

## TELEPHONE SET — 500AB AND 500ABM CONNECTIONS

### 1. GENERAL

1.01 The 500AB or 500ABM telephone set is intended solely for use with specially engineered lines — *not for general telephone use.*

1.02 This section is reissued to add.

- T1A ringer
- 4228-type network
- KS-20419L1 buzzer
- 500ABM (modular) telephone set.

1.03 These desk-type sets are arranged for 2- or 4-wire service with individual lines and 1A1 or 1A2 key telephone systems. It is equipped with a plug ended mounting cord and a line switch providing 6 transfer contacts.

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

1.05 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.*

1.06 ♦The 500ABM (modular) telephone set uses a G15Y handset. Both the telephone set and handset accept the plug-ended H4DU cord which must be ordered separately.♦

### 2. OPTIONS

#### 3-TYPE SPEAKERPHONE

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

#### 4-WIRE SERVICE

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

#### BUZZER

2.03 A KS-8109L2 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.

(a) 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.

(b) 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.

2.04 ♦If desired the miniature KS-20419L1 (6-10 volt AC only) buzzer can be mounted inside the telephone set where it will not interfere with electrical or mechanical operation of the telephone set. The buzzer circuit is insulated from the case and bracket so that the buzzer can be attached to metal parts in the set.

2.05 Use spare terminals to connect the KS-20419L1 buzzer to the (BL-V) (V-BL) buzzer leads.♦

2.06 Buzzer leads BZ (BL-V) and BZ1 (V-BL) may be connected to the R, R1, or BZ and B,

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Bell System except under written agreement

B1, or BZ1 terminals, respectively, at the associated switching equipment to provide the required buzzer operation.

3. CONNECTIONS



*No changes in wiring other than those specified in this practice shall be made.*

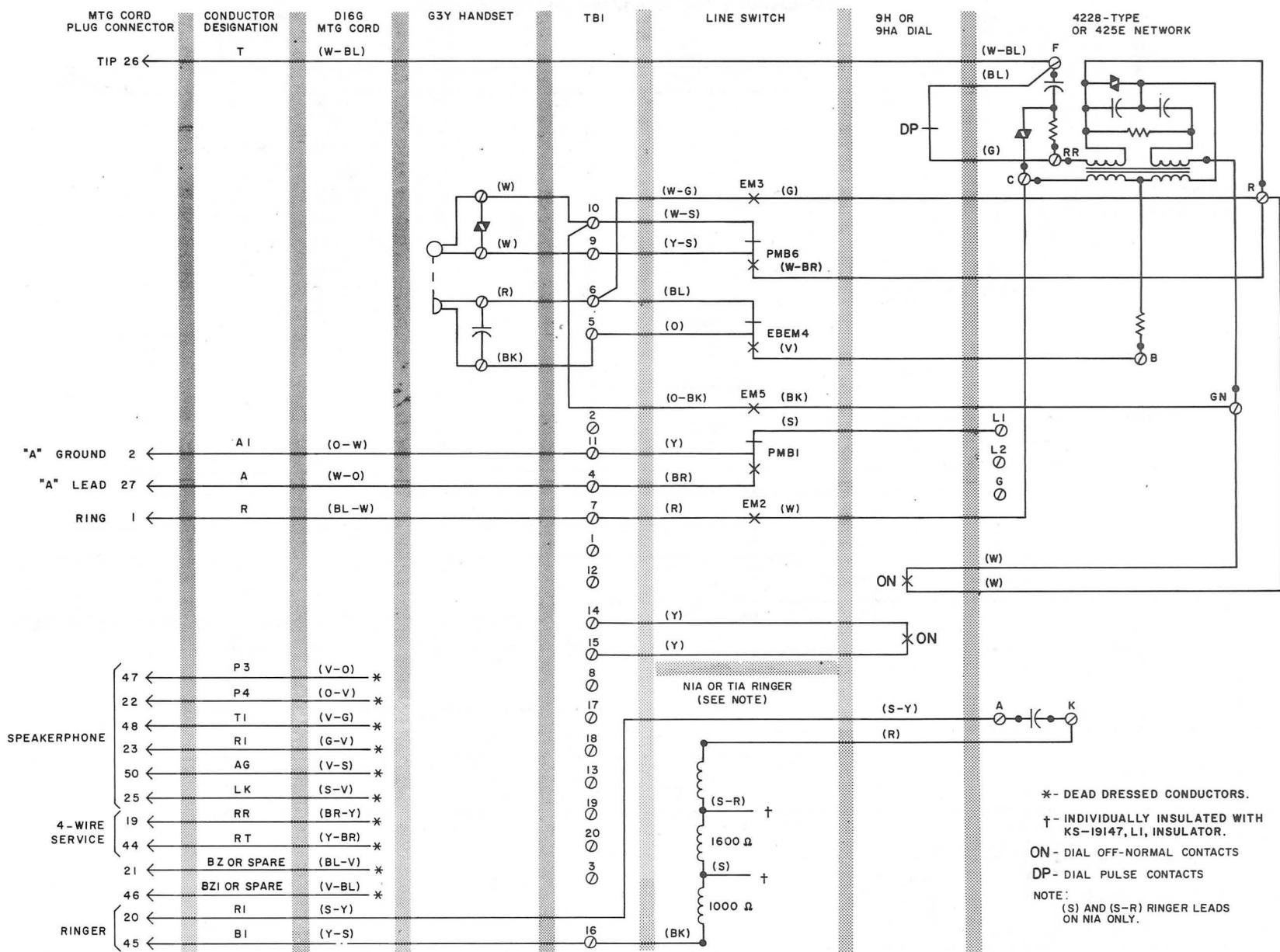
**TABLE A**  
**3-TYPE SPEAKERPHONE CONNECTIONS**  
**(2-Wire Service)**

| 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) *<br>Line Switch (W-BR)             | R           | 17         |
| Dial (W) *<br>Line Switch (BK)               | GN          | 18         |
| Mounting Cord (BR-Y)<br>Mounting Cord (Y-BR) |             | 17<br>18   |

\* White leads on dial can be interchanged.



\* - DEAD DRESSED CONDUCTORS.  
 † - INDIVIDUALLY INSULATED WITH KS-19147, L1, INSULATOR.  
 ON - DIAL OFF-NORMAL CONTACTS  
 DP - DIAL PULSE CONTACTS  
 NOTE:  
 (S) AND (S-R) RINGER LEADS ON NIA ONLY.

Fig. 1—500AB Telephone Set, Connections

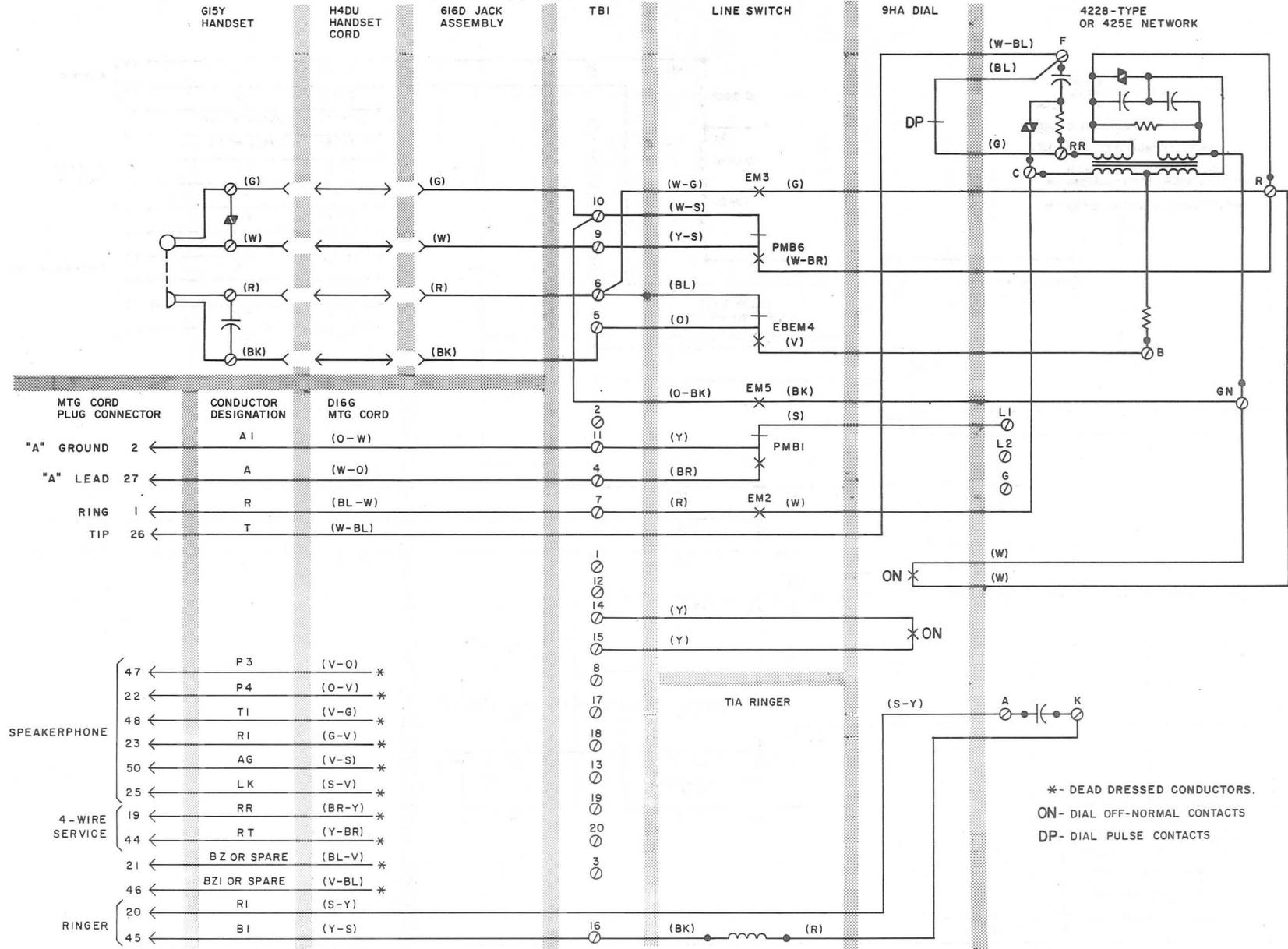


Fig. 2—500ABM Telephone Set, Connections

\* - DEAD DRESSED CONDUCTORS.  
ON - DIAL OFF-NORMAL CONTACTS  
DP - DIAL PULSE CONTACTS