

SERVICE

2660-TYPE TELEPHONE SETS

1. GENERAL

1.01 This section provides connection information for the 2660-type telephone sets. This information was formerly found in Section 502-660-420 which will be canceled.

1.02 The 2660-type telephone set is furnished in the A1 code only. Modification kits are

available for field conversion to provide exclusion, signaling, and/or 2-line pickup.

1.03 Refer to appropriate section in Division 502 for kit of parts and mounting cords (ordered separately) when any of these features are required.

1.04 Speakerphone connections are covered in Division 512.

Code	1	2	3	4	5	6	7	8	9	0	Letter	Notes
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

\* Includes 1000 with 1000 mounting cord  
 † Includes 1000 with 1000 mounting cord  
 ‡ Includes 1000 and 1000  
 § Includes 1000 and 1000 mounting cord

TABLE A

## LINE AND RINGER CONNECTIONS — 2660A1 AND 2660A2 TELEPHONE SETS

WIRE OR LEAD			INDIV OR BRIDGED	RING PARTY	TIP PARTY			1A1 OR 1A2* KEY TEL SYSTEM	EXCLUSION† (2660A2 ONLY)
					NO IDENT GROUND	IDENT GROUND			
						1000 Ω	2650 Ω		
Mounting Cord at Connecting Block	Tip	(G)	G	G	G	G	G	G	1
	Ring	(R)	R	R	R	R	R	R	2
	Grd A1	(Y)	G	Y	Y	Y	Y	Y	4
	A	(BK)						BK	5
	ET	(BL)							6
	ER	(W)							7
Mounting Cord in Set	Tip	(G)	G	G	G	G	G	A	G
	Ring	(R)	L2	L2	L2	L2	L2	L2	L2
	Grd A1	(Y)	A	A	A	L1	L1	G	A
	A	(BK)						F	‡
	ET	(BL)							6§
	ER	(W)							5§
Ringer Leads	(R)		7	7	7	7	7	7	7
	(BK)		6	6	6	6	6	6	6
	(S)		‡	‡	‡	5	‡	‡	‡
	(S-R)		‡	‡	‡	‡	5	‡	‡
Line Switch	(BR)		F	F	F	F	F	F	F
	(W)		C	C	C	C	C	C	C
	(S)		‡	‡	‡	K	K	‡	‡
Dial	(G)		F	F	F	F	F	A	F
Ringer Straps	(G)		7 to L2	7 to L2	7 to G	7 to A	7 to A	7 to L2	7 to L2
	(G-R)		6 to K	6 to K	6 to K	6 to L1	6 to L1	6 to K	6 to K
Exclusion Straps (2660A2 only)	(BR)								G to 1§
	(S)								L2 to 2§

\* Replace D3BN with D4BK mounting cord.

† Replace D3BN with D6AF mounting cord.

‡ Insulate and store.

§ Terminals on exclusion terminal board.

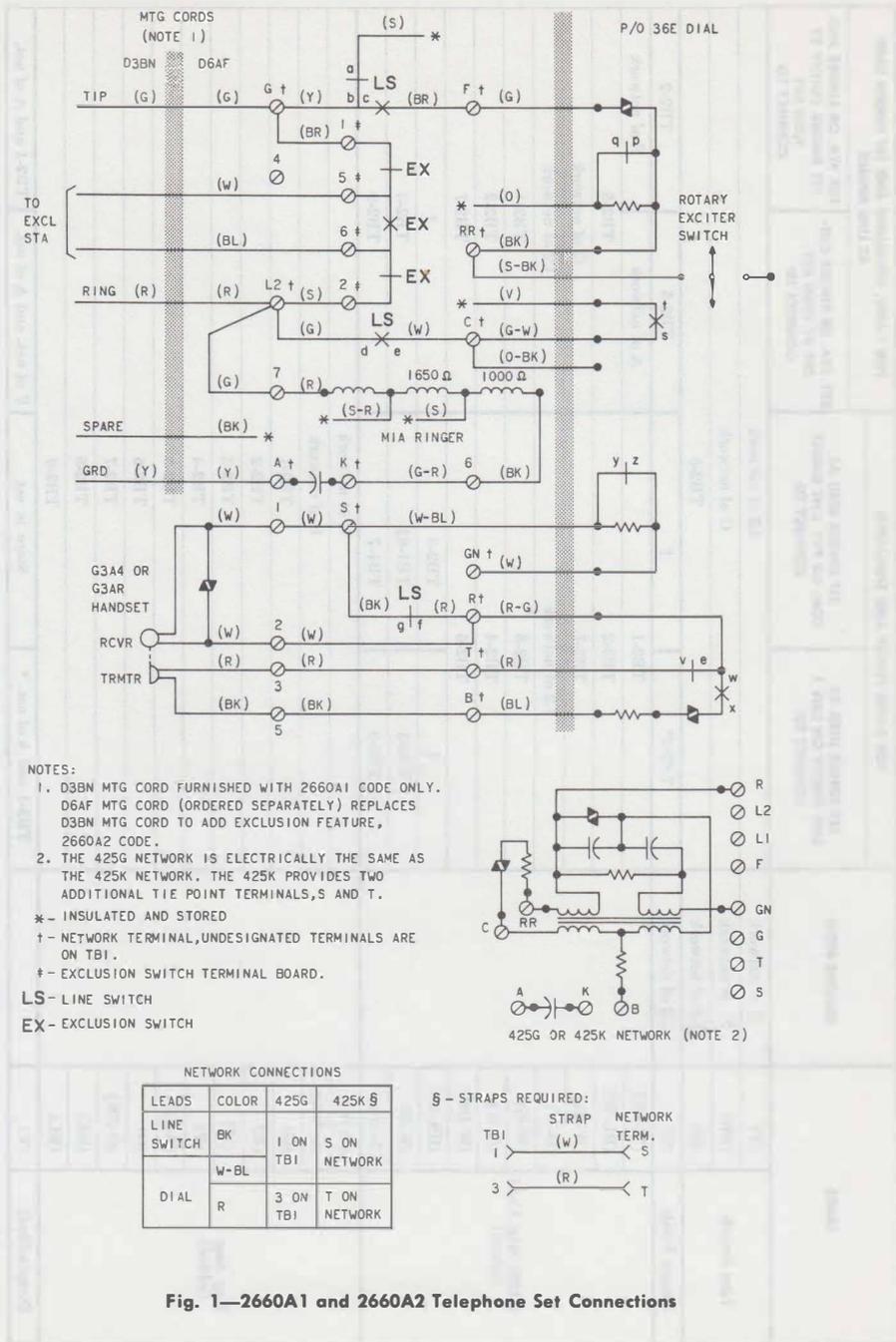


Fig. 1—2660A1 and 2660A2 Telephone Set Connections

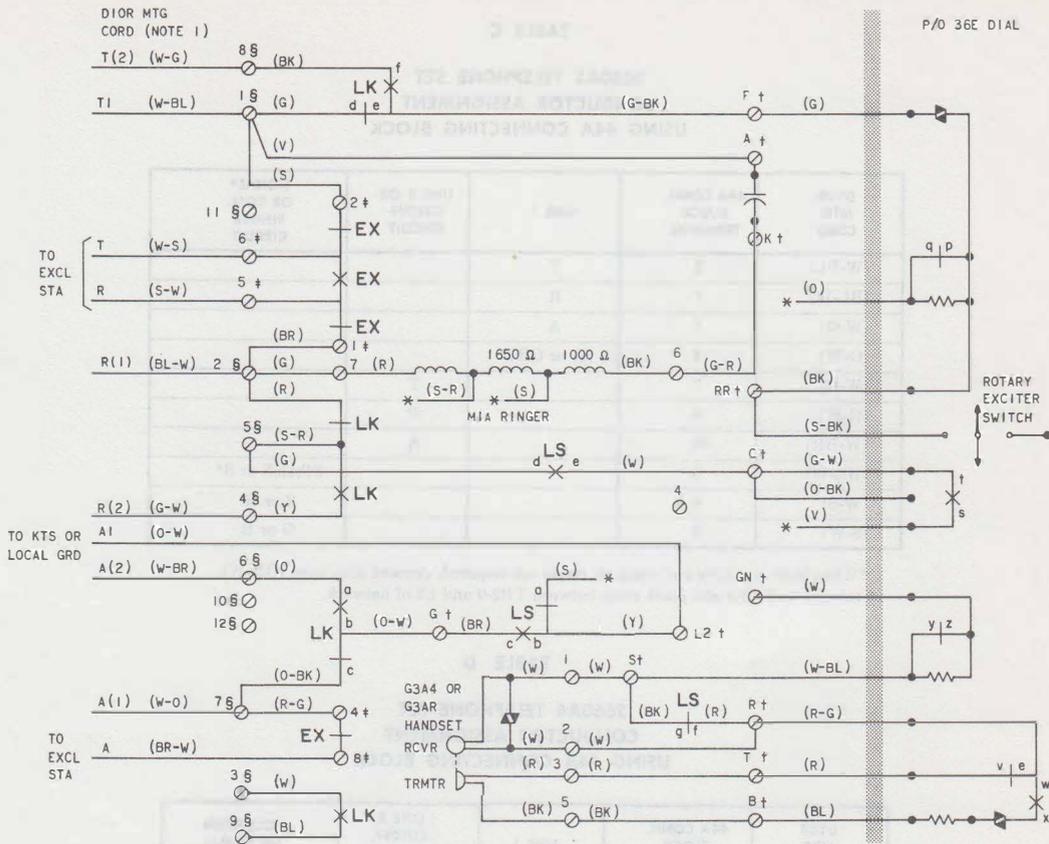
TABLE B — CONVERSION OF 2660A1 TO 2660A3 TELEPHONE SETS

LEADS		REMOVE FROM	FOR 2-LINE PICKUP AND SIGNALING		FOR 1-LINE, SIGNALING AND SET RINGER USED AS LINE RINGER		
			SET RINGER USED AS LINE RINGER ON LINE 1 CONNECT TO	SET RINGER USED AS COM. OR PVT. LINE RINGER CONNECT TO	EXT. STA. OR RINGER CUT-OFF BY TURN KEY CONNECT TO	EXT. STA. OR RINGER AND SET RINGER CUTOFF BY TURN KEY CONNECT TO	
Line Switch	(Y)	G of network	L2 of network				
	(BR)	F of network	G of network				
	(G)	L2 of network	TB2-5				
Ringer Strap	(G)	L2 of network	TB2-2*	†	TB2-5	TB2-2	
D10R Mtg. Cord (added)	(W-BL)		TB2-1		A of network	F of network	
	(BL-W)		TB2-2		TB2-5		
	(W-O)		TB2-7		G of network		
	(O-W)		L2 of network		L2 of network		
	(W-G)		TB2-8		TB2-1		
	(G-W)		TB2-4		TB2-2		
	(W-BR)		TB2-6		TB2-7		
	(BR-W)		†	TB2-3		†	
	(W-S)		TB2-3	TB1-6‡		TB2-3	
(S-W)	TB2-9	TB1-7		TB2-9			
Key Assy (added)	(O-W)		G of network				
	(G-BK)		F of network				
	(G)		TB2-1				
	(R)		TB2-2				
	(W)		TB2-3				
	(Y)		TB2-4				
	(S-R)		TB2-5				
	(O)		TB2-6				
	(●-BK)		TB2-7				
	(BK)		TB2-8				
(BL)	TB2-9						
Strap(added)	(V)		TB2-1 and A of net. *	Store in set	F of net. and A of net.	TB2-1 and A of net.	

\*For ringer on line 2 move strap (G) from TB2-2 to TB2-4 and strap (V) from TB2-1 to TB2-8.

†Insulate and store.

‡Ringer connected without capacitor for common or private line ringing. If common audible signal power failure feature is provided, connect capacitor in circuit by moving mounting cord (W-S) lead from TB1-6 to A of network.



- NOTES:
1. THE 2660A3 CODE PROVIDES FOR 2-LINE PICKUP AND SIGNALING. 2660A4 CODE ADDS EXCLUSION FEATURE. INSULATE AND STORE UNUSED MTG CORD CONDUCTORS.
  2. THE 425G NETWORK IS ELECTRICALLY THE SAME AS THE 425K NETWORK. THE 425K PROVIDES TWO ADDITIONAL TIE POINT TERMINALS, S AND T.

\* - INSULATED AND STORED  
 † - NETWORK TERMINAL, UNDESIGNATED TERMINALS ARE ON TBI  
 ‡ - EXCLUSION SWITCH TERMINAL BOARD  
 § - TERMINAL BOARD 2

LS - LINE SWITCH  
 LK - LINE KEY  
 EX - EXCLUSION SWITCH

NETWORK CONNECTIONS

LEADS	COLOR	425G	425K
LINE SWITCH	BK	1 ON TBI	S ON NETWORK
	W-BL		
DIAL	R	3 ON TBI	T ON NETWORK

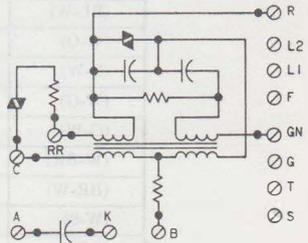
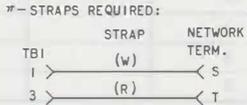


Fig. 2—2660A3 and 2660A4 Telephone Set, Connections

TABLE C

**2660A3 TELEPHONE SET  
CONDUCTOR ASSIGNMENT  
USING 44A CONNECTING BLOCK**

D10R MTG CORD	44A CONN. BLOCK TERMINAL	LINE 1	LINE 2 OR CUTOFF CIRCUIT	SIGNAL* OR COM. RINGER CIRCUIT
(W-BL)	2	T		
(BL-W)	1	R		
(W-O)	5	A		
(O-W)	4	A1 or GRD		
(W-G)	7		T	
(G-W)	6		R	
(W-BR)	10		A	
(BR-W)	9			SPARE or S*
(W-S)	8			S or R
(S-W)	3			G or B

\*When both signaling and common ringer are required, connect mtg. cord (BR-W) set end to TB2-3 and place strap between TB2-9 and L2 of network.

TABLE D

**2660A4 TELEPHONE SET  
CONDUCTOR ASSIGNMENT  
USING 44A CONNECTING BLOCK**

D10R MTG CORD	44A CONN. BLOCK TERMINAL	LINE 1	LINE 2, CUTOFF, OR SIGNAL CIRCUIT	EXCLUSION OR SIGNAL CIRCUIT
(W-BL)	2	T		
(BL-W)	1	R		
(W-O)	5	A		
(O-W)	4	A1 or GRD		
(W-G)	7		T or S*	
(G-W)	6		R or G*	
(W-BR)	10		A or SPARE	
(BR-W)	9			A or SPARE
(W-S)	8			T or S
(S-W)	3			R or G

\*Used when both signaling and exclusion are required.

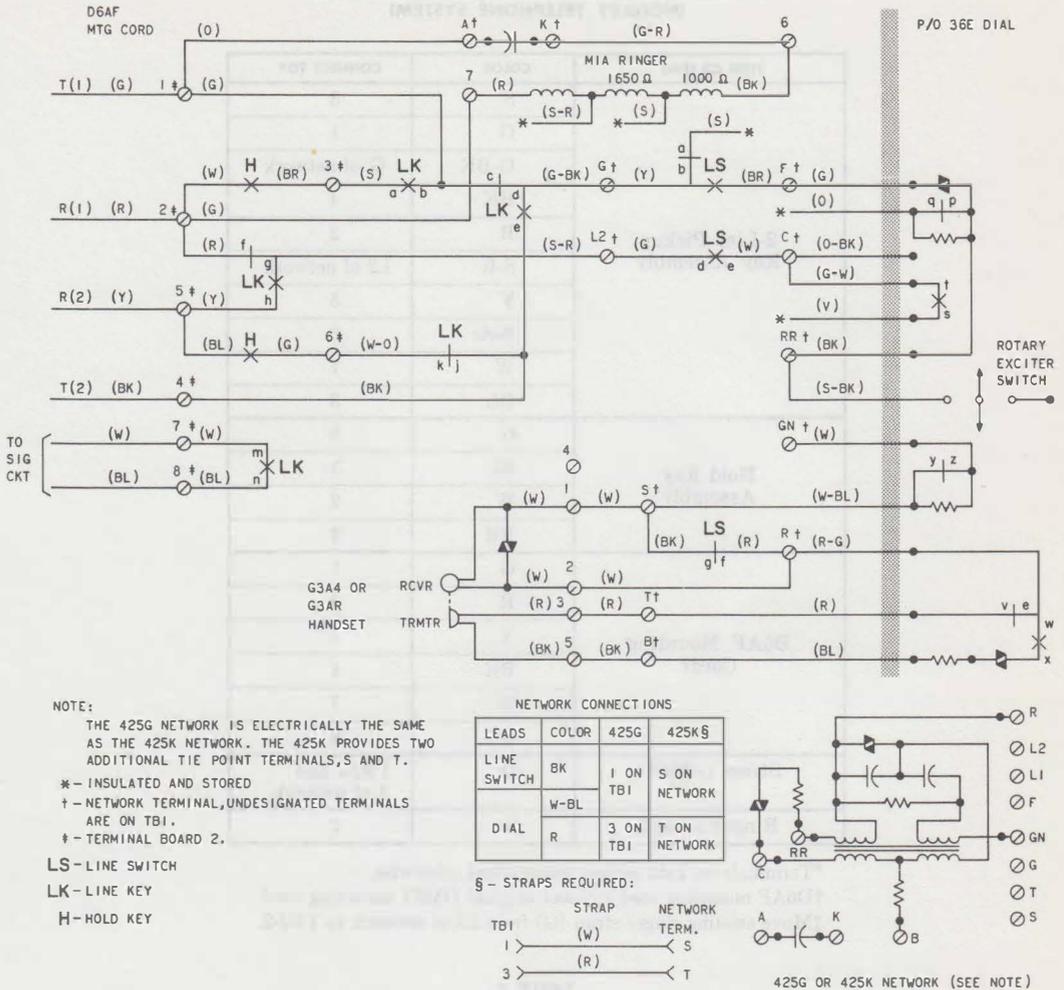


Fig. 3—2660A1 Telephone Set Modified for 2-Line Pickup and Hold (Nonkey Telephone Systems)

TABLE E

**MODIFICATION FOR 2-LINE PICKUP AND HOLD  
(NONKEY TELEPHONE SYSTEM)**

WIRE OR LEAD	COLOR	CONNECT TO*
2-Line Pickup Key Assembly	S	3
	G	1
	G-BK	G of network
	BK	4
	R	2
	S-R	L2 of network
	Y	5
	W-O	6
	W	7
	BL	8
Hold Key Assembly	G	6
	BL	5
	W	2
	BR	3
D6AF Mounting Cord†	G	1
	R	2
	Y	5
	BK	4
	W	7
Strap (added)	O	TB2-1 and A of network
Ringer Strap‡	G	2

\*Terminals on TB2 except where noted otherwise.

†D6AF mounting cord replaces original D3BN mounting cord.

‡Move existing ringer strap (G) from L2 of network to TB2-2.

TABLE F

**P-90D012 POLARITY GUARD CONNECTIONS**

	TEL SET LEADS			POLARITY GUARD LEADS	
	(W) LINE SWITCH	(G-W) DIAL	(BK) DIAL	(W)	(G)
Remove From	C of network		RR of network	—	—
Connect To	S of polarity guard		T of polarity guard	C of network	RR of network

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

**TABLE G**  
**CONVERSION OF 2660A1 TO 2660A4 TELEPHONE SETS**

LEADS		REMOVE FROM	FOR 2-LINE PICKUP — RINGER ON LINE 1	
			WITH EXT EXCL CONNECT TO	WITH SIG AND SET RINGER CUTOFF BY EXCL SWITCH CONNECT TO
Line Switch	(Y)	G of net.	L2 of net.	L2 of net.
	(BR)	F of net.	G of net.	G of net.
	(G)	L2 of net.	TB2-5	TB2-5
Ringer Strap	(G)	L2 of net.	TB2-2*	Excl TB-6
D10R Mtg. Cord (added)	(W-BL)		TB2-1	TB2-1
	(BL-W)		TB2-2	TB2-2
	(W-O)		TB2-7	TB2-7
	(O-W)		L2 of net.	L2 of net.
	(W-G)		TB2-8	TB2-8
	(G-W)		TB2-4	TB2-4
	(W-BR)		TB2-6	TB2-6
	(BR-W)		Excl TB-8	‡
	(W-S)		Excl TB-6	TB2-3
	(S-W)		Excl TB-5	TB2-9
Key Assy (added)	(O-W)		G of net.	
	(G-BK)		F of net.	
	(G)		TB2-1	
	(R)		TB2-2	
	(W)		TB2-3	
	(Y)		TB2-4	
	(S-R)		TB2-5	
	(O)		TB2-6	
	(O-BK)		TB2-7	
	(BK)		TB2-8	
(BL)		TB2-9		
Straps (added)	(V)		TB2-1 and A of net.*	A of net and Excl TB-5
	(S)		TB2-1 and Excl TB-2†	TB2-1 and Excl TB-2
	(BR)		TB2-2 and Excl TB-1†	TB2-2 and Excl TB-1
	(R-G)		TB2-7 and Excl TB-4†	‡

\* For ringer on line 2, move strap (G) from TB2-2 to TB2-4 and strap (V) from TB2-1 to TB2-8.

† For exclusion on line 2, move strap (S) from TB2-1 to TB2-8, strap (BR) from TB2-2 to TB2-4, and strap (R-G) from TB2-7 to TB2-6.

‡ Insulate and store.

**TABLE G (Cont)**  
**CONVERSION OF 2660A1 TO 2660A4 TELEPHONE SETS**

LEADS		REMOVE FROM	FOR 1-LINE PICKUP — SET RINGER USED AS LINE RINGER		
			WITH EXT EXCL AND EXT STA OR RINGER CUTOFF BY TURN KEY CONNECT TO	WITH SIG, EXT STA OR RINGER CUTOFF BY TURN KEY AND SET RINGER CUTOFF BY EXCL SWITCH CONNECT TO	WITH SIG, SET RINGER CUTOFF BY TURN KEY, AND EXT EXCL CONNECT TO
Line Switch	(Y)	G of net.	L2 of net.	L2 of net.	L2 of net.
	(BR)	F of net.	G of net.	G of net.	G of net.
	(G)	L2 of net.	TB2-5	TB2-5	TB2-5
Ringer Strap	(G)	L2 of net.	Excl TB-2	Excl TB-6	TB2-2
D10R Mtg. Cord (added)	(W-BL)		F of net.	F of net.	F of net.
	(BL-W)		TB2-5	TB2-5	TB2-5
	(W-O)		G of net.	G of net.	G of net.
	(O-W)		L2 of net.	L2 of net.	L2 of net.
	(W-G)		TB2-1	TB2-1	TB2-3
	(G-W)		TB2-2	TB2-2	TB2-9
	(W-BR)		TB2-7	TB2-7	‡
	(BR-W)		Excl TB-8	‡	Excl TB-8
	(W-S)		Excl TB-6	TB2-3	Excl TB-6
(S-W)	Excl TB-5	TB2-9	Excl TB-5		
Key assy (added)	(O-W)			G of net.	
	(G-BK)			F of net.	
	(G)			TB2-1	
	(R)			TB2-2	
	(W)			TB2-3	
	(Y)			TB2-4	
	(S-R)			TB2-5	
	(O)			TB2-6	
	(O-BK)			TB2-7	
	(BK)			TB2-8	
	(BL)			TB2-9	
Straps (added)	(V)		A of net. and Excl TB-1	A of net. and Excl TB-5	TB2-1 and A of net.
	(S)		F of net. and Excl TB-2	F of net. and Excl TB-2	F of net. and Excl TB-2
	(BR)		TB2-5 and Excl TB-1	TB2-5 and Excl TB-1	TB2-5 and Excl TB-1
	(R-G)		G of net. and Excl TB-4	‡	G of net. and Excl TB-4

\* For ringer on line 2, move strap (G) from TB2-2 to TB2-4 and strap (V) from TB2-1 to TB2-8.

‡ For exclusion on line 2, move strap (S) from TB2-1 to TB2-8, strap (BR) from TB2-2 to TB2-4, and strap (R-G) from TB2-7 to TB2-6.

‡ Insulate and store.