

**INCOMING TOLL CONNECTING TRUNKS
TRANSMISSION AND PAD TEST
USING TEST TRUNK CIRCUIT SD-68547-01
NO. 4A AND 4M TOLL SWITCHING SYSTEMS**

1. GENERAL

1.01 This section describes a method of performing a transmission and pad test of incoming toll connecting trunks, using test trunk circuit SD-68547-01, when a call is originated in a distant office or switchboard to a No. 4A or 4M toll switching system.

1.02 *Transmission and Pad Test:* This test provides a method for checking transmission loss and pad operation of incoming toll connecting trunks including CAMA trunks.

1.03 This test will require actions and verifications at the originating office.

1.04 Test trunk circuit SD-68547-01 is terminated at the automatic outgoing toll connecting trunk test frame (AOCT).

1.05 The talking path will be inoperative while the milliwatt power is being sent. Therefore, an agreed length of time should be established for the sending of the milliwatt power before starting the test.

1.06 Before performing the test in this section, the transmission measuring set (TMS) used should be calibrated in accordance with standard instructions.

1.07 *Lettered Steps:* A letter a, b, c, etc, added to a step number in Part 3 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. When a condition does not apply, all steps designated by that letter should be omitted.

2. APPARATUS

2.01 One of the following is required:

(a) 12-type transmission measuring set and a patching cord, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord).

(b) 13A transmission measuring set and a testing cord, W2BS cord, 5 feet long, equipped with one 310 plug and two 35 cord tips (2W33A cord).

(c) 21A transmission measuring set and a patching cord, P3E cord, 6 feet long, equipped with one 310 plug and one 241A plug (3P17B cord).

2.02 Patching cord, P3F cord, 3 feet long, equipped with two 310 plugs (3P7B cord).

2.03 Test trunk circuit SD-68547-01.

3. METHOD

STEP	ACTION	VERIFICATION
1	Call originated at distant end to test trunk circuit SD-68547-01.	In 4A or 4M office — At key and lamp circuit of AOCT — TRK lamp flashes.
2	At key and lamp circuit of AOCT — Operate TALK key.	TRK lamp lights steadily. Talking path established.

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STEP	ACTION	VERIFICATION
3	At test trunk circuit — Connect REC jack to TMS (MEAS jack, DET IN jack or IN posts).	
4	Connect SND jack to OS jack of AOCT using 3P7B cord.	
5	Request distant end personnel to send 1 milliwatt, 1000-cycle of test power.	
6	Operate REC key.	Measured loss is far-near transmission loss of trunk. This should meet the trunk loss (EML) as specified in office records. <i>Note:</i> Expected Measured Loss (EML) for trunk includes loss of test trunk circuit.
7a	If 4A or 4M office is provided with split A pad — At test trunk circuit — Operate and hold 2-A key to 2 position.	TMS reading should not deviate from read- ing in Step 6 by more than ± 0.1 db.
8a	Release 2-A key.	
9	Operate and hold 2-A key to A position.	TMS reading should not deviate from read- ing in Step 6 by more than ± 0.1 db.
10	Release 2-A key.	
11	Restore REC key.	
12	Request distant end personnel to measure test power to be sent by test circuit.	
13	At test trunk circuit — Operate SND key.	Measured loss is near-far transmission loss registered by TMS in distant office. This should meet the trunk loss (EML) as speci- fied in office records. <i>Note:</i> Expected Measured Loss (EML) for trunk includes loss of test trunk circuit.
14a	If 4A or 4M office is provided with split A pad — At test trunk circuit — Operate and hold 2-A key to 2 position.	TMS reading at distant end should not deviate from reading in Step 13 by more than ± 0.1 db.
15a	Release 2-A key.	
16	Operate and hold 2-A key to A position.	TMS reading at distant end should not deviate from reading in Step 13 by more than ± 0.1 db.
17	Release 2-A key.	
18	Restore SND key.	
19	Disconnect patching cords and restore all keys to normal.	TRK lamp extinguished.