SERVICE

2565GK, 2565GKM, AND 2565GKMS TELEPHONE SETS

CONNECTIONS

1. GENERAL

1.01 This section contains information for the 2565GK (MD), 2565GKM (MD), and 2565GKMS telephone sets (Fig. 1 and 2).

1.02 This section is reissued to:

- Show 2565GKM telephone set MD
- Add information on 2565GKMS telephone set
- Add D-181006 Kit of Parts (Polarity Guard)
- Add information on the 533K diode (or equivalent) which replaces KS-15724L1 diode.

1.03 The 2565GKMS telephone set is similar to the 2565GKM set except the new line switch is provided on the 2565GKMS which breaks both the tip and ring side of the line instead of the ring side only.

2. CONNECTIONS

2.01 These sets are factory-wired for use with 1A1, 1A2, 6A, or 6B key telephone systems (KTS), 4A speakerphone, and individual or common line ringer. They can be used with 1A KTS by modifying as shown in Fig. 3 and 4. Hold feature is not provided.

2.02 Early model sets were furnished from the factory with H1A (MD) ringer, current models have H1B ringer. Provision is made for buzzer, ordered separately. Use spare pair and terminals to connect to equipment. When power failure feature is provided in the KTS, audible signal must be wired with capacitor in circuit.

2.03 If 3-type (MD) speakerphone control unit is located near the telephone set, the mounting cord conductors can be extended to the control unit by using a 149-type adapter or 66E-type connecting block. If control unit is located at the key equipment, extend the leads through an A25B connector cable or inside wiring cable. Speakerphone connections are shown in Division 512.

2.04 When a 2565GK (MD) or 2565GKM [(MD) manufactures prior to July 20, 1979] telephone set is not used as a speakerphone set and is multipled with any other set capable of furnishing speakerphone feature, the T1 (V-G) and R1 (G-V) speakerphone leads must be disconnected, insulated, and stored at the telephone set. If not disconnected, these speakerphone leads will provide a common path between the circuits of the multipled telephone sets. Speakerphone connections are shown in Division 512.

2.05 Exclusion can be provided by the addition of a D-179935 Kit of Parts which must be ordered separately. Connect as shown in Table A.

2.06 When a polarity guard is required with these sets, a D-181006 Kit of Parts (ordered separately) can be installed and connected as shown in Table B.

2.07 An 812559623 (P-25E962) terminal strip assembly (ordered separately) is available when additional terminating points are required for auxiliary services such as buzzers, lamps, etc.

2.08 Installation instructions for the exclusion switch, polarity guard, and auxiliary terminal strip are given in Reference Section 502-500-120.

2.09 All convertible key positions are supplied as pickup keys. To convert from pickup (locking) to signaling (nonlocking), remove the screw detail from key positions involved. Make necessary wiring changes as shown in Table C.

NOTICE

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Fig. 1—2565GK (MD) or 2565GKM (MD) Telephone Set, Connections (Sheet 1 of 3)
Fig. 1—2565GK (MD) or 2565GKM (MD) Telephone Set, Connections (Sheet 2 of 3)
NOTES:

1. 66E-TYPE CONNECTING BLOCK SHOWN. MOUNTING CORD MAY BE PLUGGED DIRECTLY INTO AN A25B CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MOUNTING CORD.

2. IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE A.

3. DISCONNECT, INSULATE AND STORE TI (V-G) AND RI (G-V) MOUNTING CORD LEADS WHEN SET IS NOT USED AS A SPEAKERPHONE SET. THESE LEADS ARE INSULATED AND STORED IN 2526GM SETS MANUFACTURED AFTER JULY 20, 1979. WHEN A SPEAKERPHONE IS INSTALLED CONNECT TI (V-G) MOUNTING CORD LEAD TO NETWORK TERMINAL G AND RI (G-V) MOUNTING CORD LEAD TO TERMINAL 9.

4. FOR BRIDGED RINGING ON ANY LINE USING H1A RINGER, CONNECT (R) RINGER LEAD TO RING AND (BK) RINGER LEAD TO TIP OF LINE INVOLVED. FOR BRIDGED RINGER ON ANY LINE USING H1B RINGER, REMOVE (S) STRAP LEAD FROM RR (KEY TERMINAL BOARD) AND CONNECT TO RING AND (BK) RINGER LEAD TO TIP OF LINE INVOLVED.

5. IF CAPACITOR IS NOT REQUIRED IN RINGER CIRCUIT MOVE (S) RINGER LEAD TO A OF NETWORK FOR H1A RINGER AND (R) RINGER LEAD TO A OF NETWORK FOR H1B RINGER.

6. TO SILENCE RINGER PERMANENTLY, REFER TO APPROPRIATE SECTION IN DIVISION 501.

7. 2565GK SETS ARE EQUIPPED WITH A HARD-WIRED GISA-TYPE HANDSET AND CORD. 2565GKM SETS ARE EQUIPPED WITH A GISA HANDSET, H4DU HANDSET CORD, AND 616D JACK.

LS = LINE SWITCH
PU = PICKUP KEY
† = NETWORK TERMINAL. UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD.
TABLE A
EXCLUSION KEY CONNECTIONS—D-179935 KIT OF PARTS (ORDERED SEPARATELY)

<table>
<thead>
<tr>
<th>EXCLUSION</th>
<th>KEY TEL SYS</th>
<th>EXCLUSION KEY LEADS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BL-W</td>
</tr>
<tr>
<td>On any line</td>
<td>1A</td>
<td>R*</td>
</tr>
<tr>
<td></td>
<td>1A1, 1A2, 6A, or 6B</td>
<td>R*</td>
</tr>
</tbody>
</table>

* Terminal of line involved.
† When other than line 1 is excluded on 1A KTS, disconnect, insulate, and store O-W mounting cord conductor from terminal 1B; connect balance lead conductor from line involved to 1B.

Note: If exclusion feature is used, remove all B leads except one being used from key terminal board; insulate and store.

TABLE B
POLARITY GUARD CONNECTIONS—D-181006 KIT OF PARTS (840364376 POLARITY GUARD) SEE NOTE

<table>
<thead>
<tr>
<th>LEAD</th>
<th>REMOVE FROM</th>
<th>CONNECT TO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NET.</td>
<td>NET.</td>
</tr>
</tbody>
</table>
| Dial | BK   | RR   | T  
|      | G-W  | C    |  
| Line Switch | W  | C    | S  
| Polarity Guard | G  | RR   |  
|      | W    | C    |  

Note: The 840364376 polarity guard replaces the 819040528 (P-90D052) guard assembly.

TABLE C
PICKUP-SIGNAL KEY CONVERSION

<table>
<thead>
<tr>
<th>KEY TEL SET</th>
<th>CONVERSION OPTIONS (NOTE)</th>
<th>6368 KEY LEADS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(BR)</td>
</tr>
<tr>
<td>2565GK (MD)</td>
<td>PPPPPP</td>
<td>M</td>
</tr>
<tr>
<td>2565GKM (MD), or 2565GKMS</td>
<td>PPPPPS</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>PPPPSS</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>PPRESSS</td>
<td>SG</td>
</tr>
<tr>
<td></td>
<td>PPPP<em>P</em>S*</td>
<td>6H</td>
</tr>
<tr>
<td></td>
<td>PPPP<em>P</em>S*</td>
<td>6H</td>
</tr>
</tbody>
</table>

Note: To convert from pickup (locking) to signal (nonlocking), remove 811218924 (P-12A892) screw from the plunger at key position being converted.

* These arrangements use line switch controlled ground for common signal key used with private or intercommunicating lines. Common signal should be used to operate a common signal relay. Do not wire directly to a buzzer.
† Connect with the (BR) line switch lead using the terminal shown for proper option and KTS required.
Fig. 2—2565GKMS Telephone Set, Connections (Sheet 1 of 2)
NOTES:
1. 6AE- TYPE CONNECTING BLOCK SHOWN. MOUNTING CORD MAY BE PLUGGED DIRECTLY INTO AN A25B CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MOUNTING CORD.
2. IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE A.
3. WHEN A SPEAKERPHONE IS INSTALLED CONNECT (G-V) MOUNTING CORD LEAD TO TERMINAL N AND (V-G) MOUNTING CORD LEAD TO NETWORK TERMINAL G. ALSO, REMOVE (G) LEAD FROM NETWORK TERMINAL L2 AND CONNECT TO NETWORK TERMINAL F.
4. FOR BRIDGED RINGING ON ANY LINE USING HIB RINGER, REMOVE (S) STRAP LEAD FROM RR (KEY TERMINAL BOARD) AND (BK) RINGER LEAD FROM RT (KEY TERMINAL BOARD) AND CONNECT TO RING AND TIP RESPECTIVELY OF LINE INVOLVED.
5. IF CAPACITOR IS NOT REQUIRED IN RINGER CIRCUIT, MOVE (R) RINGER LEAD TO TERMINAL A OF NETWORK.
6. TO SILENCE RINGER PERMANENTLY, REFER TO APPROPRIATE SECTION IN DIVISION 501.

LS = LINE SWITCH
PU = PICKUP KEY
* = INSULATED AND STORED
† = NETWORK TERMINAL, UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD.
Fig. 3—Station Busy Lamp Circuit with 3-Type (MD) Speakerphone

Modifications IA1, IA2, 6A, or 6B KTS

<table>
<thead>
<tr>
<th>Lead</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BR)</td>
<td>M</td>
<td>I</td>
</tr>
<tr>
<td>(V+5)</td>
<td>M</td>
<td>I</td>
</tr>
</tbody>
</table>

535K DIODE OR EQUIV. (ORDERED SEPARATELY) I TO M

NOTE:
- Network terminal, undesignated terminals are on key terminal board.
- 3-Type (MD) speakerphone lead
- Leads involved in modification
- LS = Line switch

For additional connection information on station busy lamp, refer to Section 502-110-100.
<table>
<thead>
<tr>
<th>LEAD DESIGN</th>
<th>66-TYPE CONN BLK (NOTE 1)</th>
<th>DSOS MTG CORD</th>
<th>680-TYPE TRMTR</th>
<th>DSS MTG CORD</th>
<th>108-TYPE LSPK SET</th>
<th>D20N MTG CORD</th>
<th>223A (MD) OR 223D ADAPTER</th>
<th>M16C (MD) OR M16H CORD</th>
<th>TELEPHONE SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI</td>
<td>4</td>
<td>2</td>
<td>(O-W)</td>
<td>(O-W)</td>
<td>13</td>
<td>AI</td>
<td>(W-GR)</td>
<td>50 (W-GR)</td>
<td>L1+ (S)</td>
</tr>
<tr>
<td>BL</td>
<td>37</td>
<td>(Y-GR)</td>
<td>(O-W)</td>
<td>(O-W)</td>
<td>I</td>
<td>AG</td>
<td>(W-O)</td>
<td>47 (W-O)</td>
<td>(O-W)</td>
</tr>
</tbody>
</table>

**MODIFICATION 1A1,1A2,6A, OR 6B KTS**

<table>
<thead>
<tr>
<th>LEAD FROM TO</th>
<th>LEAD FROM TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BR) M I</td>
<td>(W-O) M I</td>
</tr>
<tr>
<td>533K DIODE OR EQUIV (ORDERED SEPARATELY)</td>
<td>1 TO M</td>
</tr>
<tr>
<td>S-V L1+ X</td>
<td>V-S M X</td>
</tr>
</tbody>
</table>

**NOTES:**

1. 66-TYPE CONNECTING BLOCK SHOWN. MTG CORD MAY BE PLUGGED DIRECTLY INTO 6A2B CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MTG CORD.

2. FOR ADDITIONAL CONNECTION INFORMATION ON STATION BUSY LAMP, REFER TO SECTION 502-110-100.

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**A. 1A1,1A2,6A, OR 6B KTS WIRED FOR BUSY LAMP WITH M16C (MD) OR M16H CORD TERMINATED IN TEL SET**

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**MODIFICATION 1A1,1A2,6A, OR 6B KTS**

<table>
<thead>
<tr>
<th>LEAD FROM TO</th>
<th>LEAD FROM TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BR) M I</td>
<td>(W-O) M I</td>
</tr>
<tr>
<td>533K DIODE OR EQUIV (ORDERED SEPARATELY)</td>
<td>1 TO M</td>
</tr>
</tbody>
</table>

**INSULATE AND STORE**

† NETWORK TERMINAL UNDESIGNED TERMINALS ARE ON KEY TERMINAL BOARD

‡ 161A ADAPTERS REQUIRED TO CONNECT M16C (MD) OR M16H CORD AT 66-TYPE CONN BLK

**LS LINE SWITCH**

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**B. 1A1,1A2,6A, OR 6B KTS WIRED FOR BUSY LAMP WITH M16C (MD) OR M16H CORD TERMINATED AT 66-TYPE CONN BLK**

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**Fig. 4—Station Busy Lamp Circuit with 4A Speakerphone (Sheet 1 of 2)**
LEAD 66-TYPE CONN BLK
(See note)

G-SG 38 (BR-Y)

BL 37 (Y-BR)

MODIFICATION IA KTS

LEAD FROM TO
(Y) IB SG
(BR) M I
(W-O) M I
(S-V) Lit *
(V-S) M *
(W-BR) IB SG

NOTE:
66-TYPE CONNECTING BLOCK SHOWN. MTG CORD MAY BE PLUGGED DIRECTLY INTO A25B CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MTG CORD.

A. IA KTS WIRED FOR BUSY LAMP WITH M16C (MD) OR M16H CORD TERMINATED IN TEL SET

MODIFICATION IA KTS

LEAD FROM TO
(Y) IB SG
(BR) M I
(V-S) M I
(W-O) IB SG

* INSULATE AND STORE
† NETWORK TERMINAL, UNDESIGNATED TERMINALS ARE ON KEY TERMINAL BOARD
‡ 161A ADAPTERS REQUIRED TO CONNECT M16C (MD) OR M16H CORD AT 66-TYPE CONN BLK
LS LINE SWITCH

B. IA KTS WIRED FOR BUSY LAMP WITH M16C (MD) OR M16H CORD TERMINATED AT 66-TYPE CONN BLK

Fig. 4—Station Busy Lamp Circuit with 4A Speakerphone (Sheet 2 of 2)