

**SERVICE**  
**2500D, 2500DM, AND 2500DMG TELEPHONE SETS**  
**CONNECTIONS**

**1. GENERAL**

**1.01** This section contains information on the 2500D (MD), 2500DM, and 2500DMG telephone sets (Fig. 1, 2, 3, or 4 and Table A).

**1.02** This section is being reissued to add information on 2500DMG telephone set equipped with 72-type dial Fig. 4. Revision arrows are used to emphasize the more significant changes.

**1.03** ♦Early version 2500DMG telephone sets are equipped with a 35-type dial plus a separate polarity guard, later version 2500DMG telephone sets will be equipped with a 72-type dial which has a built-in polarity guard. Refer to Table C for modifications when replacing 35-type dial with a 72-type dial. Refer to Section 502-503-101 for additional information on 72-type dial when used with 2500-type telephone sets.♦

**1.04** If 28A ringer isolator is used for ringing range extension or ringer isolation, refer to Section 501-375-101.

**1.05** For 4-party full selective or 8-party semiselective ringing using the 425A electron tube, refer to Section 501-320-100.

**1.06** If the 603A ringing extender is required, refer to Section 501-380-102.

**1.07** When end-to-end signaling is provided, install a 2500DMG set or add the D-180896 Kit of Parts (polarity guard) to a 2500D or 2500DM set. Refer to Table B for polarity guard connection information and Section 502-503-101 for installation information.

**NOTICE**

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

SECTION 502-523-401

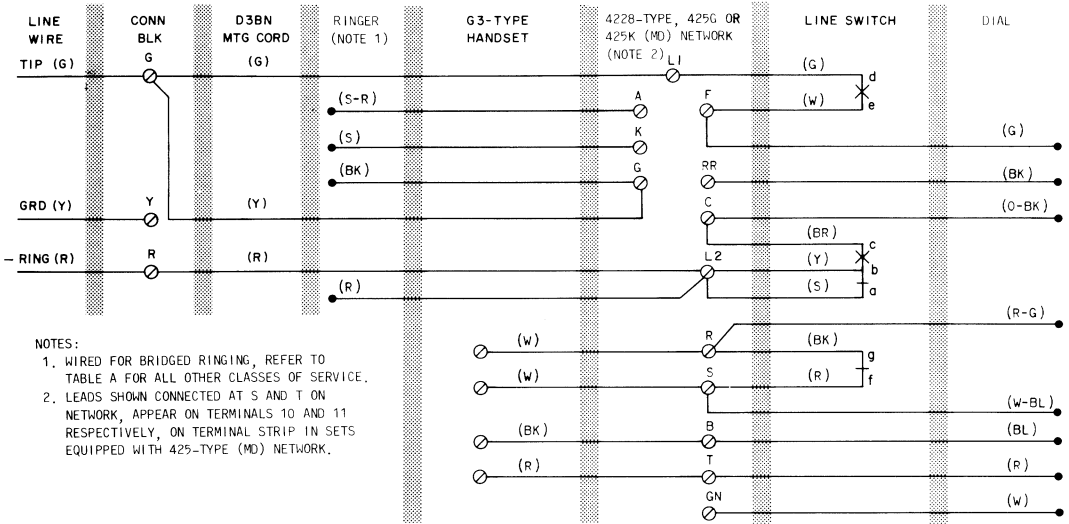
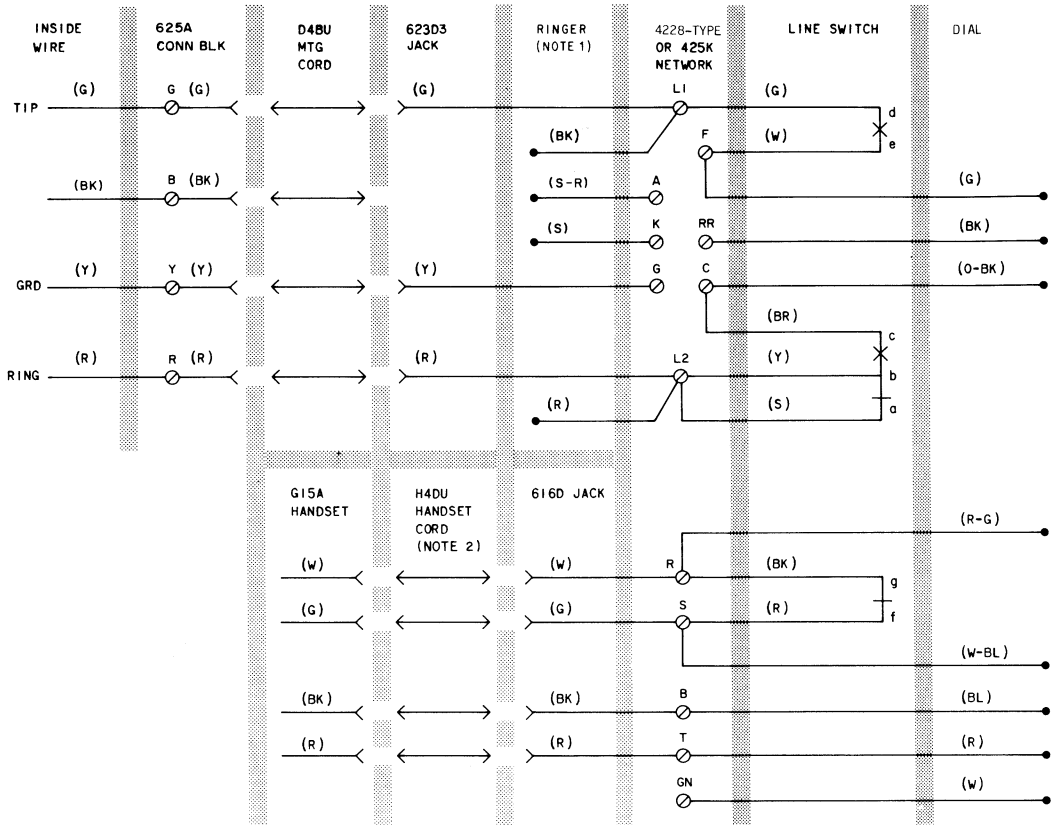
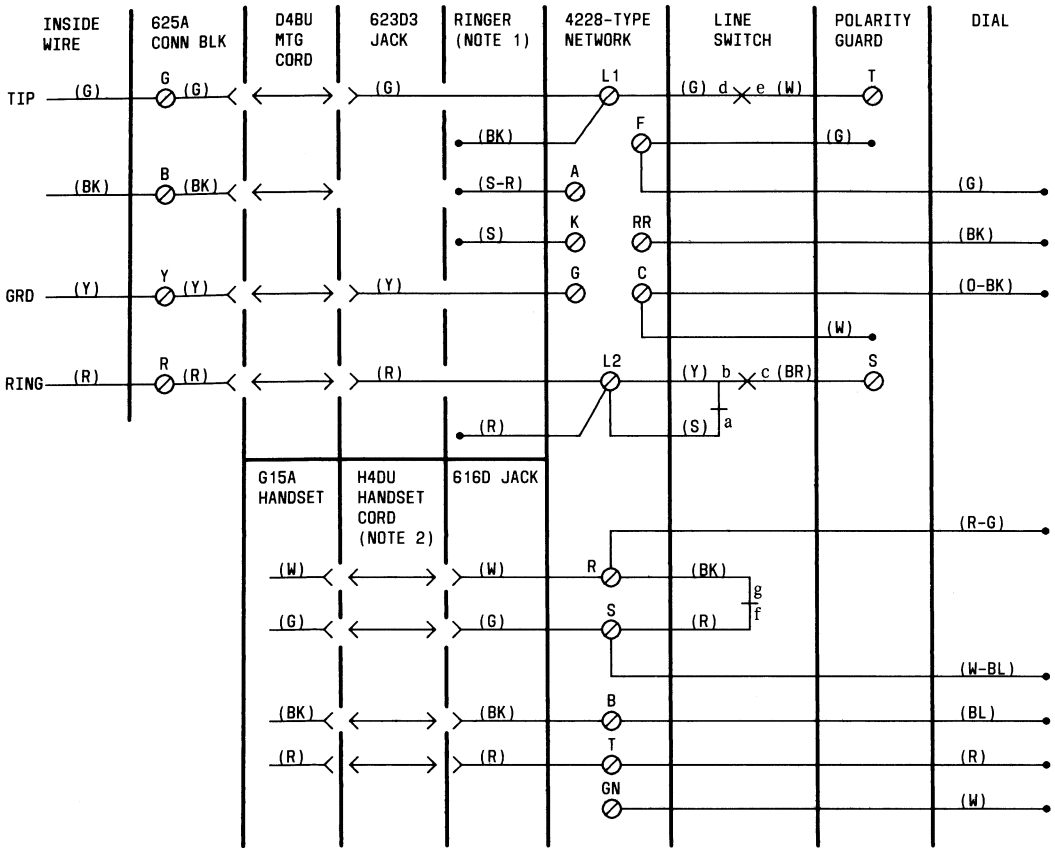


Fig. 1—2500D (MD) Telephone Set, Connections



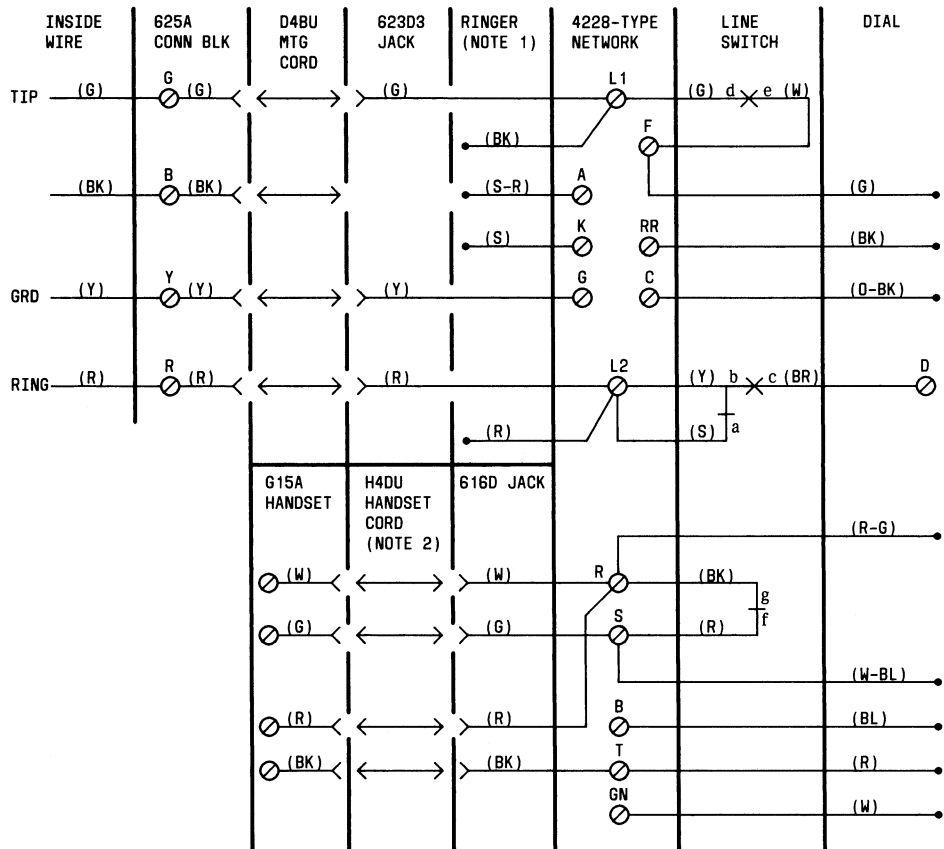
- NOTES:  
 1. SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED RINGING.  
 SEE TABLE A FOR ALL CLASSES OF SERVICE.  
 2. MUST BE ORDERED SEPARATELY

Fig. 2—2500DM Telephone Set, Connections



- NOTES:  
 1. SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED RINGING.  
 SEE TABLE A FOR ALL CLASSES OF SERVICE.  
 2. MUST BE ORDERED SEPARATELY

Fig. 3—2500DMG Telephone Set Equipped With 35-Type Dial and Polarity Guard, Connections



NOTES:

1. SET FACTORY WIRED FOR INDIVIDUAL OR BRIDGED RINGING.  
SEE TABLE A FOR ALL CLASSES OF SERVICE.
2. MUST BE ORDERED SEPARATELY

Fig. 4—2500DMG Telephone Set Equipped With 72-Type Dial, Connections

♦TABLE A ♦

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

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	L1	L1
	G	L1	L1	L1	L2	L2
	Y	G	G	G	G	G
Jack Conductors in Modular Set, 2500DM or 2500DMG only	R	L2	L2	L2	L1	L1
	G	L1	L1	L1	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	L1	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

♦TABLE B♦

## POLARITY GUARD CONNECTIONS (SEE NOTE)

POLARITY GUARD	WIRE OR LEAD	COLOR	REMOVE FROM	CONNECT TO	
			NET.	NET.	POLARITY GUARD
D-180896 Kit of Parts	Line Switch	W	F		T
		BR	C		S
	Guard Assembly	G		F	
		W		C	
819040528 (P-90D052) (MD)	Line Switch	W	F		T
		BR	C		S
	Polarity Guard	G		F	
		W		C	

Note: For use with a 35-type dial when specified by local instructions for end-to-end signaling installations.

♦TABLE C♦

## MODIFICATION TO REPLACE 35-TYPE DIAL WITH 72-TYPE DIAL, IN 2500-TYPE TELEPHONE SETS

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	S	S
	O-BK	C	C
	BK	RR	RR
	R	T	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	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.