

**OUTGOING TRUNK CIRCUIT SD-97570-01**  
**TESTS USING PORTABLE TEST SET J94747A**  
**NO. 1 TRUNK CONCENTRATOR**

**1. GENERAL**

**1.01** This section describes a method of testing outgoing trunk circuit SD-97570-01 using portable trunk test set J94747A. The outgoing trunk circuit (OGT) is a four-wire trunk circuit which interfaces the No. 1 Trunk Concentrator (No. 1 TC) with the trunk to the Automatic Intercept Center (AIC).

**1.02** This section is reissued to reverse the order of Steps 23b and 24b in Test A. This reissue does not affect the Equipment Test List.

**1.03** The tests covered are:

**A. Operational Test:** This test checks that the trunk can be seized and a multifrequency receiver attached at the AIC; that after the appropriate digits are keyed forward, an operator or announcement is attached at the AIC. It also checks for normal release of the trunk.

**B. Timed Disconnect:** This test checks that when an off-hook is not received from the AIC within 10 seconds, the trunk will disconnect.

**1.04 Lettered Steps:** A letter a, b, c, etc, added to a step number in Part 3 or 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.

**2. APPARATUS**

**All Tests**

**2.01** TC portable trunk test set J94747A (SD-97576-01).

**2.02** Head telephone set, 52M or equivalent.

**2.03** Three patching cords, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord).

**2.04** Patching cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips.

**3. PREPARATION**

STEP	ACTION	VERIFICATION
<b>All Tests</b>		
1	At TC test set— Restore all keys and the TTS switch to normal.	
2	Plug head telephone set into A—B jacks.	
3	At jack, key, and lamp panel located on outgoing trunk frame— Using 3P7A cord, connect the RCV jack	

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<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
	associated with the trunk under test to the RCV 1 jack on the TC test set.	
4	Using 3P7A cord, connect the TRMT jack on the jack, key, and lamp panel to the TRT 2 jack on the TC test set.	
5	Using 3P7A cord, connect the -48V jack on the jack, key, and lamp panel to -48V jack on the TC test set.	
	<i>Caution: To avoid possible grounding of battery supply lead, connect cord to test set first and, when disconnecting, remove cord from test set last.</i>	
6	Operate BCO key.	◆BCO lamp lighted.◆
7	At TC test set— Operate -48V key.	-48V lamp lighted.

**4. METHOD**

<b>STEP</b>	<b>ACTION</b>	<b>VERIFICATION</b>
<b>A. Operational Test</b>		
8	At outgoing trunk frame— Operate MB key on jack, key, and lamp panel associated with trunk under test.	MB_ lamp lighted.
9	At TC test set— Operate TTS switch to OGT position.	
10	Operate OGT key.	OGT, OH lamps lighted. At jack, key, and lamp panel— ON_, OFH_ lamps lighted.
11	Using office records, select a 7-digit telephone number which is known to be arranged to route to AIC.	
12	Using Table A, select desired routing information which is associated with route to be tested.	
13	At TC test set— Key in digits selected in Steps 11 and 12 including the ST pulse.	

STEP	ACTION	VERIFICATION
14	Operate TALK key.  <i>Note:</i> If announcement is too loud, operate DN and/or 10 DB key.	TALK lamp lighted. Machine intercept announcement heard or operator answers.
15	Restore OGT and TALK keys to normal.	OGT, OH, TALK lamps extinguished. At jack, key, and lamp panel— ON_, OFH_ lamps extinguished.
16	Repeat Steps 11 through 15 for other routes to be tested.	
17a	If AIC is equipped for receiving ONI traffic— Using Table B, select routing information which is associated with route to be tested.	
18a	At TC test set— Operate OGT key.	OGT, OH lamps lighted. At jack, key, and lamp panel— ON_, OFH_ lamps lighted.
19a	At TC test set— Key in digit selected in Step 17a plus ST.	
20a	Operate TALK key.	TALK lamp lighted. Machine intercept announcement heard or operator answers.
21a	Restore OGT key to normal.	OGT, OH lamps lighted. At jack, key, and lamp panel— ON_, OFH_ lamps extinguished.
22	At TC test set— Restore all operated keys and the TTS switch to normal.	All lamps extinguished.
23b	◆If no other tests are to be performed on this trunk— Remove all patching cords between test set and jack, key, and lamp panel.	
24b	At jack, key, and lamp panel— Restore MB_ key.	MB_ lamp extinguished.◆

**B. Disconnect**

- 8 At outgoing trunk frame—  
Insulate contact 10B of WNK relay.
- 9 Connect ground to (A) terminal strip as follows:  
***Even-numbered trunks—***  
Terminal 13.

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STEP	ACTION	VERIFICATION
	<b><i>Odd-numbered trunks—</i></b> Terminal 16.	
10	At TC test set— Operate TTS switch to OGT position.	
11	At outgoing trunk frame— Operate MB key on jack, key, and lamp panel associated with trunk under test.	MB lamp lighted.
12	At TC test set— Operate OGT key.	OGT lamp lighted. After 10 seconds— TBL lamp lighted. At jack, key, and lamp panel— ON_ TO_ lamps lighted.
13	At TC test set— Restore OGT key.	OGT, TBL lamps extinguished. At jack, key, and lamp panel— ON_ lamp extinguished.
14	At TC test set— Restore all operated keys and the TTS switch to normal.	
15	At outgoing trunk frame— Remove insulator from WNK relay.	
16	Remove ground from M lead.	
17	Manually release relay TO.	At jack, key, and lamp panel— TO_ lamp extinguished.
18a	If no other tests are to be performed on this trunk— At TC test set— Remove all patching cords between test set and jack, key, and lamp panel.	
19a	At outgoing trunk frame— Restore MB key on jack, key and lamp panel.	MB lamp extinguished.

TABLE A

ROUTING CODE	ROUTE
0 + 7-Digit Number Selected in Step 10 + ST Pulse	Blank Number
1 + 7-Digit Number Selected in Step 10 + ST Pulse	Trouble Intercept
2 + ST Pulse	Identification Failure
3 + 7-Digit Number Selected in Step 10 + ST Pulse	Regular Intercept

TABLE B

ROUTING CODE	ROUTE
6 + ST Pulse	Regular Intercept
7 + ST Pulse	Blank Number Intercept
8 + ST Pulse	Trouble Intercept
5 + ST Pulse	To AIC operator after spinoff to collocated announcement machine.