

TELEPHONE SET — 500AB

CONNECTIONS

1. GENERAL

1.01 This section contains connection information for the 500AB telephone set for use with individual lines and 1A1 or 1A2 key telephone systems.

1.02 The 500AB telephone set is a desk-type set equipped with a plug ended mounting cord and a line switch providing 6 transfer contacts. It is arranged for 2- or 4-wire service.

1.03 The set can be used with the 3A speakerphone system in 2-wire service. Table A lists the internal wiring connections necessary to adapt the set for speakerphone operation.

1.04 Cord tip insulators on the D16G mounting cord must be removed to terminate leads for speakerphone and 4-wire service.



Do not pull insulators off cord tips. Cut insulators off with electrician scissors or diagonal pliers to prevent breaking conductors or stripping of cord tips.

2. OPTIONS

3A SPEAKERPHONE

2.01 To use with 3A speakerphone system, terminate internal wiring as shown in Table A.

4-WIRE SERVICE

2.02 The 500AB telephone set is factory wired for 2-wire service (Fig. 1). Table B shows wiring changes necessary to convert the set to 4-wire service.

BUZZER

2.03 A KS-8109, List 2 buzzer can be mounted in the space provided in the set. Mount the buzzer so that its frame is insulated from the metal base of the set.

2.04 To provide AC buzzer operation, terminate the BZ (BL-V) lead of the mounting cord to the A terminal and the BZ1 (V-BL) lead to the C terminal of the buzzer.

2.05 To provide DC buzzer operation, terminate the BZ (BL-V) lead of the mounting cord to the frame and the BZ1 (V-BL) lead to terminal C of the buzzer.

2.06 Buzzer leads BZ (BL-V) and BZ1 (V-BL) may be connected to the R, R1, or BZ and B, B1, or BZ1 terminals, respectively, at the associated switching equipment to provide the required buzzer operation.

3. CONNECTION INDEX

Fig. 1 — 500AB Telephone Set — Connections

Table A — 3A Speakerphone Connections
(2-Wire Service)

Table B — 4-Wire Conversion

TABLE A

3A SPEAKERPHONE CONNECTIONS

(2-WIRE SERVICE)

MOUNTING CORD		CONNECT TO	
LEAD	DESIG	TB1	NETWORK
(V-O)	P3	14	
(O-V)	P4	15	
(V-G)	T1		RR
(G-V)	R1	7	
(V-S)	AG	4	
(S-V)	LK		L1

TABLE B

4-WIRE CONVERSION

LEADS	REMOVE FROM	CONNECT TO
Dial (W) * Line Switch (W-BR)	R	17
Dial (W) * Line Switch (BK)	GN	18
Mounting Cord (BR-Y)		17
Mounting Cord (Y-BR)		18

* White leads on dial can be interchanged.

MTG CORD
PLUG CONNECTOR

CONDUCTOR
DESIGNATION

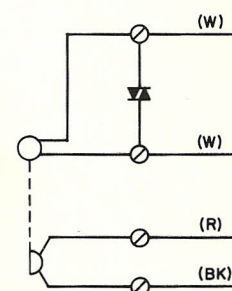
D16G
MTG CORD

G3AR HANDSET

TIP 26 ←

T

(W-BL)



"A" GROUND 2 ←

AI

(O-W)

"A" LEAD 27 ←

A

(W-O)

RING 1 ←

R

(BL-W)

SPEAKERPHONE

47 ←

P3

(V-O)

†

22 ←

P4

(O-V)

†

48 ←

TI

(V-G)

†

23 ←

RI

(G-V)

†

50 ←

AG

(V-S)

†

25 ←

LK

(S-V)

†

4 WIRE
SERVICE

19 ←

RR

(BR-Y)

†

44 ←

RT

(Y-BR)

†

21 ←

BZ OR SPARE

(BL-V)

†

46 ←

BZI OR SPARE

(V-BL)

†

RINGER

20 ←

RI

(S-Y)

45 ←

BI

(Y-S)

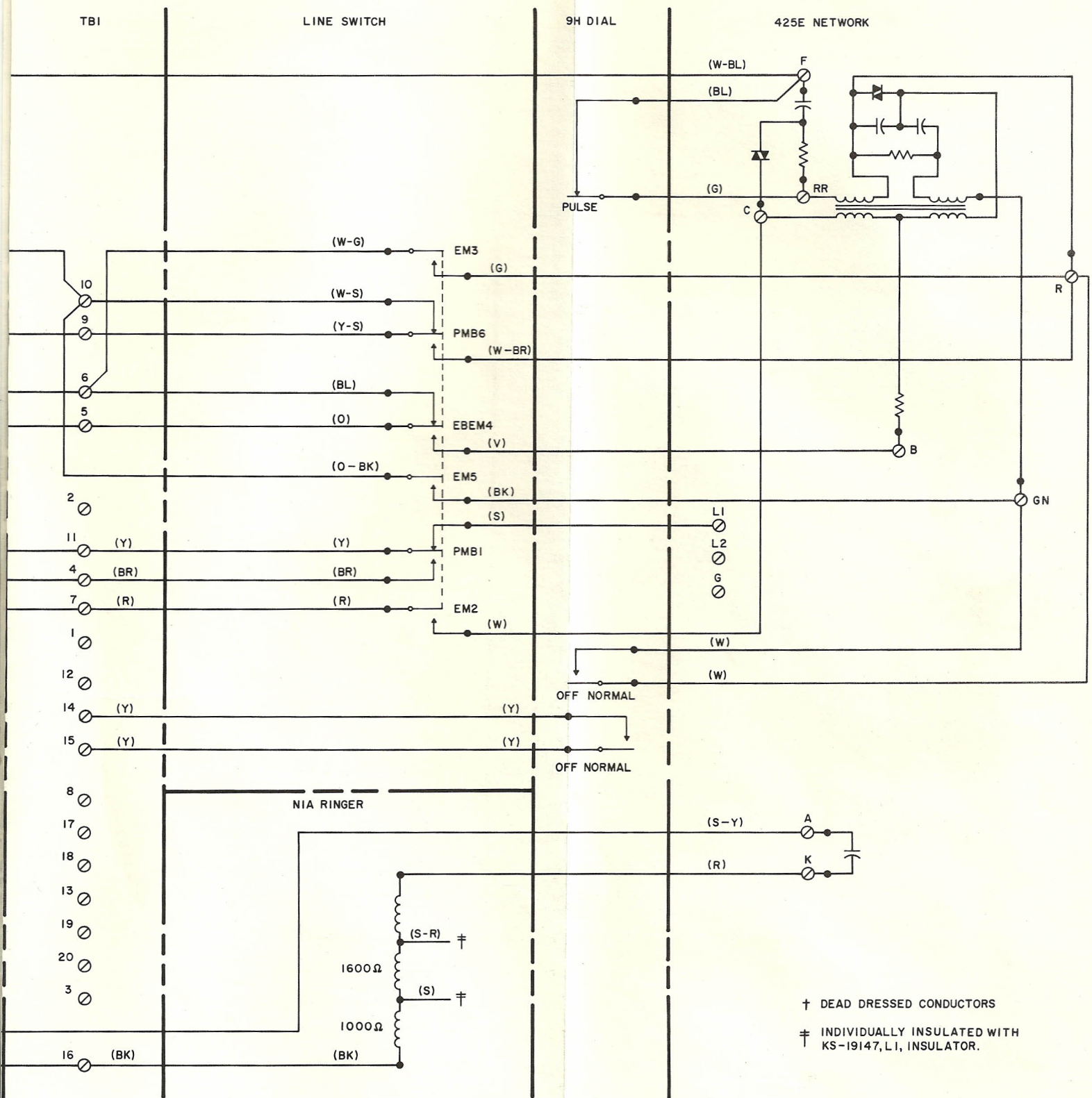


Fig. 1 — 500AB Telephone Set — Connections