

TELEPHONE SETS—701B CONNECTIONS

1. GENERAL

1.01 This section is reissued to delete tables for Inductive Noise. This information is covered in a section on Inductive Noise.

1.02 The following figures and tables give the connection information for the 701B telephone set for the conditions shown.

	Fig.	Table
• Without Ringer, or Portable	1 2	A
• With E-Type Ringer	3	B
• With QCY1A1 Bell Chime		C
• Wired for 1A1 Key Telephone System	4	
• Wired for 3A Speaker- phone	5	D
• With 687A Subset	6	E

1.03 For tip-party identification when no ringer is used, a 1635A inductor is installed in

the telephone set. For information on installation of the inductor see section on Identification, Installation and Maintenance of 701 Type Telephone Sets.

1.04 To convert the 701B telephone set from dial to manual, move two spade-tipped leads as follows:

- S-W from terminal F of network to terminal RR.
- W dial lead from terminal GN of network to terminal R1.

The dial remains on the set.

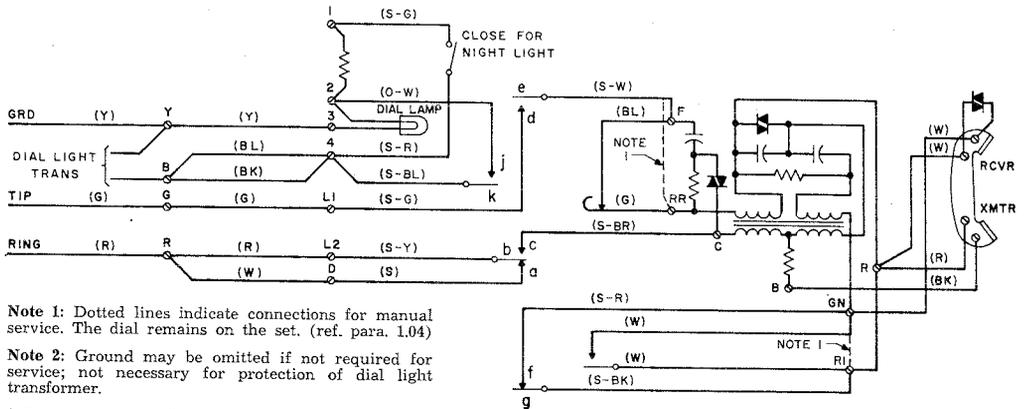


The dial light transformer can be damaged by lightning if a sufficient difference in ground potential occurs between the telephone plant and the power system. Be sure that the telephone and power grounds are bonded in accordance with the section entitled Protector and Signaling Grounds.

1.05 **INDUCTIVE NOISE:** For equipment and connections see section entitled Inductive Noise.

SECTION 502-710-400CA

INSIDE WIRING CONN BLOCK OR JACK MTG CORD* TERM. STRIPS SWITCH ASSEMBLY DIAL 8A NETWORK 495A HAND SET G3AR



Note 1: Dotted lines indicate connections for manual service. The dial remains on the set. (ref. para. 1.04)

Note 2: Ground may be omitted if not required for service; not necessary for protection of dial light transformer.

* For portable installations use D4BJ Cord (BL and W conductors not required)

Fig. 1 — 701B Telephone Set without Ringer, or Portable

TABLE A
CONNECTIONS FOR TELEPHONE SET WITHOUT RINGER

Wire or Lead		Individual or Bridged	Ring Party	Tip Party
Line Wire at Conn Block	Ring	R	R	R
	Tip	G	G	G
	Grd	Y	Y	Y
Transformer Leads at Conn Block		1	Y	Y
		2	B	B
Mounting Cord at Conn Block		R	R	R
		G	G	G
		Y	Y	Y
		BL	B	B
		W	R	R
		BK	B	B
Mounting Cord at Set		R	L2	L2
		G	L1	L1
		Y	3	3
		BL	4	4
		W	D	D
		BK	4	4
*Inductor Leads at Set		BK		3
		R		TAPE
		S		B

* Required for Tip Party Ident. Grd. 2500Ω

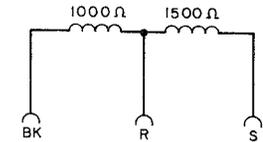


Fig. 2 — Inductor Connections

INSIDE WIRING E1A RINGER MTG CORD TERM. STRIPS SWITCH ASSEMBLY DIAL BA NETWORK 495A HAND SET G3AR

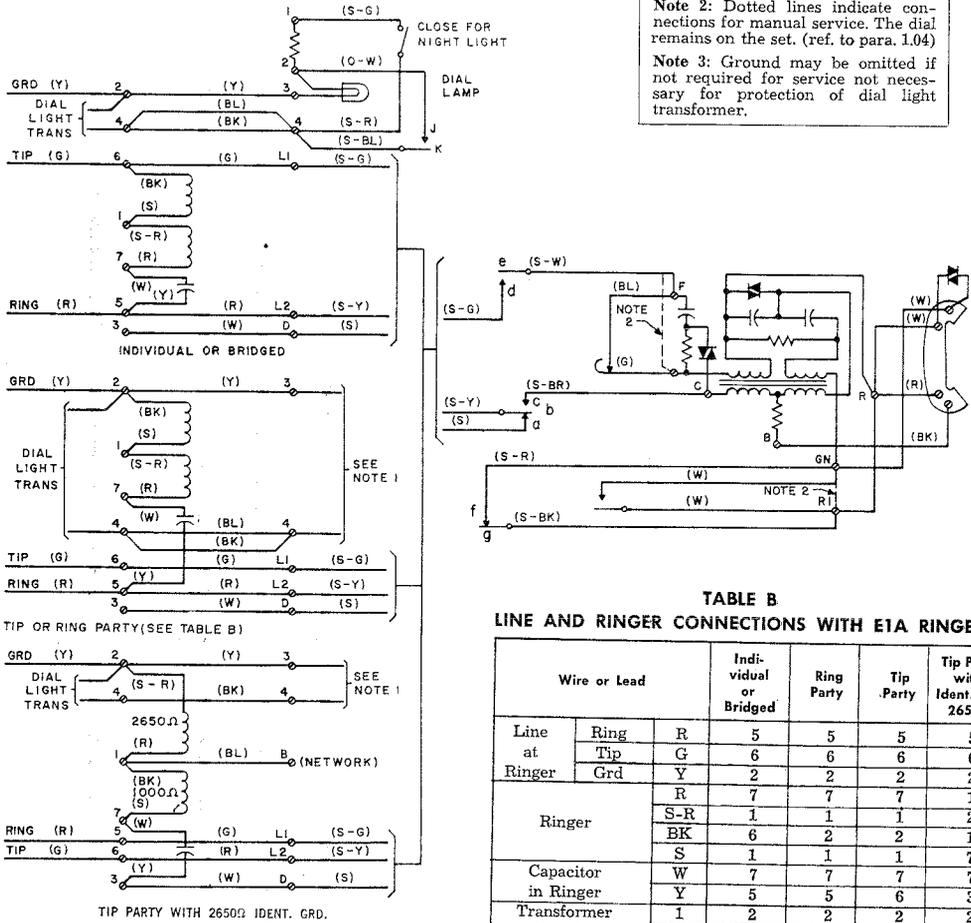


TABLE B
LINE AND RINGER CONNECTIONS WITH E1A RINGER

Wire or Lead		Individual or Bridged	Ring Party	Tip Party	Tip Party with Ident. Grd. 2650Ω
Line at Ringer	Ring	R	5	5	5
	Tip	G	6	6	6
Ringer	Grd	Y	2	2	2
		R	7	7	7
		S-R	1	1	1
		BK	6	2	2
Capacitor in Ringer	Leads	S	1	1	7
		W	7	7	7
Transformer	Leads	Y	5	5	6
		1	2	2	2
Mounting Cord at Ringer	Leads	2	4	4	4
		R	5	5	6
		G	6	6	5
		Y	2	2	2
		BL	4	4	4
		W	3	3	3
		BK	4	4	4
Mounting Cord at Set*	Leads	R	L2	L2	L2
		G	L1	L1	L1
		Y	3	3	3
		BL	4	4	B
		W	D	D	D
	BK	4	4	4	

Fig. 3 — 701B Telephone with E1A Ringer

* Set wired at factory for individual or bridged, ring-, and tip-party service.

TABLE C
CONNECTIONS WITH QCY1A1 BELL CHIME

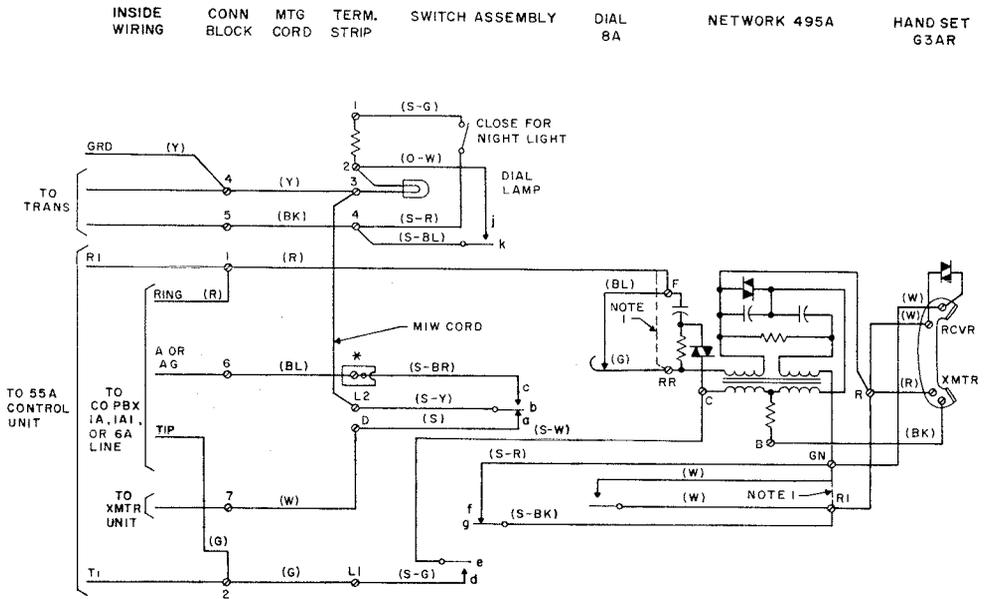
Location	Wire or Lead		Individual or Bridged	Ring Party	Tip Party	Tip Party with Ident. Grd. 2650Ω	
							Ring
QCY1A1 Bell Chime Term.	Line	Ring	R	6	6	1	1
		Tip	G	4	1	6	5
		Grd	Y	1	4	4	4
	Ringer Coil		R	7	7	7	2
			S-R	2	2	2	4
			BK	4	4	4	2
			S	2	2	2	7
	Network Straps	G	BL	4	4	4	4
		A	R	7	7	7	7
		B	G	6	6	6	6
	Dial Light Trans		1	1	4	4	4
			2	3	3	3	3
	Mounting Cord		R	6	6	1	5
			G	4	1	6	1
			Y	1	4	4	4
			BL	3	3	3	2
			W	5	5	5	6
			BK	3	3	3	3
	Set Term.	Mounting Cord*	R	L2	L2	L2	L2
			G	L1	L1	L1	L1
Y			3	3	3	3	
BL			4	4	4	B	
W			D	D	D	D	
BK			4	4	4	4	



The QCY1A1 Bell Chime is not intended to be used with 4-party selective or 8-party semi-selective service, or any other service where code ringing would not be distinguishable in CHIME position. For schematic drawing and maintenance information on Bell Chime, see section entitled "QCY1A1 Bell Chime".

* Wired at factory for individual or bridged, ring-, and tip-party service.

SECTION 502-710-400CA



To prevent false holding condition when handset is restored, switch contacts cb must break before de breaks.

Note 1: Dotted lines indicate connections for manual service. The dial remains on the set. (ref. to para. 1.04)

Note 2: Ground may be omitted if not required for service; not necessary for protection of dial light transformer.

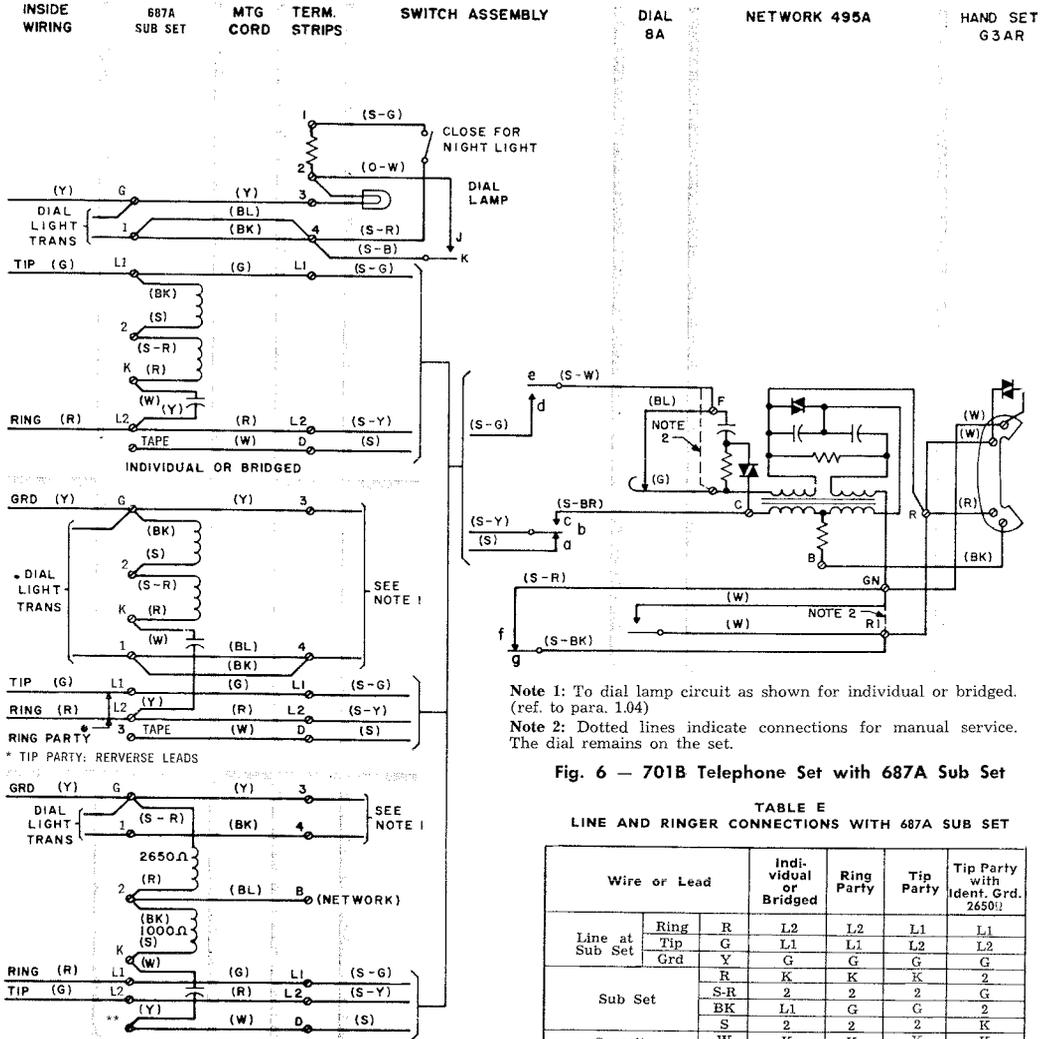
* Connect with D-161488 connector.

Fig. 5 — 701B Telephone Set Wired for 3A Speakerphone

**TABLE D
701B MODIFICATION TELEPHONE SET
FOR 3A SPEAKERPHONE**

Lead	From	To
BL Mtg Cd	4	D Conn (S-BR)
(S-BR) Swhk	C	BL Mtg Cd D Conn
R Mtg Cd	L2	F
(S-W)	F	C

Note: Strap 3 to L2 term. strip.



Note 1: To dial lamp circuit as shown for individual or bridged. (ref. to para. 1.04)
Note 2: Dotted lines indicate connections for manual service. The dial remains on the set.

Fig. 6 — 701B Telephone Set with 687A Sub Set

**TABLE E
LINE AND RINGER CONNECTIONS WITH 687A SUB SET**

Wire or Lead		Individual or Bridged	Ring Party	Tip Party	Tip Party with Ident. Grd. 2650Ω†
Line at Sub Set	Ring	R	L2	L1	L1
	Tip	G	L1	L1	L2
	Grd	Y	G	G	G
Sub Set	R	K	K	K	2
	S-R	2	2	2	G
	BK	L1	G	G	2
	S	2	2	2	K
	W	K	K	K	K
Capacitor in Sub Set	Y	L2	L2	L2	**
	1	G	G	G	G
Transformer Leads at Sub Set	2	1	1	1	1
	R	L2	L2	L2	L2
	G	L1	L1	L1	L1
	Y	G	G	G	G
	BL	1	1	1	2
Mounting Cord at Sub Set	W	†	†	†	**
	BK	1	1	1	1
	R	L2	L2	L2	L2
	G	L1	L1	L1	L1
	Y	3	3	3	3
Mounting Cord at Set*	BL	4	4	4	B
	W	D	D	D	D
	BK	4	4	4	4

* Wired at factory for individual or bridged, ring- and tip-party service.
 † Insulate and store.
 ** D161488 Connector.