

REFERENCE  
2500D AND 2554B TELEPHONE SETS



2500 AND 2554 TYPE TELEPHONE SET

Fig. 1—2500 and 2554 Type Telephone Set

**SECTION 502-503-101**

**1. GENERAL**

**1.01** This section provides identification, installation, maintenance, and connection information for general purpose telephone sets previously contained in Sections 502-510-121, 502-510-450, and 502-510-460 which are hereby canceled.

**2. IDENTIFICATION**

**Purpose**

**2.01** General purpose wall- and desk-type telephone sets equipped with a 12-button TOUCH-TONE® dial.

**Ordering Guide (Refer to Table B)**

**2.02 Basic Telephone Sets:**

- Set, Telephone, 2500D-\*
- Set, Telephone, 2554B-\*

\* Refer to Table A for colors.

**TABLE A  
COLOR ORDERING GUIDE\***

TEL SET, CORD HOUSING, HANDSET COLOR		COORDINATED FACEPLATE † COLOR	
Black	-03	Charcoal	-70
Ivory	-50	Muted Ivory	-80
Moss Green	-51	Light Green	-71
Red	-53	Muted Red	-69
Pastel Yellow	-56	Light Yellow	-72
White	-58	Light Gray	-73
Rose Pink	-59	Muted Pink	-74
Light Beige	-60	Muted Beige	-75
Light Gray	-61	Charcoal	-70
Aqua Blue	-62	Muted Blue	-76
Turquoise	-64	Muted Turquoise	-77

\* Refer to Section 500-120-100 for promoted colors.

† Faceplates of same color as housing may be ordered (optional).

**Design Features and Application**

**2.03** The 2500D and 2554B telephone sets are general purpose desk- and wall-type sets, respectively, for use in PBX, individual and party line service, and special service connections.

**Optional Features**

**2.04 End-to-End Signaling:** Requires installation of guard assembly (see Table C).

**3. MAINTENANCE**

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

**3.02** To remove housing on 2554-type telephone set:

- (1) Remove number card and number card holder with KS-16750 type releaser.
- (2) Loosen captive screws located beneath number card.
- (3) Remove housing.
- (4) To replace housing, reverse procedure.

**3.03** Plungers, operating bracket switch and line switch shall move freely without binding or squeaking.

- Clean with KS-2423 cloth moistened with KS-7860 petroleum spirits.
- Lubricate plungers and bearing surfaces with No. 2 or softer graphite pencil.

**3.04** Clean line switch contacts when required with a 265C tool. Replace set if other trouble exists in the line switch assembly.

**TABLE B**  
**COMPONENT ORDERING GUIDE\***

REPLACEABLE COMPONENTS	TELEPHONE SETS	
	2500D	2554B
Cord, Mounting	D3BN	
Dial	35A3A	35A3A
Housing	P-83A300	P-82H600
Plate, Face, Assembly	P-86D500†	
Retainer, Card	P-25E803	P-25E803
Ringer	C4A	P1A
Set, Hand	G3AR	G3AR
OPTIONAL		
Cord, Mounting‡	D3BU	
Guard Assembly	P-90D052	P-90D053

\* Refer to Table A for color selection.

† Includes P-25E803 card retainer.

‡ Heavy duty, replaces D3BN in 9-, 13-, and 25-foot lengths.

**TABLE C**  
**GUARD ASSEMBLY CONNECTIONS FOR 2500D AND 2554B TELEPHONE SETS**

WIRE OR LEAD	REMOVE FROM	CONNECT TO
Dial	(BK)	RR net.
Line Switch	(BR)* (BL)†	C net.
M1W Cord‡		
Guard Assembly	(G)	Term. RR net.
	(W)	Term. C net.

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

\* Factory-wired telephone set.

† 2554B set wired for 1A1 or 1A2 KTS.

‡ 2554B set not equipped with j-k switch contacts and associated (O) and (BL) leads.

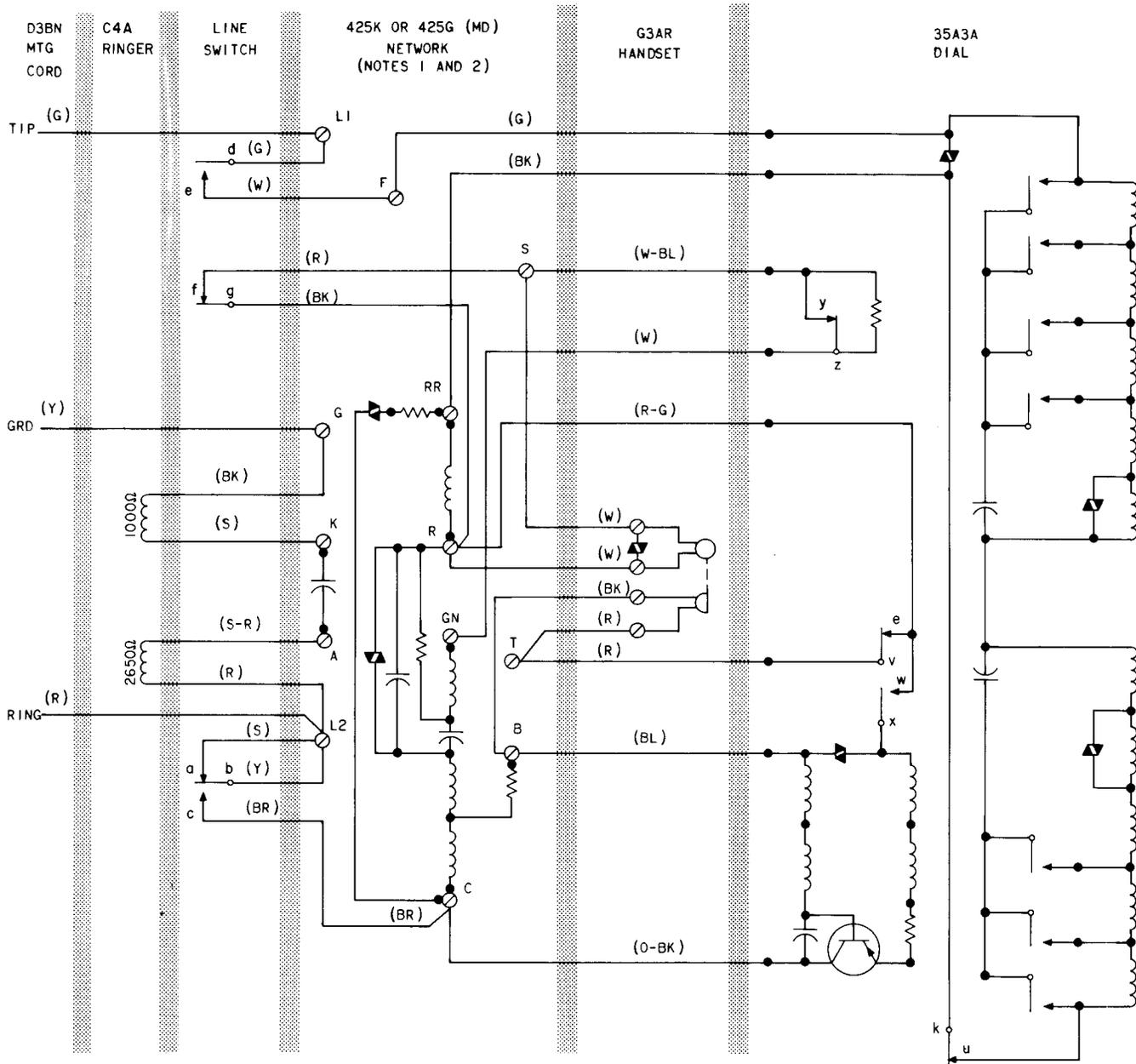
**TABLE D**  
**LINE AND RINGER CONNECTIONS FOR 2500D TELEPHONE SET**

WIRE OR LEAD			INDIV OR BRIDGED	RING PARTY	TIP PARTY		
					NO IDENT. GROUND	IDENT. GROUND	
						1000Ω	2650Ω
Mtg. Cord at Conn Block	Tip	G	G	G	G	R	R
	Gnd	Y	G	Y	Y	Y	Y
	Ring	R	R	R	R	G	G
Ringer Leads		R	L2	L2	L1	K	B
		S-R	A	A	A	B	G
		S	K	K	K	B	K
		BK	G	G	G	G	B
Line Switch Leads		S	L2	L2	L2	A	A
		W	F	F	F	C	C
		BR	C	C	C	F	F

**Note:** To silence ringer permanently:

- For all classes except identification ground, connect (Y) mounting cord lead with (R) mounting cord lead at connecting block.
- For 1000Ω gnd — insulate and store (S-R) ringer lead on unused terminal.
- For 2650Ω gnd — insulate and store (BK) ringer lead on unused terminal.

SECTION 502-503-101



NOTES:

1. EARLY PRODUCTION SETS HAVE 425G (MD) NETWORKS AND P-25E845 TERMINAL STRIP ASSEMBLY. CURRENT PRODUCTION SETS HAVE 425K NETWORKS AND NO TERMINAL STRIP ASSEMBLY.
2. LEADS SHOWN CONNECTED AT TERMINALS S AND T ON 425K NETWORK ARE CONNECTED AT TERMINAL STRIP, TERMINALS 10 AND 11 RESPECTIVELY, IN SETS EQUIPPED WITH 425G (MD) NETWORKS.
3. SET IS FACTORY WIRED FOR RING PARTY. SEE TABLE D FOR CLASSES OF SERVICE NOT SHOWN.
4. LINE SWITCH OFF-HOOK SEQUENCE:  
 (1) bc CLOSES (3) ab OPENS  
 (2) de CLOSES (4) fg OPENS

Fig. 2—2500D Telephone Set, Connections





TABLE E

## LINE AND RINGER CONNECTIONS FOR 2554B TELEPHONE SET

WIRE OR LEAD			INDIV. OR BRIDGED	RING PARTY	TIP PARTY		
					NO IDENT. GROUND	IDENT. GRD.	
						1000 $\Omega$	2650 $\Omega$
Inside Wire	Tip	(G)	1	1	2	2	2
	Ring	(R)	2	2	1	1	1
	Grd	(Y)		3	3	3	3
Ringer Leads		(BK)	1	3	3	3	3
		(BL)	*	*	*	*	*
		(S)	*	*	*	B	*
		(S-R)	*	*	*	*	B
		(R)	K	K	K	K	K
Line Switch		(W)	F	F	C	C	C
		(S)	A	A	A	A	A
		(BR)	C	C	F	F	F

\*Insulate and store.

**Notes:** To silence ringer permanently:

1. For all classes except identification ground insulate and store (BK) ringer lead on unused terminal.
2. For tip party with 1000 ohm or 2650 ohm identification ground remove, insulate, and store on unused terminal the (R) ringer lead at K of the network.

TABLE F

**MODIFICATION FOR USE WITH 1A1 OR 1A2 KEY TELEPHONE SYSTEM  
FOR 2554B TELEPHONE SET**

WIRE OR LEAD		REMOVE FROM		CONNECT TO		INSULATE AND STORE
		TERM. STRIP	NET.	TERM. STRIP	NET.	
Line Switch	(S)		A			●
	(Y)	2			L2	
	(O)*		L2	2		
	(BR)		C	3		
	(BL)*		L2		C	
Place M1W Cord or Strap				2 ← → A		
P1A	(R)		K <sub>3</sub>	R1	Ring lead using D-161488† connector	
Ringer	(BK)	1		B1		
Inside Wire	(G) Tip				1	
	(R) Ring				2	
	(BK) A					L2
	(Y) A1				3	
	R1			(R)	.Ringer lead using D-161488† connector	
	B1			(BK)		

\*Connect these leads as shown in sets equipped with j-k line switch contacts, otherwise connect M1W cord from terminal 2 to C of network.

†See Note 2, Fig. 4.