

ATTENDANT OUTGOING TRUNK CIRCUIT—SD-26380-01

TESTS USING MASTER TEST FRAME

TRUNK TEST CIRCUIT—SD-25918-01

NO. 5 CROSSBAR OFFICES

ARRANGED FOR PHASE III CENTREX

CENTRALIZED ATTENDANT OPERATION

1. GENERAL

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1.01 This section describes the tests required for testing the attendant outgoing trunk circuit (high-low or E-M supervision) SD-26380-01, using the master test frame (MTF) trunk test circuit SD-25918-01, in No. 5 crossbar offices arranged for Phase III centrex and centralized attendant main satellite release link operation.

D. Remote Make-Busy: This test checks that the trunk may be made busy to service from its associated trunk in the main office.

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1.02 When this section is reissued, the reason for reissue will be listed in this paragraph. This issue affects the Equipment Test Lists.

E. Trunk Busy: This test checks that the trunk may be made busy to service and still be seized for testing.

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1.03 The tests covered are:

TRUNK ARRANGED FOR E-M LEAD SUPERVISION

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TRUNK ARRANGED FOR HIGH-LOW SUPERVISION

A. Trunk Seizure and Release:

The following features are checked:
(1) Seizure and release of trunk. (2) Continuity and polarity on tip and ring leads. (3) Answer. (4) Release.

3

F. Trunk Seizure and Release:

The following features are checked:
(1) Seizure and release of trunk. (2) Continuity and polarity on tip and ring leads. (3) Answer. (4) Release.

6

B. Supervision: This test checks the trunk for proper responses to:

(1) Originating end disconnecting first.
(2) Terminating end disconnecting first.

4

G. Supervision: This test checks the trunk for proper responses to:

(1) Originating end disconnecting first.
(2) Terminating end disconnecting first.

7

C. Destination Recall: This test checks the ability of the trunk to generate and forward a recall signal.

5

H. Destination Recall: This test checks the ability of the trunk to generate and forward a recall signal.

8

I. Remote Make-Busy: This test checks that the trunk may be made busy to service from its associated trunk in the main office.

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	PAGE
J. Trunk Busy: This test checks that the trunk may be made busy to service and still be seized for testing.	9
MISCELLANEOUS TESTS (High-Low or E-M Lead Supervision)	
K. False-Busy and False-Idle Condition: This test checks for continuity and crosses on the F, BT, and F leads.	9
L. Call to Distant Attendant Facilities: This test checks that a test call will be completed to an assistant.	10
1.04 Test K requires that all other trunks in the same trunk group and located on the same trunk link frame as trunk under test be made busy.	
1.05 Test L requires an assistant at the distant attendant facilities.	
1.06 Lettered Steps: A letter, a, b, c, etc, added to a step number in Parts 3 and 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.	
1.07 The manner of selecting some circuits and test conditions at the master test frame (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 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** The statement between the asterisks (* *) after action or verification statements is added to clarify the function being simulated in the test procedures of Part 4.
- 1.10** On issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, such as DT, ORIG, ITDO, ITNP, OGT, etc.
- 1.11** Local instructions should be followed for recording and reporting plant or traffic register operations caused by performing these tests.

2. APPARATUS

Test A Through J, L

- 2.01** Master test control circuit, SD-25800-01.
- 2.02** Trunk test circuit, SD-25918-01.

Tests E, J, K

- 2.03** 322A (make-busy) plugs, as required.

Test K

- 2.04** Oscillator J94730B (SD-95616-01), part of 1A fault locator test set J94730A.
- 2.05** Testing cord, 1WAK cord, 6 feet long, equipped with one 296 plug (banana-type), one 360B tool, and one 624B (terminal connector) tool.
- 2.06** Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips or one KS-6278 connecting clip and one 624B (terminal connector) tool, as required (for connecting high resistance ground [HRG] to terminal strip terminals).
- 2.07** Two testing cords, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 624A (terminal connector) tool (for making test connections to relay winding terminals).

3. PREPARATION

STEP	ACTION	VERIFICATION
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Note: Refer to paragraphs 1.07, 1.08.

All Tests Except K

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|----|--|-------------------------|
| 1 | At MTF—
Restore all keys and switches. | |
| 2 | Momentarily operate RL key. | All lamps extinguished. |
| 3 | Select completing marker. | |
| 4 | Select route advance, as required. | |
| 5 | Operate FS, TS, TLK keys. | |
| 6 | Select attendant outgoing trunk to be tested. | |
| 7 | Operate GPA/GPB key when trunk is in an allotted group. | |
| 8 | Select digit A0. | |
| 9 | Select originating class of call and X11 translator indication. | |
| 10 | Select class of service, rate treatment having access to trunk under test. | |

All Tests Except K, L

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|----|---------------------------|--|
| 11 | Select OGT class of test. | |
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Tests F Through J, L

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| 12 | Operate E-M key. | |
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Test L

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| 13 | Select MISC class of test. | |
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TRUNK ARRANGED FOR HIGH-LOW SUPERVISION**A. Trunk Seizure and Release**

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|----|-----------------------------|---------------------------|
| 12 | Momentarily operate ST key. | AS, AA, PK lamps lighted. |
| 13 | Dial 0. | All lamps remain lighted. |

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STEP	ACTION	VERIFICATION
14	Operate ANS key.	OGT-CS lamp lighted. PK lamp extinguished. High tone heard.
15	Restore TLK, ANS keys.	High tone silenced. AS, AA, OGT-CS lamps extinguished.
16	Momentarily operate RL key.	All lamps extinguished.
17	Restore all keys and switches not required in next test.	

B. Supervision

Originating End Disconnects First

12	Momentarily operate ST key.	AS, AA, PK lamps lighted.
13	Restore TLK key.	AS, AA, PK lamps extinguished.
14	Momentarily operate RL key.	All lamps extinguished.
15	Operate TLK key.	
16	Momentarily operate ST key.	AS, AA, PK lamps lighted.
17	Operate ANS key.	OGT-CS lamp lighted. PK lamp extinguished. High tone heard.
18	Restore TLK key.	AA lamp extinguished. High tone silenced. In 2 to 2.4 seconds— OGT-CS, AS lamps extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore ANS key.	
21	Operate TLK key.	

Terminating End Disconnects First

22	Momentarily operate ST key.	AA, AS, PK lamps lighted.
23	Operate ANS key.	OGT-CS lamp lighted. PK lamp extinguished. High tone heard.
24	Restore ANS key.	AS, AA, OGT-CS lamps extinguished. High tone silenced.

STEP	ACTION	VERIFICATION
25	Momentarily operate RL key.	All lamps extinguished.
All Tests		
26	Restore all keys and switches not required in next test.	
C. Destination Recall		
12	Momentarily operate ST key.	AA, AS, PK lamps lighted.
13	Operate ANS key.	OGT-CS lamp lighted. PK lamp extinguished. High tone heard.
14	Restore TLK key for 1 second. *Destination flashes switchhook to recall operator.*	AA lamp momentarily extinguished. High tone momentarily silenced.
15	Restore TLK, ANS keys.	AA, AS, OGT-CS lamps extinguished. High tone silenced.
16	Momentarily operate RL key.	All lamps extinguished.
17	Restore all keys and switches not required in next test.	
D. Remote Make-Busy		
12	Momentarily operate ST key.	AA, AS, PK, MTT lamps lighted.
13	Operate ANS key.	OGT-CS lamp lighted. PK lamp extinguished. High tone heard.
14	Operate MTTA key.	
15	Restore TLK key.	AA lamp extinguished. High tone silenced. In 2 to 2.4 seconds— AS lamp extinguished. MTT, OGT-CS lamps remain lighted. CAL MB lamp associated with trunk under test lighted.
16	At MTF— Restore ANS key for more than 2 seconds.	While ANS key is restored— MTT lamp remains lighted. OGT-CS lamp extinguished. At jack, lamp, and key circuit— CAL MB lamp extinguished.

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STEP	ACTION	VERIFICATION
17	At MTF— Restore ANS key.	OGT-CS lamp extinguished. MTT lamp remains lighted. At jack, lamp, and key circuit— CAL MB lamp extinguished.
18	At MTF— Restore MTTA key.	MTT lamp extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore all keys and switches not required in next test.	

E. Trunk Busy

12	At jack, lamp and key circuit— Insert make-busy plug into MB-jack associated with trunk under test.	
13	At MTF— Momentarily operate ST key.	TB lamp lighted.
14	Momentarily operate RL key.	All lamps extinguished.
15	Restore FS, TS keys.	
16	Operate NTFS, NTTS keys.	
17	Momentarily operate ST key.	AA, AS, PK lamps lighted.
18	Momentarily operate RL key.	All lamps extinguished.
19	Restore all keys and switches not required in next test.	
20	At jack lamp, and key circuit— Remove make busy plug placed in Step 12.	

TRUNK ARRANGED FOR E-M LEAD SUPERVISION

F. Trunk Seizure and Release

13	Momentarily operate ST key.	AS, E, PK lamps lighted.
14	Dial 0.	All lamps remain lighted.
15	Operate ANS key.	PK lamp extinguished. High tone heard.
16	Restore TLK, ANS keys.	AS, E lamps extinguished. High tone silenced.

STEP	ACTION	VERIFICATION
17	Momentarily operate RL key.	All lamps extinguished.
18	Restore all keys and switches not required in next test.	

G. Supervision***Originating End Disconnects First***

13	Momentarily operate ST key.	AS, E, PK lamps lighted.
14	Restore TLK key.	AS, E, PK lamps extinguished.
15	Momentarily operate RL key.	All lamps extinguished.
16	Operate TLK key.	
17	Momentarily operate ST key.	AS, E, PK lamps lighted.
18	Operate ANS key.	PK lamp extinguished. High tone heard.
19	Restore TLK key.	E lamp extinguished. High tone silenced. In 2 to 2.4 seconds— AS lamp extinguished.
20	Momentarily operate RL key.	All lamps extinguished.
21	Restore ANS key.	
22	Operate TLK key.	

Terminating End Disconnects First

23	Momentarily operate ST key.	AS, E, PK lamps lighted.
24	Operate ANS key.	PK lamp extinguished. High tone heard.
25	Restore ANS key.	AS, E lamps extinguished. High tone silenced.
26	Momentarily operate RL key.	All lamps extinguished.

All Tests

27	Restore all keys and switches not required in next test.	
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STEP	ACTION	VERIFICATION
H. Destination Recall		
13	Momentarily operate ST key.	AS, E, PK lamps lighted.
14	Operate ANS key.	PK lamp extinguished. High tone heard.
15	Restore TLK key for 1 second. *Destination flashes switchhook to recall operator.*	E lamp momentarily extinguished. High tone momentarily silenced.
16	Restore TLK, ANS keys.	AS, E lamps extinguished. High tone silenced.
17	Momentarily operate RL key.	All lamps extinguished.
18	Restore all keys and switches not required in next test.	
I. Remote Make-Busy		
13	Momentarily operate ST key.	MTT, AS, E, PK lamps lighted.
14	Operate ANS key.	PK lamp extinguished. High tone heard.
15	Operate MTTA key.	
16	Restore TLK key.	E lamp extinguished. High tone silenced. In 2 to 2.4 seconds— AS lamp extinguished. MTT lamp remains lighted. At jack, lamp, and key circuit— CAL MB lamp associated with trunk under test lighted.
17	At MTF— Restore ANS key for more than 2 seconds.	While ANS key is restored— MTT lamp remains lighted. At jack, lamp, and key circuit— CAL MB lamp extinguished.
18	At MTF— Restore ANS key.	MTT lamp remains lighted. At jack, lamp, and key circuit— CAL MB lamp extinguished.
19	At MTF— Restore MTTA key.	MTT lamp extinguished.
20	Momentarily operate RL key.	All lamps extinguished.

STEP	ACTION	VERIFICATION
21	Restore all keys and switches not required in next test.	
J. Trunk Busy		
13	At jack, lamp, and key circuit— Insert make-busy plug into MB-jack associated with trunk under test.	
14	At MTF— Momentarily operate ST key.	TB lamp lighted.
15	Momentarily operate RL key.	All lamps extinguished.
16	Restore FS, TS keys.	
17	Operate NTFS, NTTS keys.	
18	Momentarily operate ST key.	AS, E, PK lamps lighted.
19	Momentarily operate RL key.	All lamps extinguished.
20	Restore all keys and switches not required in next test.	
21	At jack, lamp, and key circuit— Remove make busy plug placed in Step 13.	
K. False-Busy and False-Idle Condition		
1	At relay rack frame— Connect power to 1A fault locator and operate W-T switch to W position, HR-LRT switch to HR position.	Whistle heard.
2	Connect WT jack of fault locator to terminal 45 on terminal strip A.	Whistle not heard.
3	While circuit is idle— Block operated S1 relay.	If trunk under test is the only idle trunk or the only trunk using same route on same trunk link frame— Whistle heard.
4a	If more than one trunk on same trunk link frame using same route— At MTF— Insert make-busy plugs into MB-jacks of all other circuits using same route on same trunk link frame as trunk under test.	At relay rack frame— Whistle heard when last trunk is made busy.
5	Momentarily remove blocking tool from S1 relay.	Whistle not heard while blocking tool is removed.

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STEP	ACTION	VERIFICATION
6	Block operated AM relay.	
7	Momentarily remove blocking tool from S1 relay.	Whistle still heard while blocking tool is removed.
8	Remove blocking tool from AM relay.	
9	Block operated MB relay.	
10	Momentarily remove blocking tool from S1 relay.	Whistle still heard while blocking tool is removed.
11	Remove blocking tool from MB relay.	
12a	If more than one trunk on same trunk link frame using same route— At MTF— Remove make-busy plugs from MB-jacks inserted in Step 4a.	Whistle not heard if any trunks idle.
13	At relay rack frame— Connect HRG ground to terminal 55 on terminal strip A.	
14	Disconnect WT jack of fault locator and connect to terminal 15 on terminal strip A.	Whistle heard.
15	Remove blocking tool from S1 relay.	Whistle not heard.
16	Block operated AM relay.	Whistle heard.
17	Remove blocking tool from AM relay.	Whistle not heard.
18	Block operated MB relay.	Whistle heard.
19	Remove blocking tool from MB relay.	Whistle not heard.
20	Remove test connections from terminal strip A.	
L. Call to Distant Attendant Facilities		
14	Momentarily operate ST key.	AS, PK lamps lighted. Ringing tone heard. At distant attendant facilities— Assistant answers call. At MTF— PK lamp extinguished. Ringing tone silenced. Talking path established between MTF and distant attendant facilities.

STEP

ACTION

VERIFICATION

15 Request assistant at distant facilities to release call.

Talking path removed.

16 Momentarily operate RL key.

All lamps extinguished.

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

