# 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 add Step 11a to Test A. The step is used when a trunk concentrator is remotely located. Revision arrows have been used to denote this change. 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 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 |
|---|---|---|
| **All Tests** | | |
| 1 | At TC test set—<br>Restore all keys and the TTS switch to normal. | |
| 2 | Plug head telephone set into A—B jacks. | |

| STEP | ACTION | VERIFICATION |
|---|---|---|
| 3 | At jack, key, and lamp panel located on outgoing trunk frame—<br>Using 3P7A cord, connect the RCV jack 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.<br><br>***Caution: To avoid possible grounding of battery supply lead, connect cord to test set first and, when disconnecting, remove cord from test set last.*** | |
| 6 | Operate BCO key. | BCO lamp lighted. |
| 7 | At TC test set—<br>Operate -48V key. | -48V lamp lighted. |

**4. METHOD**

| STEP | ACTION | VERIFICATION |
|---|---|---|
| **A. Operational Test** | | |
| 8 | At outgoing trunk frame—<br>Operate MB key on jack, key, and lamp panel associated with trunk under test. | MB_ lamp lighted. |
| 9 | At TC test set—<br>Operate TTS switch to OGT position. | |
| 10 | Operate OGT key. | OGT, OH lamps lighted.<br>At jack, key, and lamp panel—<br>ON_, OFH_ lamps lighted |
| 11a | ▶If TC is remotely located—<br>Operate 10 DB key.<br><br>*Note:* When TC is colocated, the operation of the 10 DB key should be omitted.◀ | |
| 12 | Using office records, select a 7-digit telephone number which is known to be arranged to route to AIC. | |

| STEP | ACTION | VERIFICATION |
|---|---|---|
| 13 | Using Table A, select desired routing information which is associated with route to be tested. | |
| 14 | At TC test set—<br>Key in digits selected in Steps 12 and 13 including the ST pulse. | |
| 15 | Operate TALK key. | TALK lamp lighted.<br>Machine intercept announcement heard or operator answers. |
| 16 | Restore OGT and TALK keys to normal. | OGT, OH, TALK lamps extinguished.<br>At jack, key, and lamp panel—<br>ON_, OFH_ lamps extinguished. |
| 17 | Repeat Steps 12 through 16 for other routes to be tested. | |
| 18b | If AIC is equipped for receiving ONI traffic—<br>Using Table B, select routing information which is associated with route to be tested. | |
| 19b | At TC test set—<br>Operate OGT key. | OGT, OH lamps lighted.<br>At jack, key, and lamp panel—<br>ON_, OFH_ lamps lighted. |
| 20b | At TC test set—<br>Key in digit selected in Step 18b plus ST. | |
| 21b | Operate TALK key. | TALK lamp lighted.<br>Machine intercept announcement heard or operator answers. |
| 22b | Restore OGT key to normal. | OGT, OH lamps lighted.<br>At jack, key, and lamp panel—<br>ON_, OFH_ lamps extinguished. |
| 23 | At TC test set—<br>Restore all operated keys and the TTS switch to normal. | All lamps extinguished. |
| 24c | If no other tests are to be performed on this trunk—<br>Remove all patching cords between test set and jack, key, and lamp panel. | |
| 25c | At jack, key, and lamp panel—<br>Restore MB_ key. | MB_ lamp extinguished. |

| STEP | ACTION | VERIFICATION |
|---|---|---|
| **B. Disconnect** | | |
| 8 | At outgoing trunk frame—<br>Insulate contact 10B of WNK relay. | |
| 9 | Connect ground to (A) terminal strip as follows:<br>***Even-numbered trunks—***<br>Terminal 13.<br>***Odd-numbered trunks—***<br>Terminal 16. | |
| 10 | At TC test set—<br>Operate TTS switch to OGT position. | |
| 11 | At outgoing trunk frame—<br>Operate MB key on jack, key, and lamp panel associated with trunk under test. | MB lamp lighted. |
| 12 | At TC test set—<br>Operate OGT key. | OGT lamp lighted.<br>After 10 seconds—<br>TBL lamp lighted.<br>At jack, key, and lamp panel—<br>ON_, TO_ lamps lighted. |
| 13 | At TC test set—<br>Restore OGT key. | OGT, TBL lamps extinguished.<br>At jack, key, and lamp panel—<br>ON_ lamp extinguished. |
| 14 | At TC test set—<br>Restore all operated keys and the TTS switch to normal. | |
| 15 | At outgoing trunk frame—<br>Remove insulator from WNK relay. | |
| 16 | Remove ground from M lead. | |
| 17 | Manually release relay TO. | At jack, key, and lamp panel—<br>TO_ lamp extinguished. |
| 18a | If no other tests are to be performed on this trunk—<br>At TC test set—<br>Remove all patching cords between test set and jack, key, and lamp panel. | |
| 19a | At outgoing trunk frame—<br>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. |