AUXILIARY LINE CIRCUIT SD-99484-01
FOR OFF-NET ACCESS SERVICE
TESTS USING TRUNK TEST CIRCUIT SD-25918-01
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing auxiliary line circuit SD-99484-01 arranged for 2-way access between local central offices in the DDD network and offices equipped for common control switching arrangements (CCSA).

1.02 This issue affects Equipment Test Lists.

1.03 The tests covered are:

A. Seizure and Disconnect From DDD Network: The following features are checked: (1) Line circuit seizure from DDD network. (2) Polarity on tip and ring leads. (3) Supervision. (4) ONAL seizure signal. (5) Calling end disconnect first. (6) Called end disconnect first.

B. Seizure Signal Timing: This test checks the timing of the seizure signal sent via the line circuit M lead to its associated ONAL in the CCSA office. This test is applied only when the master test frame (MTF) trunk test circuit SD-25918-01 is equipped with the OSST key.

C. Double Seizure: This test checks that, when the line circuit is seized simultaneously from the DDD network and the switched services (CCSA) network, overflow will be sent to the DDD network and the seizure from the switched services (CCSA) network will be completed.

D. Call From DDD Network to Distant Attendant Facilities: The following features are checked: (1) That a call may be completed from the DDD network to an assistant at a distant switchboard or console facility. (2) The ringing trip. (3) The NS lead to the number group.

E. Seizure and Disconnect From Switched Services (CCSA) Network:
The following features are checked: (1) Line circuit signal from the switched services (CCSA) network. (2) Polarity on tip and ring leads. (3) Supervision. (4) Calling end disconnect first. (5) Called end disconnect first.

1.04 Tests A, B, C, and E require action at the trunk relay rack frame and MTF.

1.05 Test D requires that all other auxiliary line circuits having the same route as auxiliary line circuit under test be made busy.

1.06 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

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1.07 The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

1.08 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

1.09 A statement between asterisks ("----") is added after action or verification statements to clarify the readings being determined in the test procedures of Part 4.

2. APPARATUS

All Tests

2.01 Master test control circuit SD-25800-01.

3. PREPARATION

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>At MTF— Restore all keys and switches.</td>
<td>All lamps extinguished.</td>
</tr>
<tr>
<td>2</td>
<td>Momentarily operate RL key.</td>
<td></td>
</tr>
</tbody>
</table>

Tests A, B, C

3 Select LT class of test.
4 Select completing marker 0 or 1.
5 Select office designation.
6 Select incoming class of call.
7 Select A- through E-digits as required for selection of auxiliary line circuit to be tested.
8 Operate T, OEM keys.
9 Operate NTLS, PBXH keys.

2.02 Trunk test circuit SD-25918-01.
2.03 MTF jack, lamp, and key circuit SD-25762-01.
2.04 322A (make-busy) plugs as required.

Tests A, B, C, E

2.05 1011G handset (dial hand test set) equipped with 2W38A cord assembly consisting of W2CK cord, 310 plug, and 471A jack (for pulsing on E lead).

2.06 Two patching cords, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord) (for connecting T1 and T2 jacks on miscellaneous circuit for all frames to T1 and TST jacks on auxiliary line circuit).
4. METHOD

STEP ACTION VERIFICATION

A. Seizure and Disconnect From DDD Network

Seizure, Calling End Disconnect

14 At MTF—
Momentarily operate ST key.

15 At handset—
Operate MON-TALK switch to TALK.
*Simulates off-hook from 2-way trunk circuit.*

16 Operate ANS, RVC keys.

17 At handset—
Operate MON-TALK switch to MON.

18 Momentarily operate RL key.

19 Restore ANS, RVC keys.

Seizure and Called End Disconnect

20 At MTF—
Momentarily operate ST key.

LT, S lamps lighted.
OGT-CS lamp flashes once, then remains lighted.
*Wink-seizure signal toward 2-way trunk circuit in switched services (CCSA) network.*

At MTF—
S lamp extinguished.

High tone heard in test receiver.
*Transmission check of tip and ring leads.*

High tone silenced in test receiver.
At MTF—
OGT-CS lamp extinguished.
S lamp lighted.

All lamps extinguished.

LT, S lamps lighted.
OGT-CS lamp flashes once, then remains lighted.
### SECTION 218-224-501

<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
<th>VERIFICATION</th>
</tr>
</thead>
</table>
| 21   | At handset—  
      Operate MON-TALK switch to TALK. | At MTF—  
      S lamp extinguished. |
| 22   | Restore T key. | OGT-CS lamp extinguished.  
      S lamp lighted. |
| 23   | Momentarily operate RL key. | All lamps extinguished. |
| 24   | At handset—  
      Operate MON-TALK switch to MON. | \[\text{All tests}\] |

**All Tests**

| 25   | At MTF—  
      Restore all keys and switches not required in next test. | \[\text{All tests}\] |
| 26a  | If no further tests are to be performed—  
      At relay rack frame—  
      Remove patching cords. | \[\text{All tests}\] |
| 27a  | At MTF—  
      Remove plug of handset from DL jack. | CCSA-MB lamp extinguished in switched services (CCSA) network office. |
| 28a  | Remove make-busy plug from MB- jack. | \[\text{All tests}\] |

#### B. Seizure Signal Timing

| 14   | At MTF—  
      Operate OSST key. | LT, S lamps lighted.  
      OFF HK lamp, then ON HK lamp momentarily lighted. |
| 15   | Momentarily operate ST key. | OGT-CS lamp lighted. |
| 16   | Restore OSST key. | \[\text{All tests}\] |
| 17   | At handset—  
      Operate MON-TALK switch to MON. | At MTF—  
      S lamp extinguished. |
| 18   | Operate ANS, RVC keys. | High tone heard in test receiver. |
| 19   | At handset—  
      Operate MON-TALK switch to MON. | At MTF—  
      High tone silenced.  
      OGT-CS lamp extinguished.  
      S lamp lighted. |
| 20   | Momentarily operate RL key. | \[\text{All tests}\] |
| 21   | Restore all keys and switches not required in next test. | \[\text{All tests}\] |
### C. Double Seizure

14. At MTF—
Operate DS key.

15. At handset—
Operate MON-TALK switch to TALK.

16. At MTF—
Momentarily operate ST key.

17. When overflow tone is heard—
Immediately restore DS key, then dial A-
through K-digits as required to route call to
simulated 2-way trunk circuit.

18. At handset—
Operate MON-TALK switch to MON.

19. Momentarily operate RL key.

20. Restore all keys and switches not required in
next test.

21a. If no further tests are to be performed—
At relay rack frame—
Remove patching cords.

22a. At MTF—
Remove plug of handset from DL jack.

23a. Remove make-busy plug from MB-jack.

### Verification

CCSA-MB lamp extinguished in switched services (CCSA) network office.

LT, S lamps lighted.
Overflow tone heard in test receiver.

OGT-CS, TS lamps lighted.
Overflow tone silenced.

At MTF—
OGT-CS, TS lamps extinguished.

All lamps extinguished.

### D. Call From DDD Network to Distant Attendant Facilities

3. Select MISC class of test.

4. Select completing marker.
<table>
<thead>
<tr>
<th>STEP</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Select class of service and rate treatment having access to auxiliary line circuit to be tested.</td>
</tr>
<tr>
<td>6</td>
<td>Select originating class of call and associated translator indication.</td>
</tr>
<tr>
<td>7</td>
<td>Select A- through K- digits as required to route call to auxiliary line circuit under test.</td>
</tr>
<tr>
<td>8</td>
<td>Insert make-busy plugs into MB- jacks associated with all other auxiliary line circuits serving same route as auxiliary line circuit under test.</td>
</tr>
<tr>
<td>9</td>
<td>Operate TLK key.</td>
</tr>
<tr>
<td>10</td>
<td>Momentarily operate ST key.</td>
</tr>
<tr>
<td></td>
<td>MISC, AS lamps lighted</td>
</tr>
<tr>
<td></td>
<td>Ringing tone heard.</td>
</tr>
<tr>
<td></td>
<td>When assistant at distant attendant facilities answers call—</td>
</tr>
<tr>
<td></td>
<td>Talking path established between MTF and distant attendant facilities.</td>
</tr>
<tr>
<td></td>
<td>At MTF—</td>
</tr>
<tr>
<td></td>
<td>Ringing tone silenced.</td>
</tr>
<tr>
<td>11</td>
<td>Request attendant facilities to release call.</td>
</tr>
<tr>
<td></td>
<td>Talking path disconnected between MTF and distant attendant facilities.</td>
</tr>
<tr>
<td></td>
<td>AS lamp extinguished.</td>
</tr>
<tr>
<td>12</td>
<td>Momentarily operate RL key.</td>
</tr>
<tr>
<td>13</td>
<td>Remove make-busy plug from MB- jack.</td>
</tr>
<tr>
<td>14</td>
<td>Restore all keys and switches not required in next test.</td>
</tr>
<tr>
<td>14</td>
<td>Momentarily operate RL key.</td>
</tr>
<tr>
<td>15</td>
<td>Operate RVC key.</td>
</tr>
<tr>
<td>16</td>
<td>At handset—</td>
</tr>
<tr>
<td></td>
<td>Operate MON-TALK switch to TALK.</td>
</tr>
<tr>
<td>17</td>
<td>When OGT-CS lamp flashes—</td>
</tr>
<tr>
<td></td>
<td>Immediately dial A- through K- digits as</td>
</tr>
</tbody>
</table>

E. Seizure and Disconnect From Switched Services (CCSA) Network

Seizure and Calling End Disconnect

14  At MTF—
    Operate TLK, OEM keys.
15  Operate RVC key.
16  At handset—
    Operate MON-TALK switch to TALK.
17  When OGT-CS lamp flashes—
    Immediately dial A- through K- digits as

Page 6
STEP | ACTION | VERIFICATION
---|---|---

required to route call to simulated 2-way trunk circuit.

18 | Operate ANS key. | OGT-CS lamp lighted.

19 | At handset— Operate MON-TALK switch to MON. | High tone heard in test receiver. At MTF— TS, OGT-CS lamps extinguished. High tone silenced in test receiver.

20 | Momentarily operate RL key. | 

21 | Restore ANS, RVC keys. | 

Seizure and Called End Disconnect

22 | Momentarily operate ST key. | 

23 | At handset— Operate MON-TALK switch to TALK. | At MTF— OGT-CS lamp momentarily lighted.

24 | When OGT-CS lamp flashes— Immediately dial A- through K- digits as required to route call to simulated 2-way trunk circuit. | TS, OGT-CS lamps lighted.


26 | Operate 2DISC key. | TS, OGT-CS lamps extinguished. High tone silenced in test receiver.

27 | Momentarily operate RL key. | 

All Tests

28 | Restore all keys and switches. | 

29a | If no further tests are to be performed— At relay rack frame— Remove patching cords. | 

30a | At MTF— Remove plug of handset from DL jack. | CCSA-MB lamp extinguished in switched services (CCSA) network office.

31a | Remove make-busy plug from MB- jack. |