

**AUXILIARY OUTGOING TRUNK—SD-26084-01**  
**TESTS USING TRUNK TEST CIRCUIT SD-25918-01**  
**NO. 5 CROSSBAR OFFICES**

**1. GENERAL**

**1.01** This section describes a method of testing auxiliary outgoing trunks that provide access from the trunk link frame to PBX tie trunks, recorded telephone dictation trunks, or 3A code call circuits, using trunk test circuit SD-25918-01 and the master test frame in No. 5 crossbar offices. Included in this section is a miscellaneous test that is made without the use of the master test frame.

**1.02** This section is reissued to include trunk selection by the Electronic Translation System (ETS). This reissue does not affect the Equipment Test List.

**1.03** The tests covered are:

**A. Trunk Seizure:** The following features are checked: (1) Seizure of trunk. (2) Continuity and polarity of tip and ring leads of the originating end of associated circuit. (3) Release of trunk. . . . . **3**

**B. Trunk Busy:** The following features are checked: (1) Seizure by master test frame when trunk is made busy. (2) Busy indication to service call when trunk is made busy. . . . . **3**

**C. Busy Indication From Associated Circuit:** This test checks that the trunk gives a busy indication when the associated circuit is off-normal. . . . . **4**

**D. False-busy and False-idle Conditions:** This test checks for continuity and crosses on the F, BT, and FT leads. . . . . **4**

**1.04** Tests A, B, and C require action and verification at the relay rack frame of the circuit being tested.

**1.05** 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.

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

**1.07** When the office is arranged for ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a **maintenance-busy** condition—not in an **out-of-service** condition. To change a scanner or distributor from an **out-of-service** to a **maintenance-busy** condition, use the procedure given in the following section for the office arrangement.

218-799-701—taking ETS Equipment Out-of-Service.

**1.08** When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk scanning to be repeated on the FT lamp at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, supervision will continue to be repeated on the lamp, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command

**PAGE**

**NOTICE**

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Bell System except under written agreement

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**STOP:TRK TST** is entered at the maintenance TTY.♦

**2. APPARATUS**

**Tests A, B, and C**

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

**Test D**

- 2.03 Oscillator J94730B (SD-95616-01) part of 1A fault locator test set J94730A.
- 2.04 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 624B tool. This test cord is used for making connections to terminal strip terminals.

**3. PREPARATION**

♦Refer to 1.04 through 1.08♦

STEP	ACTION	VERIFICATION
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**Tests A, B, and C**

- |    |   |                         |
|----|---|-------------------------|
| 1  | At MTF—<br>Restore all keys.  |                         |
| 2  | Operate RL key momentarily.   | All lamps extinguished. |
| 3  | At relay rack frame—<br>Operate MB switch of trunk being tested to MB position. | MB lamp lighted.        |
| 4  | At MTF—<br>Select A_, B_, C_ digits for route of trunk being tested.            |                         |
| 5  | Select trunk under test.  |                         |
| 6  | Select route advance 0.   |                         |
| 7  | Select marker.  |                         |
| 8  | ♦Select MISC class of test.   |                         |
| 9a | If ETS provided—<br>Operate PCS and PTS keys.♦                                  |                         |
| 10 | Operate NTTS, NTFS, TLK keys.   |                         |
| 11 | Select class of service and rate treatment as required.                         |                         |

## 4. METHOD

STEP	ACTION	VERIFICATION
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## A. Trunk Seizure

12	Operate ST key momentarily.	<p>◆If ETS provided—            FT lamp lighted.◆            AS lamp lighted.            If circuit used with SF signaling—            PK lamp lighted.</p>
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**Note:** If the tie trunk appears in a manual position at the distant PBX, upon answering, inform attendant that this is a test call.

13	Restore TLK key.	<p>AS lamp extinguished.            PK lamp extinguished, if lighted.</p>
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14	Operate RL key momentarily.	<p>All lamps extinguished.            ◆If ETS provided—            FT lamp remains lighted.◆</p>
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15	At relay rack frame— Operate MB switch to N.	<p>MB lamp extinguished.            ◆If ETS provided—            FT lamp extinguished.◆</p>
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## B. Trunk Busy

12	Operate ST key momentarily.	<p>◆If ETS provided—            FT lamp lighted.◆            AS lamp lighted.</p>
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**Note:** If the tie trunk appears in manual position at the distant PBX, upon answering, inform attendant that this is a test call.

13	Operate RL key momentarily.	<p>All lamps extinguished.            ◆If ETS provided—            FT lamp remains lighted.◆</p>
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14	Operate TS key.	
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15	Operate ST key momentarily.	<p>TB lamp lighted.            AS lamp <b>not</b> lighted.</p>
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16	Operate RL key momentarily.	<p>All lamps extinguished.            ◆If ETS provided—            FT lamp remains lighted.◆</p>
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17	At relay rack frame— Restore MB switch.	<p>MB lamp extinguished.            ◆If ETS provided—            FT lamp extinguished.◆</p>
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STEP	ACTION	VERIFICATION
<b>C. Busy Indication From Associated Circuit</b>		
12	Operate ST key momentarily.	◆If ETS provided— FT lamp lighted.◆ AS lamp lighted.
		<i>Note:</i> If the tie trunk appears in a manual position at the distant PBX, upon answering, inform attendant that this is a test call.
13	Operate RL key momentarily.	All lamps extinguished. ◆If ETS provided— FT lamp remains lighted.◆
14	At relay rack frame— Block BY relay operated.	
15	At master test frame— Operate ST key momentarily.	TB lamp lighted. AS lamp not lighted.
16	Operate RL key momentarily.	All lamps extinguished. ◆If ETS provided— FT lamp remains lighted.◆
17	At relay rack frame— Remove blocking tool from BY relay.	
18	Restore MB switch.	MB lamp extinguished. ◆If ETS provided— FT lamp extinguished.◆
<b>D. False-busy and False-idle Conditions</b>		
1	At relay rack frame— Connect power to 1A fault locator and operate W-T switch to W position and HR-LRT switch to HR position.	Whistle heard.
2	Connect WT jack of fault locator to terminal 24 of terminal strip on unit.	◆Whistle not heard.◆
3	When trunk being tested is idle— Block BY relay operated.	◆If trunk under test is the only idle trunk or the only trunk using the same route on same trunk link frame Whistle heard.◆
4	Operate MB switches of all other trunks using same route on same trunk link frame.	Whistle heard. MB lamp(s) lighted.
5	Momentarily remove blocking tool from BY relay.	Whistle not heard while BY relay released.

STEP	ACTION	VERIFICATION
6	Operate MB switch of trunk being tested.	MB lamp lighted.
7	Remove blocking tool from BY relay.	BY relay released. Whistle still heard.
8	Connect HRG (high-resistance ground) to terminal 34 of terminal strip on unit.	
9	Disconnect WT jack of fault locator and connect to terminal 15 of terminal strip on unit.	Whistle still heard.
10	Block BY relay operated.	
11	Restore MB switch of trunk being tested.	MB lamp extinguished.
12	Remove blocking tool from BY relay.	BY relay released. Whistle not heard.
13	Remove test connection from terminal strip.	
14	Restore MB switches operated in Step 4.	MB lamp(s) extinguished.

