

**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**

**PAGE**

**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:

**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.

**5**

**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.

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**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.

**3**

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

**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.

**4**

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

**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.

**5**

**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.

**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).

**3. PREPARATION**

**STEP**

**ACTION**

**VERIFICATION**

*Note:* Refer to 1.07 and 1.08.

**All Tests**

- 1 At MTF—  
Restore all keys and switches.
- 2 Momentarily operate RL key.

All lamps extinguished.

**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.

STEP	ACTION	VERIFICATION
10	Select line in tens block for line circuit under test.	
<b>Tests A, B, C, E</b>		
11	Connect handset to DL jack (MON-TALK switch in MON position).	
12	Insert make-busy plug into MB- jack associated with line circuit under test.	CCSA-MB lamp associated with ONAL in switched services (CCSA) network office lighted.
13	At relay rack frame— Patch T1, TST jacks on line circuit under test to T1, T2 jacks, respectively, on miscellaneous circuit for all frames.	

**4. METHOD**

STEP	ACTION	VERIFICATION
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**A. Seizure and Disconnect From DDD Network****Seizure, Calling End Disconnect**

14	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.*
15	At handset— Operate MON-TALK switch to TALK. *Simulates off-hook from 2-way trunk circuit.*	At MTF— S lamp extinguished.
16	Operate ANS, RVC keys.	High tone heard in test receiver. *Transmission check of tip and ring leads.*
17	At handset— Operate MON-TALK switch to MON.	High tone silenced in test receiver. At MTF— OGT-CS lamp extinguished. S lamp lighted.
18	Momentarily operate RL key.	All lamps extinguished.
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.
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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
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.	
<b>All Tests</b>		
25	At MTF— Restore all keys and switches not required in next test.	
26a	If no further tests are to be performed— At relay rack frame— Remove patching cords.	
27a	At MTF— Remove plug of handset from DL jack.	
28a	Remove make-busy plug from MB- jack.	CCSA-MB lamp extinguished in switched services (CCSA) network office.
<b>B. Seizure Signal Timing</b>		
14	At MTF— Operate OSST key.	
15	Momentarily operate ST key.	LT, S lamps lighted. OFF HK lamp, then ON HK lamp momentarily lighted.
16	Restore OSST key.	OGT-CS lamp lighted.
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.	All lamps extinguished.
21	Restore all keys and switches not required in next test.	

STEP	ACTION	VERIFICATION
22a	If no further tests are to be performed— At relay rack frame— Remove patching cords.	
23a	At MTF— Remove plug of handset from DL jack.	
24a	Remove make-busy plug from MB- jack.	CCSA-MB lamp extinguished in switched services (CCSA) network office.
<b>C. Double Seizure</b>		
14	At MTF— Operate DS key.	
15	At handset— Operate MON-TALK switch to TALK..	
16	At MTF— Momentarily operate ST key.	LT, S lamps lighted. Overflow tone heard in test receiver.
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.	OGT-CS, TS lamps lighted. Overflow tone silenced.
18	At handset— Operate MON-TALK switch to MON.	At MTF— OGT-CS, TS lamps extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
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.	CCSA-MB lamp extinguished in switched services (CCSA) network office.
<b>D. Call From DDD Network to Distant Attendant Facilities</b>		
3	Select MISC class of test.	
4	Select completing marker.	

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

**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.	At MTF— OGT-CS lamp momentarily lighted.
17	When OGT-CS lamp flashes— Immediately dial A- through K- digits as	TS lamp lighted. Within approximately 2 seconds—

STEP	ACTION	VERIFICATION
	required to route call to simulated 2-way trunk circuit.	OGT-CS lamp lighted.
18	Operate ANS key.	High tone heard in test receiver.
19	At handset— Operate MON-TALK switch to MON.	At MTF— TS, OGT-CS lamps extinguished. High tone silenced in test receiver.
20	Momentarily operate RL key.	
21	Restore ANS, RVC keys.	
<b>Seizure and Called End Disconnect</b>		
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.
25	Operate ANS, RVC keys.	High tone heard in test receiver.
26	Operate 2DISC key.	TS, OGT-CS lamps extinguished. High tone silenced in test receiver.
27	Momentarily operate RL key.	
<b>All Tests</b>		
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.	
31a	Remove make-busy plug from MB- jack.	CCSA-MB lamp extinguished in switched services (CCSA) network office.

