1. GENERAL

1.01 This section contains information on the 500E/F (MD) and 500FM telephone set (Table A and Fig. 1, 2).

1.02 Reissued to:
- Update connections on 500FM set, Fig. 2

- Add line and ringer connections, Table A

- Revise method of converting sets to manual service, Fig. 1 and 2

- Delete information on 500EM telephone set (never manufactured).
NOTES:
1. SET FACTORY-WIRED FOR RING PARTY SERVICE.
2. FOR MANUAL SERVICE, PLACE STRAP BETWEEN PLUNGER SWITCH TERMINAL AND TERMINAL RR OF NETWORK.

Fig. 1—500E/F (MD) Telephone Set, Connections
<table>
<thead>
<tr>
<th>TEL SET</th>
<th>WIRE OR LEAD</th>
<th>COLOR</th>
<th>INDIV OR BRIDGED</th>
<th>RING PARTY (NOTE 2)</th>
<th>TIP PARTY IDENT GROUND (NOTE 3)</th>
<th>NEGATIVE (-) PARTIES (NOTE 4)</th>
<th>POSITIVE (+) PARTIES (NOTE 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 E/F AND FM</td>
<td>Line Wire at Conn Block</td>
<td>Ring Tip Grd Spare</td>
<td>R G BK</td>
<td>R G B</td>
<td>R G B</td>
<td>R R R R</td>
<td>1000Ω 2650Ω 1000Ω 2650Ω</td>
</tr>
<tr>
<td>500 E/F</td>
<td>Mtg Cord at Conn Block</td>
<td>R G Y</td>
<td>R R Y</td>
<td>R G Y</td>
<td>R R Y</td>
<td>R R R R</td>
<td></td>
</tr>
<tr>
<td>500 E/F</td>
<td>Line Switch Lead</td>
<td>Y L2</td>
<td>L2 L2 A A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>623D3</td>
<td>Jack Leads in Set</td>
<td>R G Y</td>
<td>L2 L1 L1 L1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500 FM</td>
<td>C4A Ringer Leads</td>
<td>R BK SK S-R</td>
<td>L2 L1 K A</td>
<td>L2 L1 K A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>426A Tube (3-element)</td>
<td>R BK Y</td>
<td>K K L2 L2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** To silence ringer for all classes of services, refer to Section 501-250-303.

**Note 2:** When grounded ringer arrangements are used on 96-volt long line circuits, a D-180036 ringer isolator must be used.

**Note 3:** If bell taps on stations connected to long line equipment, use these connections to retain the party ground identification.

**Note 4:** This type of ringing is possible with 500FM equipped with field-installed 426A tube only. Refer to Section 501-320-100 for additional information on 426A tube.

* Ordered separately.
Fig. 2—500FM Telephone Set, Connections

NOTES:
1. SET FACTORY-WIRED FOR INDIVIDUAL SERVICE.
2. FOR MANUAL SERVICE, PLACE STRAP BETWEEN PLUNGER SWITCH TERMINAL AND TERMINAL RR OF NETWORK.
3. ORDERED SEPARATELY.

DP = DIAL PULSE CONTACT
ON = DIAL OFF-NORMAL CONTACT