H4DU-106	
2921B20-106				35AH3D		
921B20-115	Blue			8HA-119	H4DU-115	
2921B20-115				35AH3D		
921B21-50	Ivory			8HA-120	H4DU-50	
2921B21-50				35AH3D		
921B21-58	White	8HA-120	H4DU-58			
2921B21-58		35AH3D				
921B21-93	Yellow	8HA-120	H4DU-93			
2921B21-93		35AH3D				
921B21-106	Lime Green	8HA-120	H4DU-106			
2921B21-106		35AH3D				
921B22-50	Ivory	Wicker	8HA-120	H4DU-50		
2921B22-50			35AH3D			
921B22-58	White		8HA-120	H4DU-58		
2921B22-58			35AH3D			
921B22-93	Yellow		8HA-120	H4DU-93		
2921B22-93			35AH3D			
921B22-106	Lime Green		8HA-120	H4DU-106		
2921B22-106			35AH3D			
921B22-115	Blue		Delft	8HA-119	H4DU-115	
2921B22-115				35AH3D		

◆TABLE A (Cont)◆

ORDERING GUIDE

TEL SET CODE*	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL	HANDSET CORD	MTG CORD
921A20-50	Ivory	Customer Option	Brass	8HT-120	H4DU-50	D4BU-29
2921A20-50				35AD4A		
921A20-58	White			8HT-180	H4DU-58	
2921A20-58				35AD4A		
921A20-93	Yellow			8HT-120	H4DU-93	
2921A20-93				35AD4A		
921A20-106	Lime Green			8HT-120	H4DU-106	
2921A20-106				35AD4A		
921A21-50	Ivory			8HT-120	H4DU-50	
2921A21-50				35AD4A		
921A21-58	White			8HT-120	H4DU-58	
2921A21-58				35AD3D		
921A21-93	Yellow	8HT-120		H4DU-93		
2921A21-93		35AD4A				
921A21-106	Lime Green	8HT-120		H4DU-106		
2921A21-106		35AD4A				
921A22-50	Ivory	8HT-120		H4DU-50		
2921A22-50		35AD4A				
921A22-58	White	8HT-120		H4DU-58		
2921A22-58		35AD4A				
921A22-93	Yellow	8HT-120		H4DU-93		
2921A22-93		35AD4A				
921A22-106	Lime Green	8HT-120		H4DU-106		
2921A22-106		35AD4A				
		Wicker				

*All A code telephone sets are rated MD.

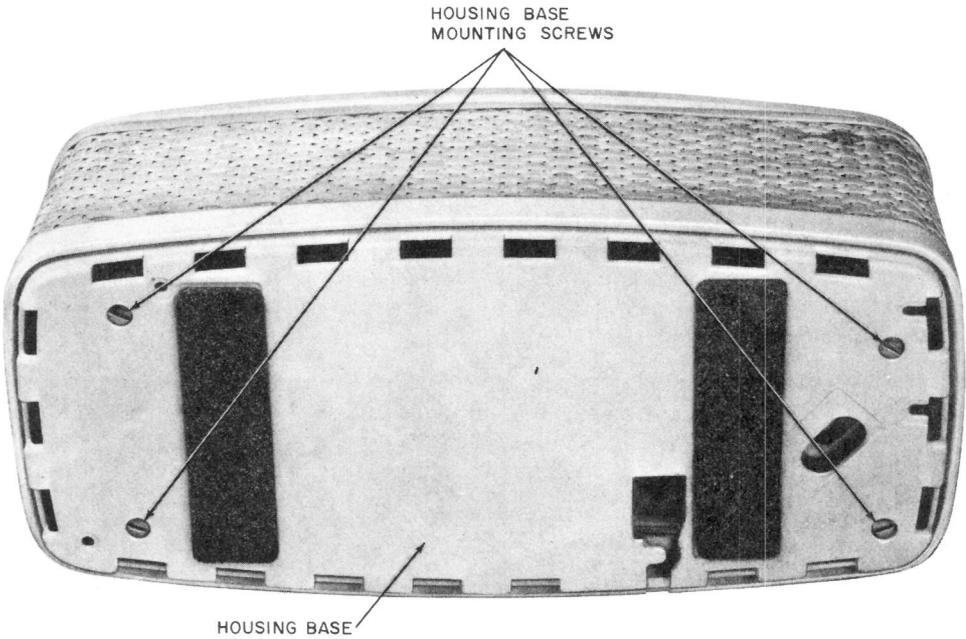


Fig. 6—Removing Plastic Housing Base (921A, 921B, 2921A, 2921B Telephone Set)

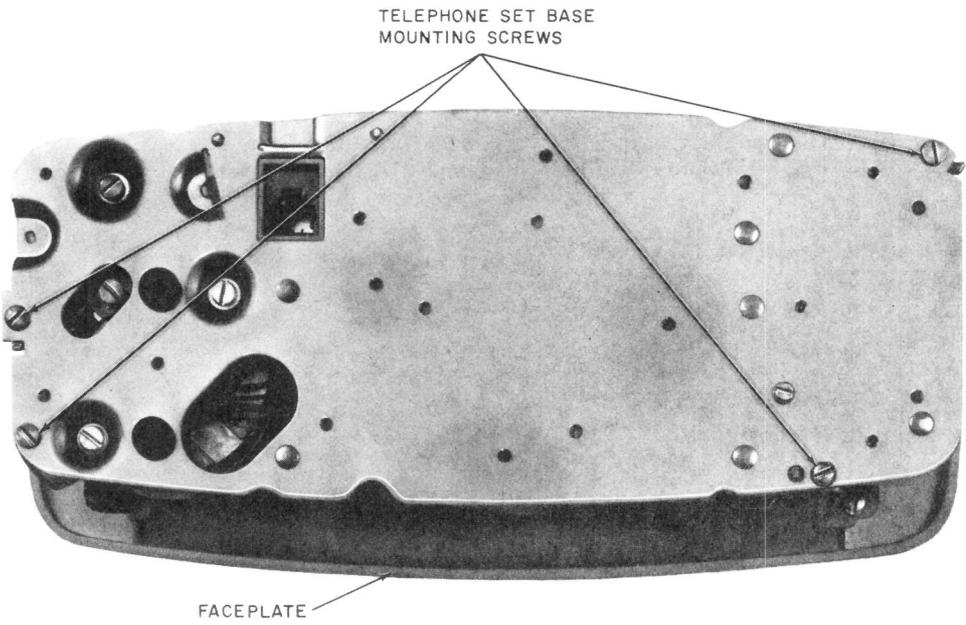
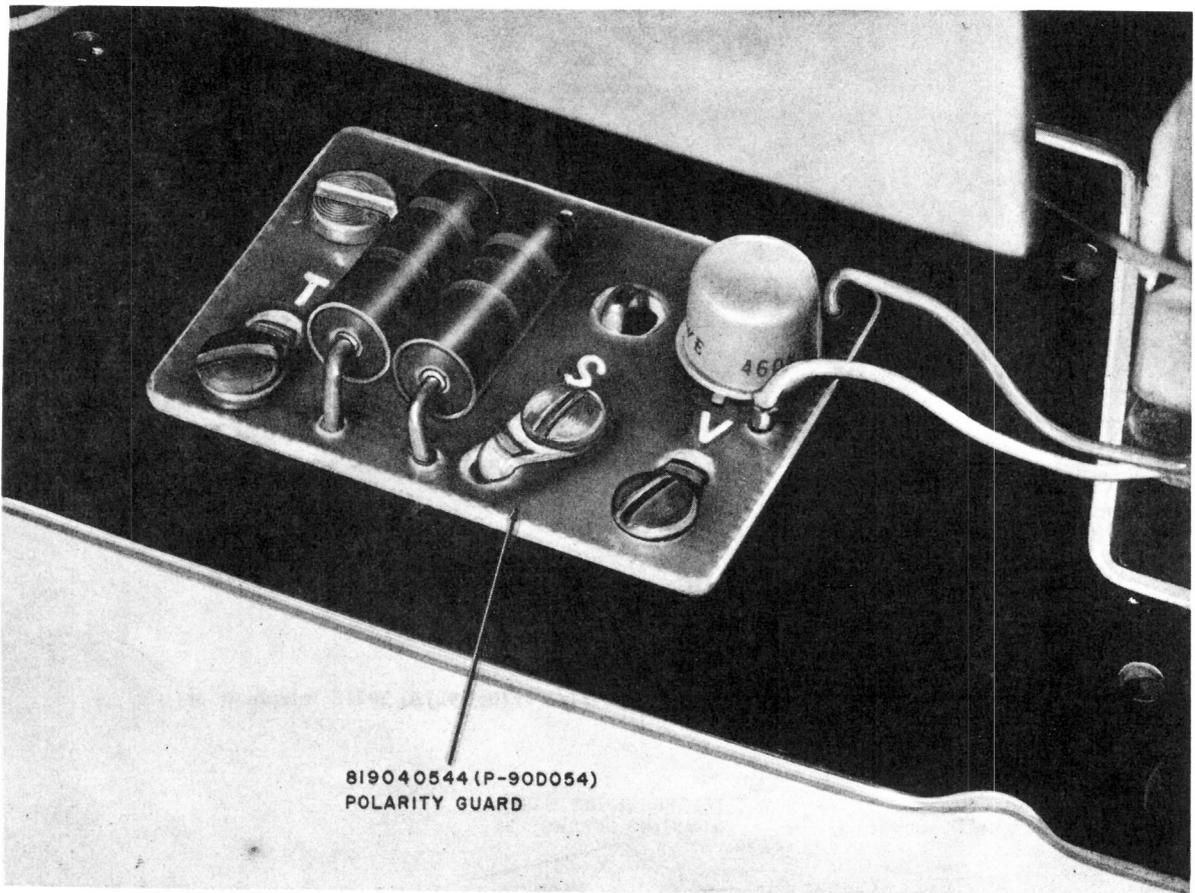


Fig. 7—Removing Telephone Set Base From Faceplate



819040544 (P-90D054)
POLARITY GUARD

Fig. 8—Polarity Guard Mounted on 2921A Telephone Set

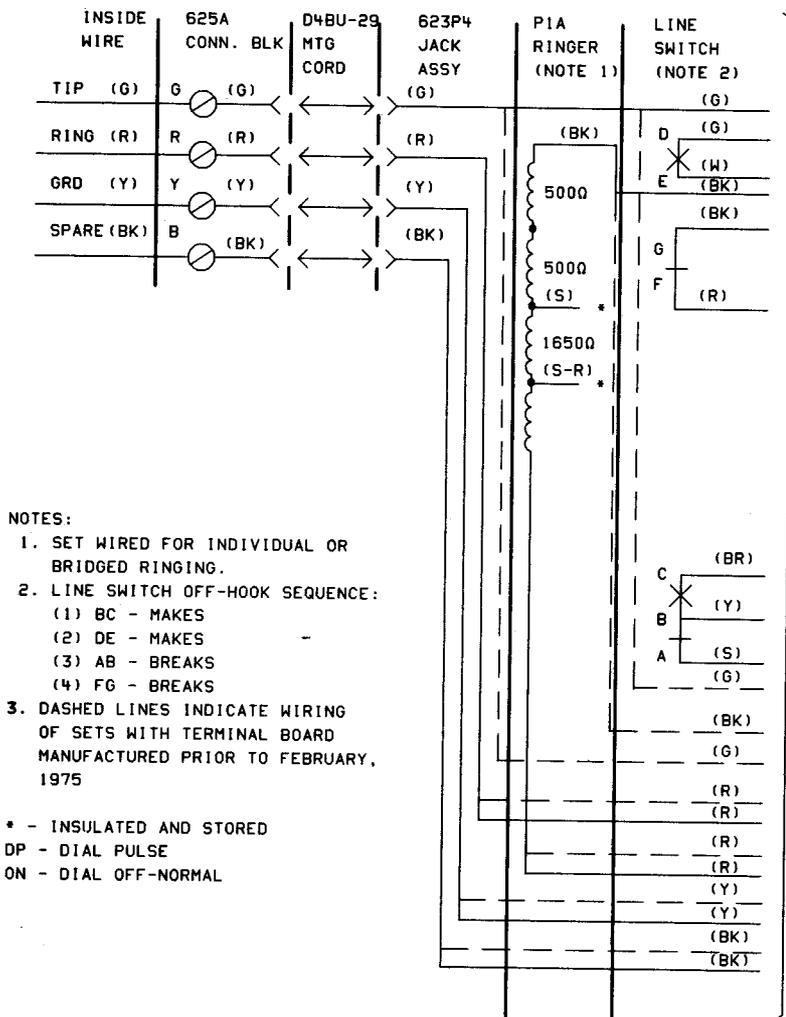
TABLE B
LINE AND RINGER CONNECTIONS
(921A OR 2921A TELEPHONE SET MANUFACTURED PRIOR TO FEBRUARY 1975)†

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	1	1	2	6	6
	G	2	2	1	4	4
	Y	3	3	3	3	3
	BK	4	4	4	*	*
Ringer	R	5	5	5	5	5
	S-R	*	*	*	*	2
	S	*	*	*	2	*
	BK	2	3	3	3	3
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.

‡ 2921A telephone set only.



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
3. DASHED LINES INDICATE WIRING OF SETS WITH TERMINAL BOARD MANUFACTURED PRIOR TO FEBRUARY, 1975

- * - INSULATED AND STORED
- DP - DIAL PULSE
- ON - DIAL OFF-NORMAL

Fig. 9—921A or 921B Telephone Set, Connections (Non-KTS) (Sheet 1 of 2)

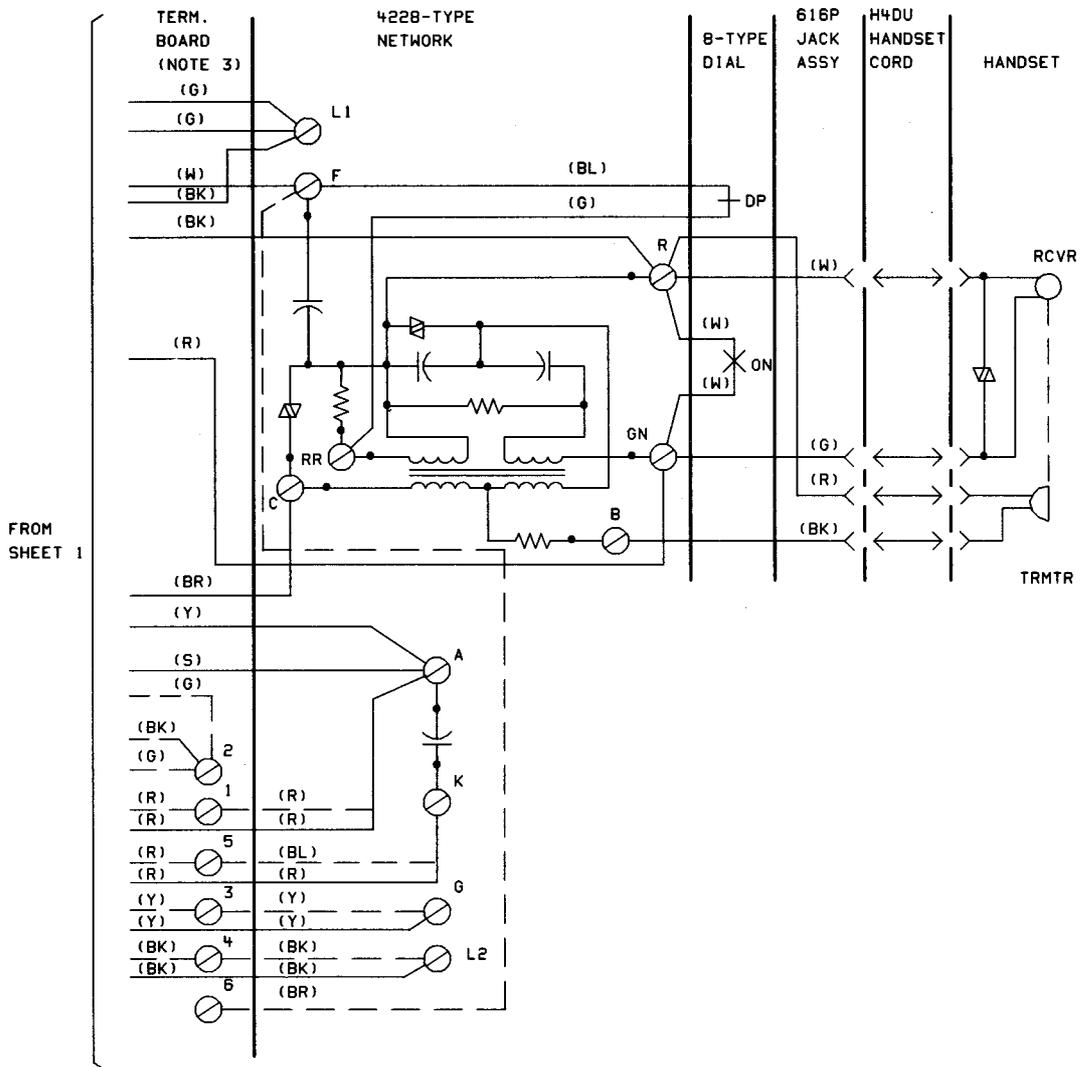


Fig. 9—921A or 921B Telephone Set, Connections (Non-KTS) (Sheet 2 of 2)

TABLE C
LINE AND RINGER CONNECTIONS
(921A OR 921B TELEPHONE SET MANUFACTURED AFTER JANUARY 1975)†

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

*Insulate and store.

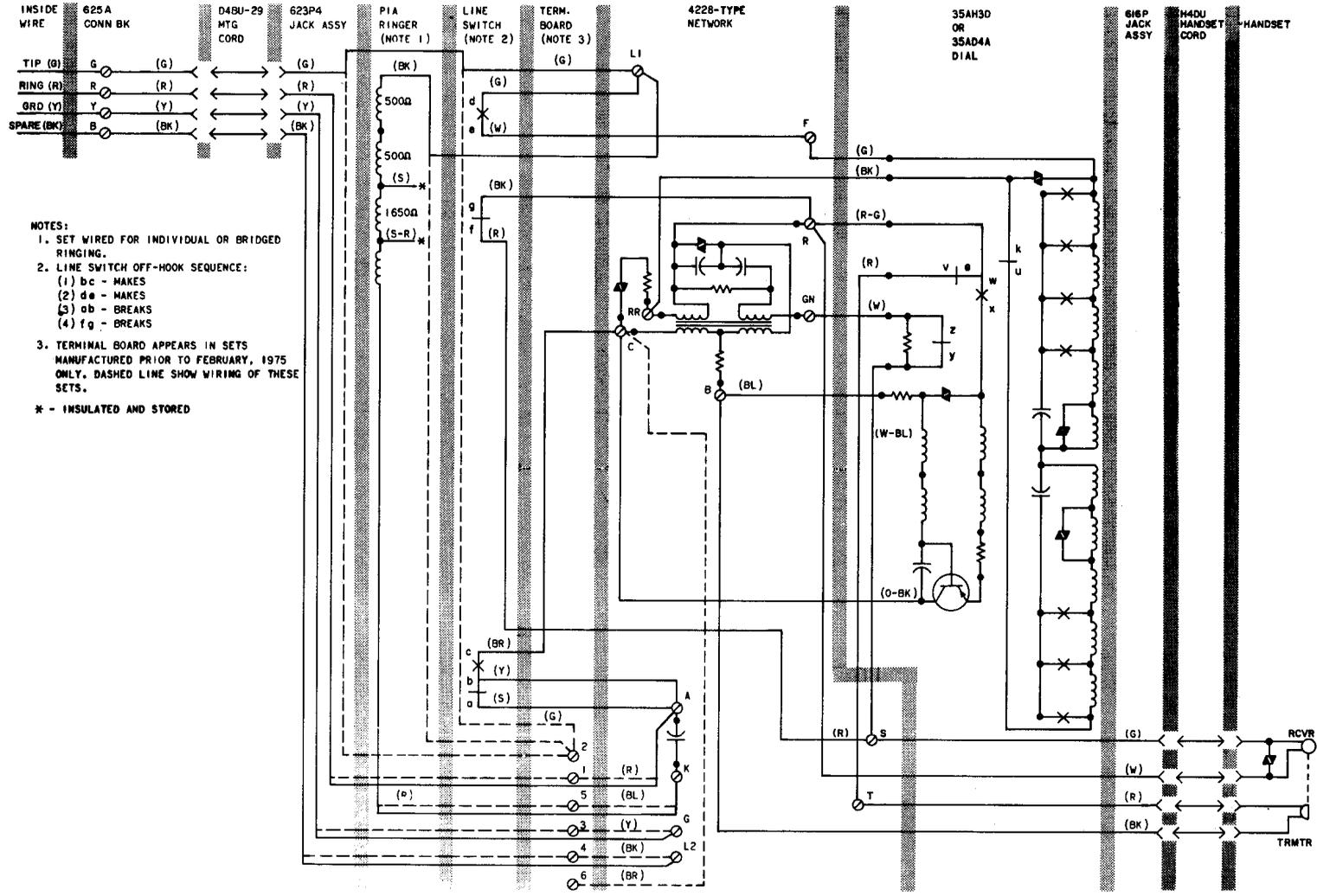
†For access to set wiring follow applicable steps in Part 4.

TABLE D
LINE AND RINGER CONNECTIONS
(2921A OR 2921B TELEPHONE SET MANUFACTURED AFTER JANUARY 1975)†

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	S	S
	Y	G	G	G	G	G
	BK	S	S	S	*	*
Ringer	R	K	K	K	K	K
	S-R	*	*	*	*	L1
	S	*	*	*	L1	*
	BK	L1	G	G	G	G
Line Switch	Y	A	A	A	S	S
	W	F	F	C	B	B
	BR	C	C	F	F	F

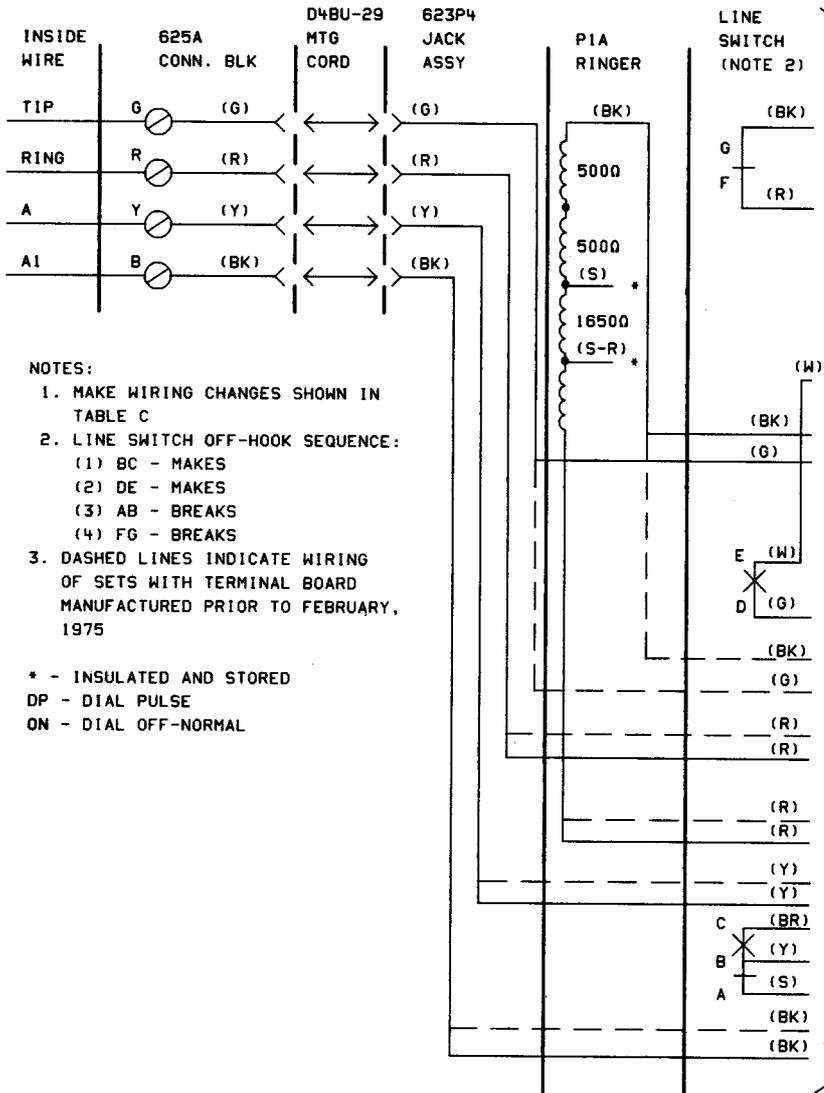
*Insulate and store.

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



- 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
 3. TERMINAL BOARD APPEARS IN SETS MANUFACTURED PRIOR TO FEBRUARY, 1975 ONLY. DASHED LINE SHOW WIRING OF THESE SETS.
- * - INSULATED AND STORED

Fig. 10—2921A or 2921B Telephone Set Connections (Non-KTS)



NOTES:

1. MAKE WIRING CHANGES SHOWN IN TABLE C
2. LINE SWITCH OFF-HOOK SEQUENCE:
 - (1) BC - MAKES
 - (2) DE - MAKES
 - (3) AB - BREAKS
 - (4) FG - BREAKS
3. DASHED LINES INDICATE WIRING OF SETS WITH TERMINAL BOARD MANUFACTURED PRIOR TO FEBRUARY, 1975

* - INSULATED AND STORED
 DP - DIAL PULSE
 ON - DIAL OFF-NORMAL

Fig. 11—921A or 921B Telephone Set Wired for 1A1 or 1A2 KTS (Sheet 1 of 2)

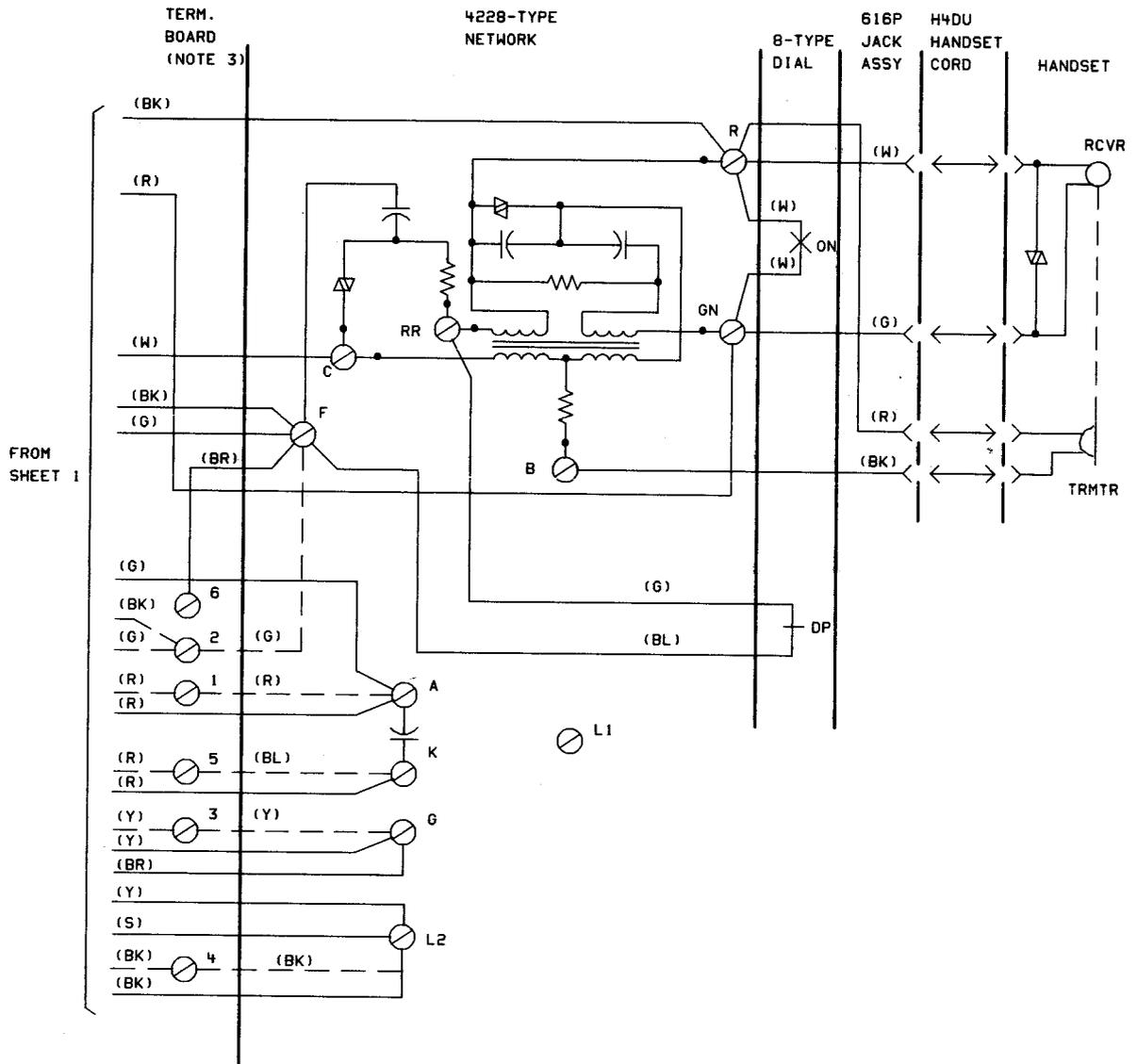
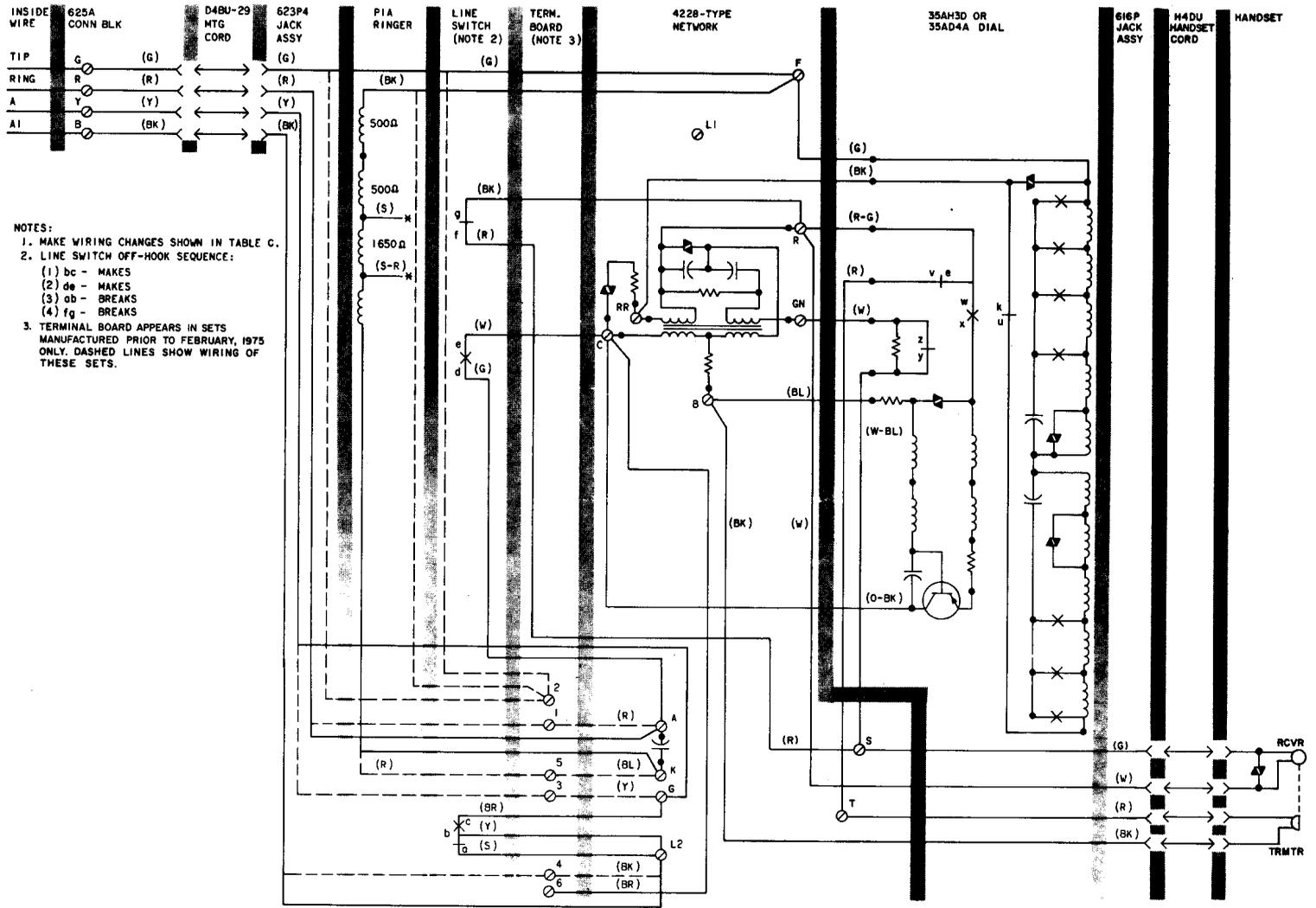


Fig. 11—921A or 921B Telephone Sew Wired for 1A1 or 1A2 KTS (Sheet 2 of 2)



- NOTES:
1. MAKE WIRING CHANGES SHOWN IN TABLE C.
 2. LINE SWITCH OFF-HOOK SEQUENCE:
 - (1) bc - MAKES
 - (2) de - MAKES
 - (3) ab - BREAKS
 - (4) fg - BREAKS
 3. TERMINAL BOARD APPEARS IN SETS MANUFACTURED PRIOR TO FEBRUARY, 1975 ONLY. DASHED LINES SHOW WIRING OF THESE SETS.

Fig. 12—2921A or 2921B Telephone Set Wired for 1A1 or 1A2 KTS

TABLE E
MODIFICATIONS FOR 1A1 OR 1A2 KTS (921A OR
2921A TELEPHONE SET MANUFACTURED PRIOR TO
FEBRUARY 1975)*

LEAD	COLOR	TERMINAL BOARD	
		REMOVE FROM	CONNECT TO
Line Switch	S	A	L2
	Y	A	L2
	BR	C	G
	G	L1	A
	W	F	C
Strap	G	L1	F

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

TABLE F
MODIFICATION FOR 1A1 AND 1A2 KTS*
(ALL SETS MANUFACTURED AFTER
JANUARY, 1975)

LEAD	COLOR	NET. TERMINAL		
		REMOVE FROM	921-TYPE TEL SET	2921-TYPE TEL SET
			CONNECT TO	CONNECT TO
Line Switch	S	A	L2	S
	Y	A	L2	S
	BR	C	G	G
	G	L1	A	A
	W	F	C	C
623P4 Line Cord Jack Assy.	G	L1	F	F
Ringer	BK	L1	F	F

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

TABLE G
POLARITY GUARD CONNECTIONS FOR 2921A TELEPHONE SET
MANUFACTURED PRIOR TO FEBRUARY 1975*

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO	
		NET.	TEL SET TERM. BOARD	NET.	TEL SET TERM. BOARD
Dial	BK	RR			7
Line Switch	BR ①	C			8
	W ②				
623P4 Line Cord Jack Assy	R ③		6		
Polarity Guard	R				7
	BK				8
	G			RR	
	W			C	

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

- ① If wired for ring party or bridged service.
- ② If wired for tip party with no identification ground, 1A1 or 1A2 KTS.
- ③ If wired for tip party with identification ground.

Note: For use when specified by local instructions for end-to-end signaling installations.

TABLE H

**POLARITY GUARD CONNECTIONS FOR
2921A OR 2921B TELEPHONE SET
MANUFACTURED AFTER JANUARY, 1975***

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