

## REFERENCE

### 2702B, 2702BM, AND 2702BMG TELEPHONE SETS IDENTIFICATION, INSTALLATION, MAINTENANCE, AND CONNECTIONS

#### 1. GENERAL

**1.01** This section contains information for 2702B manufacture discontinued (MD), 2702BM, and 2702BMG PRINCESS® telephone sets.

**1.02** The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more important changes.

- Show D-180229 Kit of Parts MD
- Change Table E to specify type of ringer rather than type of set
- Add information on multiparty service.

#### 2. IDENTIFICATION

**2.01** The 2702B (MD) (Fig. 1), 2702BM (Fig. 2), and 2702BMG (Fig. 3) telephone sets are primarily intended for individual, 2-party flat rate or 2-party message rate service. ♦The 2702BM sets manufactured after June 1, 1982 are marked "1-PTY" on or near the date code. These sets cannot be used for multiparty service connections or wired for A-lead control. If service other than individual or bridged ringing is required, a 2702B2M or 2702B2MG base, housing, and handset must be ordered separately. ♦

**2.02** If conversion to four or eight party ringing is required, refer to Section 501-320-100.

**2.03** The 2702BM telephone set is the modular version of the 2702B (MD). The telephone set base and handset of the 2702BM are equipped with jacks to accept a plug-ended mounting cord and handset cord.

**2.04** The 2702BMG telephone set is the same as the 2702BM except a polarity guard is installed.

**2.05** The 2702B (MD) and early versions of the 2702BM and 2702BMG (Fig. 4) telephone sets



Fig. 1—2702B (MD) Telephone Set

are equipped with a factory-installed M-type ringer. Current version of the 2702BM and 2702BMG telephone sets (Fig. 5) are equipped with a factory-installed P-type ringer.

**2.06** The 2702BM and 2702BMG telephone sets are available in colors shown in Table A.

**2.07** These telephone sets have the following design features:

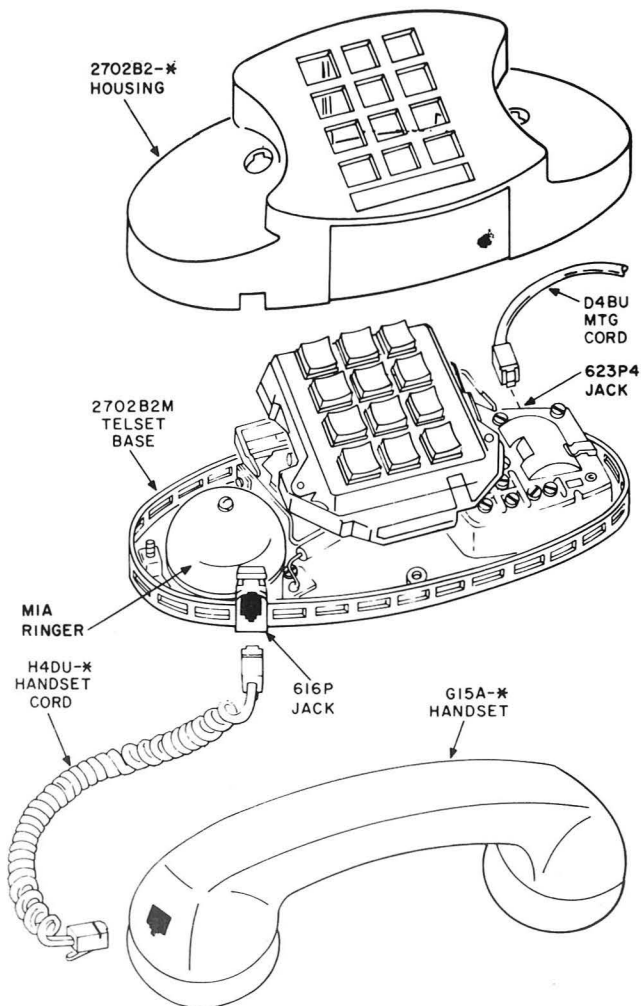
- Ringer volume/OFF-control
- Dial/night lamp.

#### A. Operating Features

**2.08** These telephone sets are equipped with a concealed lamp which illuminates the dial when the handset is removed. This lamp also serves as a night light under control of a slide switch located in the base at rear of set (Fig. 6).

#### NOTICE

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



\* ADD TWO DIGIT COLOR CODE

NOTE:  
CORDS SHOWN ARE NOT INCLUDED WITH TELEPHONE SET AND MUST BE ORDERED SEPARATELY.

Fig. 2—2702BM Telephone Set

## B. Optional Features

**2.09** Optional features include a 1-line pickup (without hold) when used with 1A1 or 1A2 key telephone system (KTS) and 3-type (MD) or 4A speakerphone. Refer to Part 5 for KTS connection information. Refer to Division 512 for speakerphone connection information.

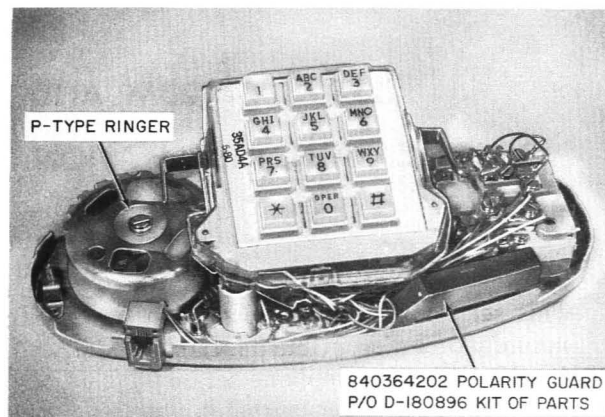


Fig. 3—2702BMG Telephone Set (Current Version), Housing and Handset Removed

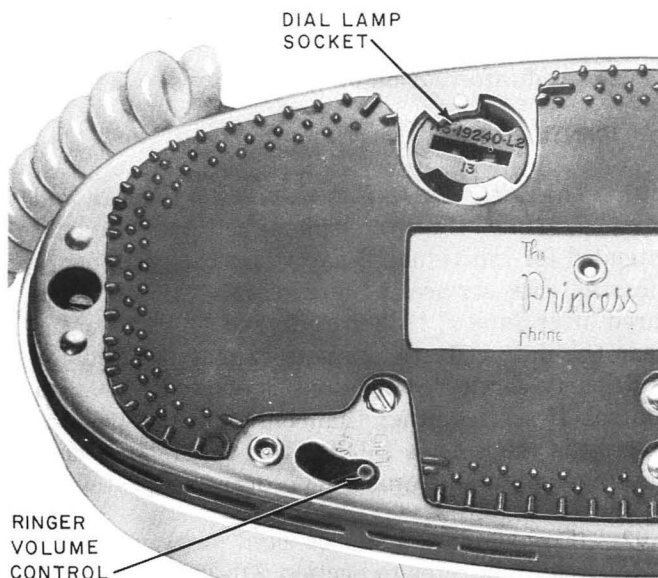
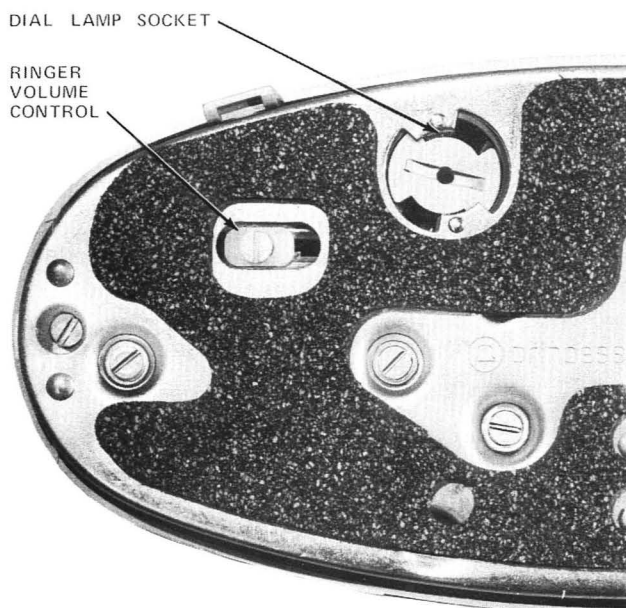


Fig. 4—2702B (MD), 2702BM (Early Version), and 2702BMG (Early Version) Telephone Sets, Partial Bottom View





**Fig. 5—2702BM (Current Version) and 2702BMG (Current Version) Telephone Set, Partial Bottom View**

### C. Ordering Guide

**2.10** Replaceable components [2702B (MD) telephone set] are as follows:

- Cord, Handset, H4CJ- (add appropriate color suffix) (4-, 9-, and 13-foot lengths)
- Cord, Mounting, D4BT-29 (4-, 9-, and 25-foot lengths)
- Dial, 35E4A or 35AD4A
- Housing and Plunger Assembly, Table A
- Lamp, Dial, KS-19387L1 (see Note)
- 812558039 (P-25E803) Number Card Retainer
- Ringer, M1A
- Set, Hand, G3A-type (add appropriate color suffix)
- Socket, Dial Lamp, KS-19240L3 (see Note).

**TABLE A**

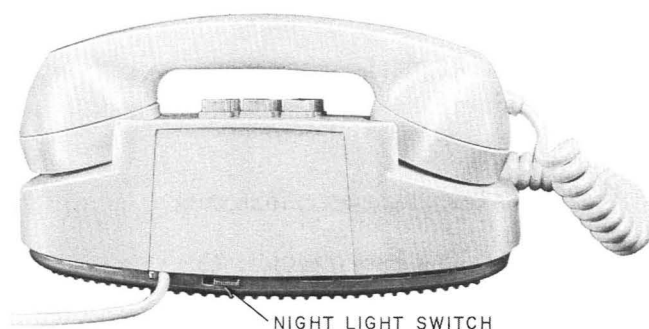
### HOUSING AND PLUNGER ASSEMBLY

SET COLOR AND SUFFIX	ORDER BY CODE 2702B2 (NOTES 1 AND 2) OR AS SHOWN BELOW
Black* (-03)	840187033
Ivory (-50)	840187504
Green* (-51)	840187512
Red (-53)	840187538
Yellow (-56)	840187561
White (-58)	840187587
Rose Pink* (-59)	840187595
Lt. Beige* (-60)	840187603
Aqua Blue (-62)	840187629

**Note 1:** Add appropriate color suffix.

**Note 2:** Two 124A apparatus blanks must be ordered with each housing that is to be used with a 2702B-type telephone set.

\* Nonpromoted color.



**Fig. 6—2702B (MD) Telephone Set, Rear-Night Light Switch Location**

**Note:** Available as D-179919 Kit of Parts (containing dial lamp, socket, and installation instruction).

**2.11** Replaceable components (2702BM and 2702BMG telephone sets) are as follows:

- (a) Cord, Handset, H4DU- (add appropriate color suffix) (6- and 12-foot lengths) ordered separately
- (b) Cord, Mounting D4BU-29 (transparent jacket in 7-, 14-, and 25-foot lengths) ordered separately
- (c) Housing and Plunger Assembly, 2702B2- (add appropriate suffix), see Table A
- (d) Set, Hand, G15A- (add appropriate suffix)
- (e) Base, Telephone Set, 2702B2M which includes:
  - Dial, 35E4A or 35AD4A
  - Lamp, Dial, KS-19387L1 (see Note)
  - 812558039 (P-25E803) Number Card Retainer
  - Ringer, M1A (MD), P1A (MD), or P3A
  - Socket, Dial Lamp, KS-19240L3 (see Note)
  - Jack (mounting cord) 623P4
  - Jack (handset cord) 616P.

**Note:** Available as D-179919 Kit of Parts (containing dial lamp, socket, and installation instruction).

(f) Base, Telephone Set, 2702B2MG.

**Note:** This base contains the same components as the 2702B2M base plus the 840364202 polarity guard.

**2.12** Optional components are as follows:

- Kit of Parts (polarity guard), D-181063 (Note 1) or D-180896 (Note 2).

**Note 1:** The 2702B (MD) or 2702BM telephone set equipped with M-type ringer only.

**Note 2:** The 2702B (MD) or 2702BM telephone set equipped with P-type ringer only.

**2.13** Associated components are as follows:

- Transformer (dial lamp), 2012C or 2012A (MD) (or equivalent).

### 3. INSTALLATION

#### A. Planning

**3.01** Insofar as possible be guided by the customer's wishes in placing apparatus. Consider the following:

- Safety for yourself, customer, and maintenance personnel
- Availability of power outlet for dial lamp transformer
- Location of telephone to provide adequate ringer coverage of area
- General appearance of installation.

**DANGER:** *Do not use 2A or similiar clamp on outlets where center mounting screw holds the duplex outlet in box.*

**Warning:** *Do not connect more than one transformer to the same inside wire pair.*

**3.02** Select a 105-120 volt ac receptacle on a circuit not controlled by a switch for dial lamp transformer. A 2A clamp is available to secure the (early version) 2012A (MD) transformer to the service outlet. Later product 2012A (MD) and 2012C transformers have folded-blade prongs and the 2A clamp is not required. For multiplied dial lamp sets, see Section 501-136-100 covering station transformers for selection information.



**For proper illumination of the dial, the wire run between transformer and telephone set should not exceed 250 feet of standard inside wire. Do not use a 25-foot mounting cord because the added resistance may result in decreased illumination.**

#### B. Installing

**3.03** Install the 2702B (MD), 2702BM, or 2702BMG telephone set in accordance with standard practices for desk-type telephone sets.

**3.04** Refer to appropriate section in Division 461 for selection of appropriate jacks and plugs for these sets.



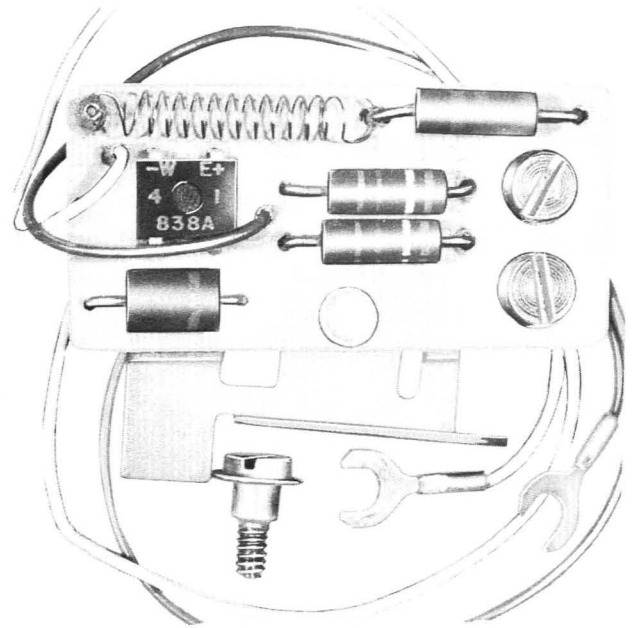
**3.05** Install the 2702BM and 2702BMG modular telephone sets using appropriate 625-type connecting block.

**3.06** Install polarity guard (D-181063 Kit of Parts), (Fig. 7) in 2702B (MD) or 2702BM sets equipped with M-type ringer only when specified by local instructions for end-to-end signaling. Installation is as follows.

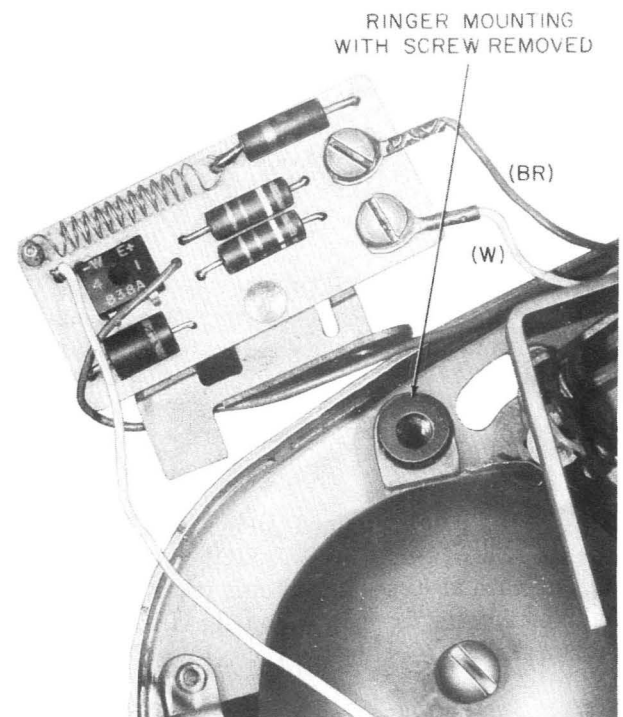
- (1) Remove the telephone set base housing.
- (2) Remove the exposed ringer mounting screw (Fig. 8).
- (3) Remove dial from mounting bracket.
- (4) Remove the (W) and (BR) line switch leads from F and C of the network (see Table E).
- (5) Connect [leads from Step (4)] (W) to T and (BR) to S of the polarity guard, see Table E and Fig. 8.
- (6) Attach the polarity guard to the ringer mounting [hole vacated in Step (2)] with the screw provided in the kit of parts.
- (7) Connect (G) and (W) of the polarity guard to F and C of the network, respectively (see Table E).
- (8) Dress leads as shown in Fig. 9.
- (9) Replace dial.
- (10) Replace housing.

**3.07** If D-181063 Kit of Parts (polarity guard) is not available, the D-180229 (MD) Kit of Parts (polarity guard) can be used. Installation is as follows.

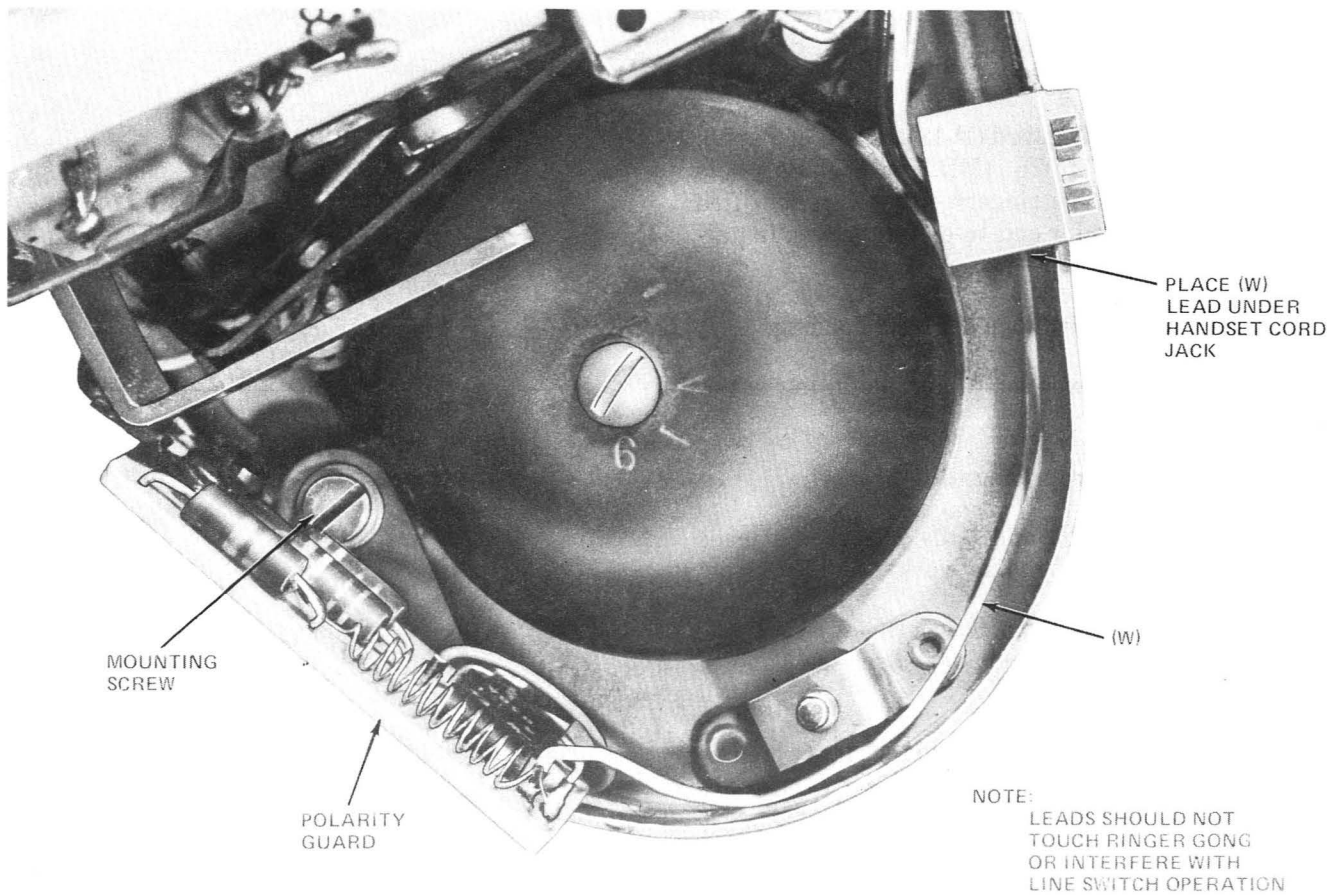
- (1) Remove housing, loosen dial mounting screws, and move the dial to one side without disconnecting the dial leads.
- (2) Insert the 812651644 (P-26E164) retainer in left-hand dial mounting bracket (Fig. 10).
- (3) Insert tabs of 812166759 (P-21F675) terminal board into notches in right-hand dial mounting bracket and secure to retainer using 814313920 (P-43A392) screw.
- (4) Connect polarity guard per Table E.



**Fig. 7—D-181063 Kit of Parts (Polarity Guard)**



**Fig. 8—Installation and Connection of D-181063 Kit of Parts (Polarity Guard)**



**Fig. 9—D-181063 Kit of Parts (Polarity Guard) Lead Dressing in PRINCESS Telephone Set**

(5) Reinstall dial mounting bracket, securing the 819040544 (P-90D054) guard assembly mounting bracket under the right-hand dial mounting screw (Fig. 11).

(6) Reinstall housing.

**3.08** Install polarity guard (D-180896 Kit of Parts) in 2702B (MD) or 2702BM telephone sets equipped with **P-type ringer** only when specified by local instructions for end-to-end signaling. Installation is as follows:

- (1) Remove housing.
- (2) Connect polarity guard per Table E and position polarity guard as shown in Fig. 3.

**Note:** It may be necessary to redress existing leads to accommodate polarity guard.

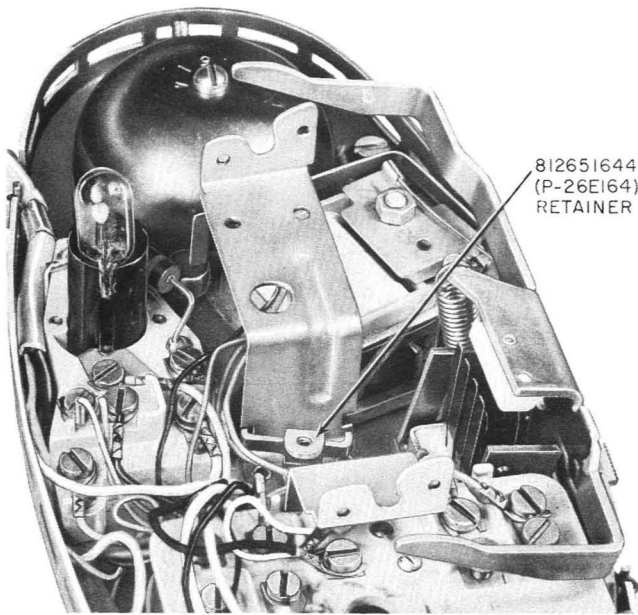
(3) Reinstall housing.

#### **C. 11-Type Extender or 28A Ringer Isolator**

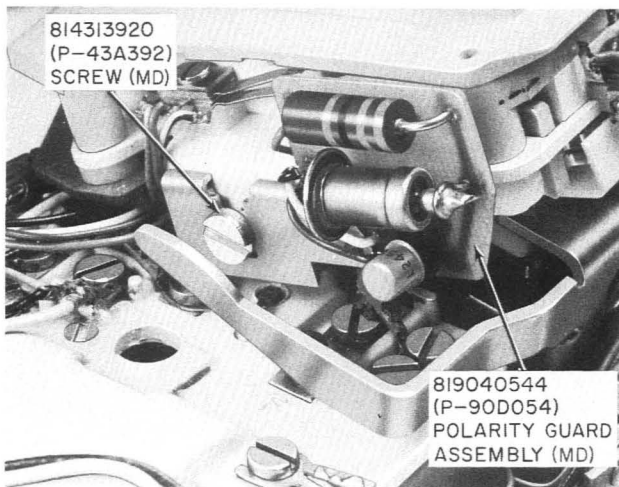
**3.09** All 11-type (MD) extender or 28A ringer isolator may be used with a 2702B (MD), 2702BM, or 2702BMG telephone set for the following:

- Isolating the ringer from ground to prevent inductive noise
- To provide ringing range extension
- To provide 4-party full selective ringing.





**Fig. 10—Installing Terminal Board Retainer in PRINCESS Telephone Set**



**Fig. 11—D-180229 (MD) Kit of Parts (Polarity Guard) Mounted in PRINCESS Telephone Set**

**3.10** If an 11-type extender or 28A ringer isolator is required, refer to appropriate table in Section 501-322-101 or 501-375-101, respectively, for connection information.

**3.11** If an 11-type extender or 28A ringer isolator is used with 2702BM or 2702BMG telephone set, the 623P4 jack must be replaced with a 623P6 jack. Connections are made using 338A adapter, 248B adapter, and two D4BU mounting cords.

#### **D. 603A Ringing Extender**

**3.12** The 603A ringing extender is intended for use on single party long loops with bridged ringing. If the 603A is required, refer to Section 501-380-102 for connections.

#### **4. MODIFICATION OF 2702B SET TO MODULAR CONCEPT**

**4.01** To convert an existing 2702B (MD) telephone set to a 2702BM telephone set, refer to Section 503-100-100.

#### **5. CONNECTIONS**

**5.01** Refer to Fig. 13 through 17 for telephone set connections.

**5.02** Refer to Tables B, C, or D for line and ringer connections.

**5.03** Refer to Table E for polarity guard connections.

**5.04** Refer to Table F for set modification when used with 1A1 or 1A2 KTS.

**5.05** Refer to Fig. 18 through 22 for telephone set wired for 1A1 or 1A2 KTS use.

#### **6. MAINTENANCE**

**6.01** Maintenance of the 2702B (MD), 2702BM, and 2702BMG telephone sets is limited to replacing defective components, burnishing or adjusting switch contacts, and modifying housing per paragraphs 6.05 and 6.06.

**Warning:** *Do not use scouring cleaners or volatile solvents as these may damage finish.*

**6.02** Housing, handsets, and cords may be cleaned with a damp KS-2423 (or equivalent) cloth.

**6.03** Refer to sections covering dials, handsets, cords, ringers, etc., for maintenance of these components.

**6.04** Housings manufactured prior to 1970 have no tabs and housings manufactured after 1978, identified by an embossed "NP" inside the housing, do not have a clearance problem and do not require modification.

**6.05** Those housings manufactured from 1970 through 1974 must be modified due to a clearance problem, if they are used with a base containing P-type ringer and/or a 4228-type network. Modify per paragraph 6.06(1).

**6.06** Housings manufactured from 1974 to 1978, identified by an embossed "N" inside the housing, do not require modification for a 4228-type network but do require modifications for use with a P-type ringer. Modify as follows.

- (1) Using diagonal side cutters, clip off a portion of the **plunger-well snap-tabs**, which interfere with P-type ringer and/or the network, as shown in Fig. 12.



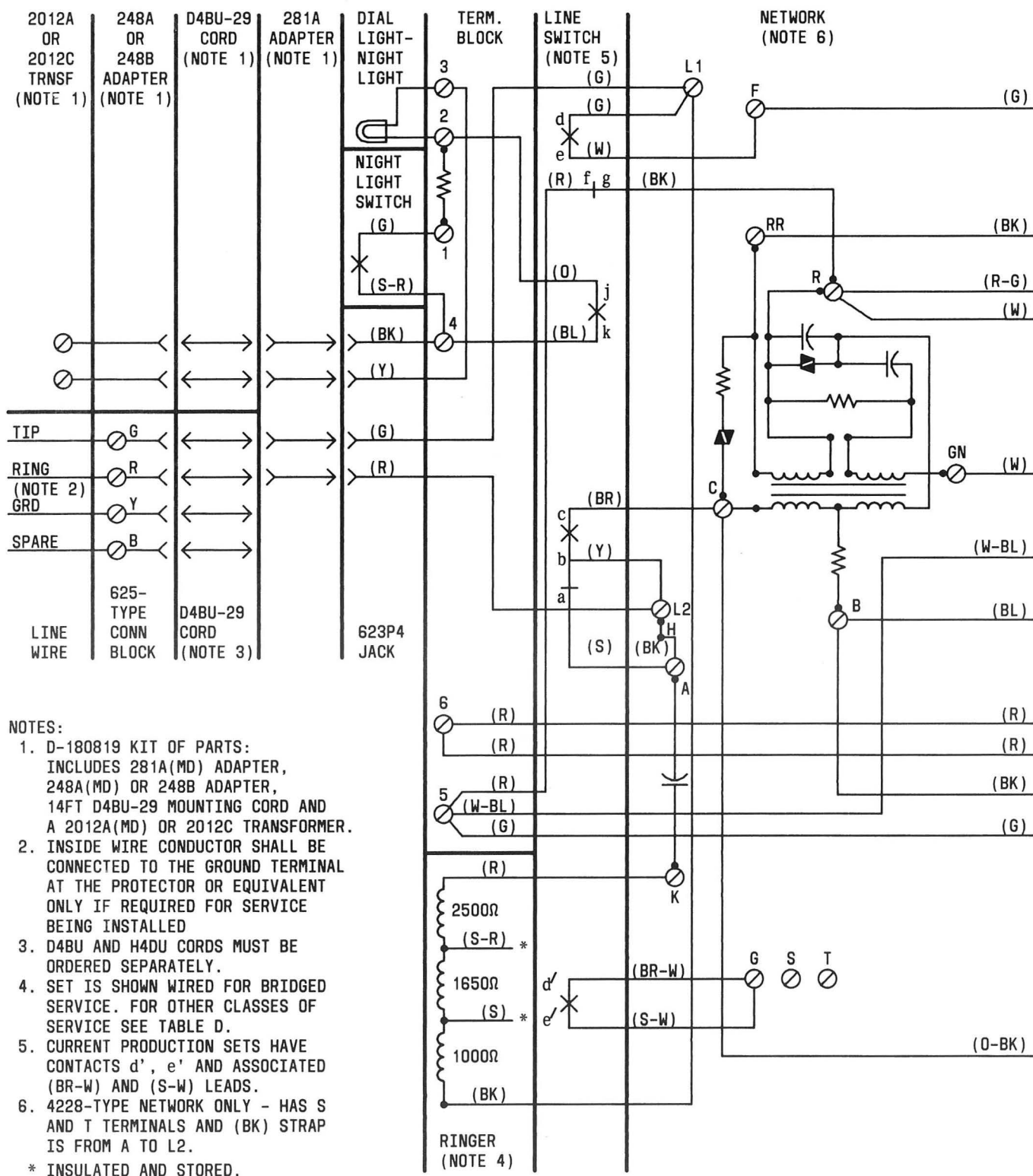
**Fig. 12—Modification of Housing**

**Note:** Tabs should be cut at an angle leaving 1/16-inch at the plunger well. Tabs longer than 1/16-inch will cause the plunger to bind when housing is installed. Tabs less than 1/16-inch will permit plunger to fall through.



1. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
2. CONNECTIONS SHOWN ARE FOR D4BT MOUNTING CORD. IF D5AK(MD) OR D6AF MOUNTING CORD IS USED, REFER TO TABLE C.
3. SET IS SHOWN WIRED FOR BRIDGED SERVICE. FOR OTHER CLASSES OF SERVICE SEE TABLE B OR C.
4. 4228-TYPE NETWORK ONLY HAS S AND T TERMINALS AND THE (BK) STRAP IS FROM A TO L2 OF NET

**Fig. 13—2702B (MD) Telephone Set, Connections**



**Fig. 14—2702BM Telephone Set Connections Using D-180819 (MD) Kit of Parts  
(Sheet 1 of 2)**



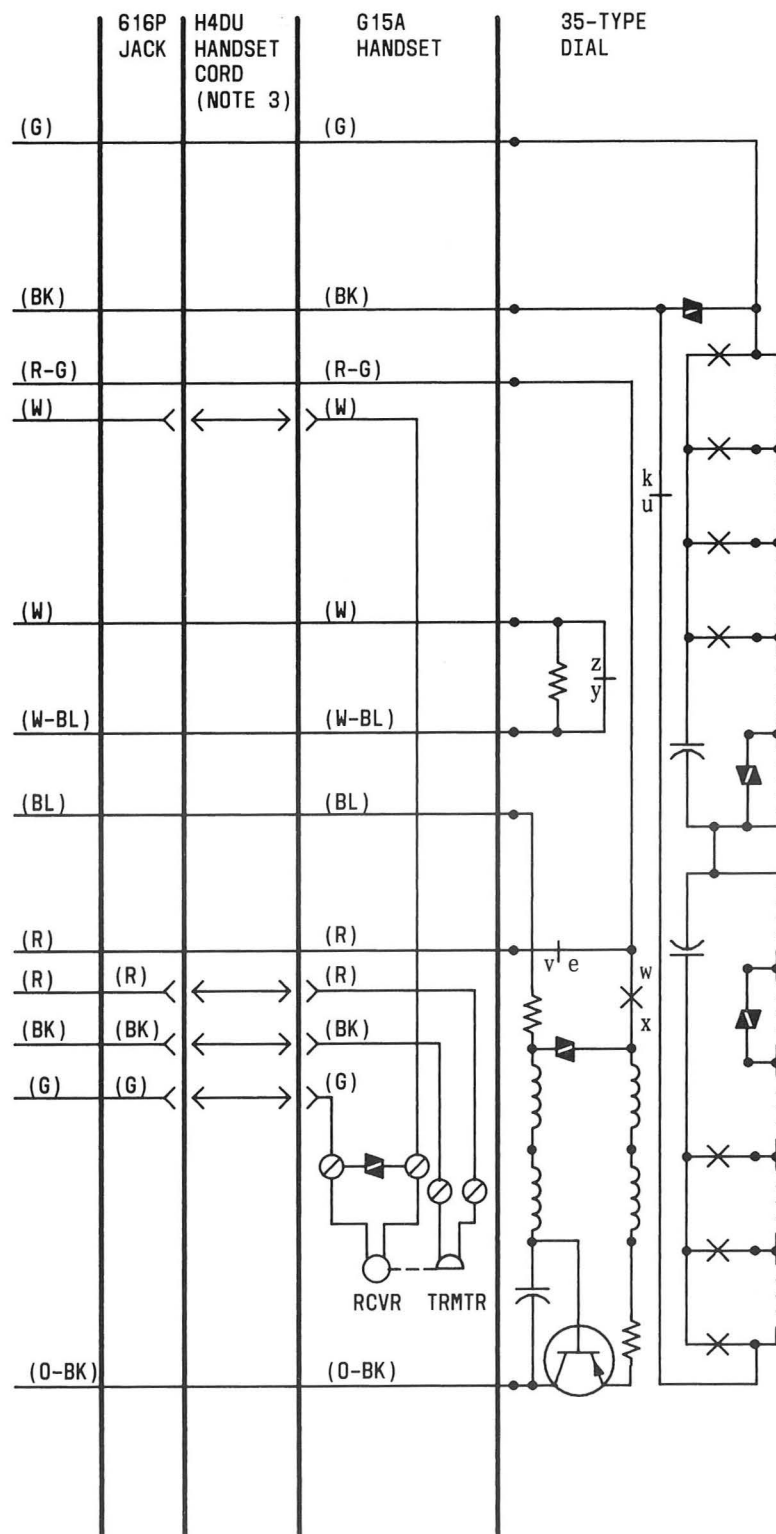
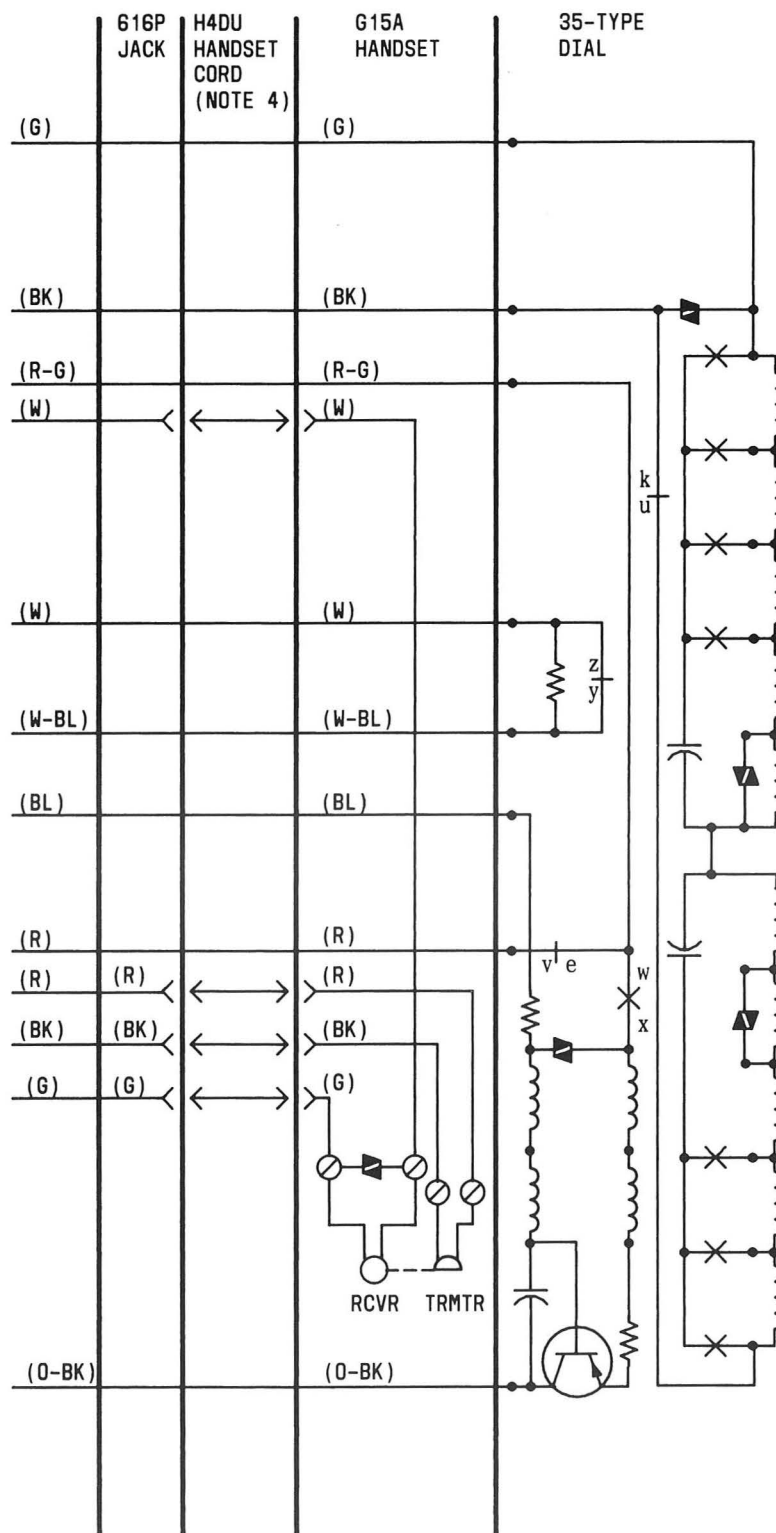


Fig. 14—2702BM Telephone Set, Connections Using D-180819 (MD) Kit of Parts  
(Sheet 2 of 2)







**Fig. 15—2702BM Telephone Set, Connections Using D-181059 Kit of Parts (Sheet 2 of 2)**

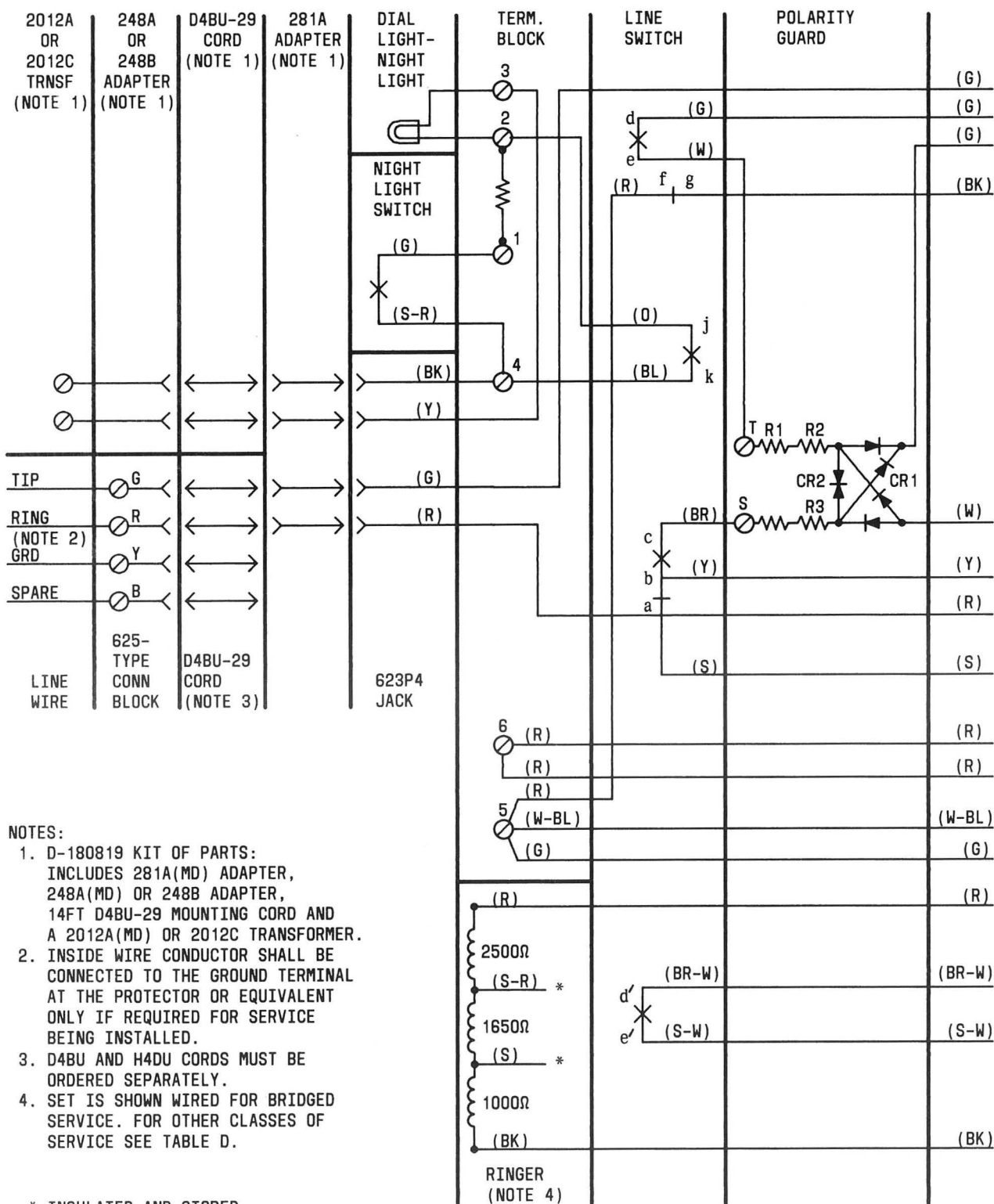


Fig. 16—2702BMG Telephone Set, Connections Using D-180819 (MD) Kit of Parts  
(Sheet 1 of 2)



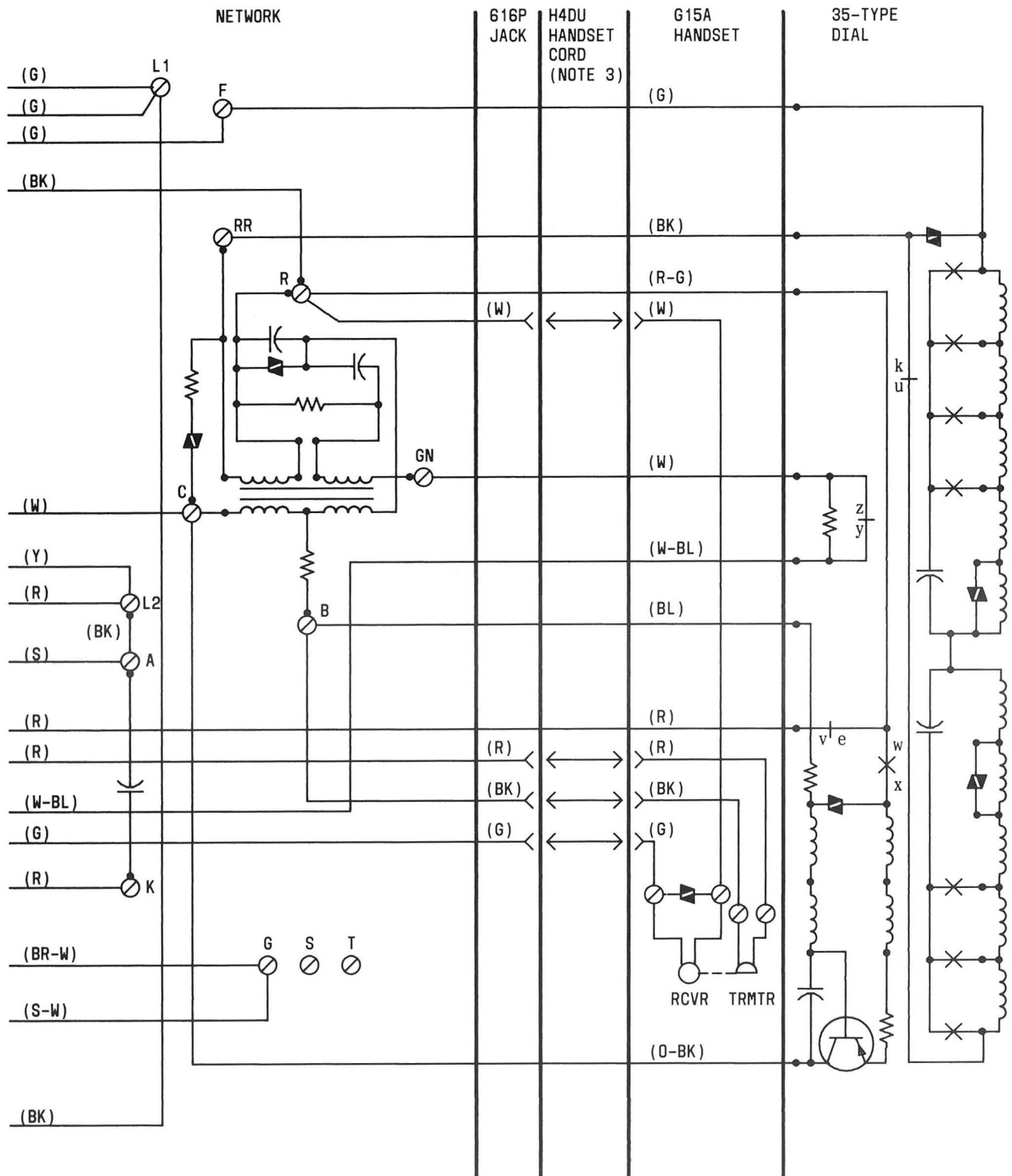


Fig. 16—2702BMG Telephone Set, Connections Using D-180819 (MD) Kit of Parts  
(Sheet 2 of 2)

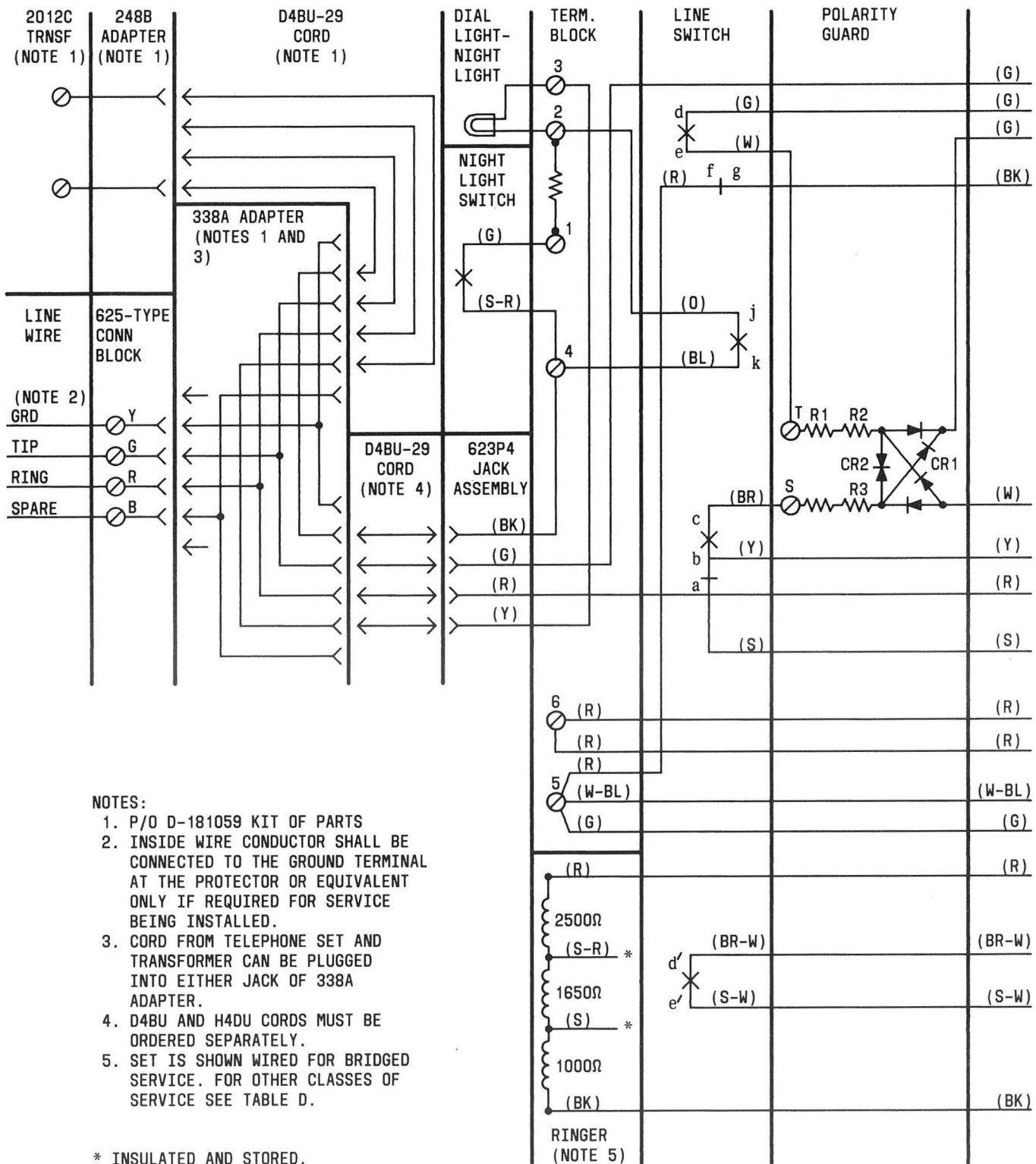


Fig. 17—2702BMG Telephone Set, Connections Using D-181059 Kit of Parts (Sheet 1 of 2)



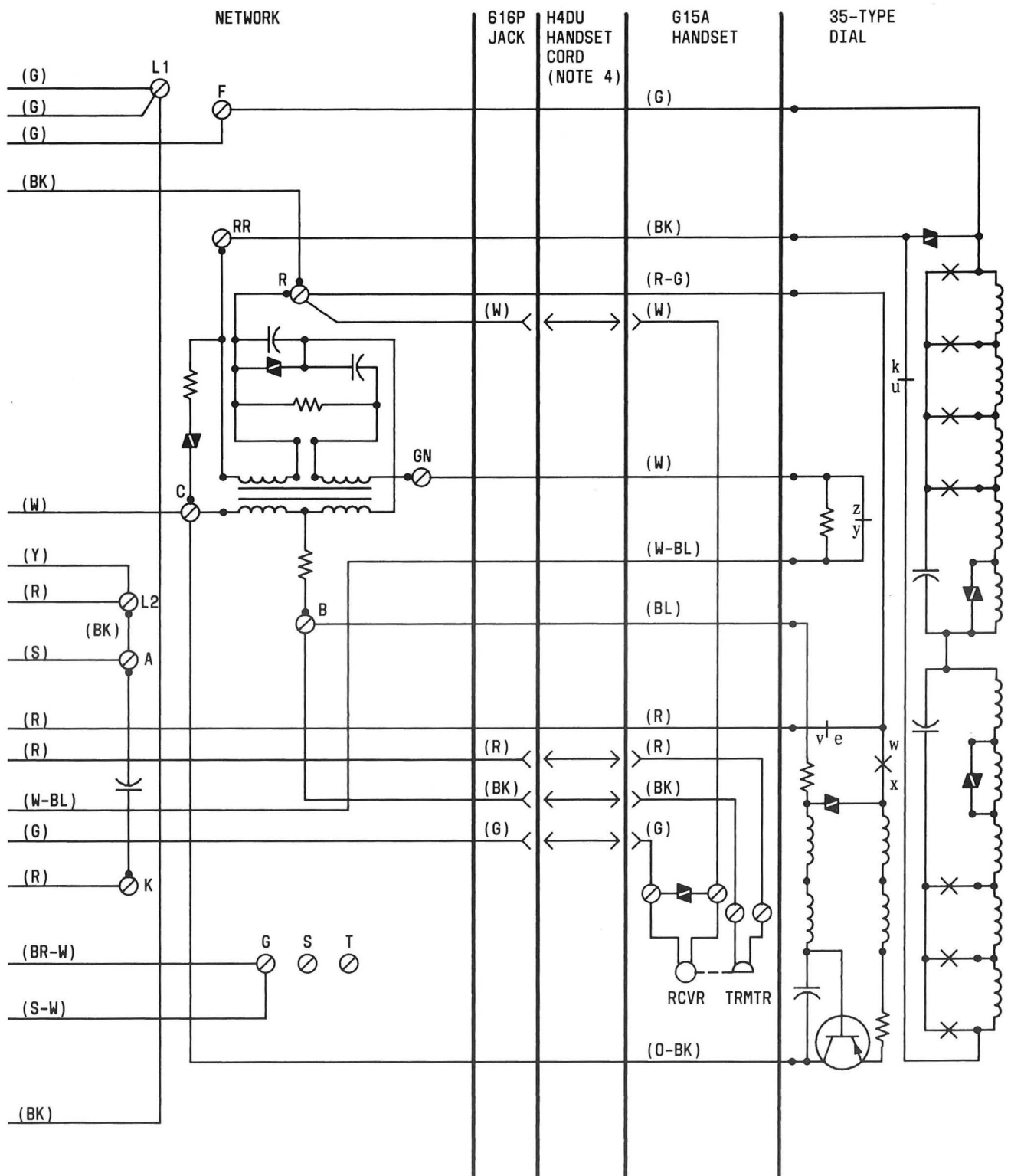


Fig. 17—2702BMG Telephone Set Connections Using D-181059 Kit of Parts (Sheet 2 of 2)

TABLE B

**2702B (MD) TELEPHONE SET WITH D4BT MOUNTING CORD  
LINE AND RINGER CONNECTIONS**

WIRE OR LEAD		INDIVIDUAL OR BRIDGED	RING PARTY	TIP PARTY		
				NO ID GRD	IDENTIFYING GROUND	
					1000 OHMS	2650 OHMS
Inside Wire at Conn Block	Ring	R	R	R	R	R
	Tip	G	G	G	G	G
	Grd	Y	Y	Y	Y	Y
Dial Light Transformer	1	Y	Y	Y	Y	Y
	2	B	B	B	B	B
D4BT Mtg Cord at Conn Block	(R)	R	R	G	G	G
	(G)	G	G	R	R	R
	(Y)	Y	Y	Y	Y	Y
	(BK)	B	B	B	B	B
D4BT Mtg Cord Set Term.	(R)	L2	L2	L2	L2	L2
	(G)	L1	L1	L1	C	C
	(Y)	3‡	3‡	3‡	3‡	3‡
	(BK)	4‡	4‡	4‡	4‡	4‡
Ringer Leads*	(R)	K	K	K	K	K
	(BK)	L1	3‡	3‡	3‡	3‡
	(S)	§	§	§	L1	§
	(S-R)	§	§	§	§	L1
Line Switch†	(BR)	C	C	F	F	F
	(W) [S-W]	F	F	C	B	B
Strap from H	(BK) [S-BK]	A	A	A	§	§

\* To silence ringer, refer to the appropriate ringer section in Division 501.

† This change does not apply to sets equipped with a polarity guard.

‡ Terminals on lamp terminal block.

§ Insulated and stored.

( ) Current color code.

[ ] MD color code.



- NOTES:
1. D6AF MTG CORD IS ORDERED SEPARATELY AND CONNECTED AS SHOWN.
  2. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK, THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD CONTACTS. (FIELD ADJUSTMENT OF LINE SWITCH IS NOT RECOMMENDED)
  3. 422B-1 TYPE NETWORK ONLY - HAS S AND T TERMINALS AND (BK) STRAP IS FROM A TO L2.
  4. SET SHOWN MODIFIED PER TABLE F.
- \* INSULATED AND STORED

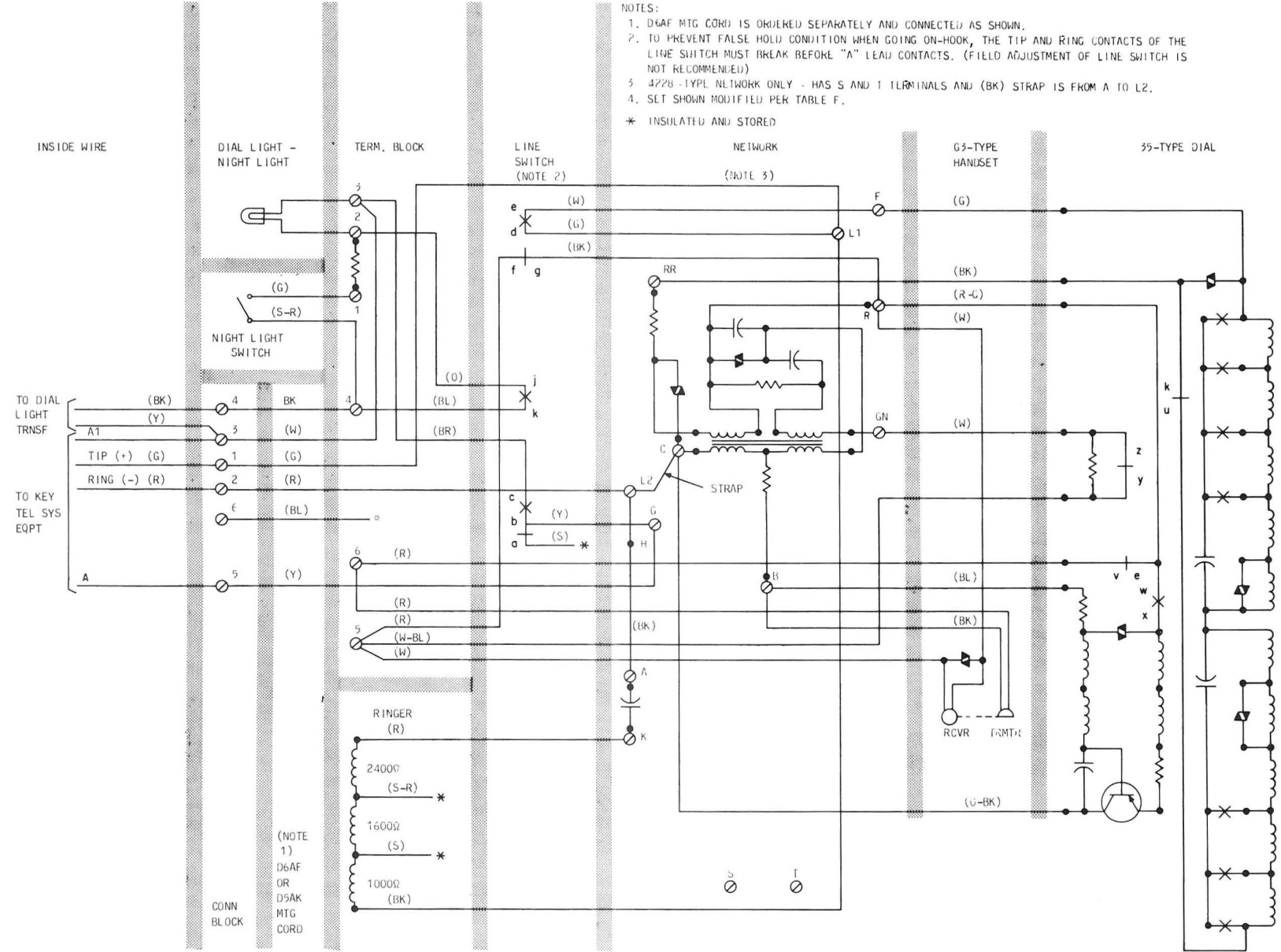
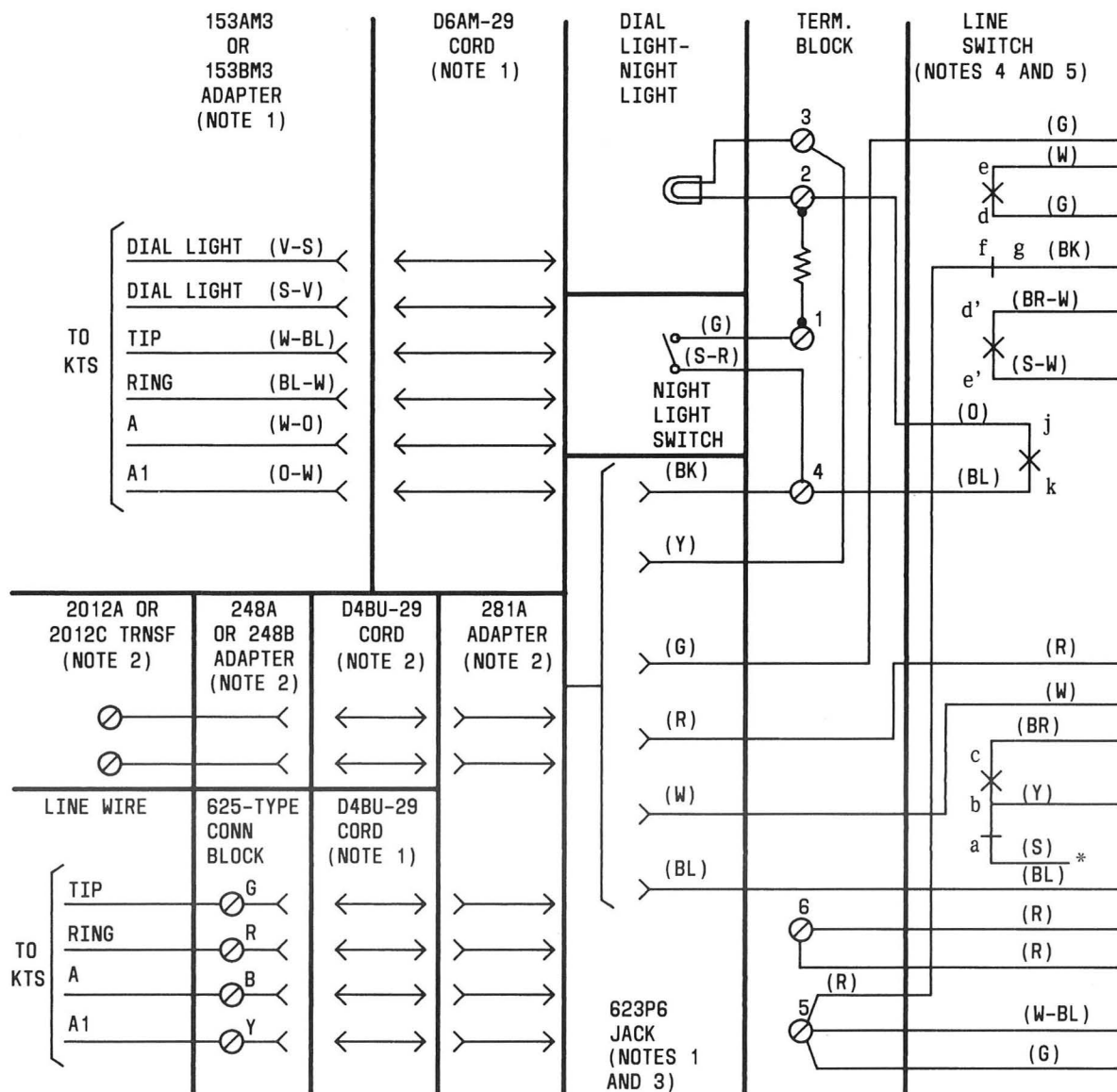


Fig. 18—2702B (MD) Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System (Note 4)



## NOTES:

1. MUST BE ORDERED SEPARATELY.
2. THESE ITEMS ARE CONTAINED IN A D-180819 KIT OF PARTS.
3. REPLACE 623P4 JACK WITH 623P6 JACK.
4. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE A LEAD CONTACTS. FIELD ADJUSTMENT OF LINE SWITCH IS NOT RECOMMENDED.
5. CURRENT PRODUCTION SETS HAVE CONTACTS d', e' AND ASSOCIATED (BR-W) AND (S-W) LEADS. ON SETS THAT DO NOT HAVE d', e' CONTACTS ADD M1W CORD BETWEEN NETWORK TERMINALS L2 AND C.
6. SET SHOWN MODIFIED PER TABLE F.
7. S AND T TERMINALS ON 4228-TYPE NETWORK ONLY. IF SET IS EQUIPPED WITH A 4010-TYPE NETWORK CONNECT (BR) LINE SWITCH LEAD AND (W) JACK ASSEMBLY LEAD TO A D-161488 CONNECTOR.

\* INSULATE AND STORE

Fig. 19—2702BM Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-180819 (MD) Kit of Parts, or 153AM3 or 153BM3 Adapter (Note 6) (Sheet 1 of 2)

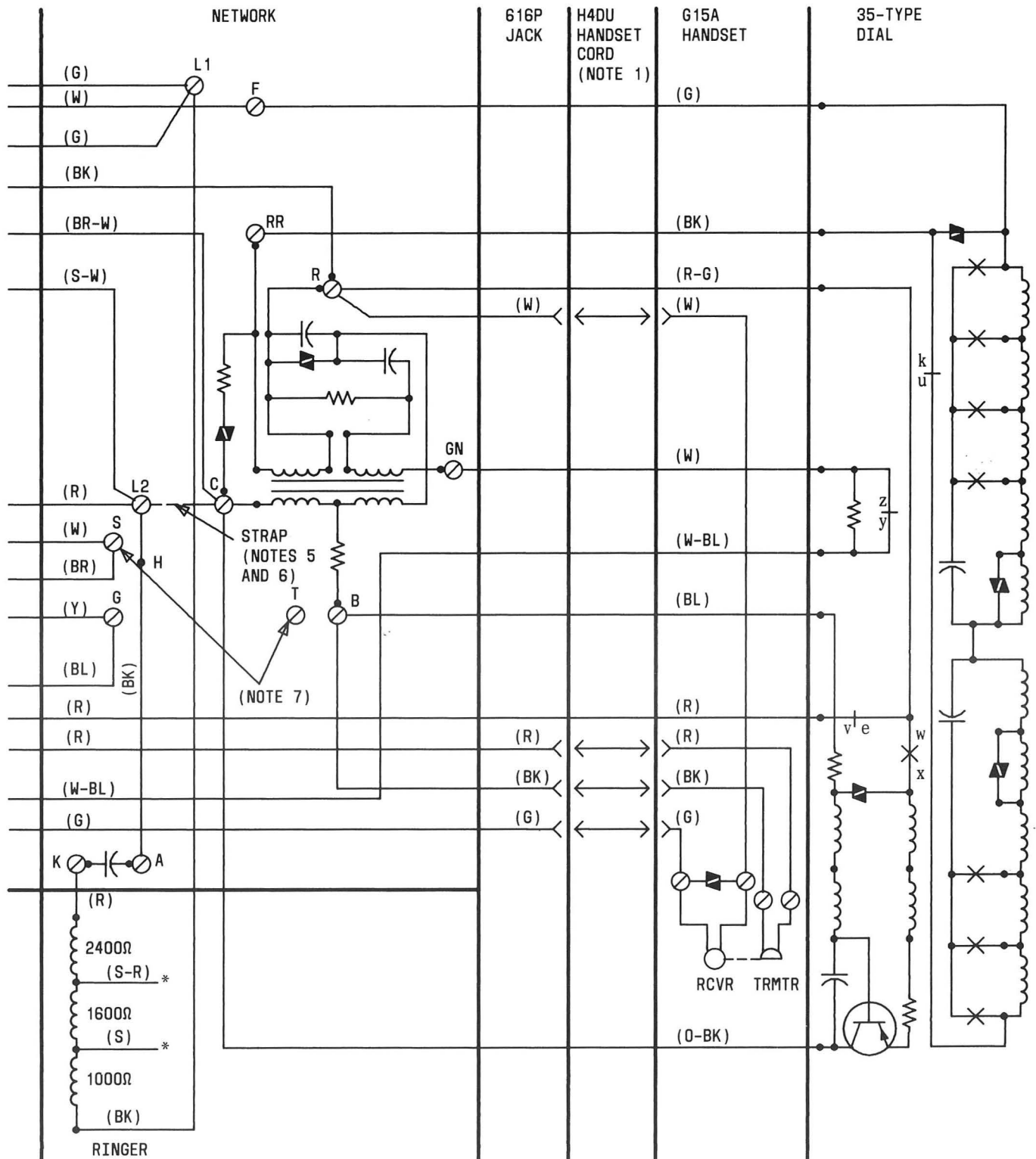
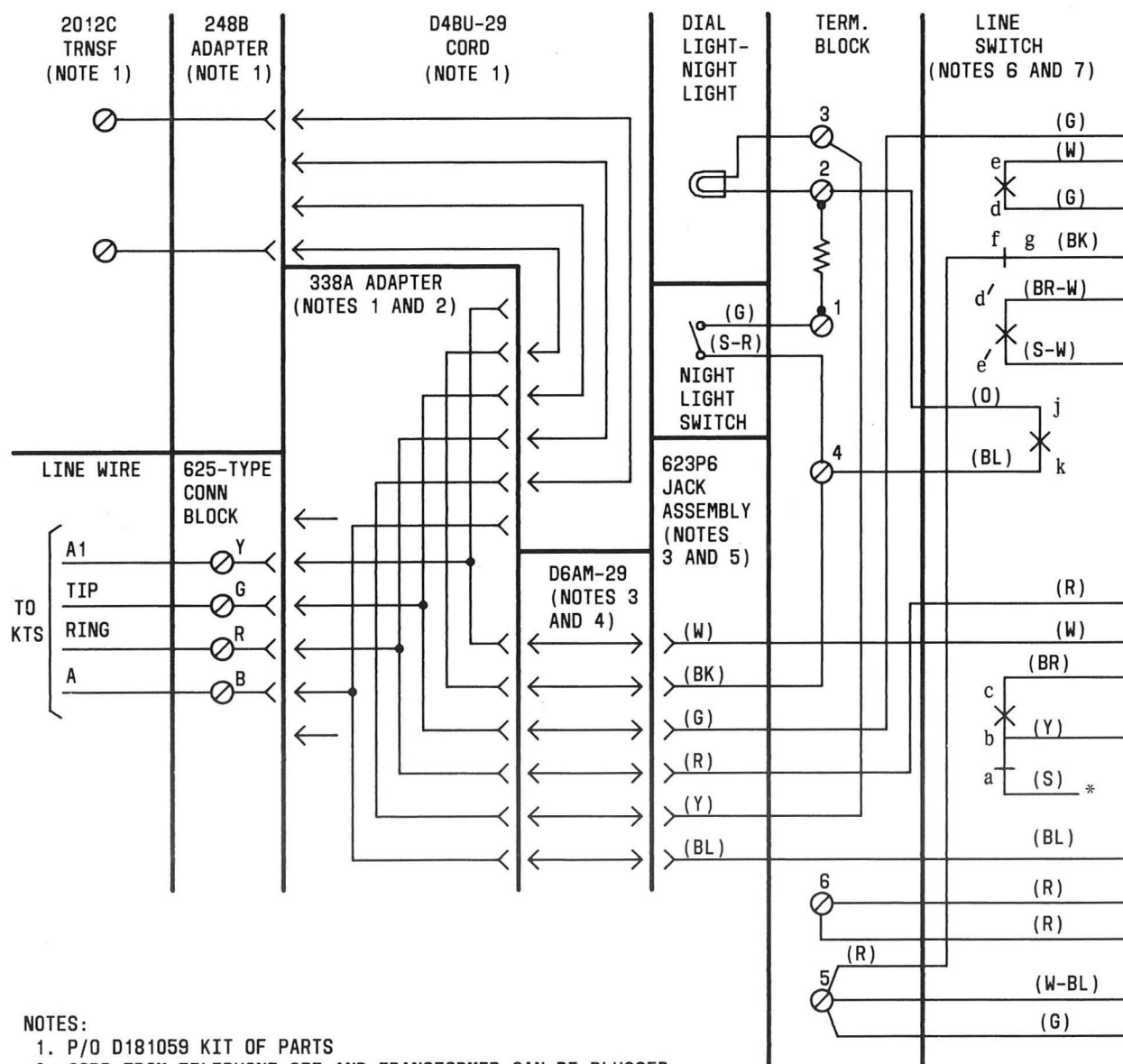


Fig. 19—2702BM Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-180819 (MD) Kit of Parts, or 153AM3 or 153BM3 Adapter (Note 6) (Sheet 2 of 2)





## NOTES:

1. P/O D181059 KIT OF PARTS
2. CORD FROM TELEPHONE SET AND TRANSFORMER CAN BE PLUGGED INTO EITHER JACK OF 338A ADAPTER
3. ORDERED SEPARATELY.
4. IF POWER IS PROVIDED THROUGH THE CONNECTOR CABLE THE D6AM-29 CORD CAN BE PLUGGED INTO THE 153AM3 OR 153BM3 ADAPTER AS SHOWN IN FIG. 19
5. REPLACE 623P4 JACK WITH 623P6 JACK.
6. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE A LEAD CONTACTS. FIELD ADJUSTMENT OF LINE SWITCH IS NOT RECOMMENDED.
7. CURRENT PRODUCTION SETS HAVE CONTACTS d', e' AND ASSOCIATED (BR-W) AND (S-W) LEADS. ON SETS THAT DO NOT HAVE d', e' CONTACTS ADD M1W CORD BETWEEN NETWORK TERMINALS L2 AND C.
8. SET SHOWN MODIFIED PER TABLE F.
9. S AND T TERMINALS ON 4228-TYPE NETWORK ONLY. IF SET IS EQUIPPED WITH A 4010-TYPE NETWORK CONNECT (BR) LINE SWITCH LEAD AND (W) JACK ASSEMBLY LEAD TO A D-161488 CONNECTOR.

\* INSULATE AND STORE

Fig. 20—2702BM Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-181059 Kit of Parts (Note 8) (Sheet 1 of 2)

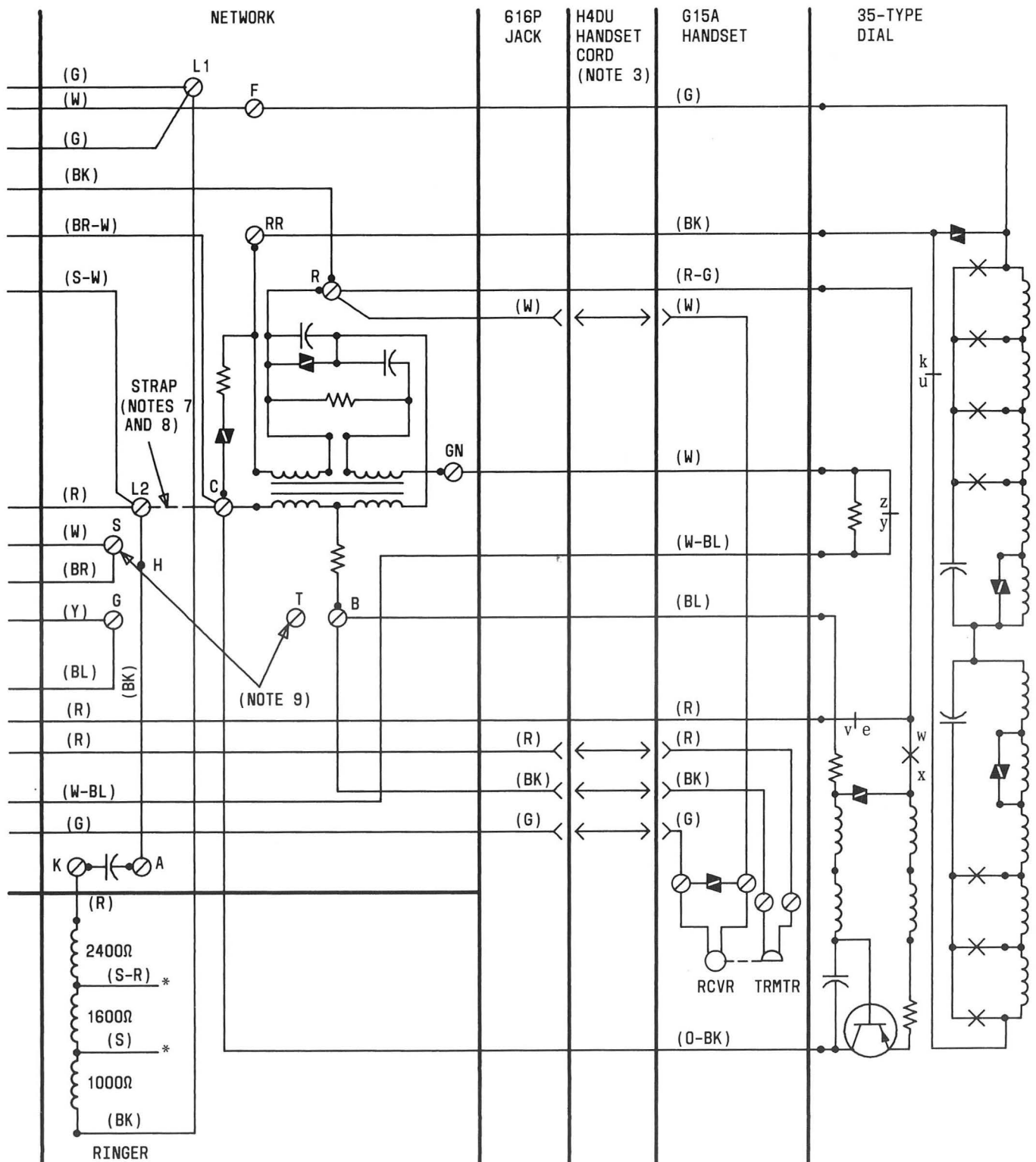
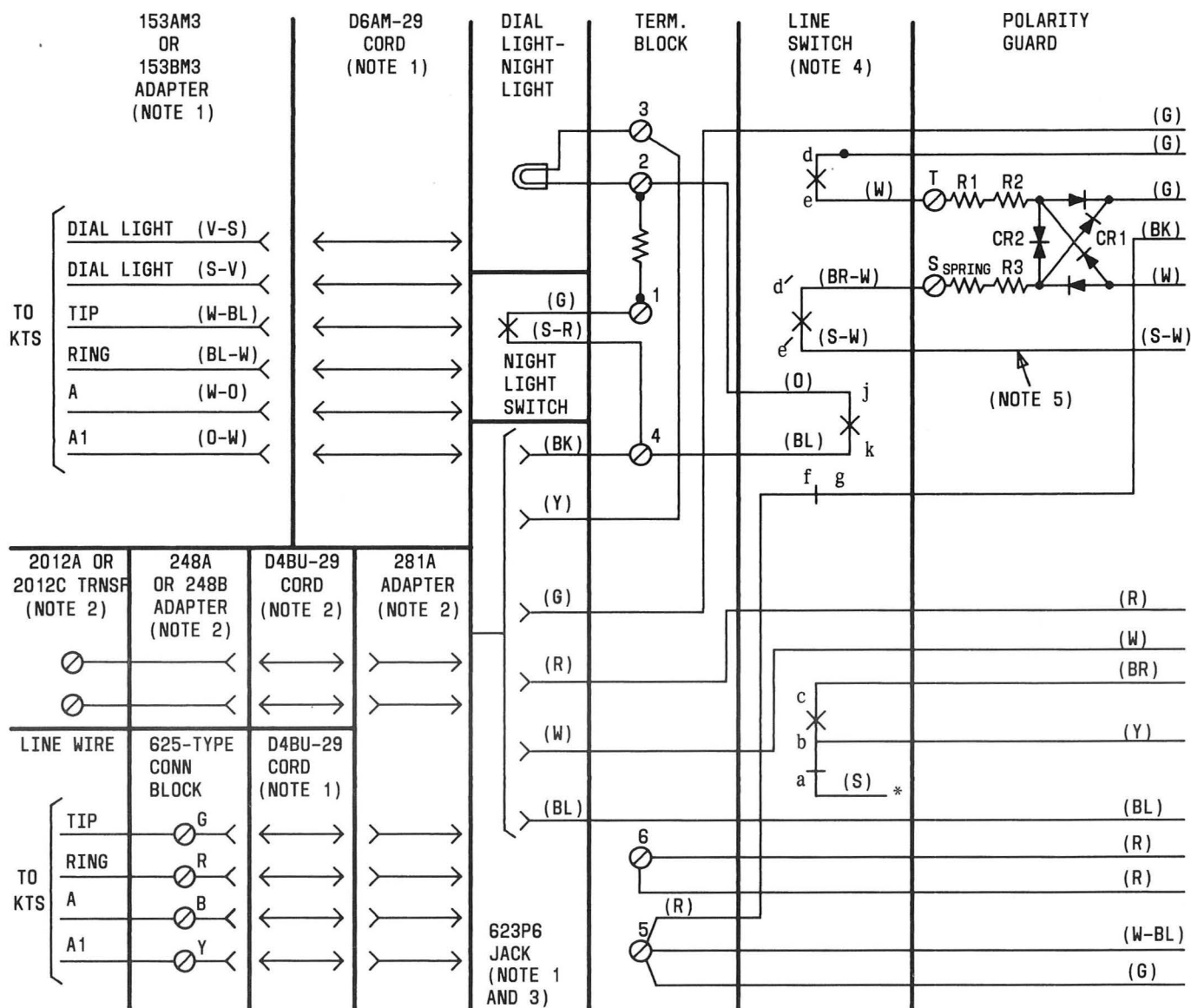


Fig. 20—2702BM Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-181059 Kit of Parts (Note 8) (Sheet 2 of 2)



NOTES:

1. MUST BE ORDERED SEPARATELY.
2. THESE ITEMS ARE CONTAINED IN A D-180819 KIT OF PARTS.
3. REPLACE 623P4 JACK WITH 623P6 JACK.
4. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP AND RING CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE A LEAD CONTACTS. FIELD ADJUSTMENT OF LINE SWITCH IS NOT RECOMMENDED.
5. SET SHOWN MODIFIED PER TABLE F.

\* INSULATE AND STORE

**Fig. 21 — 2702BMG Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-180819 (MD) Kit of Parts, or 155AM3 or 153BM3 Adapter (Note 5) (Sheet 1 of 2)**



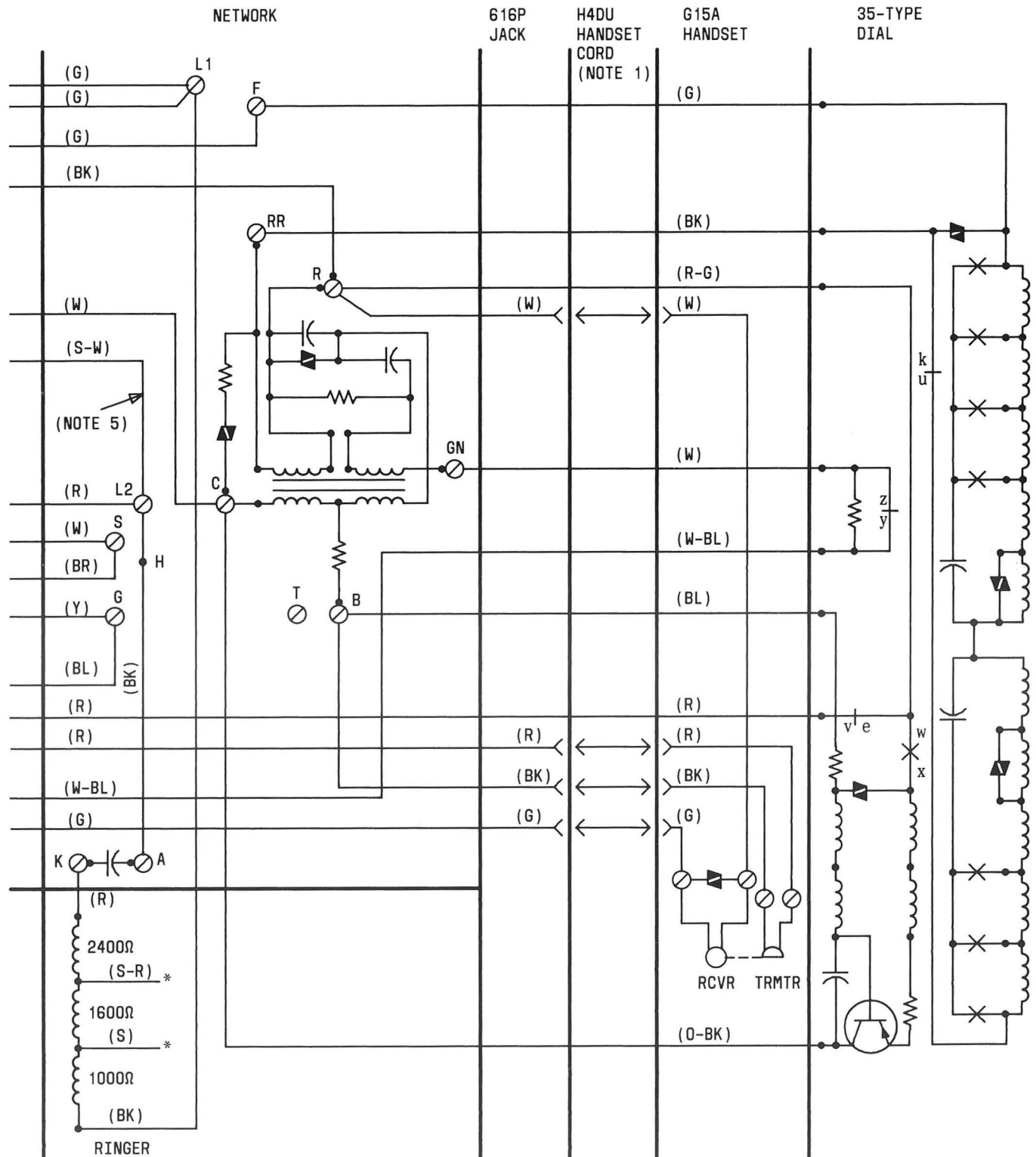
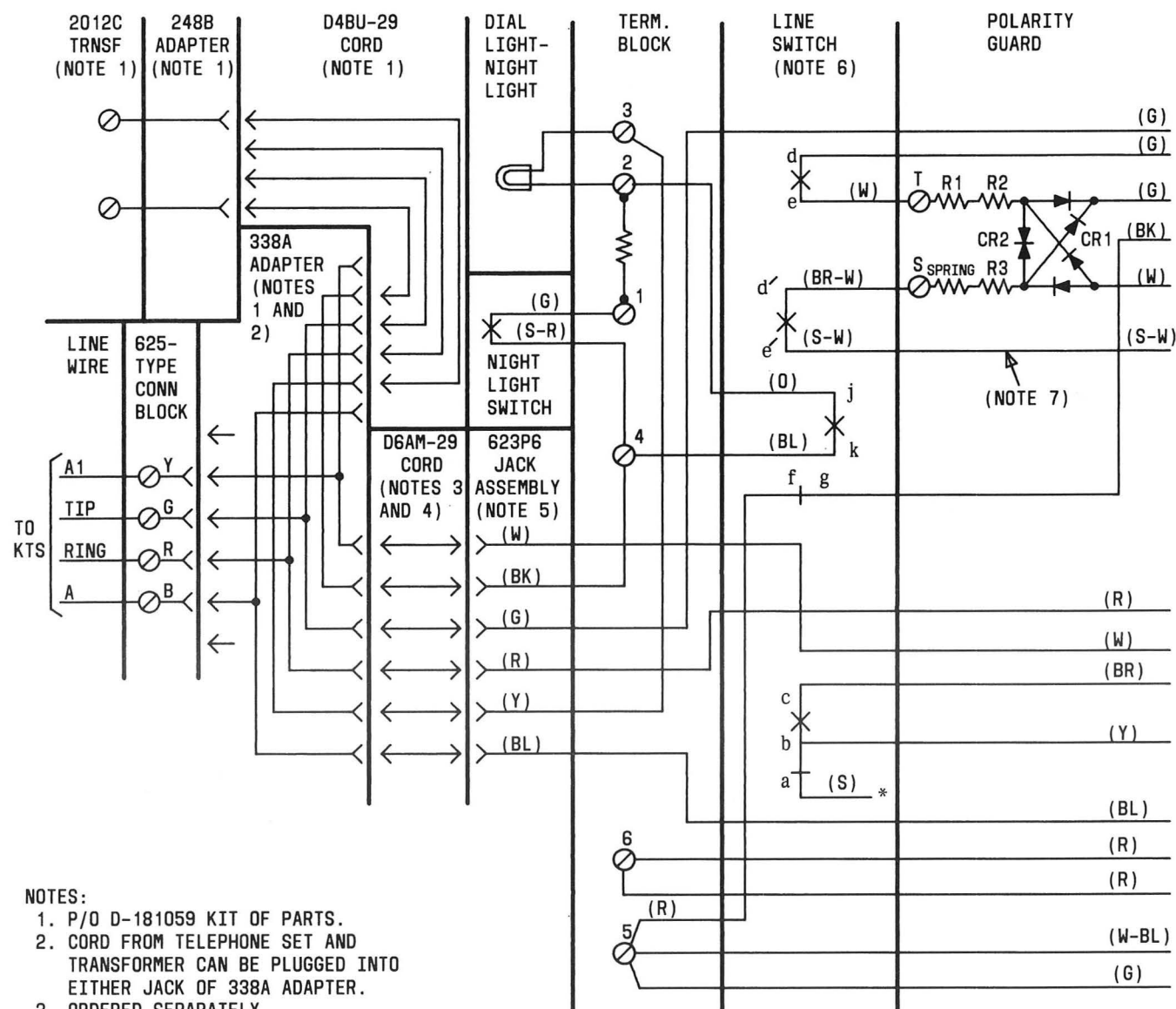


Fig. 21 — 2702BMG Telephone Set, Wired For Use With 1A1 or 1A2 Key Telephone System Using D-180819 (MD) Kit of Parts, or 155AM3 or 153BM3 Adapter (Note 5) (Sheet 2 of 2)



**Fig. 22—2702BMG Telephone Set, Wired for Use With 1A1 or 1A2 Key Telephone System Using D-181059 Kit of Parts (Note 7) (Sheet 1 of 2)**

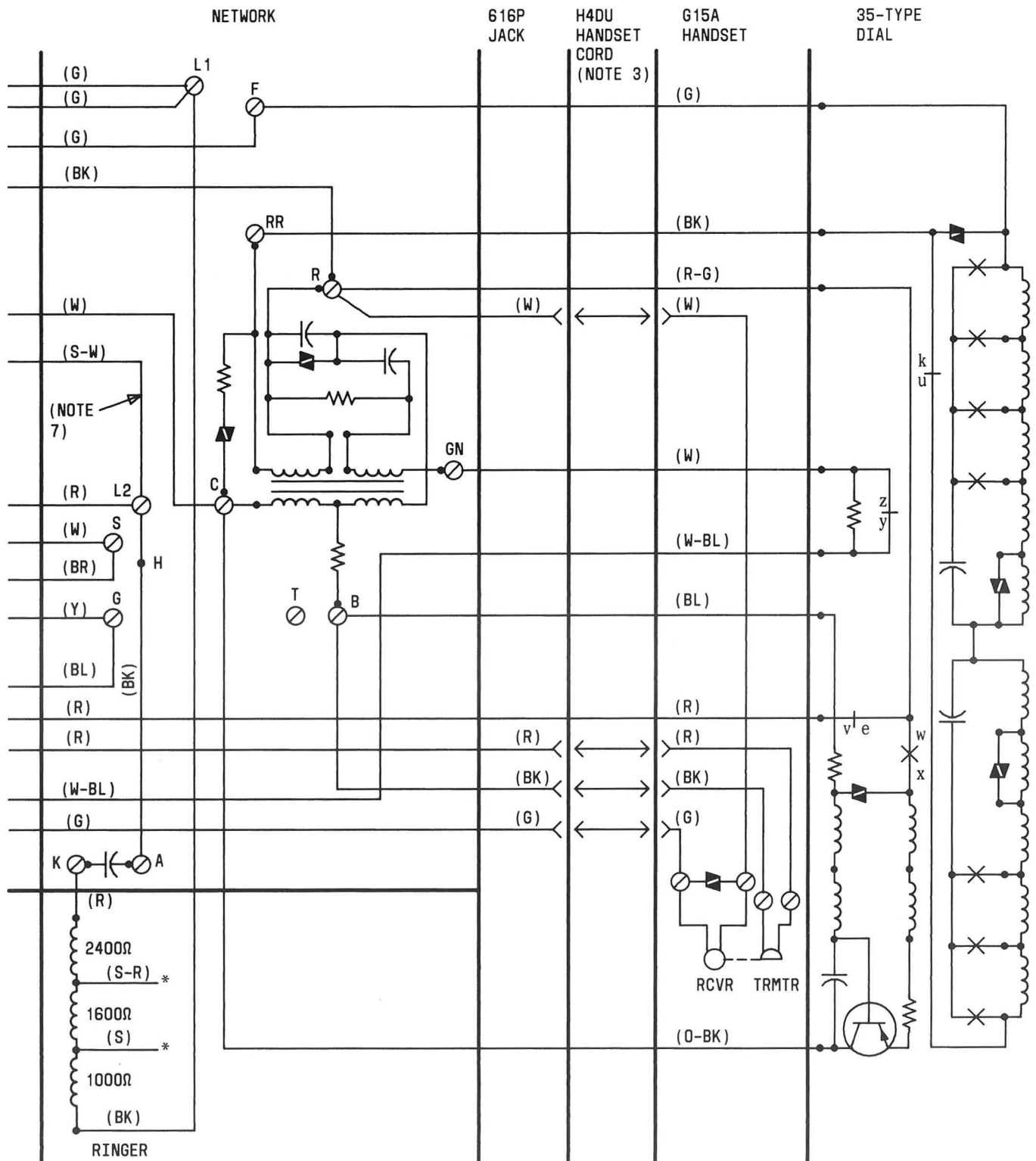


Fig. 22—2702BMG Telephone Set, Wired for Use With 1A1 or 1A2 Key Telephone System Using D-181059 Kit of Parts (Note 7) (Sheet 2 of 2)



TABLE C

**2702B (MD) TELEPHONE SET WITH D6AF OR D5AK (MD) MOUNTING CORD  
LINE AND RINGER CONNECTIONS**

WIRE OR LEAD		INDIVIDUAL OR BRIDGED	RING PARTY	TIP PARTY		
				NO ID GRD	IDENTIFYING GROUND	
					1000 OHMS	2650 OHMS
Inside Wire at Conn Block	Ring	R	R	R	R	R
	Tip	G	G	G	G	G
	Grd	Y	Y	Y	Y	Y
Dial Light Transformer	1	Y	Y	Y	Y	Y
	2	B	B	B	B	B
D6AF or D5AK Mtg Cord at Conn Block*	(R)	R	R	G	G	G
	(G)	G	G	R	R	R
	(Y)	G	Y	Y	Y	Y
	(BK)	B	B	B	B	B
	(W)	Y	Y	Y	Y	Y
D6AF or D5AK Mtg Cord at Set Terminals*†	(R)	L2	L2	L2	L2	L2
	(G)	L1	L1	L1	C	C
	(Y)	G	G	G	G	G
	(BK)	4¶	4¶	4¶	4¶	4¶
	(W)	3¶	3¶	3¶	3¶	3¶
Ringer Leads‡	(R)	K	K	K	K	K
	(BK)	G	G	G	G	G
	(S)	**	**	**	L1	**
	(S-R)	**	**	**	**	L1
Line Switch§	(BR)	C	C	F	F	F
	(W) [S-W]	F	F	C	B	B
Strap from H or L2 of Net.	(BK) [S-BK]	A	A	A	**	**

\* (BL) lead in D6AF mounting cord is insulated and stored.

† When connecting the D6AF or D5AK mounting cord leads for tip party identifying ground, use D-161488 connectors and M1W straps as required to extend conductor leads.

‡ To silence ringer, refer to the appropriate ringer section in Division 501.

§ This change does not apply to sets equipped with a polarity guard.

¶ Terminals on lamp terminal block.

\*\* Insulated and stored.

( ) Current color code.

[ ] MD color code.

TABLE D

**2702BM AND 2702BMG TELEPHONE SET WITH D4BU MOUNTING CORD  
LINE AND RINGER CONNECTIONS**

WIRE OR LEAD	COLOR	INDIVIDUAL OR BRIDGED (NOTE 1)	RING PARTY (NOTE 2)	TIP PARTY (NOTE 2)		
				NO ID GRD	IDENTIFYING GROUND	
					1000 OHMS	2650 OHMS
623P4 or 623P6 Jack Assembly in Set*	R	L2	L2	L1	C	C
	G	L1	L1	L2	L2	L2
	Y	3§	3§	3§	3§	3§
	BK	4§	4§	4§	4§	4§
	W		¶	¶	¶	¶
	BL		G	G	G	G
Ringer Lead†	BK	L1	G	G	G	G
	R	K	K	K	K	K
	S	¶	¶	¶	L1	¶
	S-R	¶	¶	¶	¶	L1
Line Switch at Net.‡	W	F	F	C	B	B
	BR	C	C	F	F	F
Strap from H of Net.	BK	A	A	A	¶	¶

**Note 1:** Sets are factory-wired for bridged service.

**Note 2:** Refer to paragraph 2.01.

\* For all classes of service except individual or bridged replace 623P4 with a 623P6 jack assembly and connect as shown above. Refer to paragraph 2.01.

† To silence ringer for all classes of service, refer to the appropriate ringer section in Division 501.

‡ This change does not apply to sets equipped with a polarity guard.

§ Terminal in lamp terminal block.

¶ Insulated and stored.

◆ TABLE E ◆

## POLARITY GUARD CONNECTIONS (SEE NOTE)

RINGER	POLARITY GUARD	WIRE OR LEAD	COLOR	REMOVE FROM NET.	CONNECT TO	
					NET.	POLARITY GUARD
M-type Ringer	D-181063 Kit of Parts	Line Switch*	W	F		T
			BR	C		S
		Polarity Guard	G		F	
			W		C	
	D-180229(MD) Kit of Parts	Dial	BK	RR		3†
		Line Switch*	BR	C		4†
		Polarity Guard	R			3†
			BK			4††
			G		RR	
			W		C	
P-type Ringer	D-180896 Kit of Parts	Line Switch*	W	F		T
			BR	C		S
		Polarity Guard	G		F	
			W		C	

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

\* On sets modified for use with 1A1 or 1A2 KTS, connect the (BR) line switch lead as shown on Table F.

† Terminals 3 and 4 are on terminal board which is part of D-180229 (MD) Kit of Parts.

‡ Connect to L2 of network when associated with 1A1 or 1A2 KTS.



TABLE F

**2702B (MD), 2702BM, OR 2702BMG TELEPHONE SET MODIFICATION  
FOR USE WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEM (SEE NOTE)**

WIRE OR LEAD	COLOR	REMOVE FROM NET.	CONNECT TO	
			NET.	TERM. BLOCK
Line Switch	BR	C†		3§
	Y	L2	G	
	S	A	Insulate or store on Spare Term.	
	BR-W	G‡	C	
	S-W	G‡	L2	
Ringer*	BK	G	L1	

**Note:** Refer to paragraph 2.01.

\* Sets equipped with D5AK mounting cord.

† If set is equipped with a D-180229 (MD) Kit of Parts (polarity guard), this lead is terminated on terminal 4 of terminal board which is part of the kit of parts. If set is equipped with a D-180896 at D-181063 Kit of Parts (polarity guard), this lead is terminated on polarity guard terminal S.

‡ If set does not have (BR-W) and (S-W) leads: place M1W cord or equivalent between network terminals L2 and C of 2702B and 2702BM sets. If set is equipped with a D-180229 (MD) Kit of Parts (polarity guard), place strap between L2 and terminal 4 of terminal board which is part of the kit of parts. If set is equipped with D-180896 or D-181063 Kit of Parts (polarity guard), place strap between L2 and polarity guard terminal S.

§ S of network (2702BM or 2702BMG equipped with 4228-type network) or connect (BR) line switch lead and (W) 623P6 jack lead to same D-161448 connector (2702BM or 2702BMG equipped with a 4010-type network).

