

REFERENCE

2712B TELEPHONE SETS

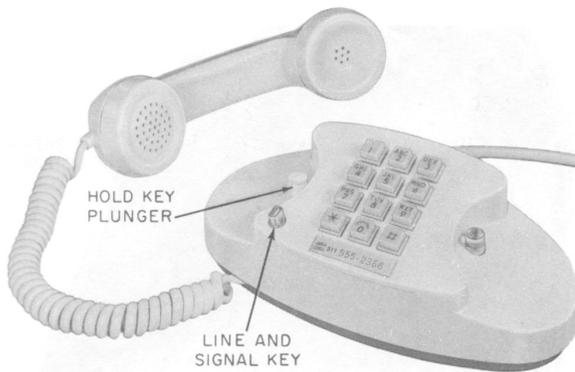


Fig. 1—2712B Telephone Set

1. GENERAL

1.01 This section contains identification, installation, maintenance, and connection information for the 2712B telephone set. This information was formerly contained in Section 502-710-103 and 502-710-442 which are hereby canceled.

2. IDENTIFICATION

Ordering Guide

2.01 Set, Telephone, 2712B-*

2.02 Replaceable Components:

- Cord, Mounting, D14L-*
- Dial, 35E4A
- Key, 638B (line and signal key)
- KS-19240L2 Dial Lamp Socket †
- KS-19387L1 Dial Lamp †
- P-25E803 Number Card Retainer

- P-26E572 Exclusion Key (Hold)

- P-84D9-* Housing

- Set, Hand, G3AR-*

* Add color suffix, refer to Section 500-120-100 for promoted colors.

† Available as D-179919 Kit of Parts.

2.03 Associated Apparatus or Equipment (ordered separately):

- 2012A transformer (dial light)
- E1-Type ringer (when required)

2.04 Optional Apparatus or Equipment (ordered separately)

- D-180229 Kit of Parts (polarity guard) consist of:

P-90D054 guard assembly

P-26E164 retainer

P-43A392 screw

Design Features

2.05 The 2712B telephone set (Fig. 1) is equipped with a 638B key for line selection and signaling.

2.06 A hold key is included and is operated by raising the left line switch plunger.

2.07 A concealed lamp 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.

SECTION 502-703-101

Application

2.08 For use on CO, PBX, or 1A1 and 1A2 key telephone system line circuits.

3. INSTALLATION

3.01 Install sets using standard installation procedures.

3.02 Dial Light Transformer: Select a 105-120 volt ac receptacle that is on a circuit not controlled by a switch. A 2012A transformer should be used with each telephone set. A 2A clamp is available to secure this transformer to the service outlet. Current production transformers have folded blade prongs for this purpose. For multiple installations, see section covering station transformers.



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.

3.03 Ringer: When an external ringer is required, install an E1-type. See section covering E1-type ringers for connections.

3.04 Polarity Guard: An optional polarity guard (ordered separately) is available for use with these sets. It is intended for use when specified by local instructions for end-to-end signaling installations, refer to Table A for connections.

3.05 Install D-180229 Kit of Parts (polarity guard) as follows:

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

(5) Reinstall dial on mounting bracket, securing the P-90D054 guard assembly mounting bracket under the right-hand dial mounting screw (Fig. 3).

(6) Reinstall housing.

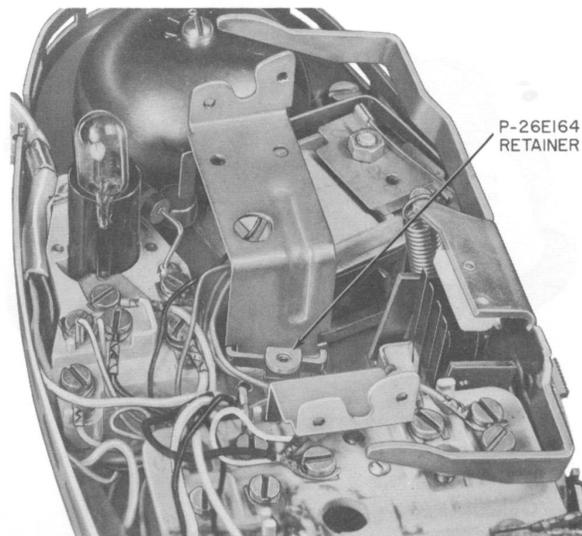


Fig. 2—Installing Terminal Board Retainer in PRINCESS Telephone Set

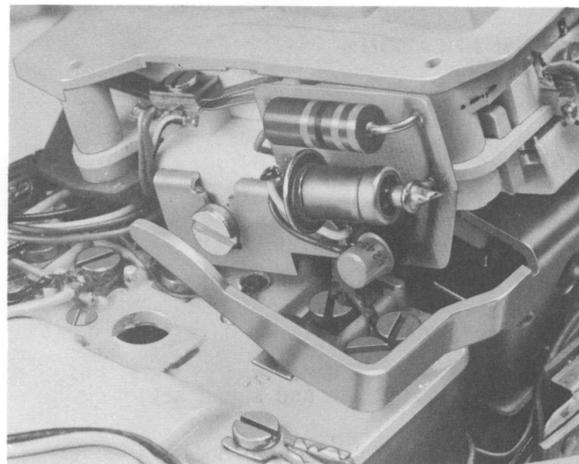


Fig. 3—Polarity Guard Mounted in PRINCESS Telephone Set

3.06 Jacks and plugs are available for portable installations of these telephone sets. Refer to appropriate section in Division 461 for selection.

4. MAINTENANCE

4.01 Maintenance of the 2700-type telephone sets is limited to replacing defective components and burnishing or adjusting switch contacts.

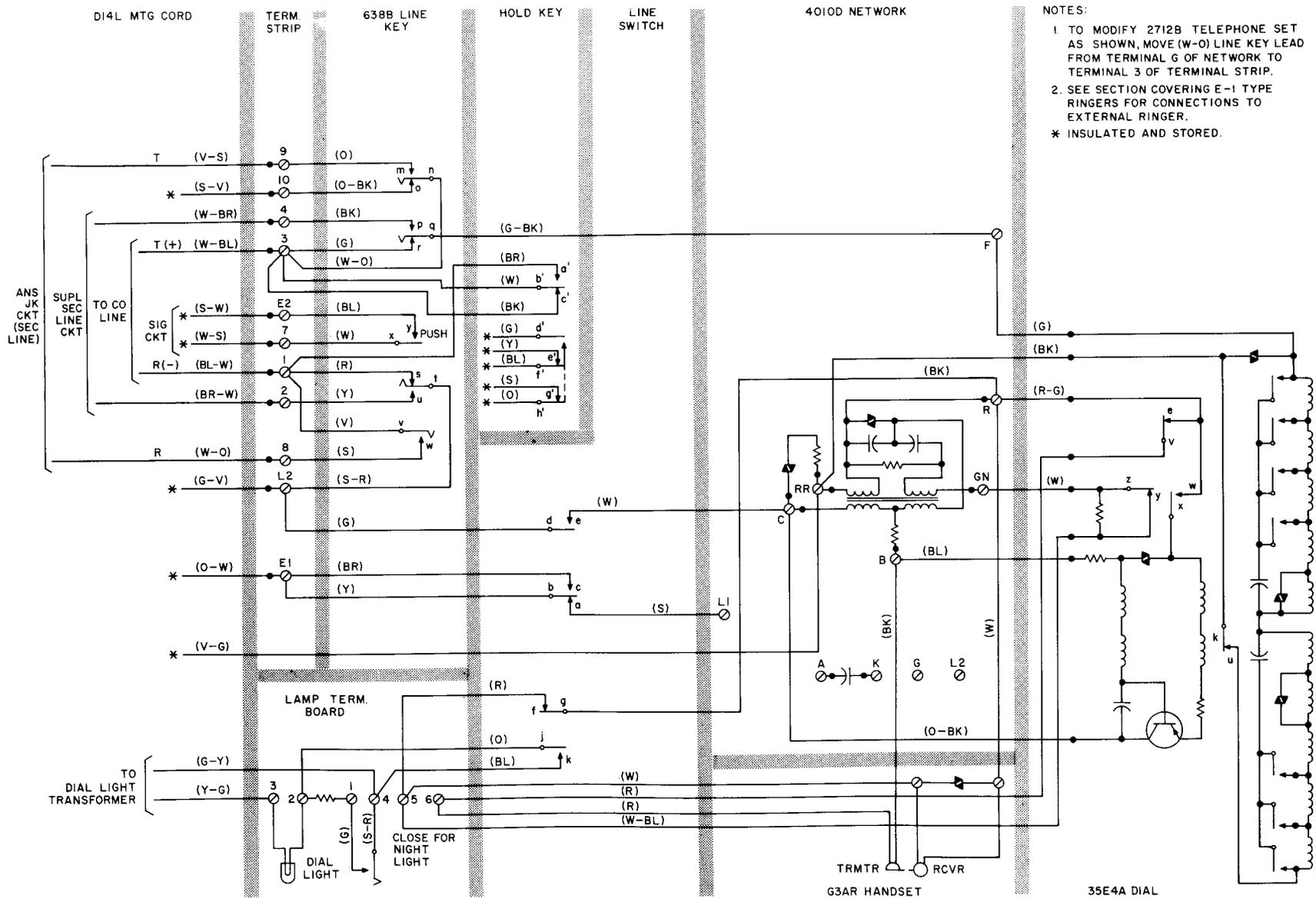
4.02 Housings, handsets, and cords may be cleaned with a damp KS-2423 (or equivalent) cloth. *Do not use scouring cleaners or volatile solvents as these may damage finish.*

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

5. CONNECTIONS

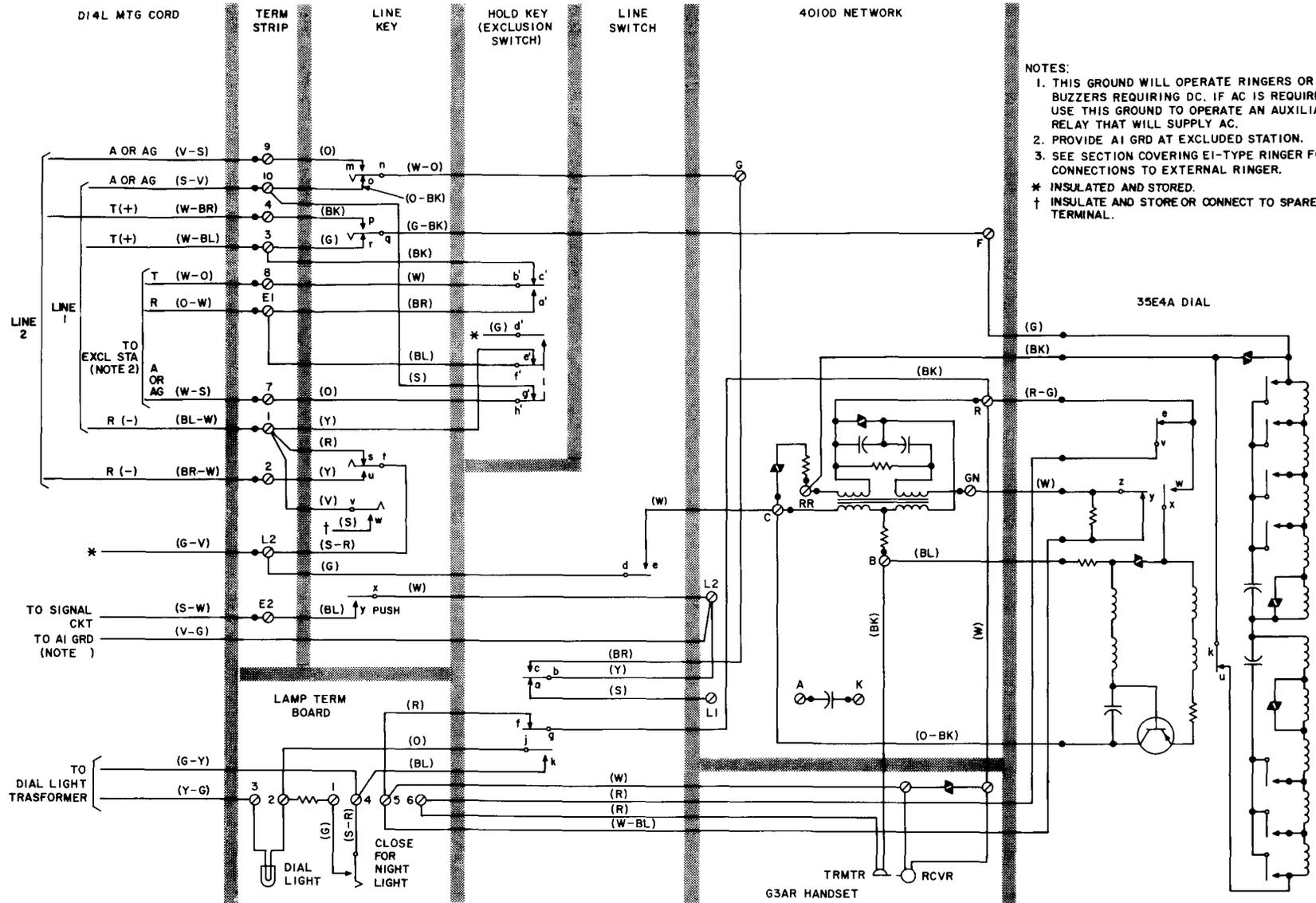


Without a polarity guard the TOUCH-TONE® dial will operate only with the orange-black dial lead connected to the negative (ring) side of the line and the green dial lead connected to the positive (tip) side.



- NOTES:
1. TO MODIFY 2712B TELEPHONE SET AS SHOWN, MOVE (W-O) LINE KEY LEAD FROM TERMINAL 6 OF NETWORK TO TERMINAL 3 OF TERMINAL STRIP.
 2. SEE SECTION COVERING E-1 TYPE RINGERS FOR CONNECTIONS TO EXTERNAL RINGER.
- * INSULATED AND STORED.

Fig. 5—2712B Telephone Set Connections, 1-Line Pickup, Hold, and Secretarial Service



- NOTES:
1. THIS GROUND WILL OPERATE RINGERS OR BUZZERS REQUIRING DC. IF AC IS REQUIRED, USE THIS GROUND TO OPERATE AN AUXILIARY RELAY THAT WILL SUPPLY AC.
 2. PROVIDE AI GRD AT EXCLUDED STATION.
 3. SEE SECTION COVERING EI-TYPE RINGER FOR CONNECTIONS TO EXTERNAL RINGER.
- * INSULATED AND STORED.
 † INSULATE AND STORE OR CONNECT TO SPARE TERMINAL.

Fig. 6—2712B Telephone Set Connections, 2-Line Pickup, Exclusion on Line 1, and Signaling (Used With 1A1 or 1A2 KTS)

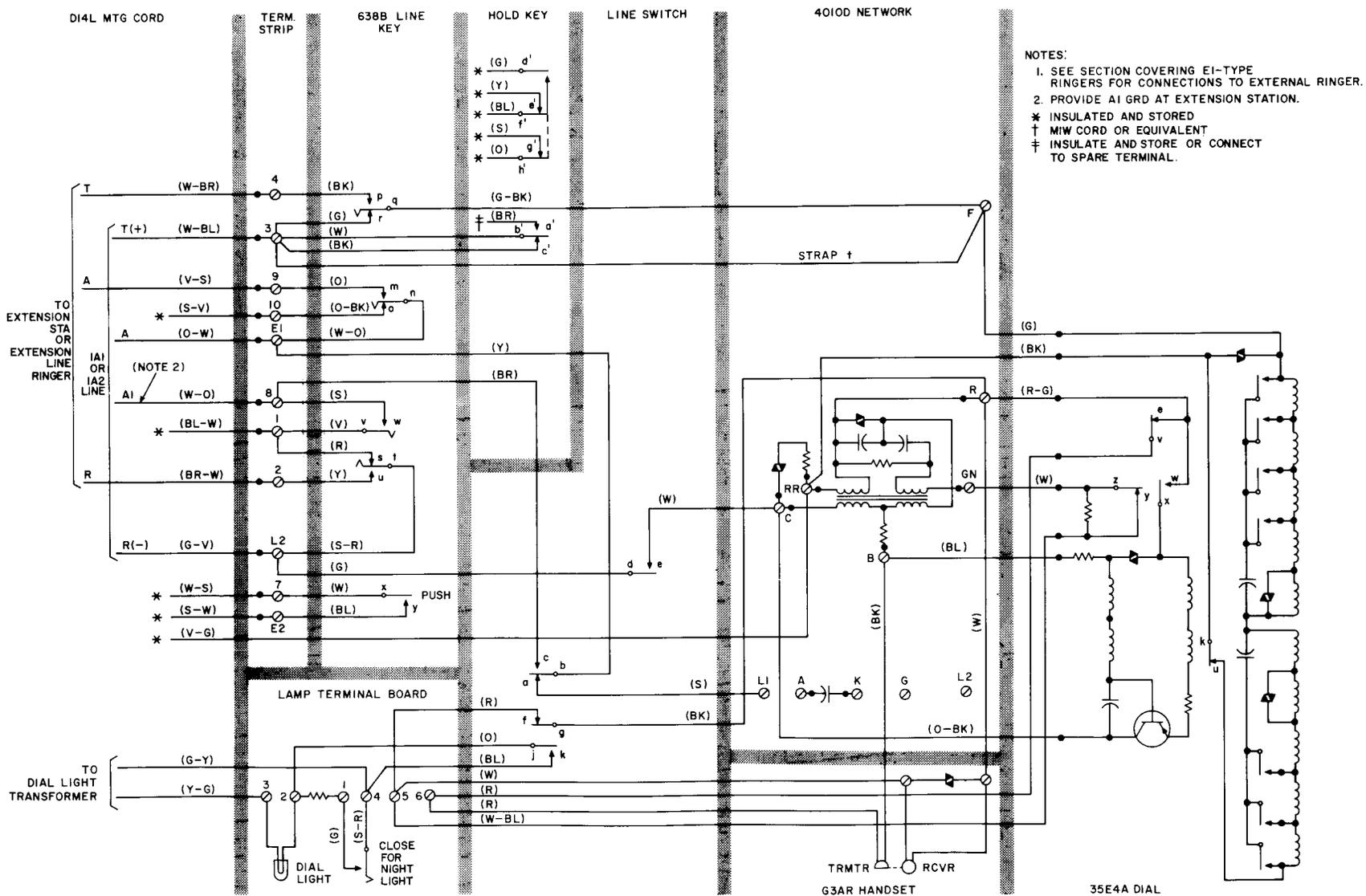


Fig. 7—2712B Telephone Set Connections, 1-Line Pickup, Cutoff Feature For Extension Station or Extension Line Ringer

TABLE A

MODIFICATION TO ADD D-180229 KIT OF PARTS
(POLARITY GUARD ASSEMBLY)

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO	
		NET.		NET.	POLARITY GUARD TERM BOARD
Dial	BK	RR			3
Line Switch	W	C			4
P-90D054 Polarity Guard	R				3
	BK				4
	G		RR		
	W			C	

TABLE B

MODIFICATION FOR EXCLUSION ON LINE 1
(NONKEY TELEPHONE SYSTEM USE)

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO		INSULATE AND STORE
		TERM. STRIP	STORED LOCATION	TERM. STRIP		
Line Key	S	8				•
Line Switch	Y	E1				•
	BR	E1				•
Hold Key (Exclusion)	BR	1		E1		
	W	3		8		
	Y		•	1		
	BL		•	E1		

Note: Connect (W-O) and (O-W) mounting cord leads to tip and ring, respectively, of excluded station at connecting block.

TABLE C

MODIFICATION FOR 1-LINE PICKUP, HOLD AND SECRETARIAL SERVICE

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO	
		TERM. STRIP	NET.	TERM. STRIP	
Line Key	W-O		G	3	
Hold Key	BR	1			*
	W	3			*
	BK	3			*

* Insulate and store.

TABLE D

MODIFICATION FOR 2-LINE PICKUP, EXCLUSION ON LINE 1, AND SIGNALING
(USED WITH 1A1 OR 1A2 KTS)

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO	
		TERM. STRIP	STORED LOCATION	TERM. STRIP	NET.
Line Key	S	8		*	
	W	7			L2
Exclusion Key	BR	1		E1	
	W	3		8	
	Y		•	1	
	BL		•	E1	
	S		•	10	
Line Switch	O		•	7	
	BR	E1			G
	Y	E1			L2
D14L Mtg Cord	V-G	RR†			L2

* Insulate and store.

† Network terminal.

TABLE E

MODIFICATION FOR 1-LINE PICKUP, CUTOFF FEATURE FOR EXTENSION STATION OR EXTERNAL LINE RINGER

WIRE OR LEAD	COLOR	REMOVE FROM		CONNECT TO	
		TERM. STRIP		TERM. STRIP	NET.
Line Key	W-O	G‡		E1	
Hold Key	BR	1		†	
Line Switch	BR	E1		8	
Strap*				3	F

* M1W cord or equivalent.

† Insulate and store.

‡ Network terminal.