

## NO-CIRCUIT SIGNAL TRUNKS

SD-26158-01

### TESTS USING TRUNK TEST CIRCUIT SD-25918-01

#### NO. 5 CROSSBAR OFFICES

#### 1. GENERAL

- 1.01 This section is reissued to include Electronic Translation System (ETS) features.

This issue affects the Equipment Test Lists. Since this reissue is a general revision, change arrows ordinarily used to indicate changes have been omitted.

- 1.02 The tests covered are:

**A. Seizure and Operation:** The following features are checked. (1) Seizure of no-circuit signal trunk (2) Ability of no-circuit signal trunk to provide 30-ipm flash and optional tone to originating end (3) Disconnection of 30-ipm flash and optional tone, and return to normal when originating end disconnects.

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

**C. False-Busy and False-Idle Conditions:** This test checks for continuity and crosses on the F, BT, and FT leads.

- 1.03 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.

- 1.04 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, scanning 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 **STOP:TRK TST** is entered at the maintenance TTY.

- 1.05 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.

- 1.06 **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 MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where

#### NOTICE

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

**SECTION 218-288-501**

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.

**2. APPARATUS**

**Tests A and B**

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

**2.02** Trunk test circuit, SD-25918-01.

**2.03** Master test frame telephone, key, and lamp circuit, SD-25744-01.

**Test C**

**2.04** Oscillator J94730B (SD-95616-01), part of No. 1A fault locator test set J94730A.

**2.05** Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 624B tool (for making test connections to terminal strip terminals.)

**3. PREPARATION**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
-------------	---------------	---------------------

**Tests A, B**

*Refer to 1.03 through 1.08*

- |     |   |                         |
|-----|---|-------------------------|
| 1   | At MTF—<br>Restore all keys and switches.   |                         |
| 2   | Momentarily operate RL key.   | All lamps extinguished. |
| 3   | Select MISC class of test.  |                         |
| 4   | Select marker.  |                         |
| 5   | Select TOL subclass of test.  | TOL lamp lighted.       |
| 6   | Select route advance as required.   |                         |
| 7   | Operate KY, TLK keys  |                         |
| 8   | Operate NTTS, NTFSS keys.   |                         |
| 9   | Select trunk.   |                         |
| 10  | Select A through K digits as required to direct call to outgoing toll route having the no-circuit signal trunk as an alternate route. |                         |
| 11a | If ETS provided—<br>Operate PCS, PTS keys.  |                         |

STEP	ACTION	VERIFICATION
12	At relay rack frame location of trunk under test— Operate MB switch to MB position.	MB lamp lighted.  <i>Note:</i> MB lamp common to all circuits equipped with MB switches on relay rack frame

#### 4. METHOD

STEP	ACTION	VERIFICATION
<b>A. Seizure and Operation</b>		
13	At MTF— Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. OGT-CS lamp flashes at 30-ipm rate. If 30-ipm tone feature provided— Tone heard at 30-ipm rate.
14	Restore TLK key.	TAS, OGT-CS lamps extinguished. Tone silenced, if heard.
15	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
16	At relay rack frame location of trunk under test— Restore MB switch to N position.	MB lamp extinguished. If ETS provided— FT lamp extinguished.
17	Restore all keys and switches not required in next test.	

#### B. Trunk Busy

13	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. OGT-CS lamp flashes at 30-ipm rate. If 30 ipm tone feature provided— Tone heard at 30-ipm rate.
14	Momentarily operate RL key.	All lamps extinguished. Tone silenced, if heard. If ETS provided— FT lamp remains lighted.
15	Operate TS key.	
16	Momentarily operate ST key.	TB lamp lighted.

STEP	ACTION	VERIFICATION
17	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
18	At relay rack frame location of trunk under test— Restore MB switch to N position.	MB lamp extinguished. If ETS provided— FT lamp extinguished.
<b>C. False-Busy and False-Idle Conditions</b>		
1	At relay rack frame— Connect 110-volt ac supply to No. 1A fault locator.	
2	Operate W-T switch to W position, HR-LRT to HR position.	Whistle heard
3	Connect WT jack of fault locator to terminal 45 of terminal strip on unit.	Whistle not heard.
4	Operate MB switch of trunk being tested, then MB switches of all other trunks using same route on same trunk link frame.	Whistle heard. MB lamp lighted.
		<b>Note:</b> MB lamp common to all trunks equipped with MB switches on relay rack frame.
5	When trunk being tested is idle— Restore MB switch momentarily.	Whistle not heard while MB switch restored.
6	Block BY relay operated.	
7	Restore MB switch.	Whistle heard.
8	Restore other MB switches operated in Step 4.	Whistle not heard.
9	Connect HRG (high-resistance ground) terminal to terminal 55 of terminal strip on unit.	
10	Disconnect WT jack of No. 1A fault locator from terminal 45, and connect to terminal 15.	Whistle heard.
11	Remove blocking tool from BY relay.	<u>Whistle not heard.</u>
12	Remove test connections from terminal strip.	