

REFERENCE

2500- AND 2554-TYPE TELEPHONE SETS

IDENTIFICATION, INSTALLATION, MAINTENANCE, AND CONNECTIONS

1. GENERAL

1.01 This section contains information for the 2500- and 2554-type general purpose telephone sets (Fig. 1).

1.02 The reason for reissuing this section is to add the 2554BMPA and Z2554BMPGA telephone sets. Revision arrows are used to emphasize the more significant changes.

2. IDENTIFICATION AND INSTALLATION

A. Purpose

2.01 These general purpose desk- and wall-type telephone sets are furnished with a 12-button TOUCH-TONE* telephone dial.

B. Ordering Guide (Refer to Tables A and B)

2.02 Order basic telephone sets as follows:

- Set, Telephone, 2500DM- (refer to Table A for color) (modular, 35-type dial)
- Set, Telephone, 2500DMG- (refer to Table A for color) (modular, 35-type dial and polarity guard or 72-type dial with built-in polarity guard)
- Set, Telephone, 2554BMP- (refer to Table A for color) (modular, portable, 35-type dial)
- Set, Telephone, 2554BMPG- (refer to Table A for color) (modular, portable, 35-type dial and polarity guard or 72-type dial with built-in polarity guard)
- ♦Set, Telephone, 2554BMPA (refer to Table A for color) (modular, portable, 35-type or 72-type dial, A-lead control)♦

- ♦Set, Telephone, Z2554BMPGA (refer to Table A for color) (modular, portable, Z72JG3A dial, A-lead control).♦

2.03 Sets coded with the letter **G** are equipped with a 840364202 polarity guard and 35-type dial or 72-type dial with built-in polarity guard. A feature that is recognizable to the user of the 72-type dial is the "feel" of the short travel button which operates a click disc switch similar to that used on many calculators.

2.04 ♦The 2500DM, 2500DMG, 2554BMP, and 2554BMPG telephone sets **not** marked "1-PTY" are adaptable for all classes of line and ringer connections. The 2554BMPA and Z2554BMPGA telephone sets are for single party and A-lead control. The 2500DM, 2500DMG, 2554BMP, or 2554BMPG telephone sets marked "1-PTY" cannot be used for multiparty service connections; if service other than individual or bridged ringing is required, a 2500D2M, 2500D2MG, 2554B2P, or 2554B2PG telephone set base, housing, and handset must be ordered separately.♦

2.05 Associated with the production of "1-PTY" telephone sets are changes in the ringer, line switch, network, and jack or plug. These changes were not necessarily introduced simultaneously and therefore sets marked "1-PTY" may have only one or more of the planned changes. Figure 28 is a partial schematic showing the connections when all the changes are incorporated. For sets with less than all the changes, refer to the following paragraphs for each new component.

- (a) The 623D2 mounting cord jack replaces the 623D3 (2500DM, 2500DMG) and the 523A2C plug replaces the 523A3 (2554BMPG). The (G) lead of the jack or plug terminates on L1 of network and (R) lead on A of network. The (Y) lead has been removed from 623D2 jack and 523A2C plug.
- (b) The two-lead C4C ringer replaces the C4A (2500DM, 2500DMG) and the two-lead P1D

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NOTICE

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2554-TYPE
TELEPHONE
SET2500-TYPE
TELEPHONE
SET**Fig. 1—2500- and 2554-Type Telephone Sets**

ringer replaces the P1A or P3A (2554BMPG). The (BK) lead terminates on L1 of network and (R) on K of network. The (S) and (S-R) ringer leads have been removed from the C4C and P1D ringers.

(c) The 843767104 line switch replaces the 812162956 (2500DM, 2500DMG), contact "a" and (S) lead have been removed. Contact "b" (Y) lead terminates on A of network. The 842620684 line switch replaces the 842620676 (2554BMPG). Contact "a" and (S) lead have been removed; also contact "d", "e" and two (BL) leads have been removed. The (BR) line switch lead at contact "c"

terminates on C of network, terminal S on polarity guard, or terminal D on 72-type dial.

(d) The 4293-type network replaces the 4228-type manufacture discontinued (MD) network. Screw terminal "G" and "L2" have been removed, also 824618227 (BK) strap lead has been removed from terminal A of network.

2.06 The 2554BMPA telephone set is the same as the 2554BMPG except as follows.

(a) Wired for 1A1 and 1A2 key systems (Fig. 29).

TABLE A
COLOR ORDERING GUIDE

CONN BLOCK COLOR	TEL SET, CORD, HOUSING, HANDSET COLOR	COORDINATED FACEPLATE COLOR
Lt. Olive Gray -49	Black -03	Charcoal -70
Ivory -50	Ivory -50	Muted Ivory -80
Brown* -54	Moss Green -51	Lt Green -71
	Red -53	Muted Red -69
	Pastel Yellow -56	Lt Yellow -72
	White -58	Lt Gray -73
	Lt Beige -60	Muted Beige -75
	Aqua Blue -62	Muted Blue -76

* Only the 625F connecting block is available in Brown (-54).

- (b) Has an H4DU-type cord (12-foot).
- (c) Has a KS-22916, List 5 label attached to the baseplate.
- (d) Has three KS-22914 labels (one shipped loose with the telephone set, one attached to the outside of the individual carton, and one attached to the baseplate).
- (e) Has a 523A4 plug.
- (f) Has a 35Y3D dial.
- (g) Has a 842620684 switch and lead assembly.
- (h) Has a P1B ringer.
- (i) Has a 4228B (MD), 4293G, or 4293P network.♦

2.07 ♦The Z2554BMPGA telephone set is the same as the 2554BMPA except it has a Z72JG3A dial (Fig. 30).♦ The following components can be assembled to provide a modular (desk or wall) telephone set (Fig. 2 or 3).

Note: A modular desk telephone set is the same as a standard desk set except the telephone set base and handset are jack equipped to accept a plug-ended handset and mounting cord. A modular wall telephone set is the same as a standard wall set except the telephone set base and handset are jack equipped to accept a plug-ended handset cord only.

- (a) Telephone set bases are as follows:
 - (1) 2500D2M (Fig. 2) and 2500D2MG TOUCH-TONE telephone desk set base

Note: The 2500D2MG base contains the same components as the 2500D2M base plus the 840364202 polarity guard. Later model 2500D2MG bases will be equipped with a 72-type dial.

- (2) 2554B2M (MD) TOUCH-TONE telephone wall set base.
- (b) Housing assemblies (notched to clear jacks) are as follows:
 - (1) 2500D2 Housing [includes old type nonflexible (Fig. 2) or new type flexible (Fig. 4) faceplate]
 - (2) 2554B2 Housing.
- (c) Handset is G15A- (refer to Table A for color) handset (accepts H4DU- [refer to Table A for color] cords).
- (d) Cords are as follows:
 - (1) H4DU- (refer to Table A for color) handset cords for G15A- (refer to Table A for color) available in standard (approximately 6 feet) and long (approximately 12 feet) lengths; plugs on both ends
 - (2) D4BU-29 mounting cord, (desk set only) transparent jacketed, available in standard (approximately 7 feet), long (approximately 14 feet), and extra long (approximately 25 feet) lengths, plug on both ends.

2.08 The following components can be assembled to provide a portable modular (wall) telephone set (Fig. 3).

TABLE B4

TELEPHONE SET COMPONENTS

TEL SET (NOTE 1)	TEL SET BASE	HOUSING (NOTE 1)	HAND- SET (NOTE 1)	HANDSET CORD (NOTE 1)	MTG CORD (NOTE 1)	HANDSET JACK	MTG CORD JACK	DIAL	RING- ER	FACEPLATE ASSY (NOTES 1 AND 2)	CARD RETAINER	GUARD ASSY
2500D (MD)		840181036	G3-Type	H4CJ	D3BN or D4BT				C4A	818645707 818645806 818645715 818645699 818645723 818645731 818645757 818645764		D-180896
		840181507										
		840181515										
		840181531										
2500DM (MD)	2500D2M	840181564	G15A	H4DU†	D4BU†	616D	623D3 or 623D4	35A3A, 35Y3A, 35Y3D, or 72-type			812558039	840364202
		840181580										
2554B (MD)	2500D2MG	840181606	G3-Type	H4CJ					P1A or P3A			D-180896
		840181622										
		2500D2*										
		101935567										
		101935575										
		101935583										
		101935591										
		101935609										
		101935617										
		101935633										
		101935658										

See notes and footnotes at end of table.

TABLE B4 (Contd)

TELEPHONE SET COMPONENTS

TEL SET (NOTE 1)	TEL SET BASE	HOUSING (NOTE 1)	HAND- SET (NOTE 1)	HANDSET CORD (NOTE 1)	MTG CORD (NOTE 1)	HANDSET JACK	MTG CORD JACK	DIAL	RING- ER	FACEPLATE ASSY (NOTES 1 AND 2)	CARD RETAINER	GUARD ASSY
2554BM (MD)	2554B2M							35A3A, 35Y3A, 35Y3D, or 72-type	P1A or P3A		812558039	D-180896
2554BMP†§	2554B2P†§	2554B2	G15A	H4DU†		616B		35Y3D	P1B			840364202**
2554BMPG								Z72JG3A¶				
2554BMPPA	2554B2PG											
Z2554BMPPGA												

Note 1: Refer to Table A for color selection

Note 2: Includes 812558039 card retainer.

* Includes faceplate.

† Handset and mounting cords for modular telephone sets must be ordered separately. The D4BU mounting cord is available in transparent (-29) only.

‡ Includes 523A plug assembly.

§ 2554BMP telephone sets and 2554B2P telephone set bases may include either a fixed installation design telephone set base to which is attached a 229A adapter (auxiliary basepan) with a 523 plug, or a newer design base without the adapter, with a 523A plug directly installed.

¶ When Z2554BMPPGA set is used with toll restriction, strap on Z72JG3A dial must be cut.

** Furnished only when set is equipped with 35-type dial.

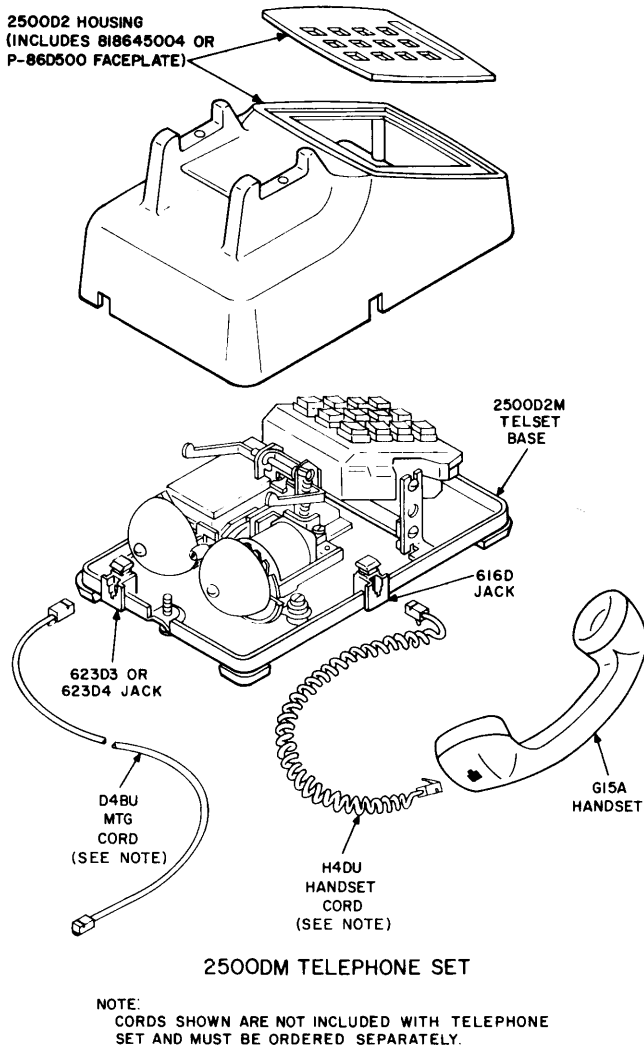


Fig. 2—2500DM Telephone Set, Assembly

Note: A portable modular wall telephone set is the same as the modular wall set except it is equipped with a 523A-type plug which plugs into a 630A4 connecting block.

- (a) **Telephone Set Bases:** 2554B2P and 2554B2PG TOUCH-TONE telephone (wall) set base.

Note: The 2554B2PG base contains the same components as the 2554B2P base plus the

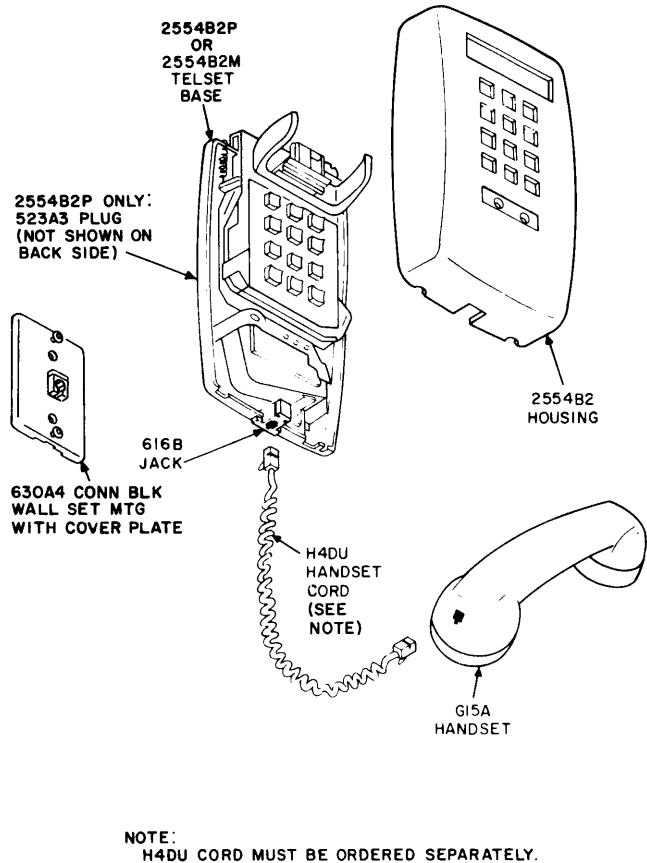


Fig. 3—2554-Type, Modular, Portable Telephone Set Assembly

840364202 polarity guard. Later model 2554B2PG bases will be equipped with a 72-type dial with built-in polarity guard.

- (b) **Housing Assemblies:** (notched to clear handset jack) 2554B2 housing.
- (c) **Handsets:** G15A- (refer to Table A for color) handset, (accepts H4DU- [refer to Table A for color] cords).
- (d) **Cords:** H4DU- (refer to Table A for color) handset cords for G15A- (refer to Table A for color) available in standard (approximately 6 feet) and long (approximately 12 feet) lengths, plug on both ends.

2.09 Associated apparatus is as follows.

- (a) Connecting blocks are as follows:



Fig. 4—Installing Flexible Snap-In Faceplate

- 625A- (refer to Table A for color) surface mounted for new installations (accepts D4BU mounting cord)
 - 625C- (refer to Table A for color) same as 625A, less the 42A connecting block
 - 625F- (refer to Table A for color) flush-mounted for new installations, replaces existing 548A jack
 - 630A4 plug-in portable modular wall set mounting.
- (b) Backboard 191C backboard (replaces the 182B and 191B backboards).

C. Design Features and Application

- 2.10** The 2500- and 2554-type telephone sets are general purpose desk- and wall-type sets, respectively, for use in PBX, individual and party line service, and special service connections. Refer to paragraph 2.04.
- 2.11** Modular wall telephone sets may be converted to portable modular wall telephone sets by installing a 523A-type plug into the set base pan, or a 229B adapter with 523A-type plug.



When a 523A-type plug is used with the 229B adapter, care must be taken to prevent shorting or grounding the plug leads. If the leads are dressed from the stayhook directly through the base pan they are exposed to a shearing action when the plug moves in the adapter slot. In order to eliminate this problem, a slack loop should be formed in the plug leads looping upward from the plug stayhook then down through the base pan slot. Refer to Fig. 5 for lead routing when the 229B adapter is provided.

- 2.12** Modular and portable modular telephone sets are available assembled (less cords) or as components.

D. Optional Features

- 2.13 End-to-End Signaling:** Refer to Table C for connections of polarity guard assembly in 2500D, 2500DM, 2554B, 2554BM, and 2554BMP sets if required. The D-180896 Kit of Parts is a direct replacement for the 819040528 (MD) polarity guard and D-180190 (MD) and D-180547 (MD) Kit of Parts. Guard location for the 2500-type set is shown in Fig. 6. Guard location for the 2554-type set is shown in Fig. 7.

Note: It may be necessary to redress existing leads to accommodate D-180896 Kit of Parts guard assembly.

- 2.14** The 2500DMG and 2554BMPG telephone sets are furnished equipped with a 35-type dial plus a polarity guard or a 72-type dial (equipped with a built-in polarity guard). Refer to Table L when a 72-type dial is used to replace a polarity guard and/or a 35-type dial in 2500DM, 2500DMG, 2554BMP, or 2554BMPG telephone sets.

3. MAINTENANCE

- 3.01** The 2554-type telephone set has been modified to prevent a potential line switch trouble condition by shorting the a-b line switch contacts. This modification consists of a (BK) strap placed between terminal A on the network and terminal 2 on the terminal strip with a set equipped with a 4010D network or between network terminals A and L2 on a set

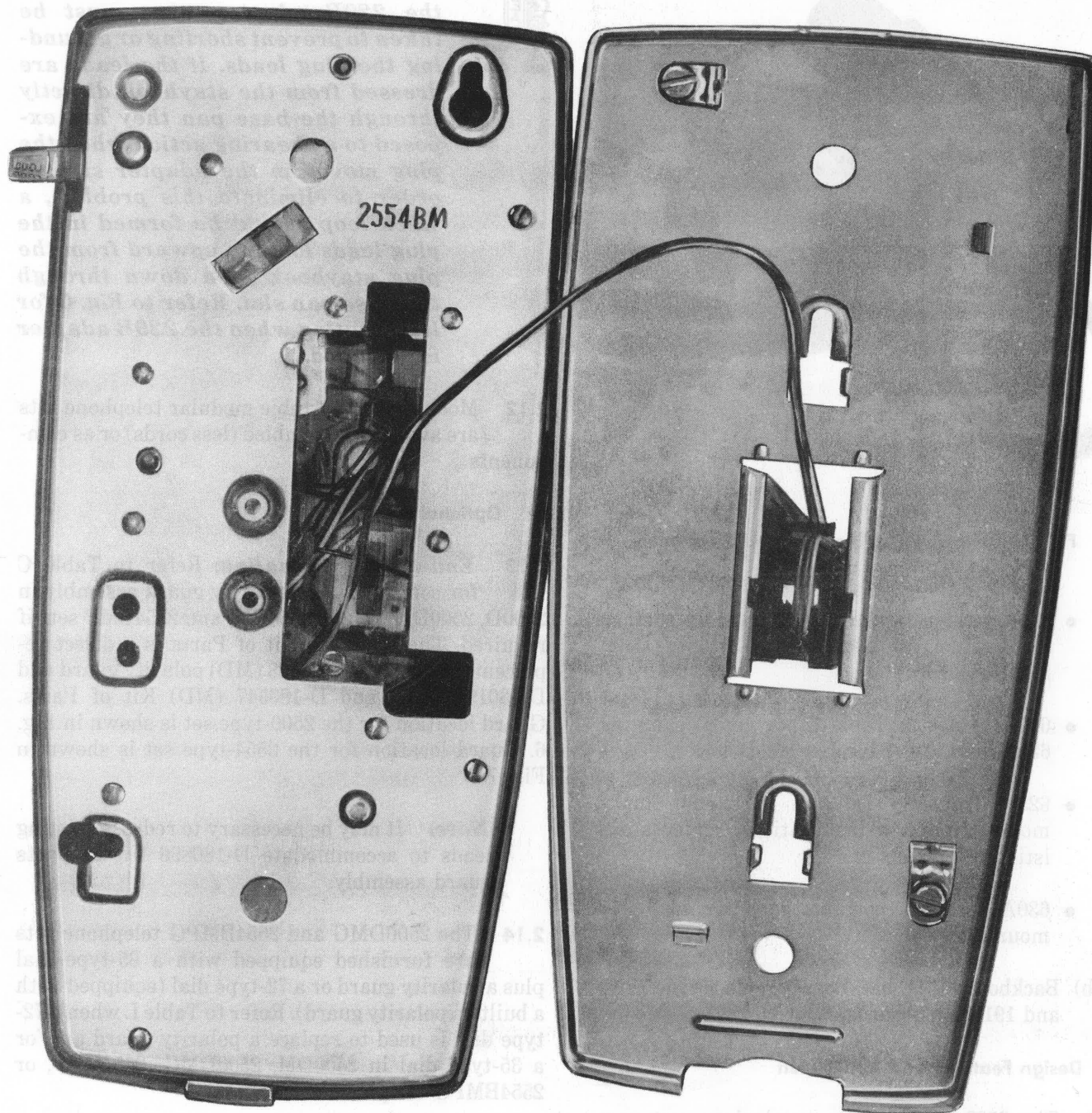


Fig. 5—229B Adapter With 523A-Type Plug, Showing Recommended Lead Routing

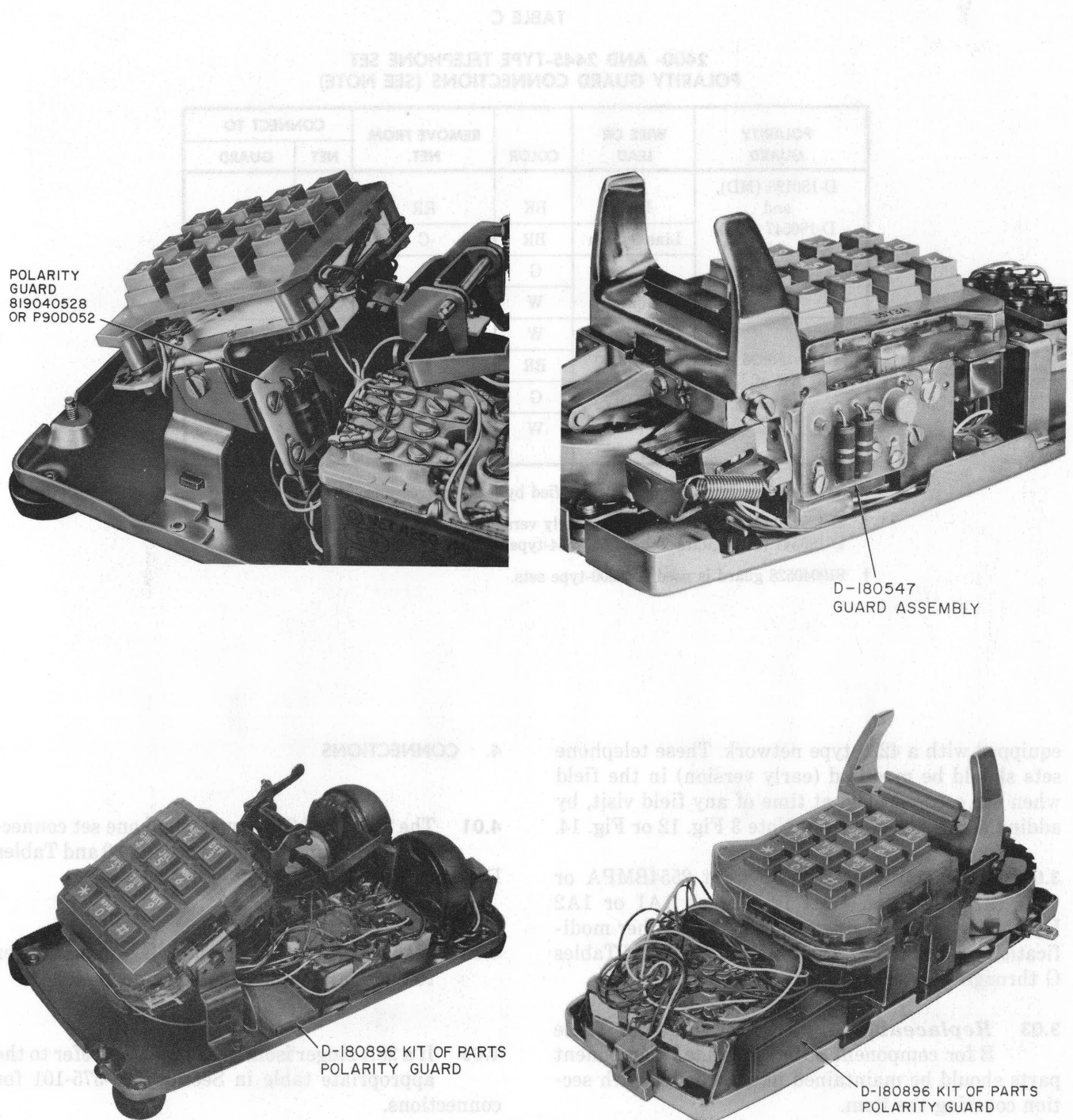


Fig. 6—Location of Polarity Guard in 2500-Type Telephone Set

Fig. 7—Location of Polarity Guard in 2554-Type Telephone Set

TABLE C

**2400- AND 2445-TYPE TELEPHONE SET
POLARITY GUARD CONNECTIONS (SEE NOTE)**

POLARITY GUARD	WIRE OR LEAD	COLOR	REMOVE FROM NET.	CONNECT TO	
				NET	GUARD
D-180190 (MD), and D-180547 (MD) Kits of Parts* and 819040528†	Dial	BK	RR		T
	Line Switch	BR	C		S
	Polarity Guard	G		RR	
		W		C	
D-180896 Kit of Parts	Line Switch	W	F		T
		BR	C		S
	Polarity Guard	G		F	
		W		C	

Note: For use with 35-type dial specified by local instructions.

* D-180190 (MD) guard is used on early version 2554-type telephone sets only.

D-180547 (MD) guard is used on 2554-type sets with plug-in type baseplates

† 819040528 guard is used on 2500-type sets.

equipped with a 4228-type network. These telephone sets should be modified (early version) in the field when the set is opened at time of any field visit, by adding a strap as shown in Note 3 Fig. 12 or Fig. 14.

3.02 When any 2554-type (except 2554BMPA or Z2554BMPGA) set is used on 1A1 or 1A2 KTS, move the (BK) strap together with other modifications shown in Fig. 17, 19, 21, 23, 25, 27 and Tables G through K.

3.03 **Replaceable Apparatus:** (Refer to Table B for component ordering guide.) Component parts should be maintained in accordance with section covering the item.

3.04 For common installation and maintenance information for these sets, including new snap-in faceplate, refer to Section 502-500-110.

3.05 For general information on modular telephone sets, refer to Section 503-100-100.

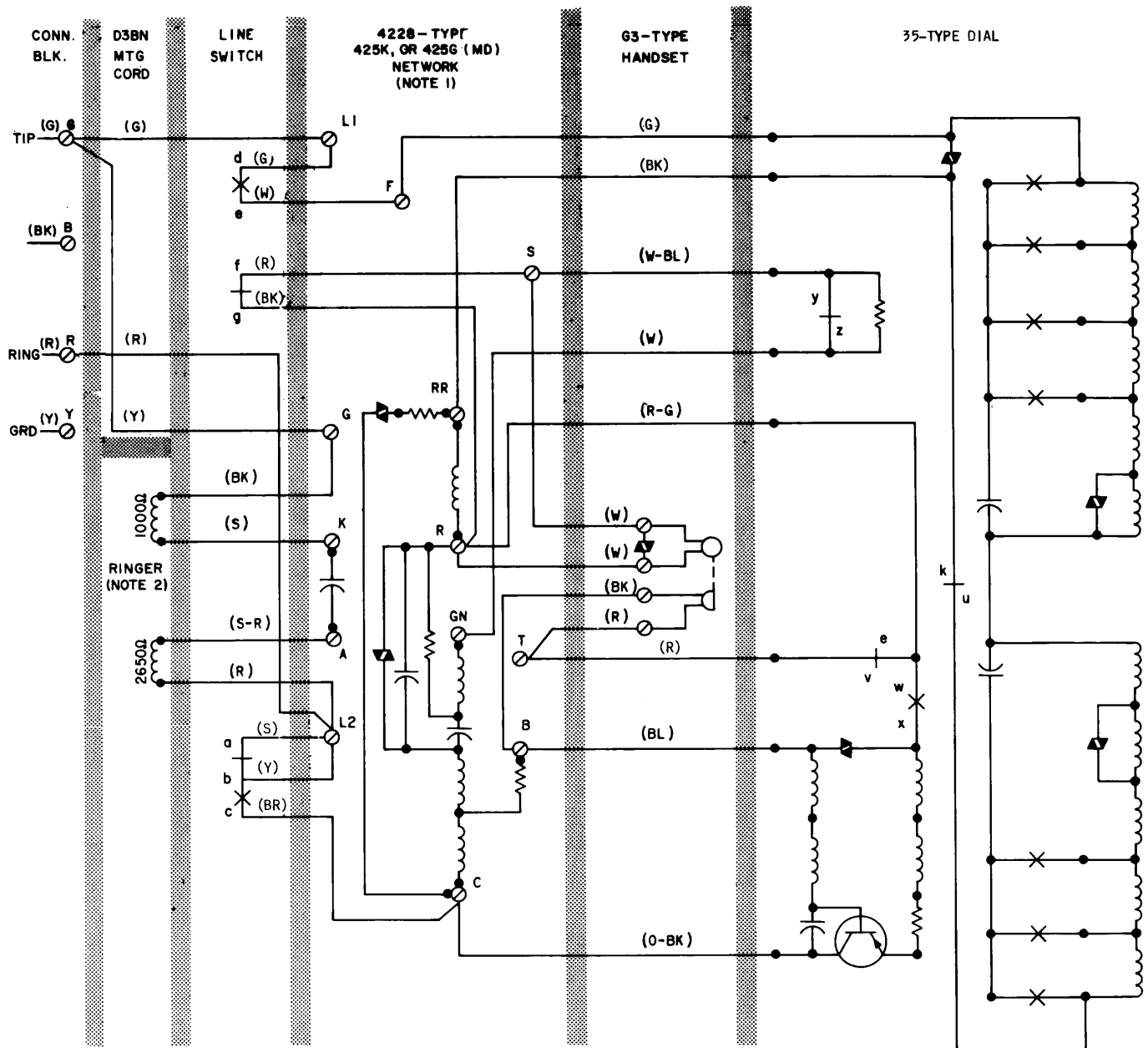
4. CONNECTIONS

4.01 The 2500- and 2554-type telephone set connections are found in Fig. 8 through 30 and Tables D through L.

4.02 If the 603A ringing extender is required, refer to Section 501-380-102 for connections.

4.03 If a 28A ringer isolator is required, refer to the appropriate table in Section 501-375-101 for connections.

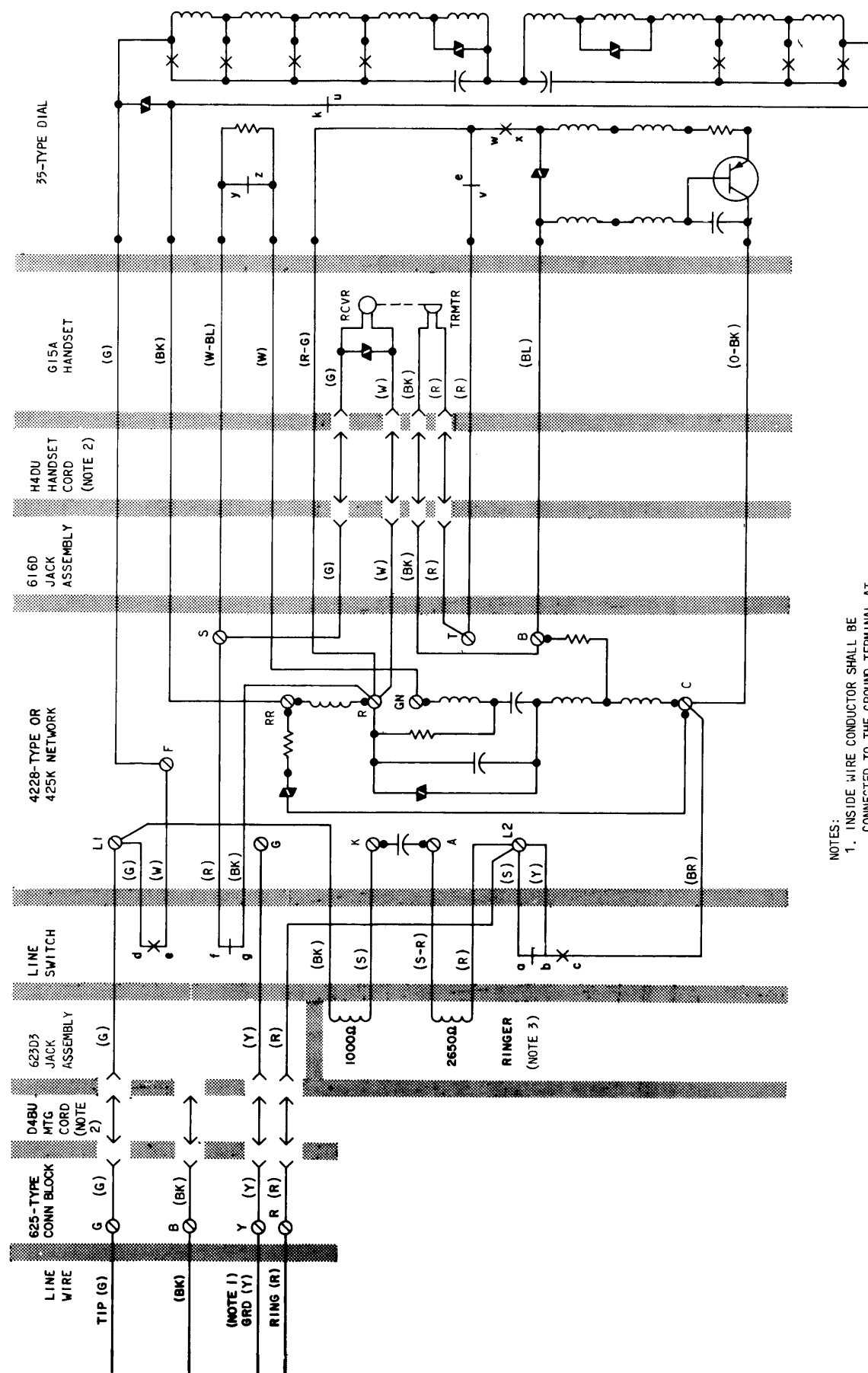
4.04 Whenever 4-party full selective or 8-party semiselective ringing is required for the 2500-type set using the 425A electron tube or the 2554-type set using D-180697 Kit of Parts (426N diode), refer to Section 501-320-100.



NOTES:

1. LEADS SHOWN CONNECTED AT TERMINALS S AND T ON 425K OR 4228B NETWORK, APPEAR ON TERMINALS 10 AND 11 RESPECTIVELY, ON THE TERMINAL STRIP IN SETS EQUIPPED WITH 425G (MD) NETWORK.
2. SET IS FACTORY WIRED FOR BRIDGED RINGING. SEE TABLE D FOR CLASSES OF SERVICE NOT SHOWN.

Fig. 8—2500D (MD) Telephone Set, Connections



NOTES:

1. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
2. H40U AND D40U COUS MUST BE ORDERED SEPARATELY.
3. SET IS FACTORY WIRED FOR BRIDGED RINGING. SEE TABLE D FOR CLASSES OF SERVICE NOT SHOWN.

Fig. 9—2500DM Telephone Set, Connections

TABLE D

**LINE AND RINGER CONNECTIONS FOR 2500D (MD) 2500DM,
OR 2500DMG TELEPHONE SET (REFER TO PARAGRAPH 2.03)**

WIRE OR LEAD		INDIV OR BRIDGED	RING PARTY	TIP PARTY		
				NO ID GROUND	ID GROUND	
					1000Ω	2650Ω
Line Wire at Conn Block	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	Y	Y	Y	Y	Y
	BK	B	B	B	B	B
Mtg Cord at Conn Block (2500D)	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	G	Y	Y	Y	Y
Mtg Cord in Set (2500D)	R	L2	L2	L2	L2	L2
	G	L1	L1	L1	L1	L1
	Y	G	G	G	G	G
Jack Conductors in Modular Set, 2500DM or 2500DMG only	R	L2	L2	L1	L1	L1
	G	L1	L1	L2	L2	L2
	Y	G	G	G	G	G
Line Switch Leads	S	L2	L2	L2	A	A
	W†	F	F	F	C	C
	BR†	C	C	C	F	F
Ringer Leads*	R	L2	L2	L2	K	B
	BK	‡	G	G	G	B
	S	K	K	K	B	K
	S-R	A	A	A	B	G

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

† This change for tip party does not apply to sets equipped with a 35-type dial and polarity guard or 72-type dial (2500DMG telephone sets).

‡ Terminal G for 2500D or terminal L1 for 2500DM or 2500DMG

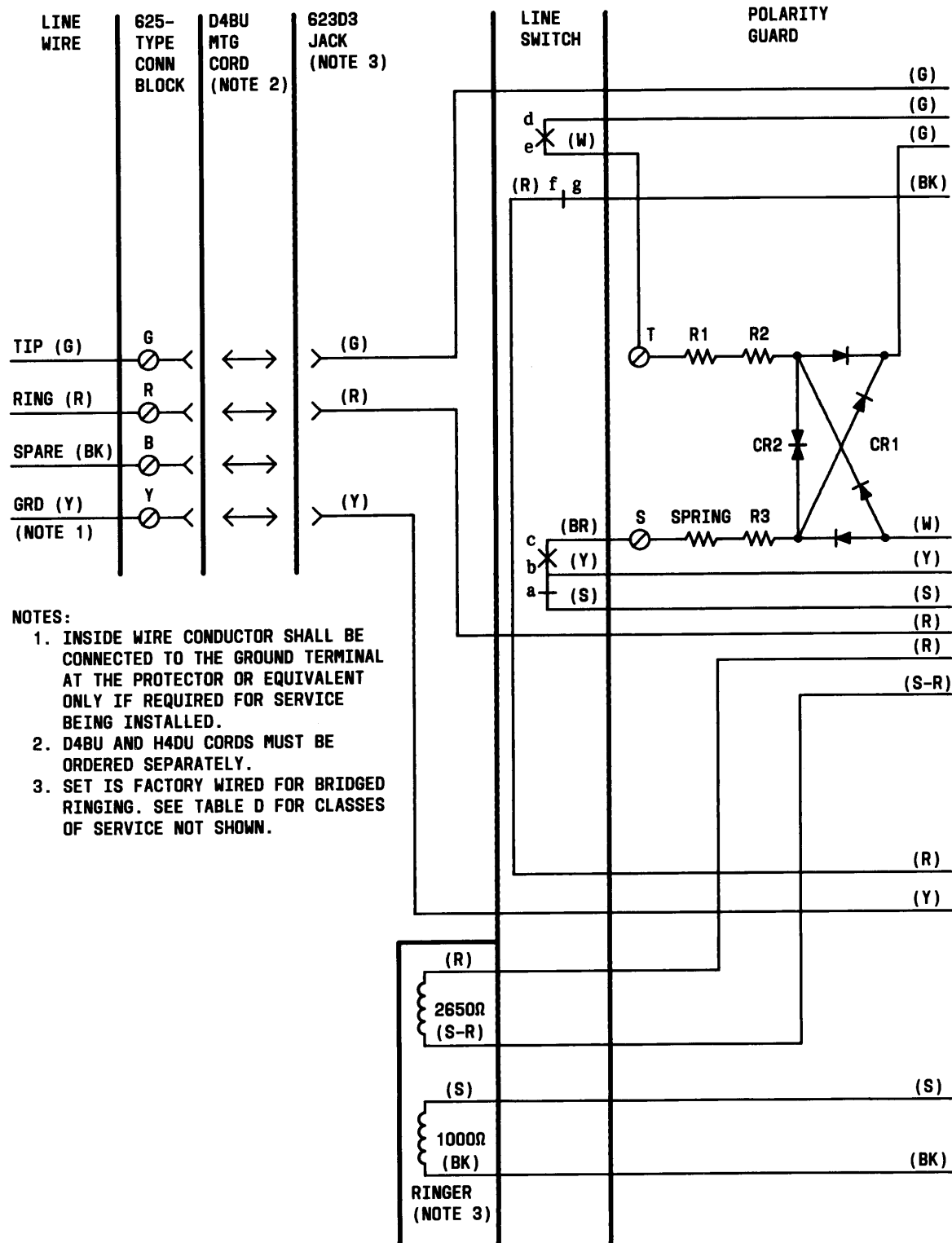


Fig. 10—2500DMG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network and 35-Type Dial, Connections (Sheet 1 of 2)†

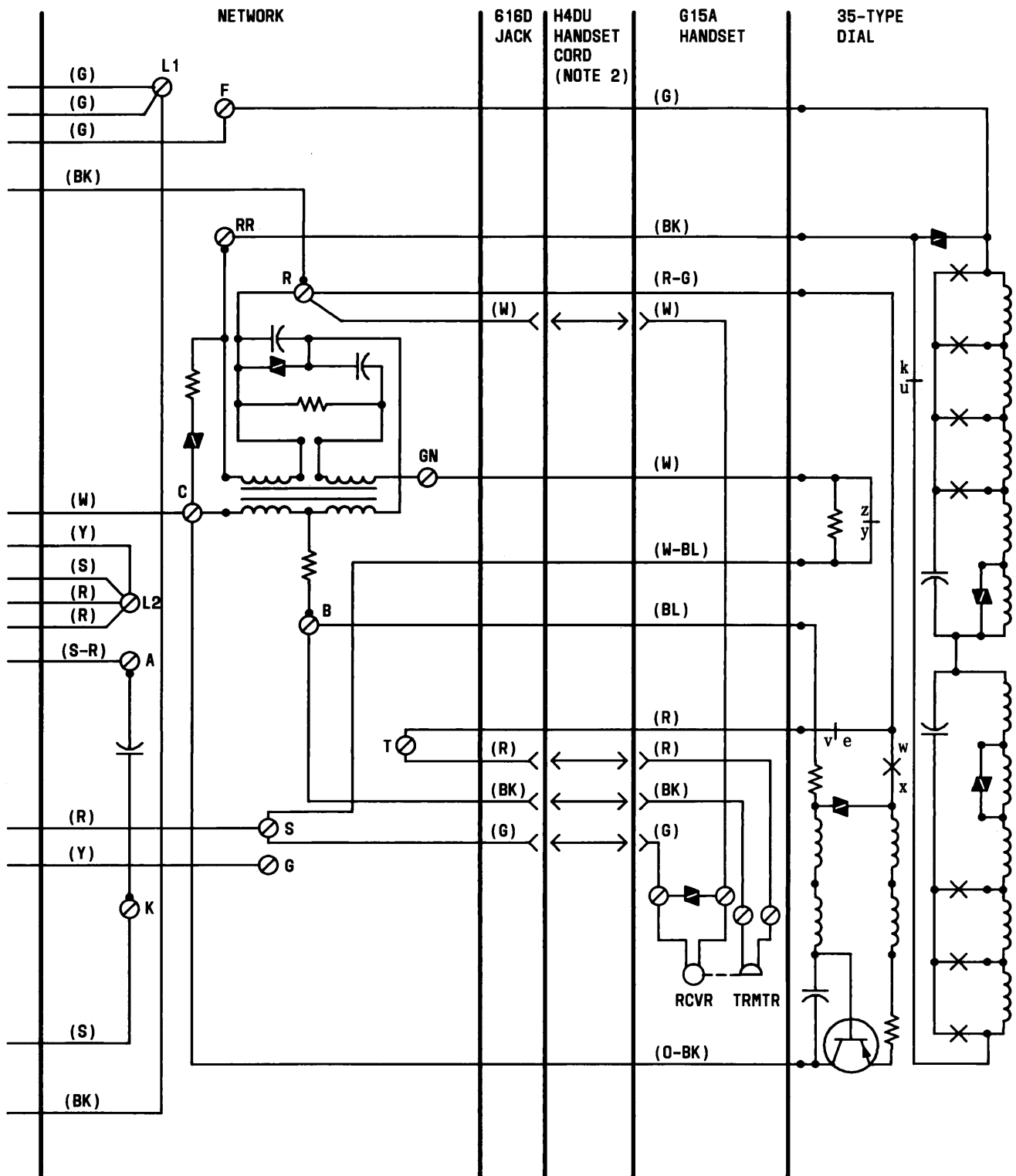
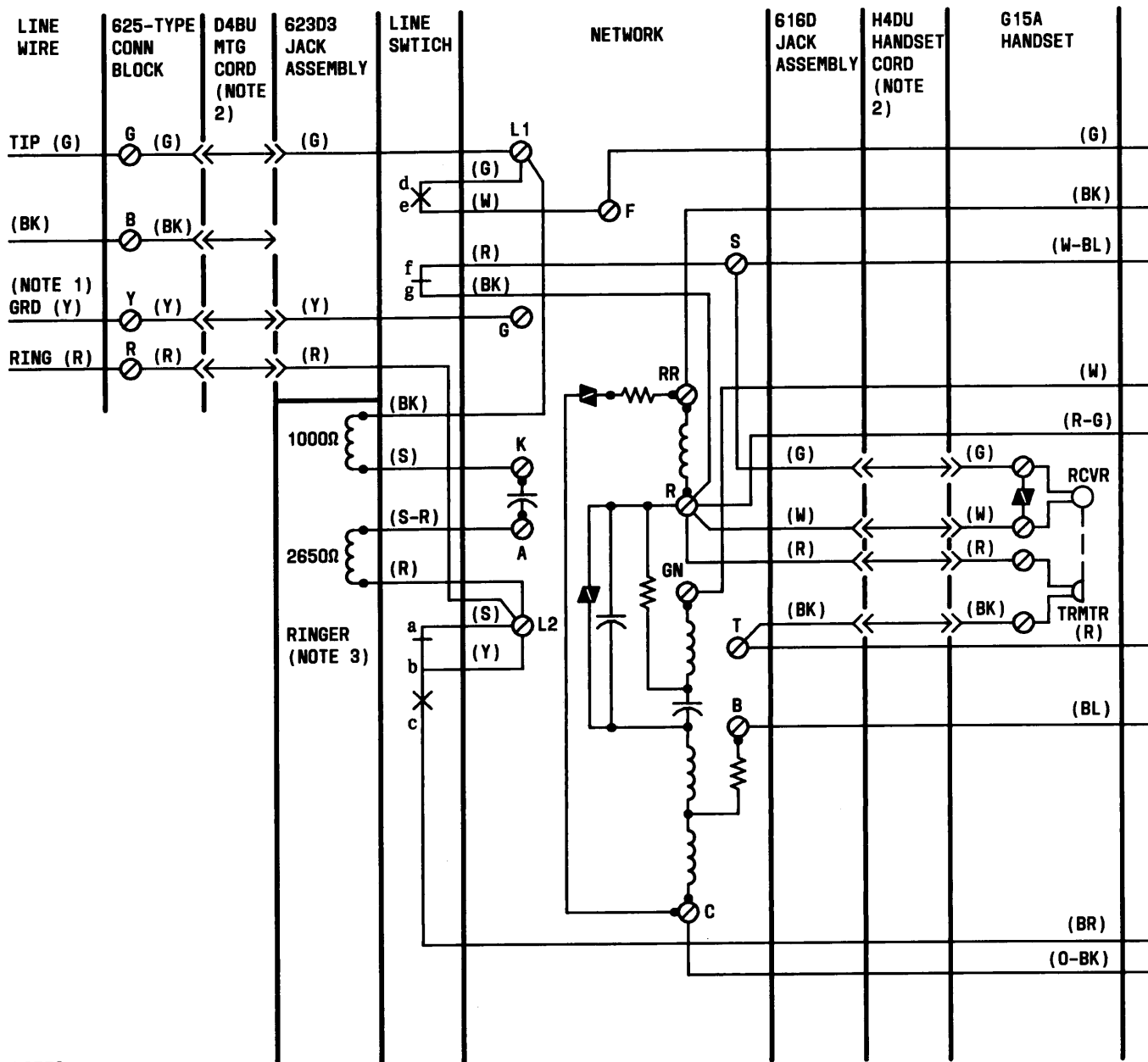


Fig. 10—2500DMG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P
Network and 35-Type Dial, Connections (Sheet 2 of 2)



NOTES:

1. LINE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
2. H4DU AND D4BU CORDS MUST BE ORDERED SEPARATELY.
3. SET IS FACTORY WIRED FOR BRIDGED RINGING. SEE TABLE D FOR CLASSES OF SERVICE NOT SHOWN.

Fig. 11—2500DMG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P
Network and 72-type Dial, Connections (Sheet 1 of 2)

72-TYPE DIAL

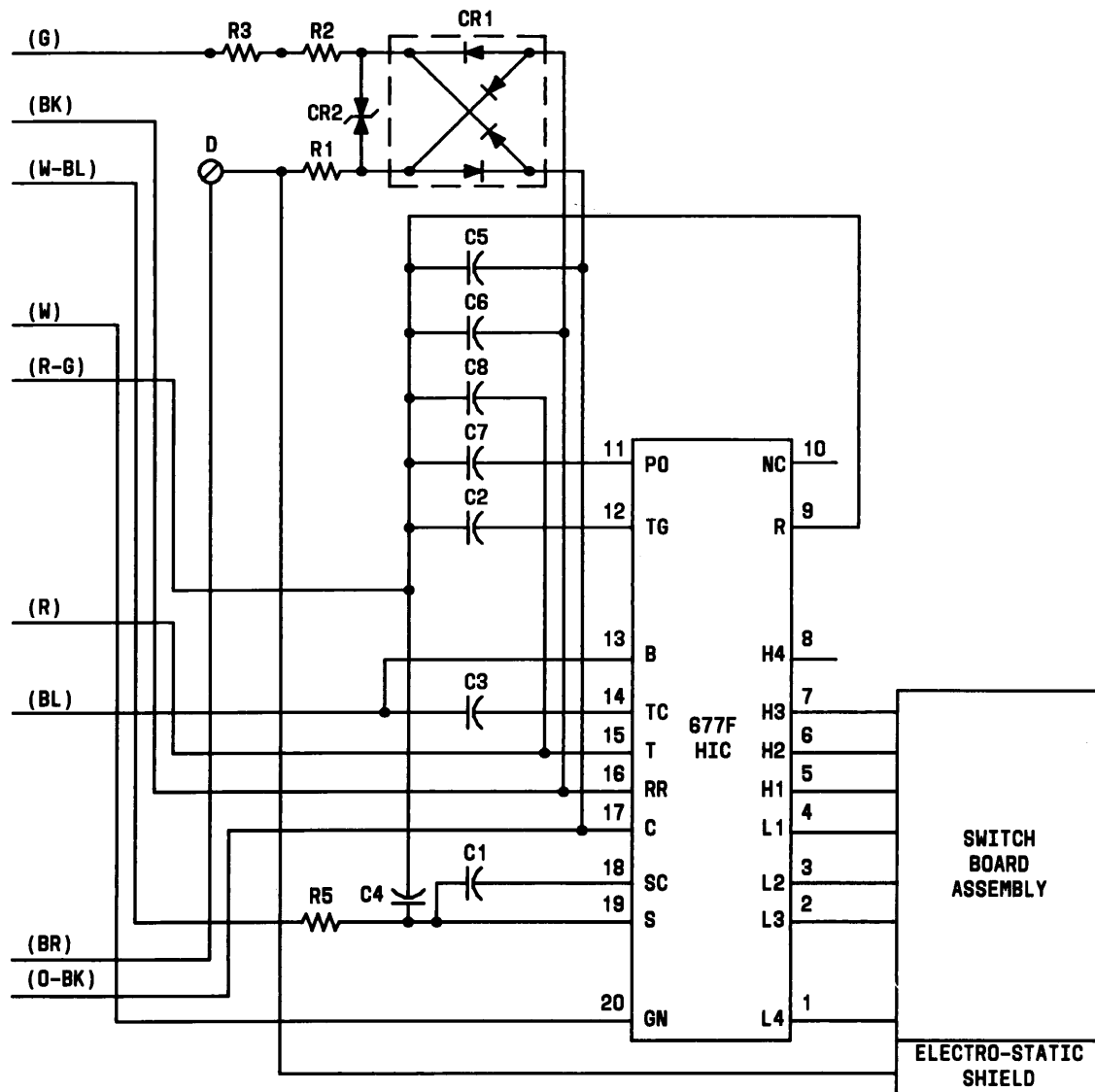
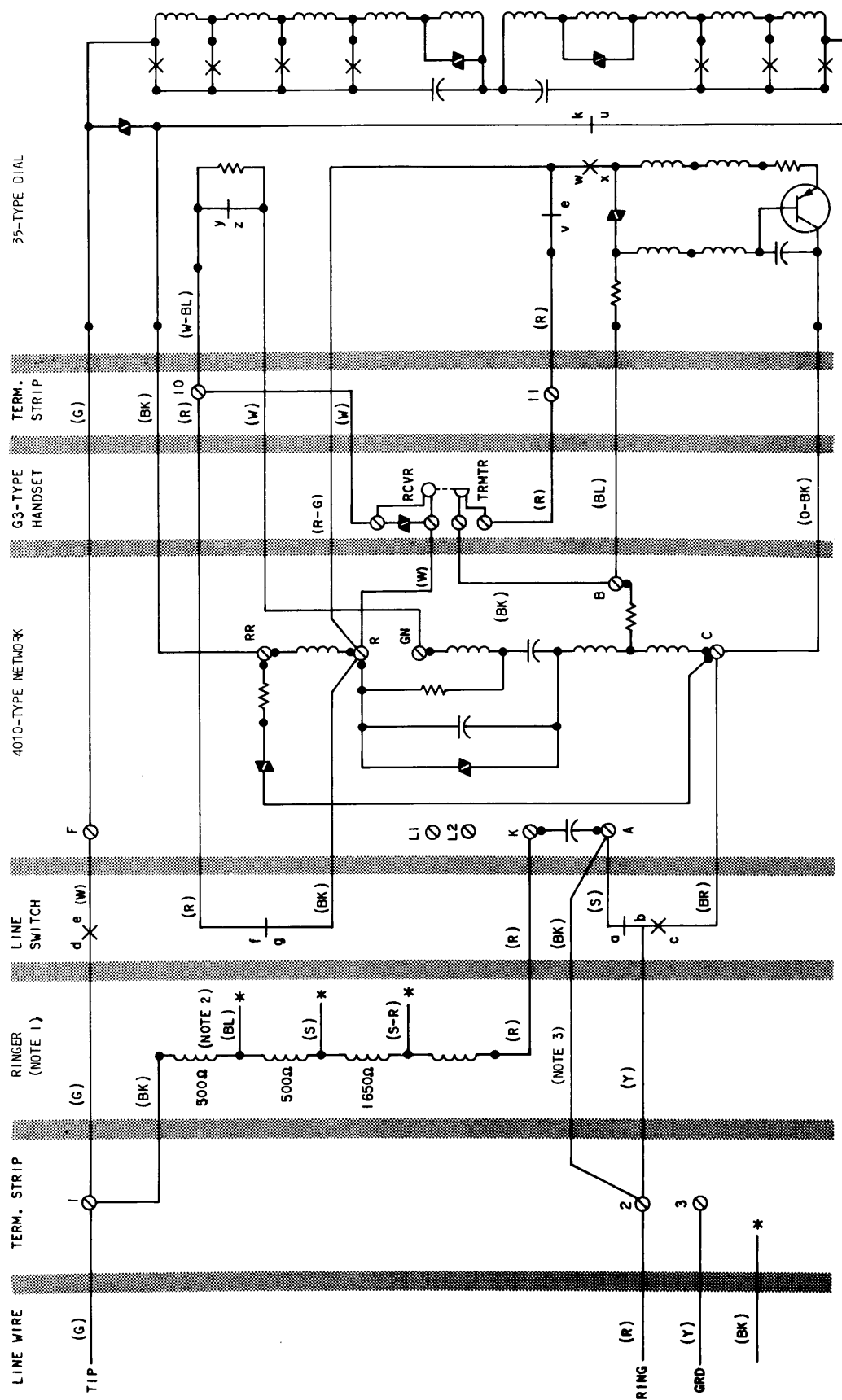


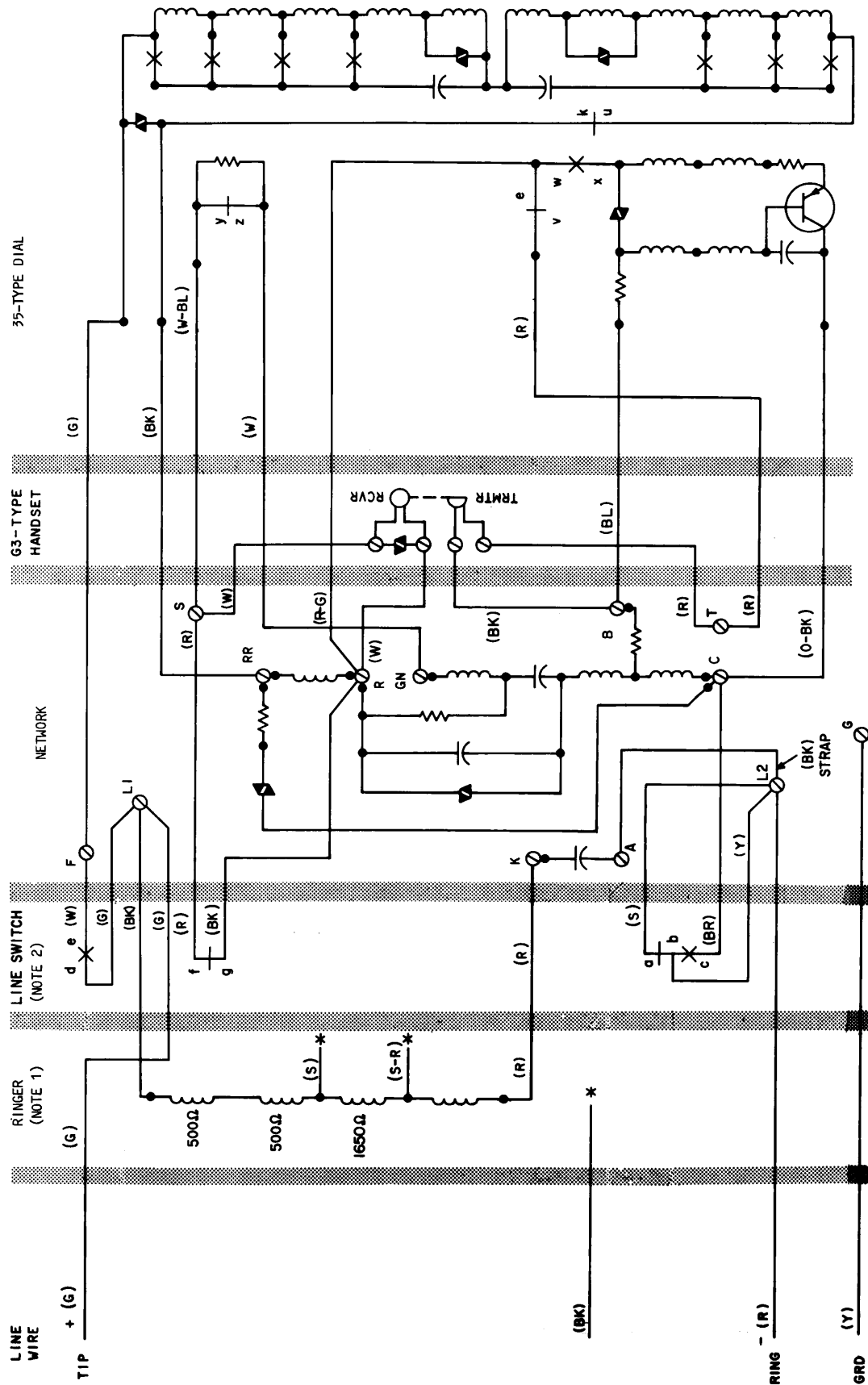
Fig. 11 — 2500DMG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network and 72-type Dial, Connections (Sheet 2 of 2)



NOTES:
 1. SET IS FACTORY WIRED FOR BRIDGED SERVICE.
 FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE E.

2. (BL) LEAD HAS BEEN REMOVED FROM
 LATER MODEL RINGERS.
 3. PLACE (BK) STRAP (EARLY VERSION).
 * INSULATED AND STORED

Fig. 12—2554B (MD) Telephone Set Equipped With 4010D Network, Connections

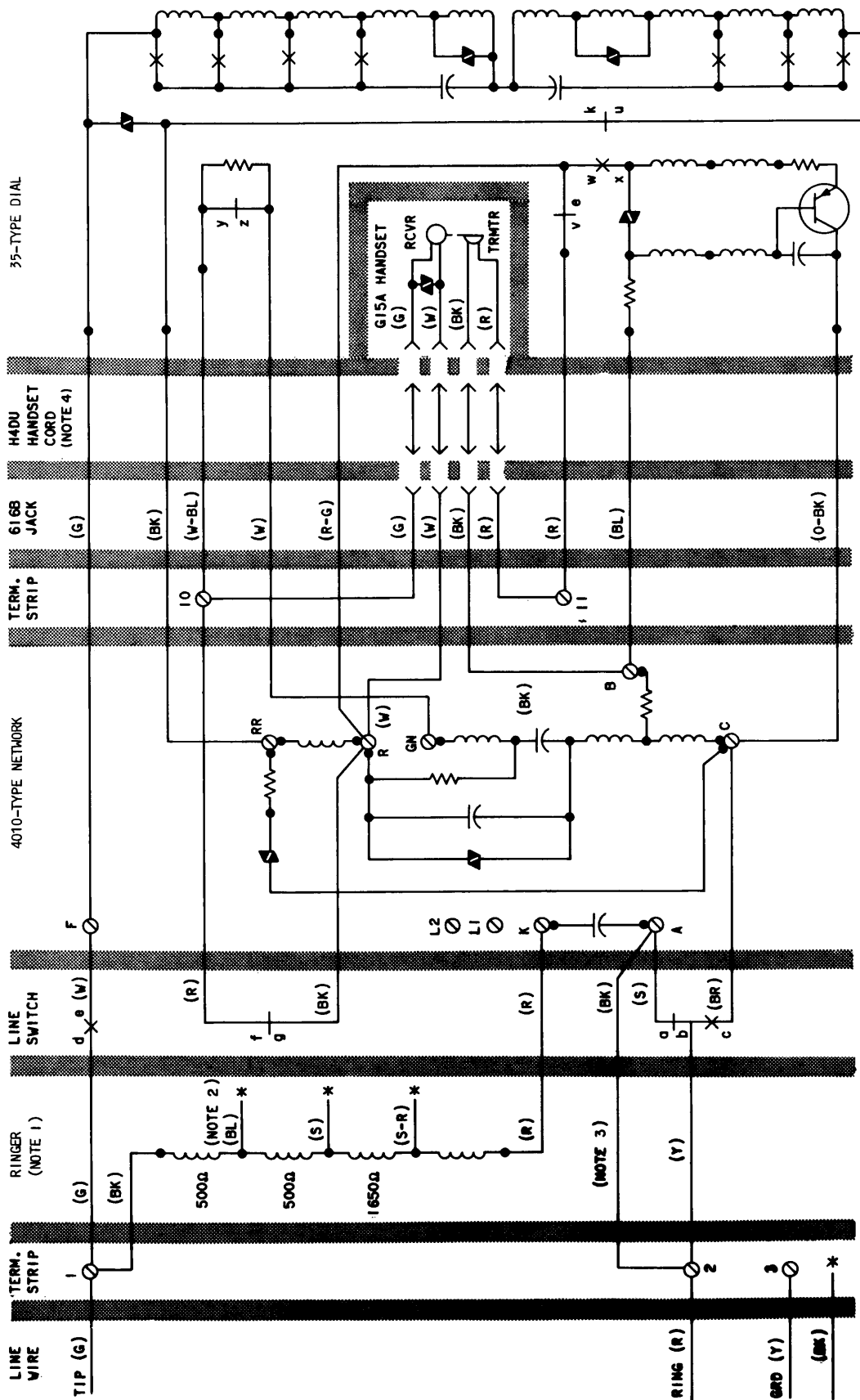


NOTES:

1. SET IS FACTORY WIRED FOR BRIDGED SERVICE. FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE F.
2. ON SOME SETS (S) LINE SWITCH LEAD IS CONNECTED TO A OF NETWORK.

* INSULATED AND STORED.

Fig. 13—4254B (MD) Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network, Connections



NOTES:
1. SET IS FACTORY WIRED FOR BRIDGED SERVICE.
FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE E.

2. (BL) LEAD HAS BEEN REMOVED FROM LATER MODEL RINGERS.
3. PLACE (BK) STRAP (EARLY VERSION).
4. H4DU CORD MUST BE ORDERED SEPARATELY.
* INSULATED AND STORED.

Fig. 14—2554BM (MD) Telephone Set Equipped With 4010D Network, Connections

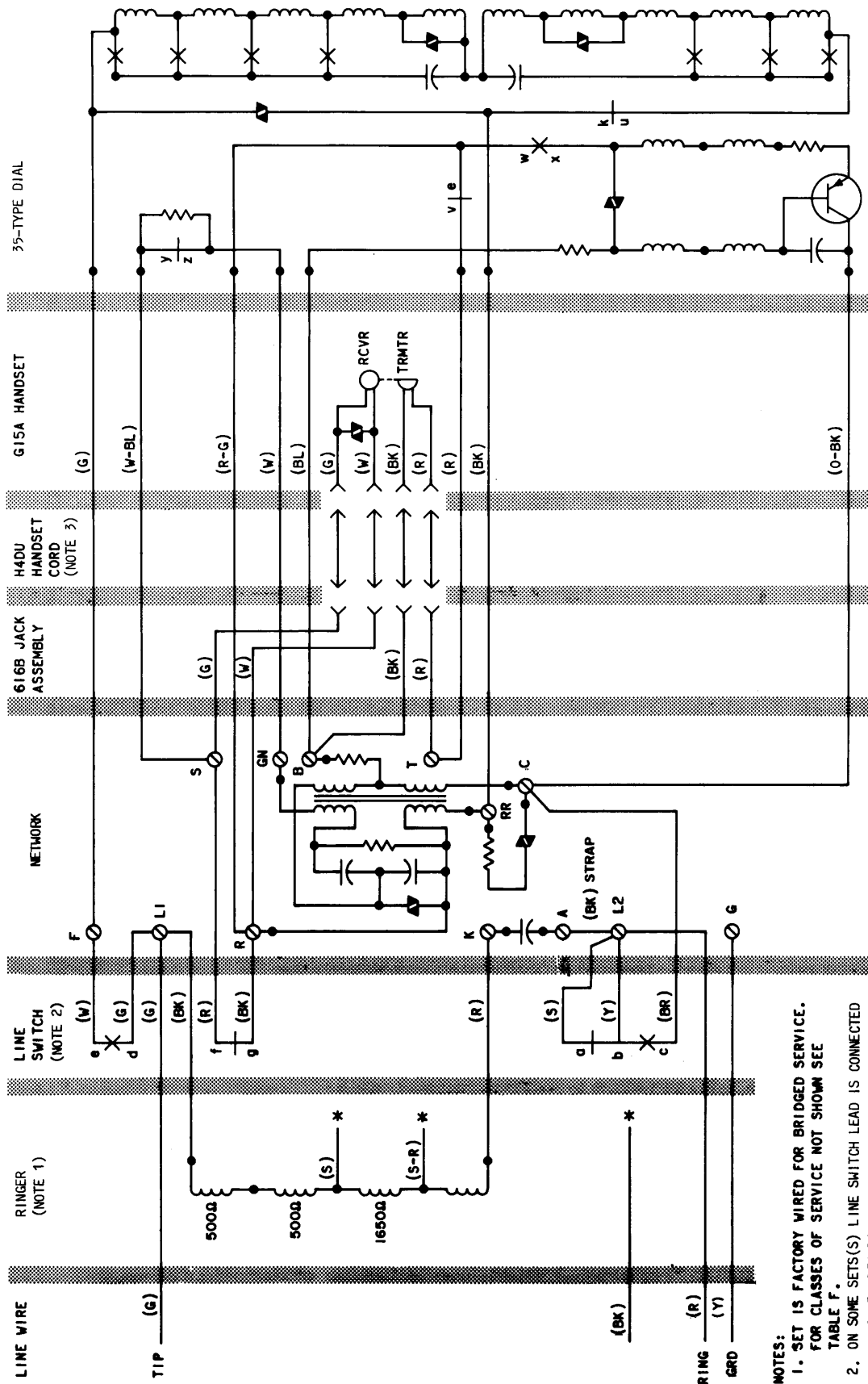
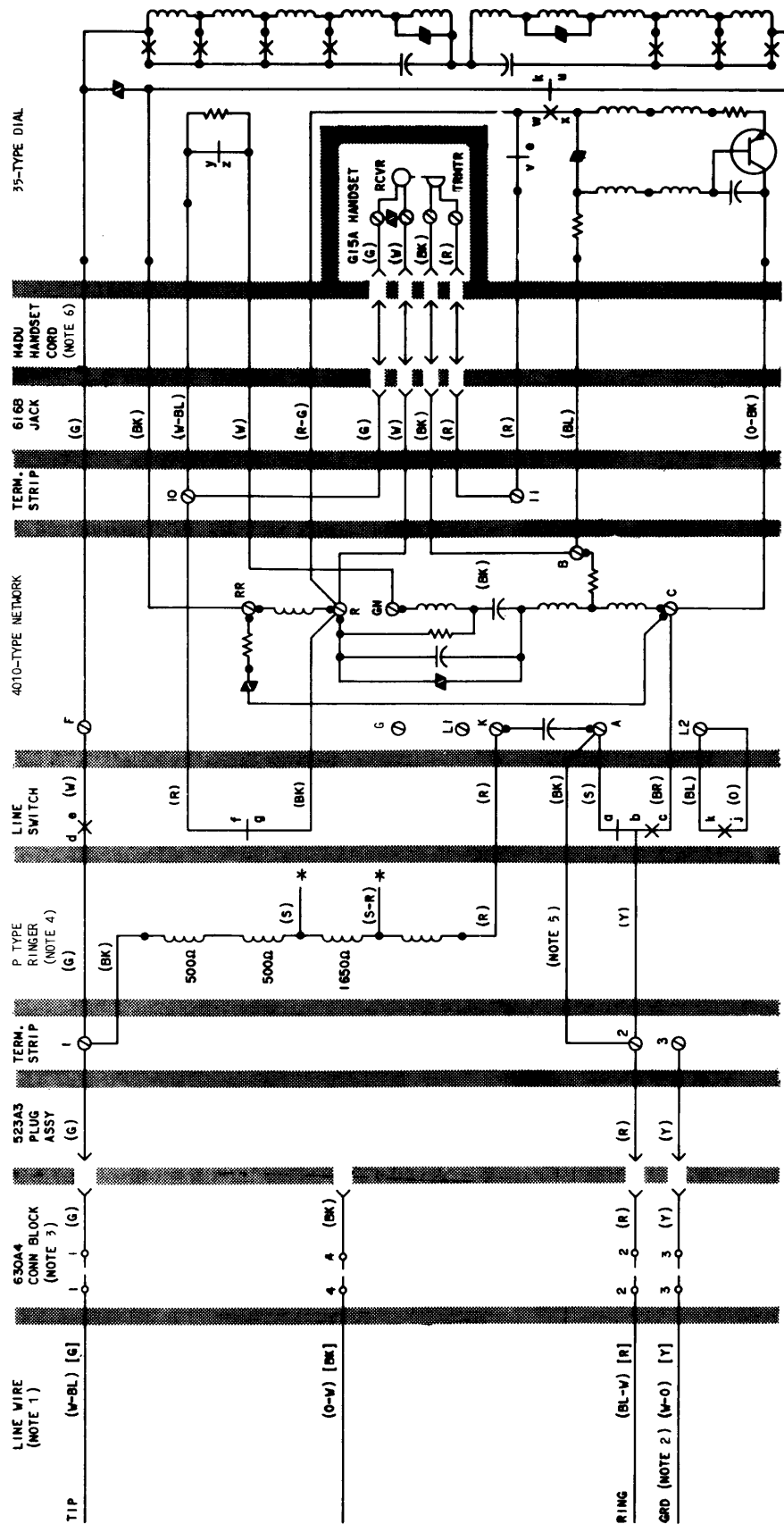


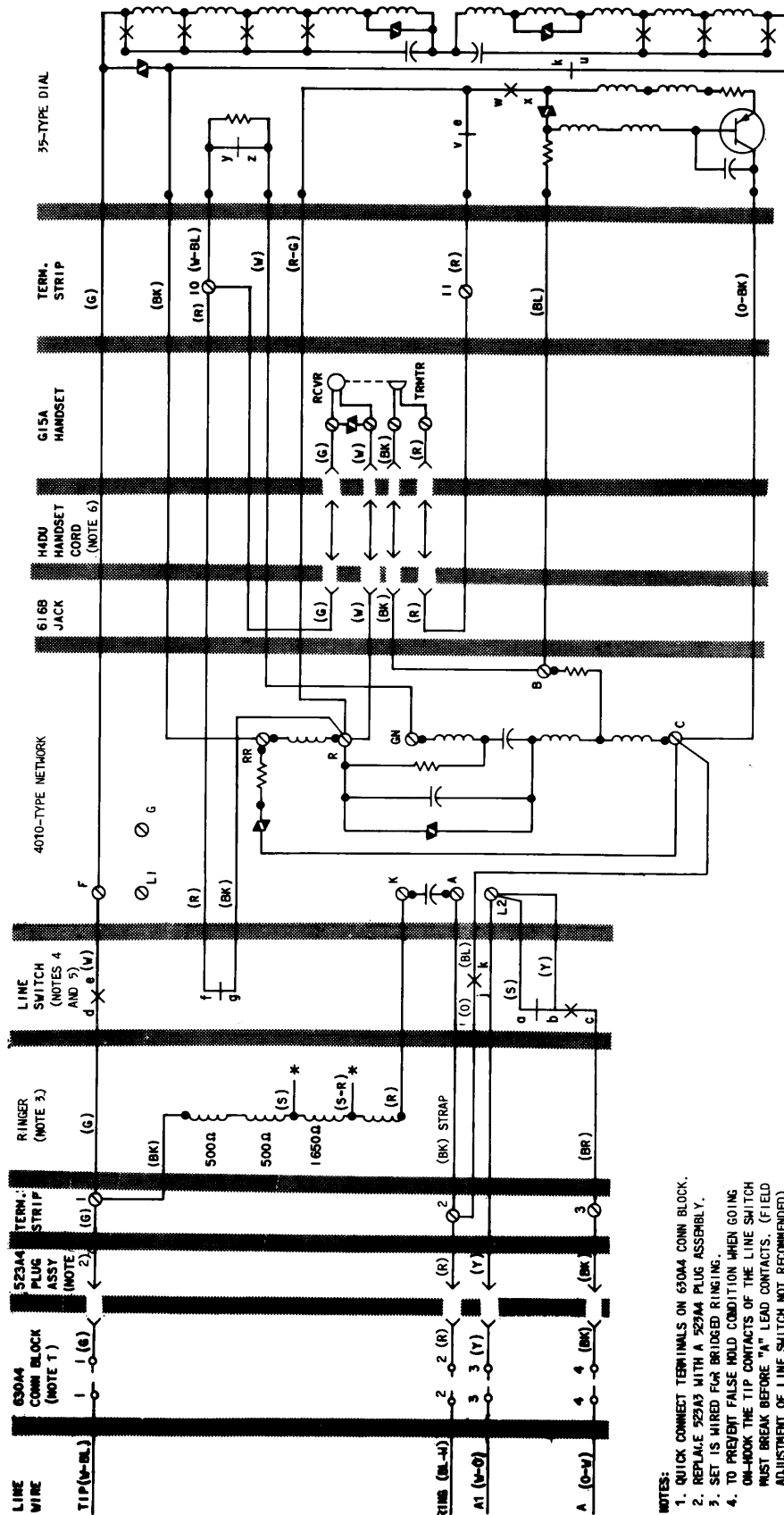
Fig. 15—4293P Network, Connections



NOTES:

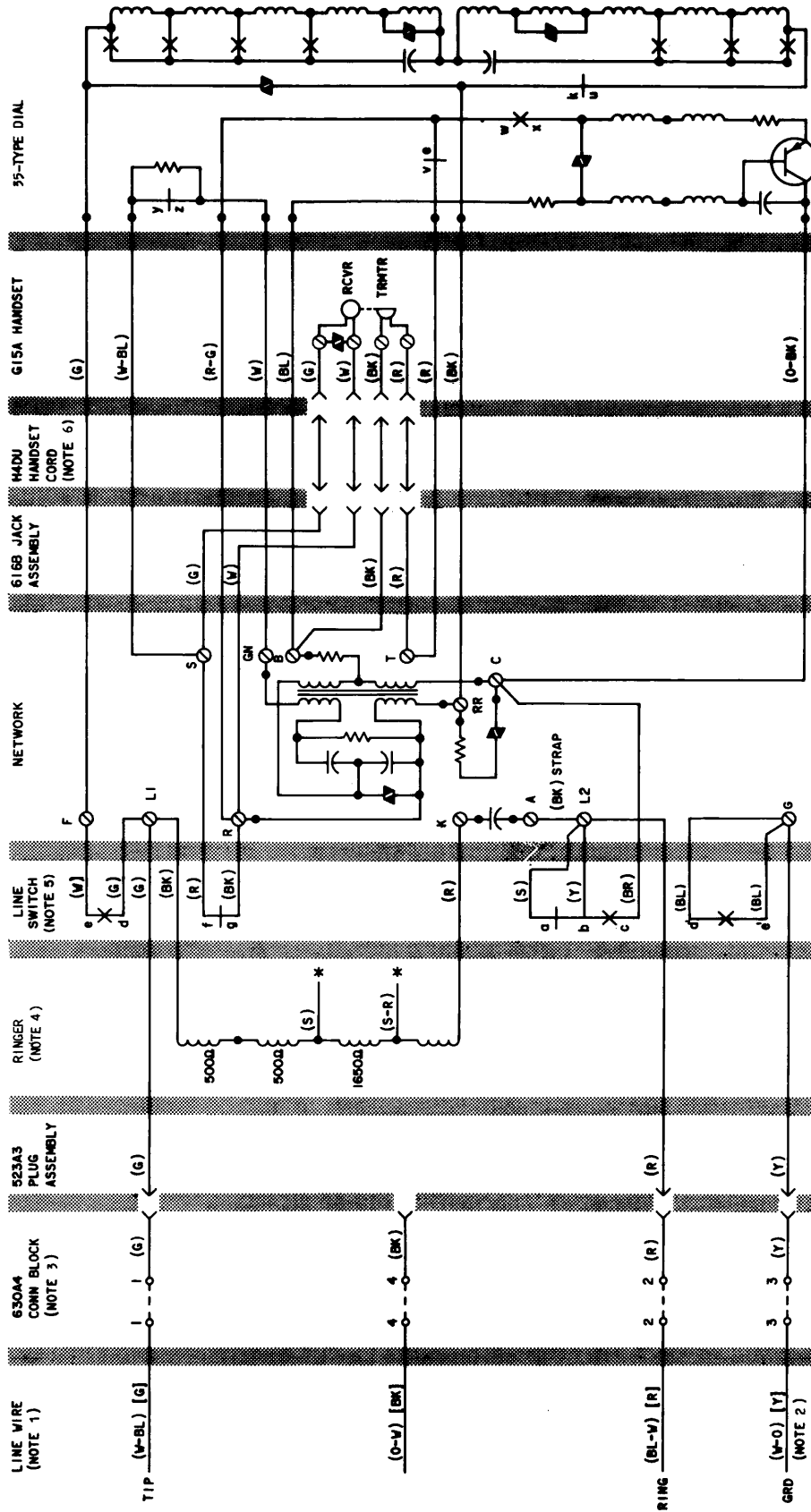
- NOTES:
1. () INSIDE WIRE COLOR CODE
() O-STATION WIRE COLOR CODE
 2. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
 3. QUICK CONNECT TERMINALS ON 65044 CONN BLOCK.
 4. SET IS FACTORY WIRED FOR BRIDGED SERVICE.
 5. PLACE (BK) STRAP (EARLY VERSION)
 6. H4CU CORD MUST BE ORDERED SEPARATELY.
*INSULATED AND STORED

Fig. 16—2554BMP Telephone Set Equipped With 4010D Network and 35-Type Dial, Connections



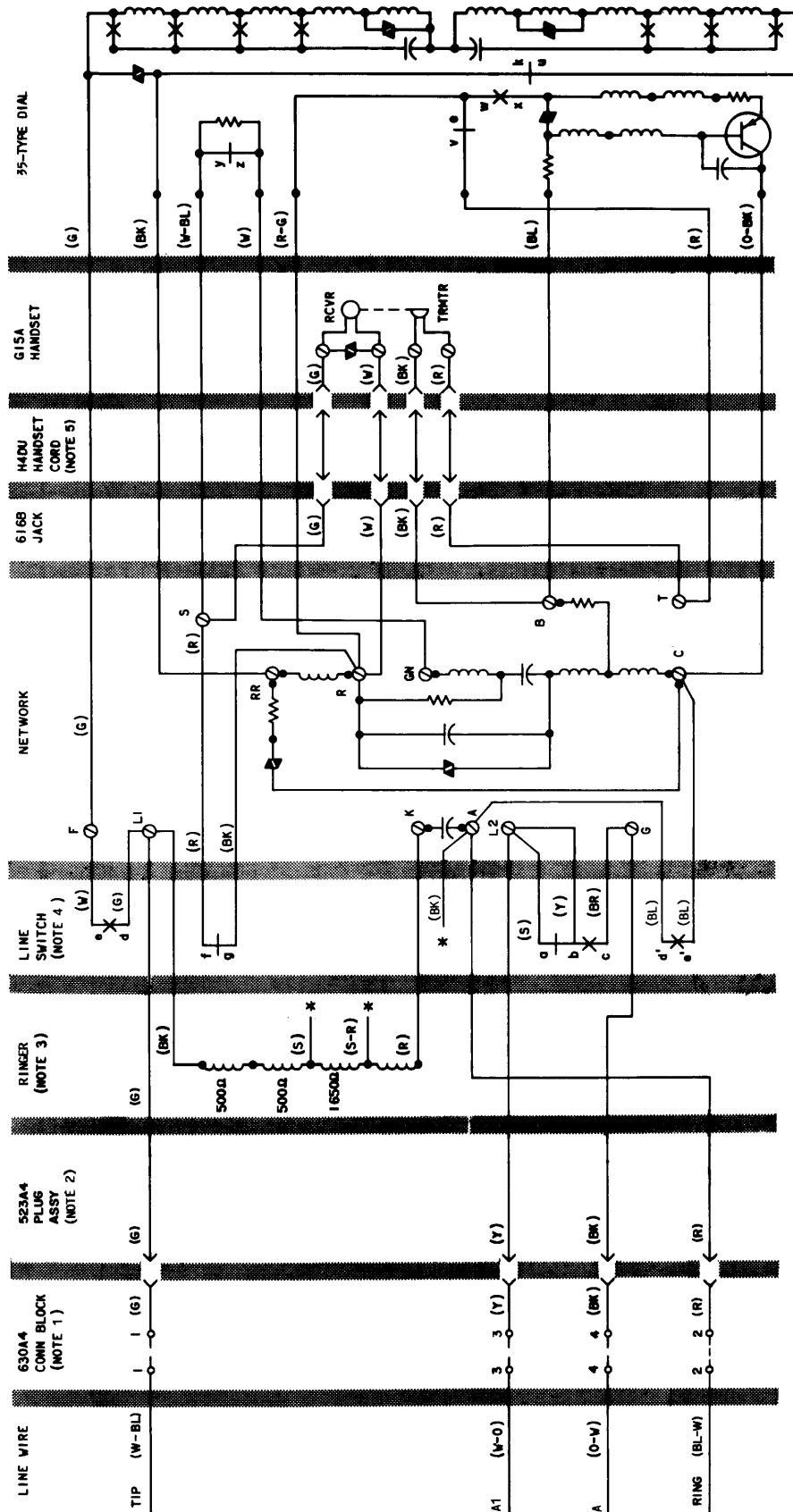
- NOTES:
1. QUICK CONNECT TERMINALS ON 63044 CONN BLOCK.
 2. REPLACE 52343 WITH A 52344 PLUG ASSEMBLY.
 3. SET IS WIRED FOR BRIDGED RINGING.
 4. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD SWITCH. (FIELD ADJUSTMENT OF LINE SWITCH NOT RECOMMENDED)
 5. IF SET DOES NOT HAVE (O) AND (BL) LINE SWITCH LEADS, CONNECT A (BK) STRAP BETWEEN C ON NETWORK AND TERMINAL 2.
 6. H4DU CORD MUST BE ORDERED SEPARATELY.
- *INSULATE AND STORE

Fig. 17—2554BMP Telephone Set Equipped With 4010D Network, Connections Modified for A-Lead Control



- NOTES:
1. () INSIDE WIRE COLOR CODE
 2. () D-STATION WIRE COLOR CODE
 3. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
 4. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
 5. SET IS FACTORY WIRED FOR BRIDGED RINGING.
 6. FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE F.
5. ON SOME SETS (S) LINE SWITCH LEAD IS CONNECTED TO A OF NETWORK.
6. HADU CORD MUST BE ORDERED SEPARATELY.
- * INSULATED AND STORED

Fig. 18—Ø2554BMP Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network and 35-Type Dial, Connections

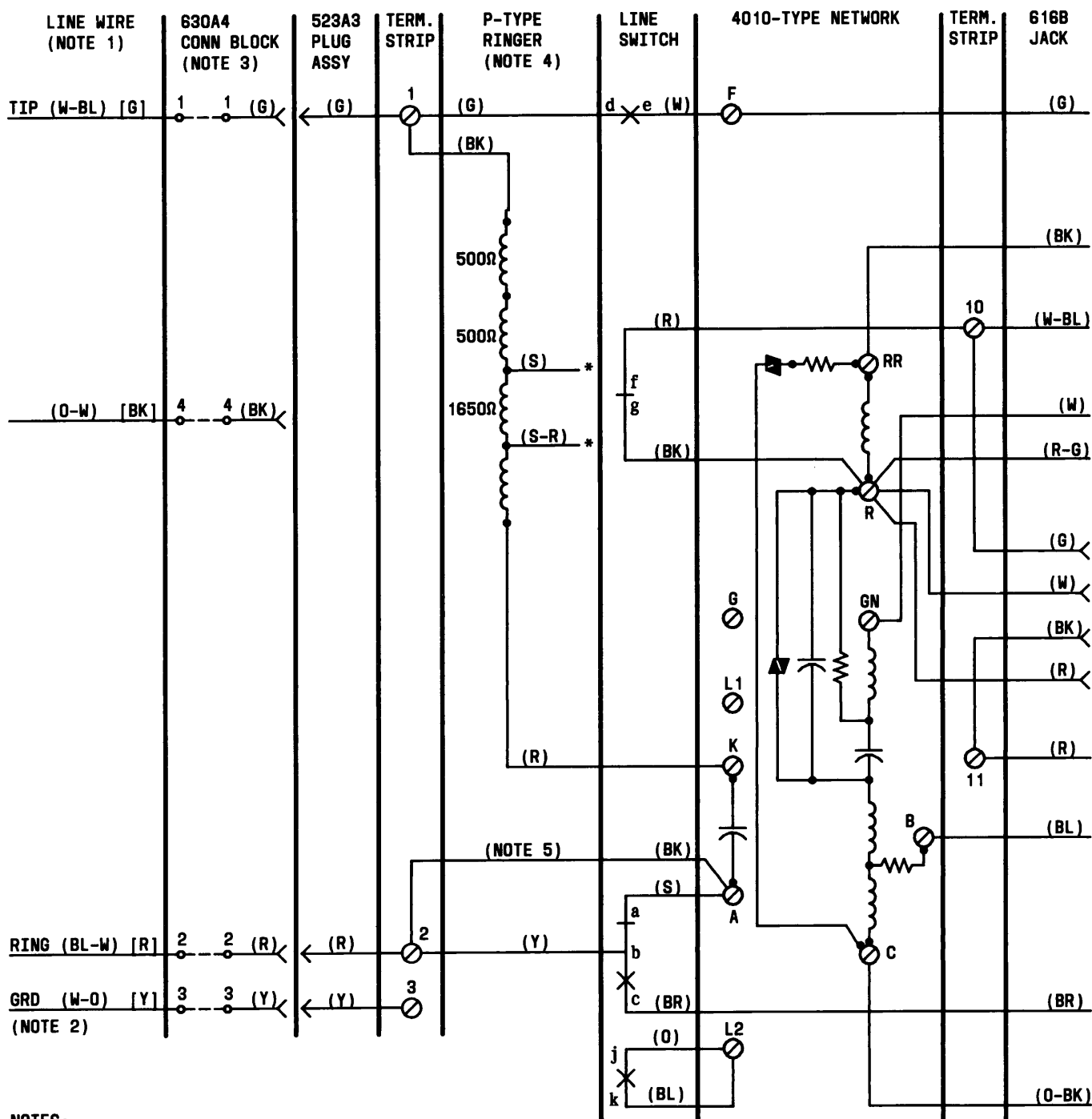


NOTES:

1. QUICK CONNECT TERMINALS ON 63004 CONN BLOCK.
2. REPLACE 523A3 WITH A 523A4 PLUG ASSEMBLY.
3. SET IS WIRED FOR BRIDGED RINGING.
SEE TABLE F FOR CLASSES OF SERVICE
NOT SHOWN.
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 NOT RECOMMENDED).
5. H40U CORD MUST BE ORDERED SEPARATELY.

***INSULATE AND STORE**

Fig. 19—1254BMP Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network, Connections Modified for A-Lead Control



NOTES:

1. () INSIDE WIRE COLOR CODE [] D-STATION WIRE COLOR CODE
2. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
3. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
4. SET IS FACTORY WIRED FOR BRIDGED SERVICE. FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE E.

5. PLACE (BK) STRAP (EARLY VERSION).
6. H4DU CORD MUST BE ORDERED SEPARATELY.
* INSULATED AND STORED.

Fig. 20—2554BMPG Telephone Set Equipped With 4010D Network and 72-Type Dial, Connections (Sheet 1 of 2)

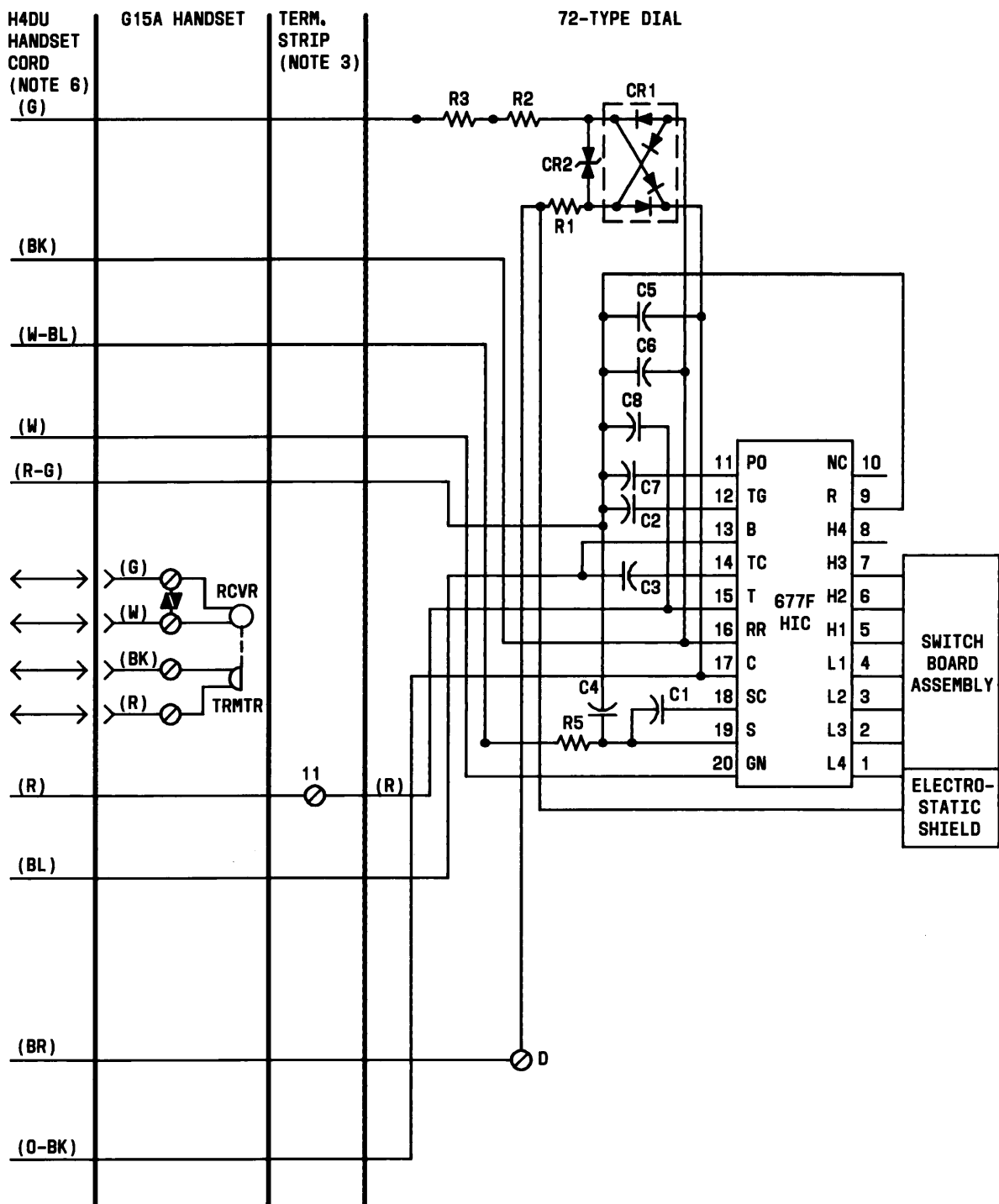
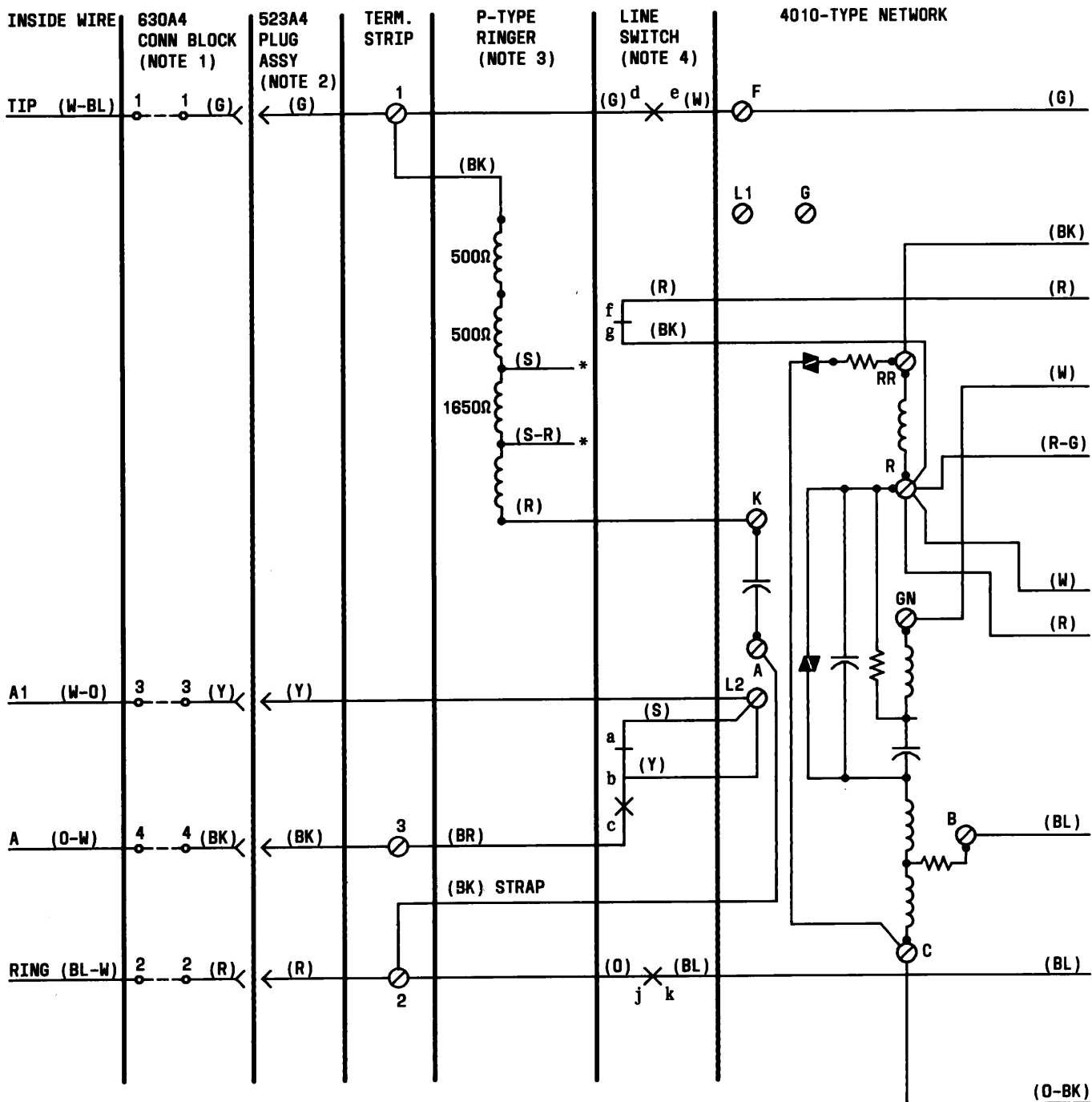


Fig. 20—2554BMPG Telephone Set Equipped With 4010D Network and 72-Type Dial, Connections (Sheet 2 of 2)



NOTES:

1. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
2. REPLACE 523A3 WITH A 523A4 PLUG ASSEMBLY.
3. SET IS WIRED FOR BRIDGED RINGING. COMMON RINGING CANNOT BE PROVIDED WITH THE TELEPHONE SET.
4. IF SET DOES NOT HAVE (O) AND (BL) LINE SWITCH LEADS, CONNECT A (BK) STRAP BETWEEN D ON DIAL AND TERMINAL 2.
5. H4DU CORD MUST BE ORDERED SEPARATELY.
- * INSULATE AND STORE.

Fig. 21—2554BMPG Telephone Set Equipped With 4010D Network and 72-Type Dial
Modified for A-Lead Control (Sheet 1 of 2)

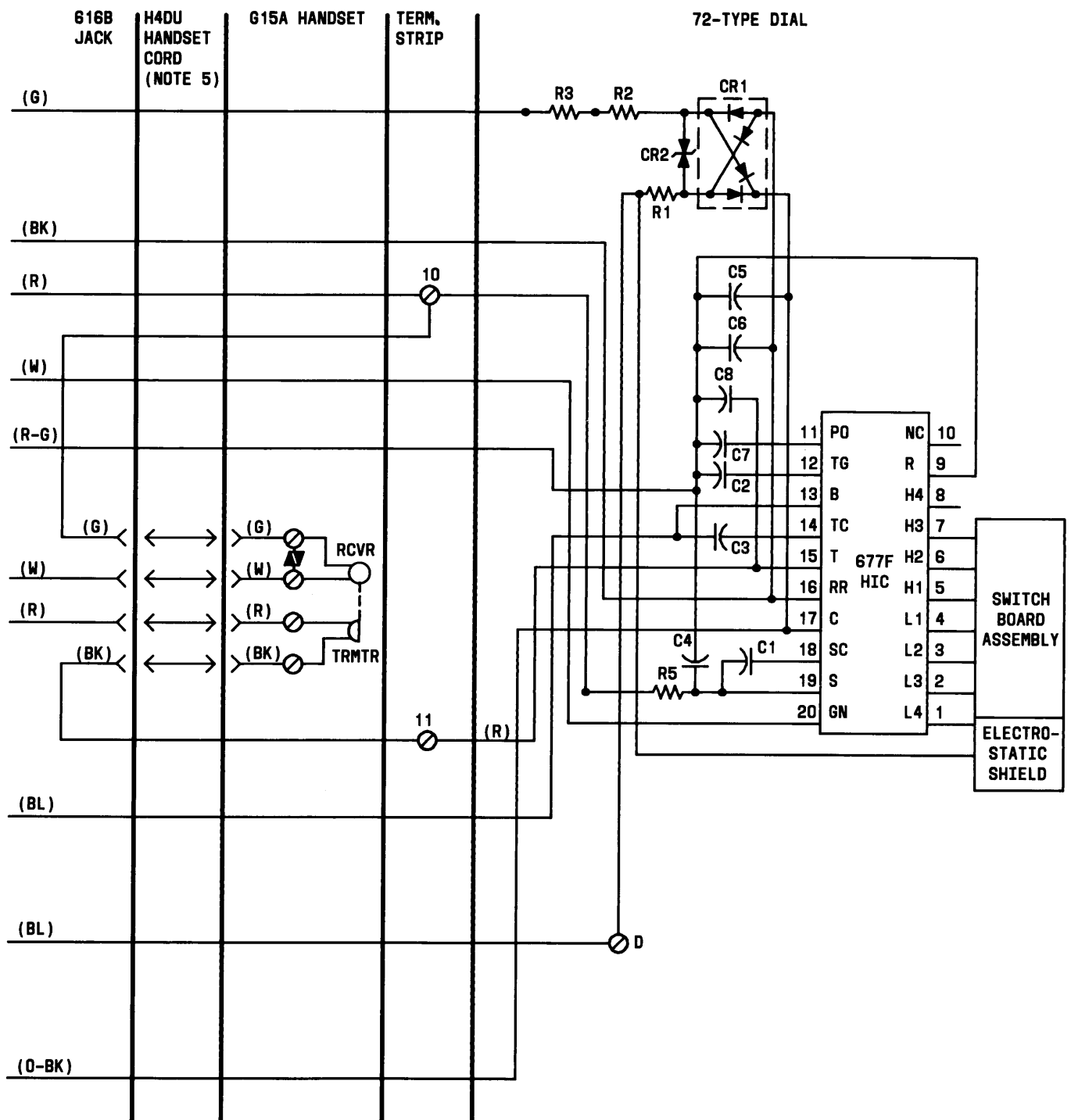
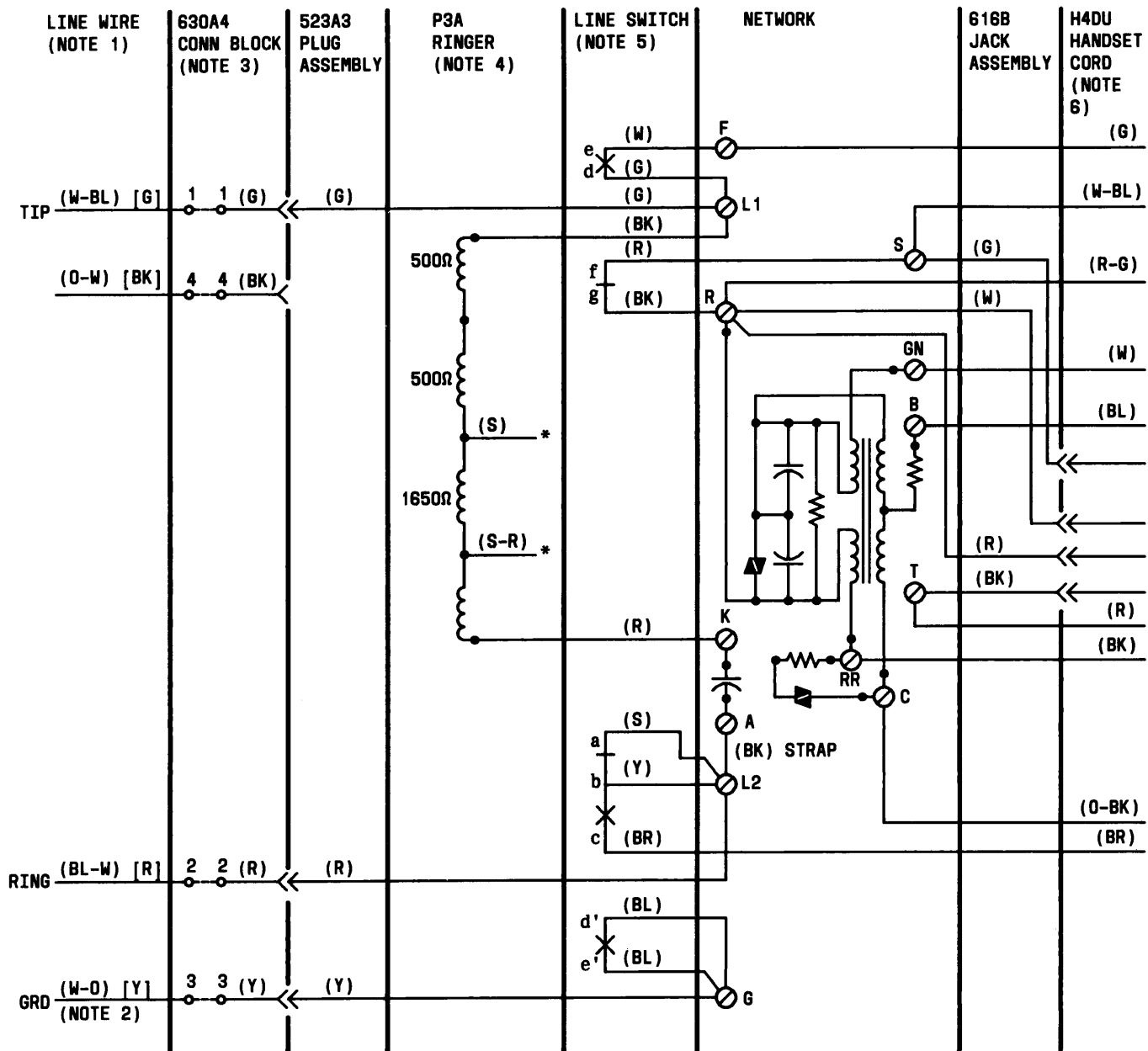


Fig. 21 — 2554BMPG Telephone Set Equipped With 4010D Network and 72-Type Dial
Modified for A-Lead Control (Sheet 2 of 2)



NOTES:

1. () INSIDE WIRE COLOR CODE
[] D-STATION WIRE COLOR CODE.
2. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
3. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
4. SET IS FACTORY WIRED FOR BRIDGED RINGING. FOR CLASSES OF SERVICE NOT SHOWN, SEE TABLE F.
5. ON SOME SETS (S) LINE SWITCH LEAD IS CONNECTED TO A OF NETWORK.
6. H4DU CORD MUST BE ORDERED SEPARATELY.

* INSULATED AND STORED.

Fig. 22—2554BMPG Telephone Set Equipped With 72-Type Dial and 4228B (MD), 4293G, or 4293P Network, Connections (Sheet 1 of 2)

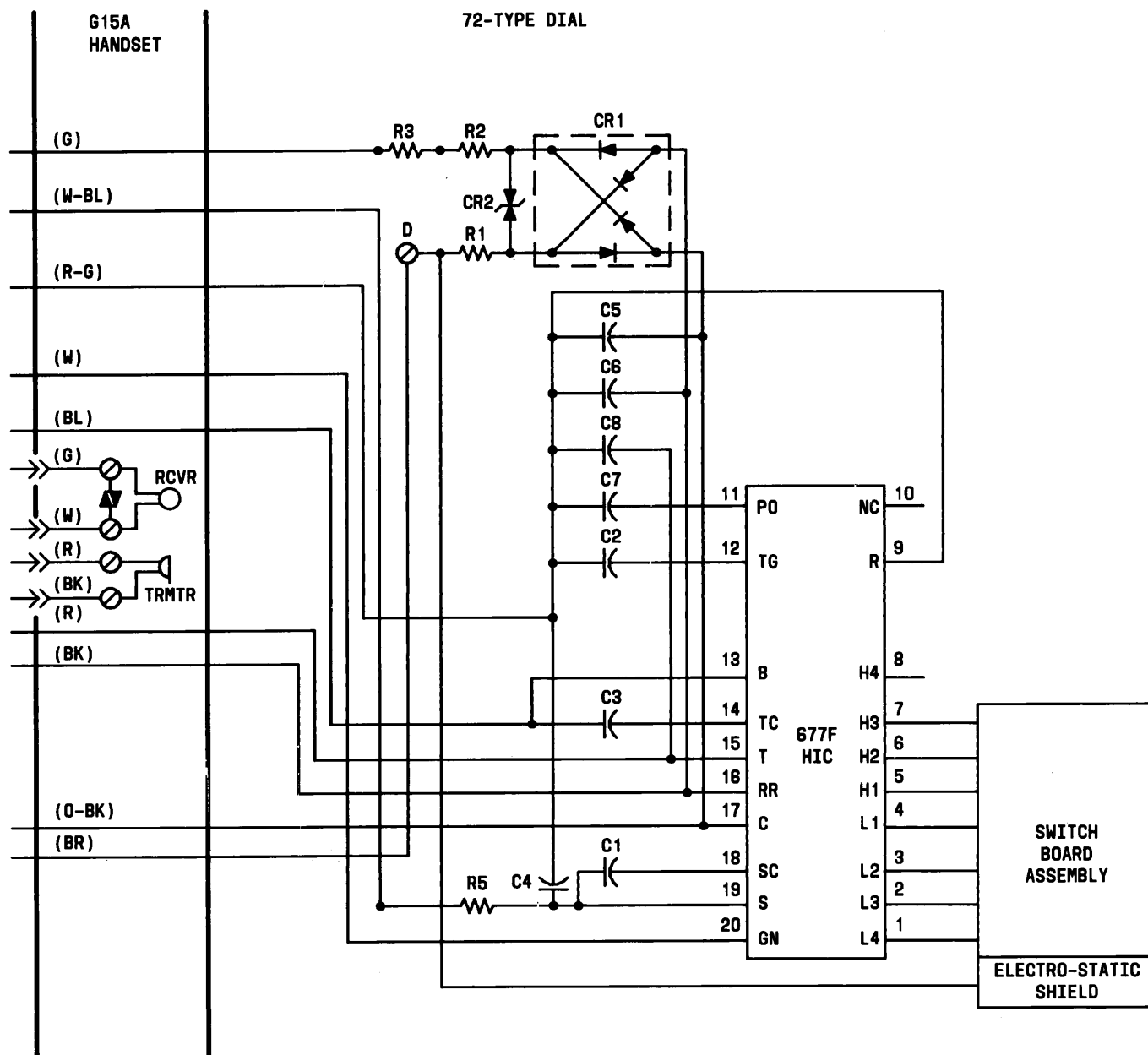
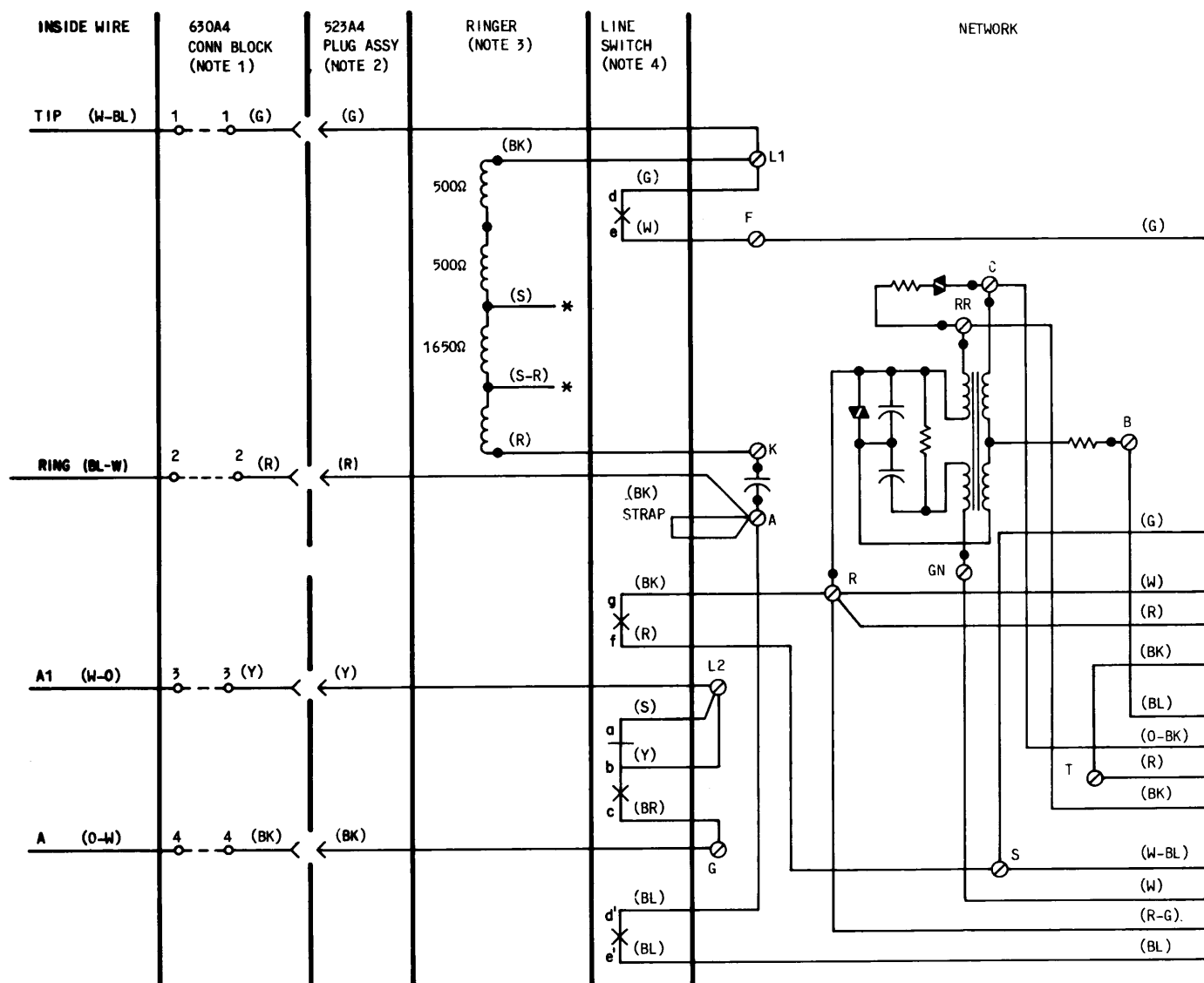


Fig. 22—2554BMPG Telephone Set Equipped With 72-Type Dial and 4228B (MD), 4293G, or 4293P Network, Connections (Sheet 2 of 2)



NOTES:

1. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
2. REPLACE 523A3 WITH A 523A4 PLUG ASSEMBLY.
3. SET IS WIRED FOR BRIDGED RINGING. COMMON RINGING CANNOT BE PROVIDED WITH THE 2554BMPG TELEPHONE SET.
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 NOT RECOMMENDED)
5. HADU CORD MUST BE ORDERED SEPARATELY.
*INSULATE AND STORE.

Fig. 23—2554BMPG Telephone Set Equipped With 72-Type Dial and 4228B (MD), 4293G, or 4293P Network, Connections Modified for A-Lead Control (Sheet 1 of 2)

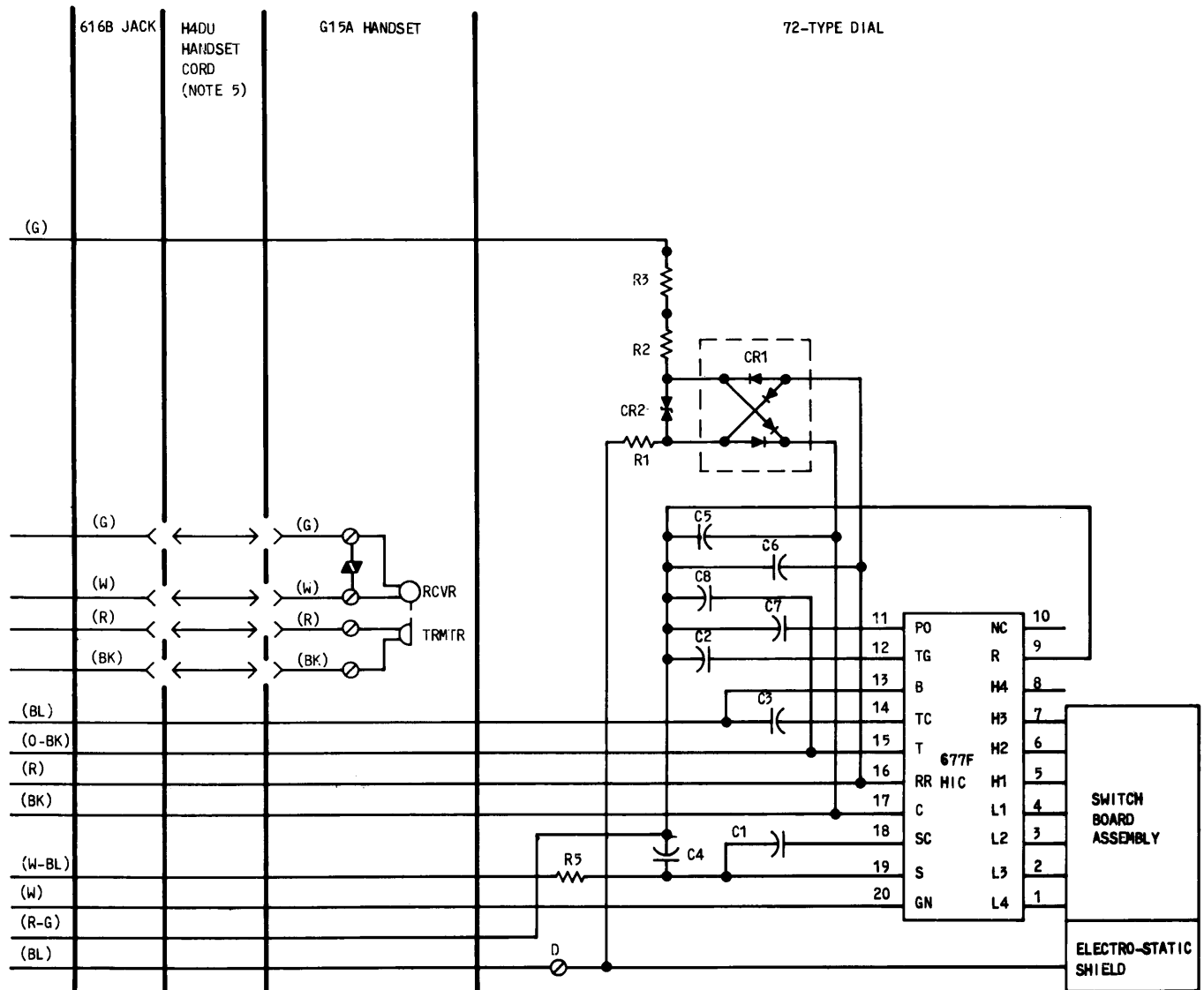
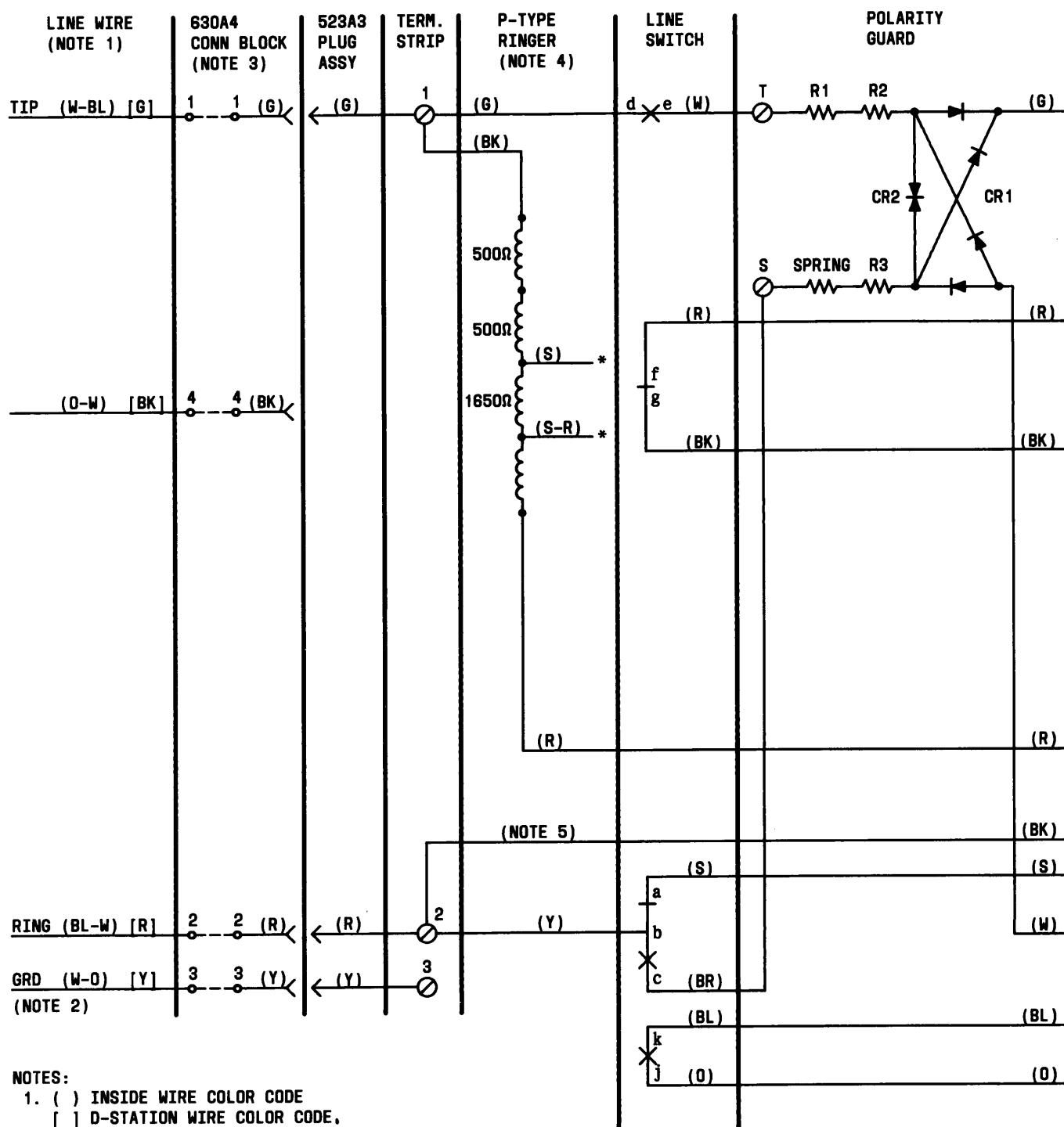


Fig. 23—2554BMPG Telephone Set Equipped With 72-Type Dial and 4228B (MD), 4293G, or 4293P Network, Connections Modified for A-Lead Control (Sheet 2 of 2)



NOTES:

1. () INSIDE WIRE COLOR CODE
[] D-STATION WIRE COLOR CODE.
2. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
3. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
4. SET IS FACTORY WIRED FOR BRIDGED SERVICE. FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE E.

5. PLACE (BK) STRAP (EARLY VERSION).
6. H4DU CORD MUST BE ORDERED SEPARATELY.
* INSULATED AND STORED.

Fig. 24—2554BMPG Telephone Set Equipped With 4010D Network and 35-Type Dial, Connections (Sheet 1 of 2)

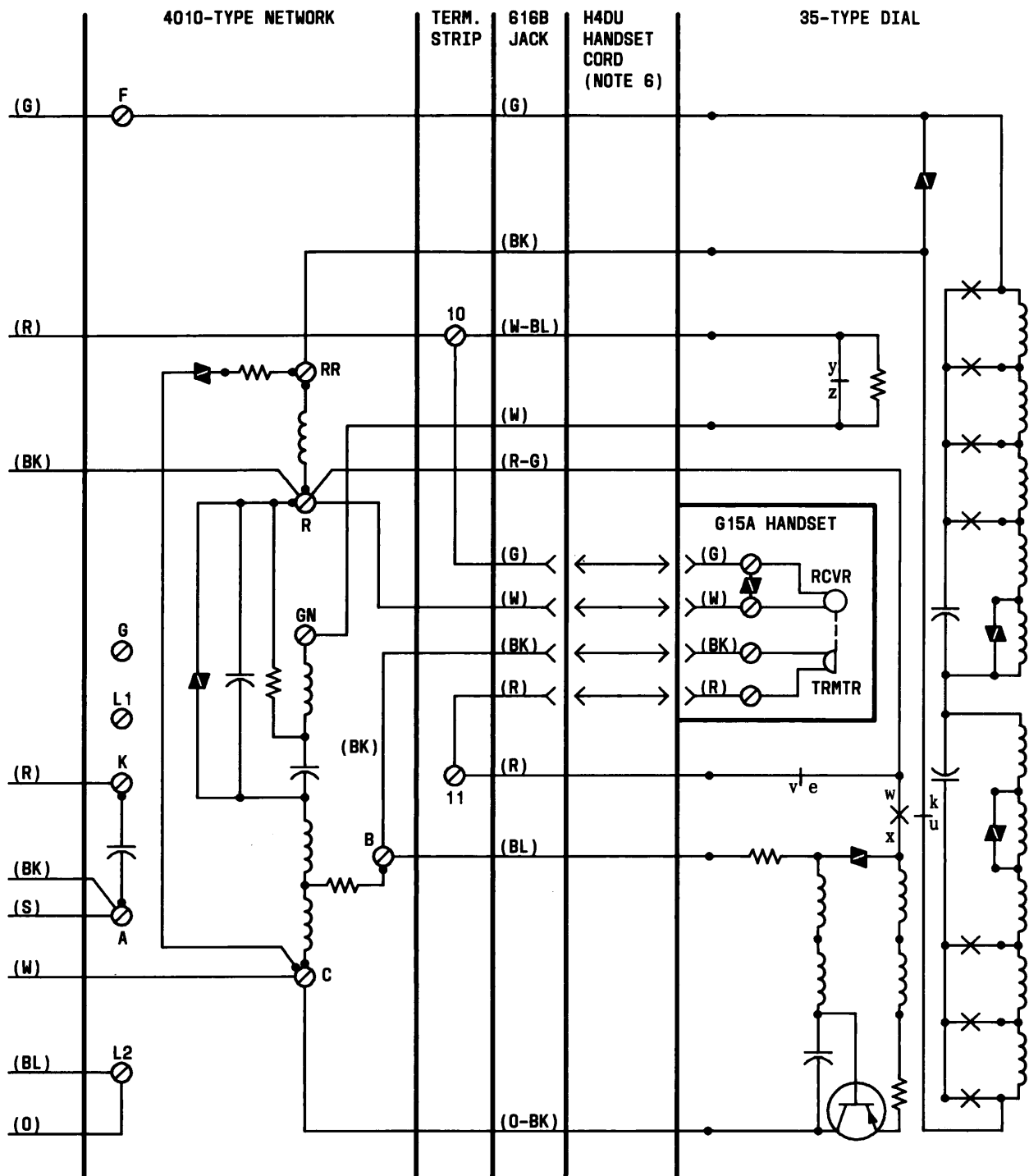
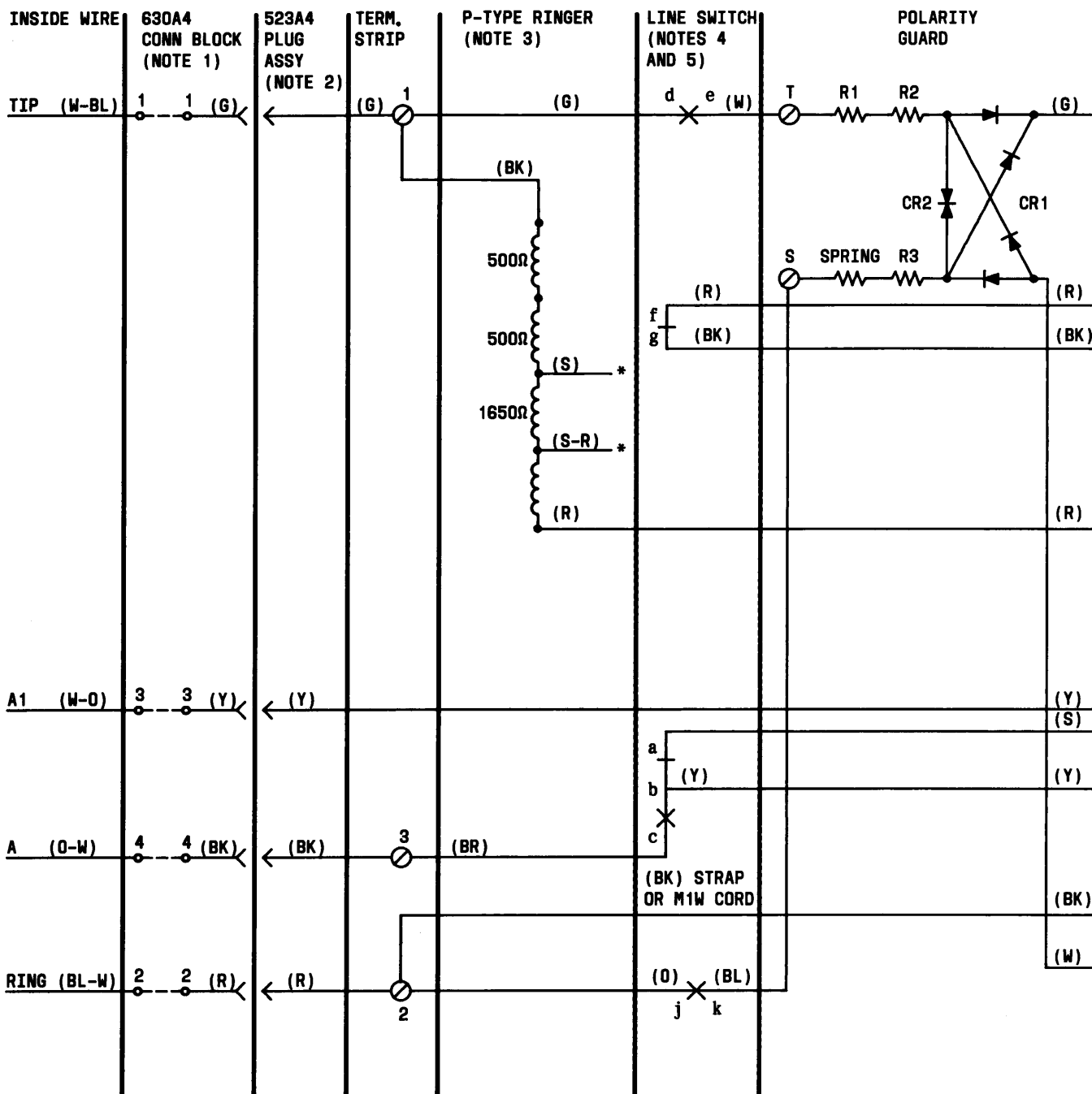


Fig. 24—2554BMPG Telephone Set Equipped With 4010D Network and 35-Type Dial, Connections (Sheet 2 of 2)



NOTES:

1. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
2. REPLACE 523A3 WITH A 523A4 PLUG ASSEMBLY.
3. SET IS WIRED FOR BRIDGED RINGING. COMMON RINGING CANNOT BE PROVIDED WITH THE TELEPHONE SET.
4. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD CONTACTS. (FIELD ADJUSTMENT OF LINE SWITCH NOT RECOMMENDED)
5. IF SET DOES NOT HAVE (O) AND (BL) LINE SWITCH LEADS, PLACE A (BK) STRAP BETWEEN TERMINAL 2 AND TERMINAL S ON POLARITY GUARD.
6. H4DU CORD MUST BE ORDERED SEPARATELY.

* INSULATE AND STORE.

Fig. 25—2554BMPG Telephone Set Equipped With 4010D Network, Connections Modified for A-Lead Control (Sheet 1 of 2)

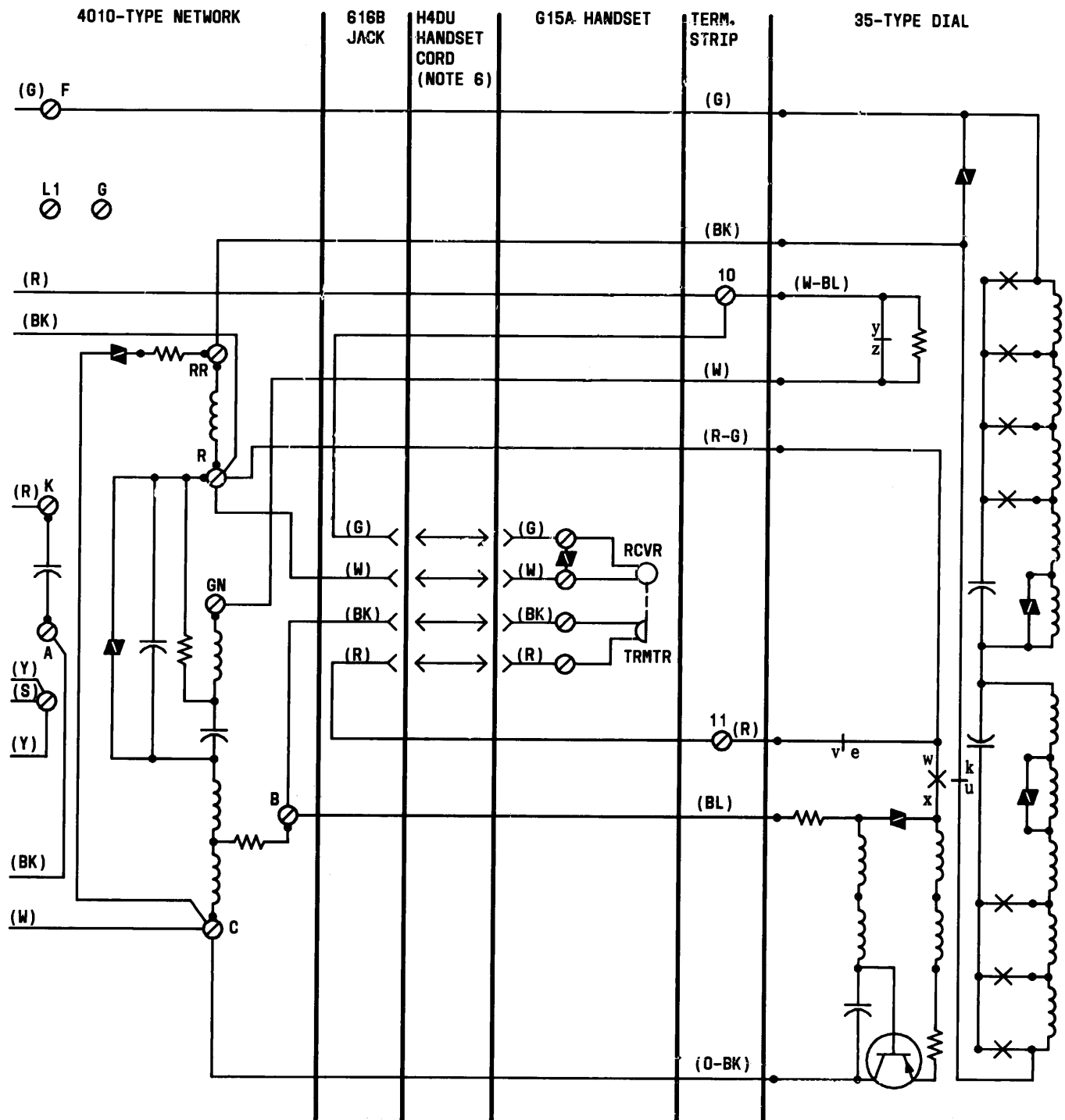
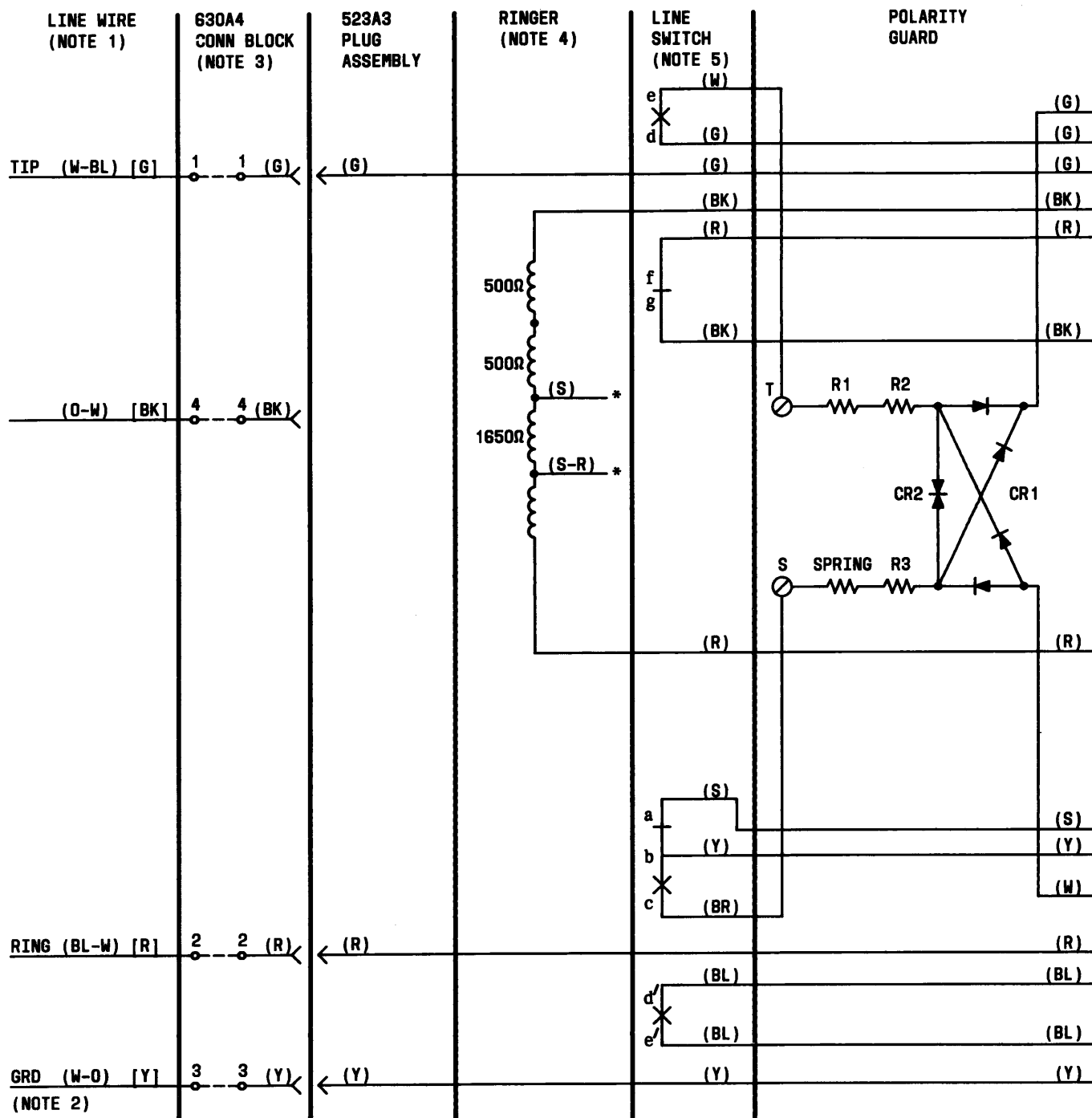


Fig. 25—2554BMPG Telephone Set Equipped With 4010D Network, Connections Modified for A-Lead Control (Sheet 2 of 2)

SECTION 502-503-101



NOTES:

1. () INSIDE WIRE COLOR CODE
[] D-STATION WIRE COLOR CODE.
2. INSIDE WIRE CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL AT THE PROTECTOR OR EQUIVALENT ONLY IF REQUIRED FOR SERVICE BEING INSTALLED.
3. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
4. SET IS FACTORY WIRED FOR BRIDGED SERVICE. FOR CLASSES OF SERVICE NOT SHOWN SEE TABLE F.
5. ON SOME SETS (S) LINE SWITCH LEAD IS CONNECTED TO A OF NETWORK.
6. H4DU CORD MUST BE ORDERED SEPARATELY.
- * INSULATED AND STORED.

Fig. 26—2554BMPG Telephone Set Equipped With 35-Type Dial, Polarity Guard, and 4228B (MD), 4293G, or 4293P Network, Connections (Sheet 1 of 2)

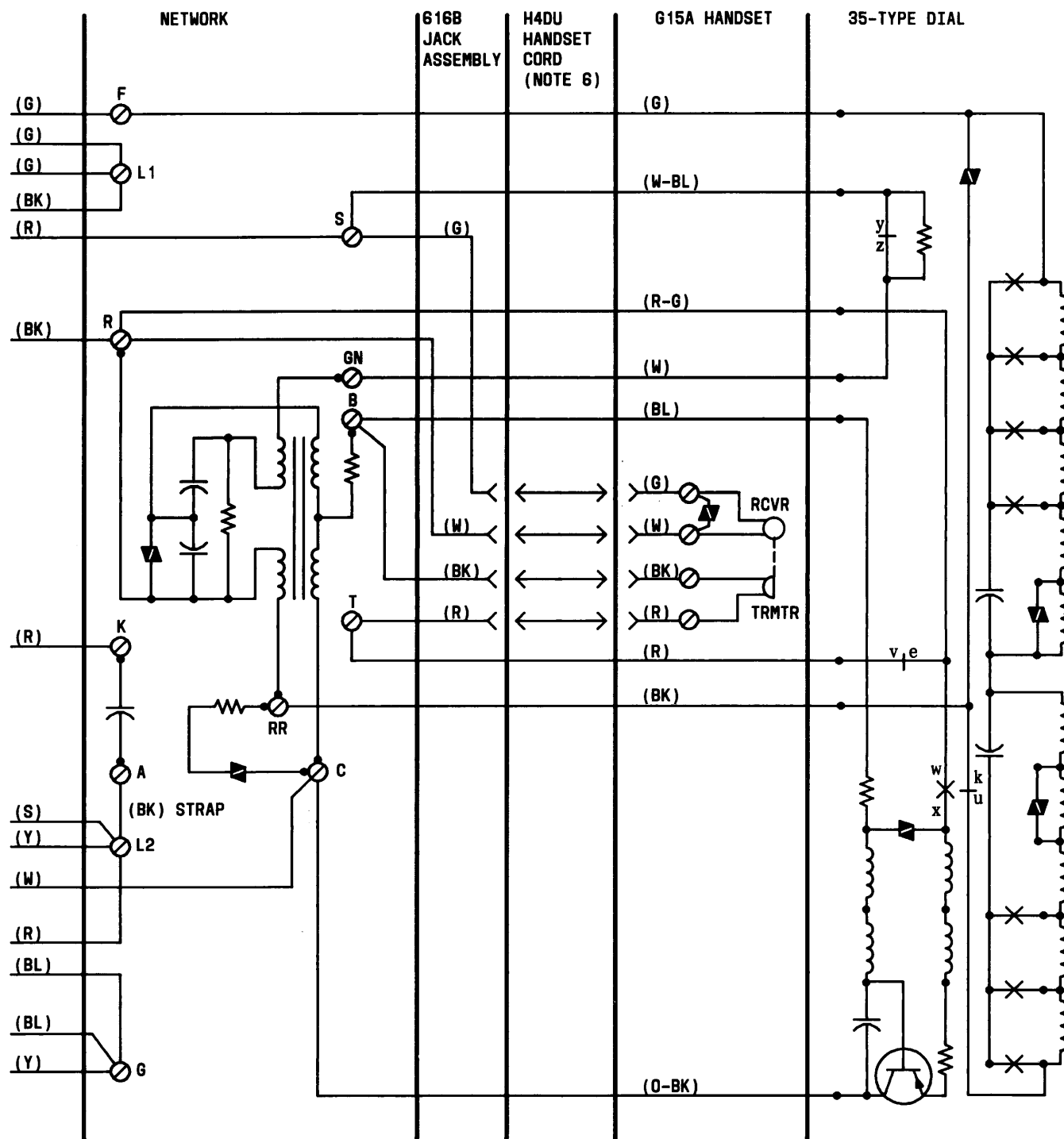
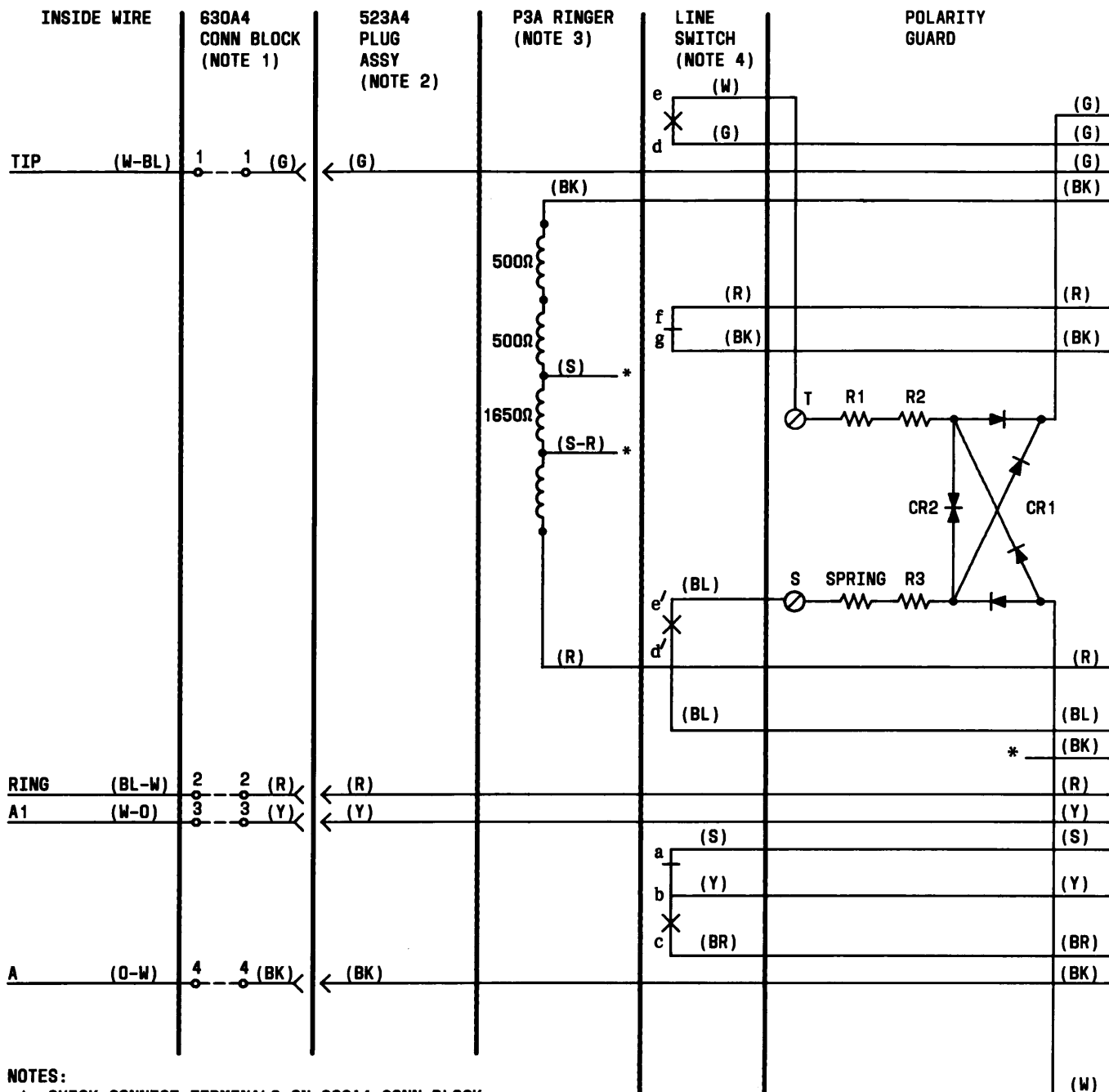


Fig. 26—2554BMPG Telephone Set Equipped With 35-Type Dial, Polarity Guard, and 4228B (MD), 4293G, or 4293P Network, Connections (Sheet 2 of 2)



NOTES:

1. QUICK CONNECT TERMINALS ON 630A4 CONN BLOCK.
2. REPLACE 523A3 WITH A 523A4 PLUG ASSEMBLY.
3. SET IS WIRED FOR BRIDGED RINGING. FOR CLASSES OF RINGING SERVICE NOT SHOWN SEE TABLE F.
4. TO PREVENT FALSE HOLD CONDITION WHEN GOING ON-HOOK THE TIP CONTACTS OF THE LINE SWITCH MUST BREAK BEFORE "A" LEAD CONTACTS. (FIELD ADJUSTMENT OF LINE SWITCH NOT RECOMMENDED.)

5. H4DU CORD MUST BE ORDERED SEPARATELY.
* INSULATED AND STORED.

Fig. 27—2554BMPG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P Network and 35-Type Dial, Modified for A-Lead Control (Sheet 1 of 2)†

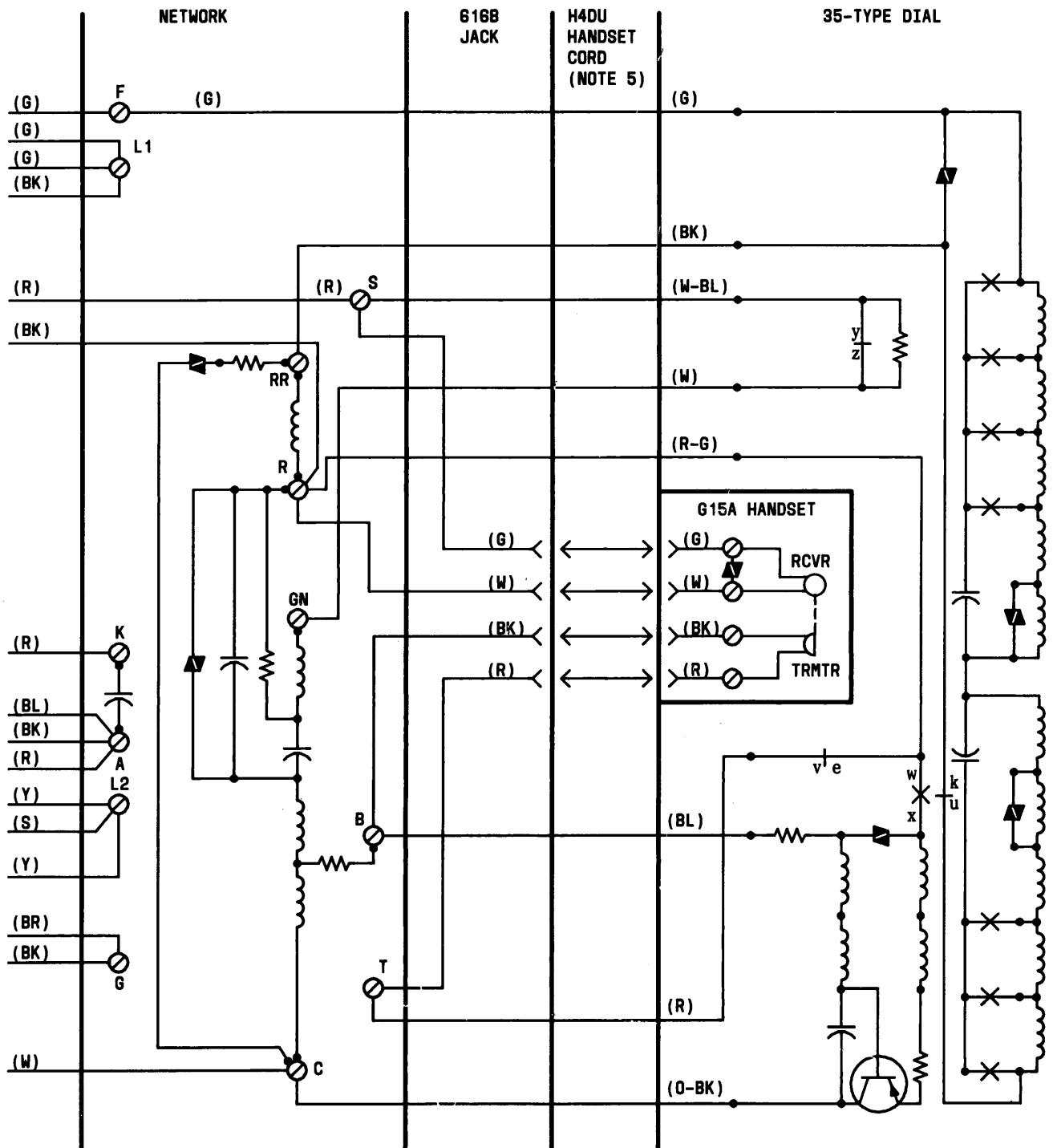
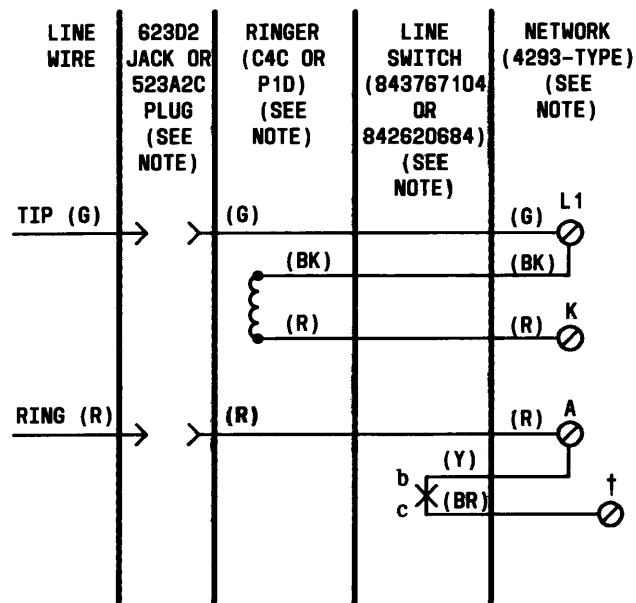


Fig. 27—2554BMPG Telephone Set Equipped With 4228B (MD), 4293G, or 4293P
Network and 35-Type Dial, Modified for A-Lead Control (Sheet 2 of 2)

**NOTE:**

THIS PARTIAL DRAWING SHOWS HOW A TELEPHONE SET MANUFACTURED AFTER 6-1-82 AND MARKED FOR "1-PTY" SERVICE CONNECTIONS IS WIRED IF IT IS EQUIPPED WITH ALL THE ABOVE LISTED COMPONENTS. A SET CAN BE MARKED "1-PTY" WITHOUT HAVING ALL THE LISTED COMPONENTS. IF THIS ARRANGEMENT IS ENCOUNTERED REFER TO THE FULL SCHEMATIC DRAWING OF THE TELEPHONE SET AND PARAGRAPH 2.05.1 (a) THROUGH (d) TO COMPARE DIFFERENCES IN THE WIRING.

† NETWORK TERMINAL C, POLARITY GUARD TERMINAL S, OR 72-TYPE DIAL TERMINAL D.

Fig. 28—2500- or 2554-Type Telephone Set, Connections
(See Note)

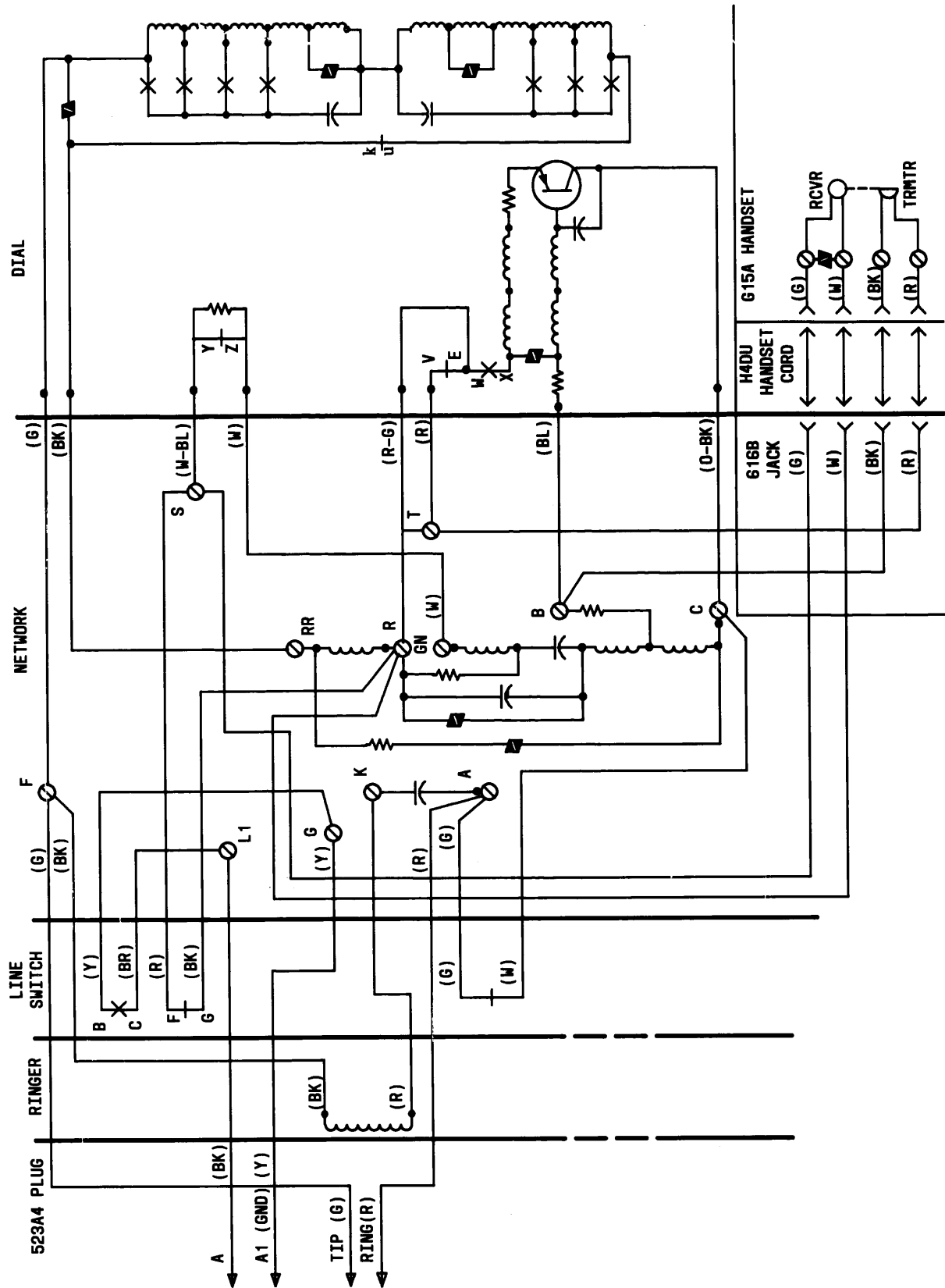


Fig. 29—2554BMPA Telephone Set, Equipped With 35-Type Dial, Connections

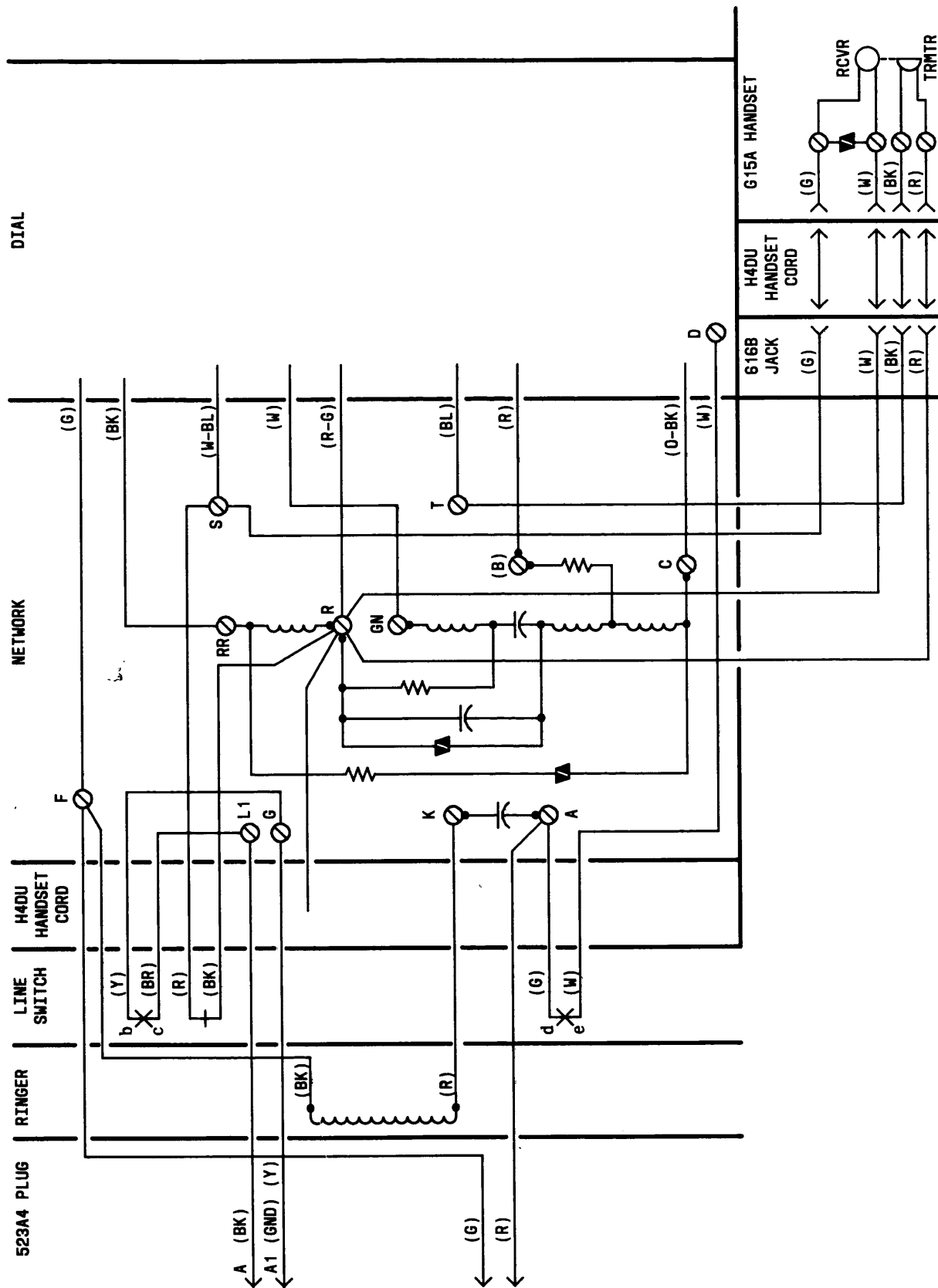


Fig. 30—Z2554BMPPGA Telephone Set Equipped With Z72JG3A Dial, Connections

TABLE E

**LINE AND RINGER CONNECTIONS FOR 2554B (MD), 2554BM
(MD), 2554BMP, OR 2554BMPG
TELEPHONE SET EQUIPPED WITH 4010D NETWORK**

WIRE OR LEAD			INDIV OR BRIDGED	RING PARTY	TIP PARTY		
					NO ID GROUND	ID GROUND	
						1000 Ω	2650 Ω
Inside Wire or 523A3 Plug Assy Lead*	Tip	G	1	1	2	2	2
	Ring	R	2	2	1	1	1
	Grd	Y	3	3	3	3	3
Ringer Leads†‡	BK		1	3	3	3	3
	S		¶	¶	¶	B	¶
	S-R		¶	¶	¶	¶	B
Line Switch§	W		F	F	C	C	C
	BR		C	C	F	F	F
BK Strap			2-A	2-A	2-A	A-A	A-A

* 52A3 plug assembly does not have a (BK) lead, if equipped, insulate and store lead.

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

‡ (BL) lead has been removed from later model ringers. If equipped, insulate and store lead.

§ This change for tip party does not apply to sets equipped with a 35-type dial and polarity guard or 72-type dial (2554BMPG telephone sets).

¶ Insulate and store.

◆ TABLE F ◆

**LINE AND RINGER CONNECTIONS FOR 2554B (MD),
2554BM (MD), 2554BMP, OR 2554BMPG
TELEPHONE SET EQUIPPED WITH 4228- OR 4293-TYPE NETWORK**

WIRE OR LEAD			INDIV OR BRIDGED	RING PARTY	TIP PARTY		
					NO ID GROUND	ID GROUND	
						1000Ω	2650Ω
Inside Wire or 523A3 Plug Assy Lead*	Tip	G	L1	L1	L2	L2	L2
	Ring	R	L2	L2	L1	L1	L1
	Grd	Y	G	G	G	G	G
Ringer Leads†		BK	L1	G	G	G	G
		S	§	§	§	B	§
		SR	§	§	§	§	B
Line Switch		W‡	F	F	C	C	C
		S	L2‡¶	L2‡¶	L2‡¶	A	A
		BR‡	C	C	F	F	F
BK Strap			L2-A	L2-A	L2-A	A-A	A-A

* 52A3 plug assembly does not have a (BK) lead, if equipped, insulate and store lead.

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

‡ This change for tip party does not apply to sets equipped with a 35-type dial and polarity guard or 72-type dial (2554BMPG telephone sets).

§ Insulate and store.

¶ On early version sets (S) line switch was connected to A of network.

TABLE G

**2554BMP TELEPHONE SET EQUIPPED
WITH 4010D NETWORK AND 35-TYPE DIAL,
MODIFIED FOR A-LEAD CONTROL**

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		TERM. STRIP	NET	TERM. STRIP	NET.
523A4 Plug Assembly*	G Tip			1	
	R Ring			2	
	Y A1				L2
	BK A			3	
Line Switch†	S		A		L2
	Y	2			L2
	O		L2	2	
	BL		L2		C
	BR		C	3	

* Replace 523A3 with 523A4 plug assembly when set is used with 1A1 or 1A2 KTS.

† If set does not have (O) and (BL) line switch leads connect a (BK) strap between C on network and terminal 2.

TABLE H

**2554BMPG TELEPHONE SET EQUIPPED
WITH 4010D NETWORK AND 35-TYPE DIAL,
MODIFIED FOR A-LEAD CONTROL**

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		TERM. STRIP	NET	TERM. STRIP	NET.
523A4 Plug Assembly*	G Tip			1	
	R Ring			2	
	Y A1				L2
	BK A			3	
Line Switch	S		A		L2
	Y	2			L2
	O†		L2	2	
	BL†		L2		S‡
	BR		C	3	

* Replace 523A3 with 523A4 plug assembly when set is used with 1A1 or 1A2 KTS.

† If set does not have (O) and (BL) line switch leads, place a (BK) strap between terminal 2 and terminal S on polarity guard.

‡ Polarity guard terminal.

♦TABLE I♦

**2554BMP OR 2554BMPG TELEPHONE SET
EQUIPPED WITH 4228B, 4293G, OR 4293P NETWORK
AND 35-TYPE DIAL, MODIFIED FOR A-LEAD CONTROL**

TEL SET	WIRE OR LEAD		REMOVE FROM		CONNECT TO	
			NET.	POLARITY GUARD	NET.	POLARITY GUARD
2554BMP	523A4 Plug Assembly *	G Tip			L1	
		R Ring			A	
		Y A1			L2	
		BK A			G	
	Line Switch	BR	C		G	
		BL	G		A	
		BL	G		C	
	Strap	BK	L2		†	
2554BMPG	523A4 Plug Assembly*	G Tip			L1	
		R Ring			A	
		Y A1			L2	
		BK A			G	
	Line Switch	BR		S	G	
		BL	G		A	
		BL	G			S
	Strap	BK	L2		†	

* Replace 523A3 with 523A4 plug assmbly when set is used with 1A1 and 1A2 KTS.

† Insulate and store.

TABLE J

**2554BMP OR 2554BMPG TELEPHONE SET EQUIPPED
WITH 4010D NETWORK AND 72-TYPE DIAL,
MODIFIED FOR A-LEAD CONTROL**

WIRE OR LEAD		REMOVE FROM		CONNECT TO	
		TERM. STRIP	NET	TERM. STRIP	NET.
523A4 Plug Assembly*	G Tip			1	
	R Ring			2	
	Y A1				L2
	BK A			3	
Line Switch†	S		A		L2
	Y	2			L2
	O		L2		2
	BL		L2		D‡
	BR		D‡	3	
Strap	BK			2	A

* Replace 523A3 with 523A4 plug assembly when set is used with 1A1 or 1A2 KTS.

† If set does not have (O) and (BL) line switch leads, place a (BK) strap between terminal 2 and terminal S on dial.

‡ 72-type dial terminal.

♦TABLE K♦
2554BMP OR 2554BMPG TELEPHONE SET
EQUIPPED WITH 4228B, 4293G, OR 4293P NETWORK
AND 72-TYPE DIAL, MODIFIED FOR A-LEAD CONTROL

TEL SET	WIRE OR LEAD		REMOVE FROM	CONNECT TO
			NET.	NET.
2554BMP or 2554BMPG	523A4 Plug Assembly*	G Tip		L1
		R Ring		A
		Y A1		L2
		BK A		G
	Line Switch	BR	D†	G
		BL	G	A
		BL	G	D†
	Strap	BK	L2	*A

* Replace 523A3 with 523A4 plug assembly when set is used with 1A1 and 1A2 KTS.

† 72-Type dial terminal.

TABLE L
MODIFICATION TO REPLACE 35-TYPE DIAL WITH
72-TYPE DIAL IN 2500DM, 2500DMG, 2554BMP,
OR 2554BMPG TELEPHONE SET NON-KTS

WIRE OR LEAD	COLOR	REMOVE FROM NET. TERM. OR TERM. STRIP (35-TYPE DIAL)	CONNECT TO NET. TERM. OR TERM. STRIP (72-TYPE DIAL)
Dial	W	GN	GN
	W-BL	10 or S	10 or S
	O-BK	C	C
	BK	RR	RR
	R	11 or T	11 or T
	BL	B	B
	R-G	R	R
	G	F	F
Line Switch	BR	C or S†	D‡
	W	F or T†	F
616-Type Handset Cord Jack	R	T or 11	R
	BK	B	T
Polarity Guard*	G	F	—
	W	C	—

* Polarity guard should be removed from telephone set.

† Polarity guard terminal.

‡ 72-type dial terminal.

REFERENCES

2500- AND 2554-TYPE TELEPHONE SETS

IDENTIFICATION, INSTALLATION, MAINTENANCE, AND CONNECTIONS

1. GENERAL

1.001 This addendum supplements Section 502-503-101, Issue 9. Place this pink sheet ahead of Page 1 of the section.

1.002 This addendum is reissued to include a connection diagram of a "1-PTY" 2500- and 2554-type telephone set when equipped with all components which are intended for bridged ringer service only.

1.003 Issue 1 of this addendum was issued to add note to paragraph 2.01.

2. CHANGES TO SECTION

ISSUE 1 CHANGES

2.001 On Page 1, add note to paragraph 2.01 as follows:

Note: The 2500DM, 2500DMG, and 2554BMPPG telephone sets *not* marked "1-PTY" are adaptable for all classes of line and ringer connections and the 2554BMPPG for A-lead control. The 2500DM or 2500DMG telephone sets marked "1-PTY" cannot be used for multiparty service connections; if service other than individual or bridged ringing is required, a 2500D2M or 2500D2MG telephone set base, housing, and handset must be ordered separately. The 2554BMPPG telephone sets marked "1-PTY" cannot be used for multiparty service connections or wired for A-lead control; if service other than individual or bridged ringing is required, a 2554B2PG telephone set base, housing, and handset must be ordered separately.

ISSUE 2 CHANGES

2.002 On Page 1, add paragraph 2.02.1 (a) through (d) after Note in paragraph 2.02.

2.02.1 Associated with the production of "1-PTY" telephone sets are changes in the ringer, line switch, network, and jack or plug. These changes were not necessarily introduced simultaneously and therefore sets marked "1-PTY" may have only one or more of the planned changes. Figure 28 is a partial schematic showing the connections when all the changes are incorporated. For sets with less than all the changes, refer to the following paragraphs for each new component.

(a) The 623D2 mounting cord jack replaces the 623D3 (2500DM, 2500DMG) and the 523A2C plug replaces the 523A3 (2554BMPPG). The (G) lead of the jack or plug terminates on L1 of network and (R) lead on A of network. The (Y) lead has been removed from 623D2 jack and 523A2C plug.

(b) The two-lead C4C ringer replaces the C4A (2500DM, 2500DMG) and the two-lead P1D ringer replaces the P1A or P3A (2554BMPPG). The (BK) lead terminates on L1 of network and (R) on K of network. The (S) and (S-R) ringer leads have been removed from the C4C and P1D ringers.

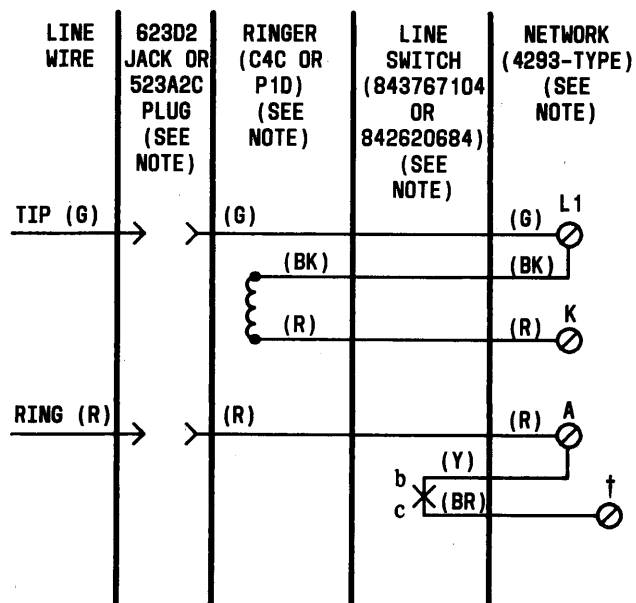
(c) The 843767104 line switch replaces the 812162956 (2500DM, 2500DMG), contact "a" and (S) lead have been removed. Contact "b" (Y) lead terminates on A of network. The 842620684 line switch replaces the 842620676 (2554BMPPG). Contact "a" and (S) lead have been removed; also contact "d", "e" and two (BL) leads have been removed. The (BR) line switch lead at contact "c" terminates on C of network, terminal S on polarity guard, or terminal D on 72-type dial.

(d) The 4293-type network replaces the 4228-type (MD) network. Screw terminal "G" and "L2" have been removed, also 824618227 (BK) strap lead has been removed from terminal A of network.

2.003 On Page 42, add Fig. 28.

NOTICE

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



NOTE:

THIS PARTIAL DRAWING SHOWS HOW A TELEPHONE SET MANUFACTURED AFTER 6-1-82 AND MARKED FOR "1-PTY" SERVICE CONNECTIONS IS WIRED IF IT IS EQUIPPED WITH ALL THE ABOVE LISTED COMPONENTS. A SET CAN BE MARKED "1-PTY" WITHOUT HAVING ALL THE LISTED COMPONENTS. IF THIS ARRANGEMENT IS ENCOUNTERED REFER TO THE FULL SCHEMATIC DRAWING OF THE TELEPHONE SET AND PARAGRAPH 2.02.1 (a) THROUGH (d) TO COMPARE DIFFERENCES IN THE WIRING.

† NETWORK TERMINAL C, POLARITY GUARD TERMINAL S, OR 72-TYPE DIAL TERMINAL D.

Fig. 28—2500- or 2554-Type Telephone Set, Connections (See Note)