**REFERENCE**

503B, 503C, 503CM, AND 513B TELEPHONE SETS

1. **GENERAL**

1.01 This section provides identification and connection information for the 503B (MD), 503C (MD), 503CM, and 513B (MD) telephone sets.

1.02 This section is reissued to:

- Revise Fig. 4

2. **IDENTIFICATION**

2.01 These telephone sets are desk sets intended for use in conjunction with other equipment to provide DATA-PHONE® data communications service.

2.02 With the exclusion key operated (up position), the 503B telephone set can be used with the J1D402B data set to provide data service. With the exclusion key nonoperated (normal position) the set provides regular telephone service. Fig. 2 provides connection information on the 503B telephone set.

2.03 The 503C and 503CM telephone set is used in Data Access Arrangements (DAA) where customer-owned equipment is connected to the DDD network through a coupler. With the exclusion key nonoperated (normal position) the 503CM telephone set may be used with the J1D402B data set to provide data service with monitoring of computer-generated voice replies. With the exclusion key operated (up position), the set provides regular telephone service. To deactivate monitoring feature, see Fig. 4. The 503C telephone set may be used with the J1D402B data set with the exclusion key operated (up position). With the exclusion key nonoperated (normal position) the set provides regular telephone service.

*Note:* The relationship of features to exclusion key differs in the 503C and 503CM telephone sets.

2.04 Fig. 3 and 4 provide connection information on the 503C and 503CM telephone sets. The 503CM is a modular set which is shipped with a G15A handset but without H4DU handset cord and the D8AA mounting cord, which must be ordered separately.

2.05 The mounting cord of the 513B telephone set plugs directly into the J1D401F data set. Operation of the exclusion key (left plunger) transfers the set from the voice mode to the data mode. It is also equipped with a test key which converts the set to the test mode and test lamp which illuminates when the test mode is operating. Fig. 5 provides connection information on the 513B telephone set.

2.06 For application of these telephone sets, refer to Division 590.

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**NOTICE**

Not for use or disclosure outside the Bell System except under written agreement

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### TABLE A

**REPLACEABLE COMPONENTS (NOTE)**

<table>
<thead>
<tr>
<th>TEL SET</th>
<th>HANDSET DIAL RINGER</th>
<th>HOUSING ASSY</th>
<th>MTG CORD LAMP</th>
<th>MTG CORD SET JACK</th>
<th>HANDSET CORD SET JACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>503B-61 (MD)</td>
<td>G3A6-61 9C-61 or 9CA-61</td>
<td>C4A</td>
<td>818049611 (P-80D961)</td>
<td>H4CJ or H4CL</td>
<td></td>
</tr>
<tr>
<td>503C-61 (MD)</td>
<td>G3A6-61 9C-61 or 9CA-61</td>
<td>H1B</td>
<td>818049611 (P-80D961)</td>
<td>H4CJ or H4CL</td>
<td>52A</td>
</tr>
<tr>
<td>503CM-61</td>
<td>G15A-61 9CA-61</td>
<td>841023823</td>
<td>D8AA-87</td>
<td>H4DU-61</td>
<td>641D 616D</td>
</tr>
<tr>
<td>513B-61 (MD)</td>
<td>G3A6-61 9C-61 or 9CA-61</td>
<td>C4A</td>
<td>818815615 (P-88A561)</td>
<td>H4CJ or H4CL</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** These sets are available in light gray (−61) only.

### TABLE B

**TO PROVIDE DATA SET CONTROL WITH EXCLUSION KEY OPERATED (503CM ONLY)**

<table>
<thead>
<tr>
<th>LEAD</th>
<th>COLOR</th>
<th>REMOVE FROM</th>
<th>CONNECT TO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TERM. BOARD</td>
<td>NET.</td>
</tr>
<tr>
<td>Exclusion Key</td>
<td>R</td>
<td>L2</td>
<td>E2</td>
</tr>
<tr>
<td>Exclusion Key</td>
<td>S</td>
<td>E2</td>
<td></td>
</tr>
<tr>
<td>Exclusion Key</td>
<td>BR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Exclusion Key</td>
<td>O</td>
<td>GN</td>
<td>1</td>
</tr>
<tr>
<td>641D Jack</td>
<td>O-W</td>
<td>8</td>
<td>7</td>
</tr>
</tbody>
</table>
1. GREEN LEAD IS CONNECTED TO F TERMINAL IN DIAL SETS AND TO RR TERMINAL IN MANUAL SETS.
2. LINE SWITCH SEQUENCE, HANDSET REMOVED:
   (1)bc MAKES (2)de MAKES (3)gf BREAKS
3. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE REFER TO APPROPRIATE SECTION IN DIVISION 501.

Fig. 2—503B (MD) Telephone Set, Connections
Fig. 3—503C (MD) Telephone Set, Connections
NOTES:
1. FOR ATTENDED OPERATION MOVE (O-W)
   LEAD FROM E1 TO TERMINAL 9.
2. TO SILENCE RINGER FOR ALL CLASSES OF SERVICE
   REFER TO APPROPRIATE SECTION IN DIVISION 501.

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

Fig. 5—513B (MD) Telephone Set, Connections