

## TELEPHONE SET — 500AB

### CONNECTIONS

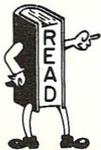
#### 1. GENERAL

**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

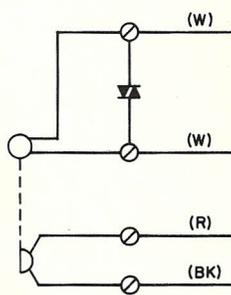
D16G  
MTG CORD

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)

