OUTGOING TRUNK CIRCUIT SD-97578-01
TESTS USING PORTABLE TEST SET SD-97576-01 (J94747A)
NO. 1 TRUNK CONCENTRATOR

1. GENERAL

PAGE

.01 This section describes a method of testing outgoing trunk circuit SD-97578-01 using portable trunk test set ▶SD-97576-01◀ (J94747A). The outgoing trunk (OGT) circuit is a 4-wire trunk circuit which interfaces the No. 1 trunk concentrator (TC) with the trunk to the No. 5 crossbar automatic call distributor (ACD) or No. 23-desk for completing directory assistance calls or intercept calls. ▶Also, for directory assistance charging (DAC) calls, the outgoing trunk interfaces the trunk concentrator with a No. 1 ESS office with CAMA, or a TSPS office. AMA billing is performed at the No. 1 ESS or TSPS office prior to connecting to a directory assistance (DA) operator, which is remote from the No. 1 ESS or TSPS office.◀

1.02 This section is reissued to include new procedures for testing trunks which are arranged for directory assistance charging. Minor corrections are made throughout the section. This reissue affects the Equipment Test List.

1.03 The tests covered are:

PAGE

A. Operational Test▶—Trunks Without Directory Assistance Charging (DAC): ◀ This test checks that the trunk can be seized by the concentrator and an operator has been connected at the ▶No. 5◀ ACD or No. 23-desk. It also checks for normal release of the trunk. 2

A.1 ▶Operational Test—Trunks With Directory Assistance Charging (DAC): This test checks the operation of the outgoing trunk circuit for directory assistance calls, which are routed to TSPS or No. 1 ESS CAMA for directory assistance charging (DAC). When this circuit is arranged for DAC, it requires that the calling number be either automatic number identified (ANI) or operator number identified (ONI). Also, this test establishes a talking path to either one or two operators, depending on the number identification arrangement at the central office. The trunk is released to normal after completion.◀ . . . 3

B. Timed Disconnect (For Trunk Wired With Option ▶N, T, or X): This test is provided for outgoing trunk circuits that are arranged for receiving a wink signal from the distant office after seizure (options N, T, or X). It checks that when an off-hook signal is not received from the distant end within 5 seconds, the trunk will disconnect.◀ 5

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
All Tests		
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 outgoing trunk frame— Using 3P7A cord, connect the RCV jack associated with the trunk under test to the RCV1 jack on the TC test set.	
4	Using 3P7A cord, connect the TRMT jack to the TRT2 jack on the TC test set.	
5	Using 3P7A cord, connect the -48V jack to -48V jack on the TC test set. ***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	At outgoing trunk and concentrator frame— Operate BCO key.	BCO lamp lighted.
7	At TC test set— Operate -48V key.	-48V lamp lighted.

4. METHOD

STEP	ACTION	VERIFICATION
A. Operational Test ▶Trunks Without Directory Assistance Charging (DAC)◀		
8	At outgoing trunk frame— Operate MB key associated with trunk under test.	MB_ lamp lighted.
9	▶At TC test set— Operate DN and 10 DB key.	DN, 10 DB lamps lighted.◀
10	At TC test set— Operate TTS switch to OGT position.	

STEP	ACTION	VERIFICATION
11a	If integrity wink is not provided (No. 5 ACD or No. 23-desk)— Operate OGT key.	OGT, OH lamps lighted. At outgoing trunk frame— ON_ lamp lighted. OFH_ lamp lighted after operator answers.
12b	If integrity wink is provided by No. 5 ACD line circuit (options X & Y)— At TC test set— Operate OGT key.	OGT, OH lamps lighted. At outgoing trunk frame— ON_ lamp lighted. OFH_ lamp flashed then lighted after operator answers.
13	At TC test set— Operate TALK key. ***Note:*** If the volume is too ▶low, restore◀ DN and/or 10 DB key.	TALK lamp lighted. Operator answers.
14	Restore OGT and TALK keys to normal.	OGT, OH, TALK lamps extinguished. At outgoing trunk frame— ON_, OFH_ lamps extinguished.
15	At TC test set— Restore all operated keys to normal.	All lamps extinguished.
16c	If no other tests are to be performed on this trunk— At outgoing trunk frame— Restore MB key.	MB_ lamp extinguished.
17c	At TC test set— Remove all patching cords between test set and outgoing trunk frame.	
A.1	**▶Operational Test—Trunks With Directory Assistance Charging (DAC)**	
8	At outgoing trunk frame— Operate MB key associated with trunk under test.	MB_ lamp lighted.
9	At TC test set— Operate TTS switch to OGT position.	
10	Operate 10 DB and DN keys.	10 DB and DN lamps lighted.
ANI—Directory Assistance Calls		
11	At TC test set— Operate TONE key.	MFT lamp lighted.
12	At TC test set— Operate OGT key.	OGT, OH lamps lighted. At outgoing trunk frame—

STEP	ACTION	VERIFICATION
		ON_ lamp lighted. OFH_ lamp momentarily flashes.
13	Using MF key set on test set— Key in KP plus a 7-digit number associated with a local test number plus ST. ***Example:*** KP-555-3727-ST, where 555-3727 is a test number.	MF tones heard in head telephone set as each digit is keyed in. Audible ringing heard. DA operator answers call. At outgoing trunk frame— OFH_ lamp lighted.
14	At TC test set— Operate TALK key.	TALK lamp lighted. Talking path established to the DA operator.
15	Inform operator of test being made. ***Note:*** If volume is too low, restore DN and/or 10 DB key to normal.	
16	Restore OGT and TALK keys to normal.	OGT, OH, TALK lamps extinguished. At outgoing trunk frame— ON_, OFH_ lamps extinguished.
17	At TC test set— Restore all operated keys to normal.	All lamps extinguished.
18a	If no other tests are to be performed on this trunk— At outgoing trunk frame— Restore MB key.	MB_ lamp extinguished.
19a	At TC test set— Remove all patching cords between test set and outgoing trunk frame.	

ONI—Directory Assistance Calls

20	At TC test set— Operate TONE key.	MFT lamp lighted.
21	At TC test set— Operate OGT key.	OGT, OH lamps lighted. At outgoing trunk frame— ON_ lamp lighted. OFH_ lamp momentarily lighted.
22	Using MF keyset on test set— Key in KP-1-ST.	MF tones heard in head telephone set as each digit is keyed in. Audible ringing heard. CAMA or TSPS operator answers. At outgoing trunk frame— OFH_ lamp lighted.

STEP	ACTION	VERIFICATION
23	At TC test set— Operate TALK key.	TALK lamp lighted.
24	Inform operator of test being made.	
25	Request CAMA or TSPS operator to key in a local test number. ***Example:*** KP-555-4596-ST, where 555-4596 is a test number.	
26	Restore TALK key.	TALK lamp extinguished.
27	CAMA or TSPS operator keys in KP plus 7 digits associated with a local test number plus ST into AMA.	Audible ringing heard. DA operator answers.
28	At TC test set— Operate TALK key.	TALK lamp lighted. Talking path established with the DA operator.
29	Inform DA operator of test being made. ***Note:*** If the volume is too low, restore DN and/or 10 DB key.	
30	Restore OGT and TALK keys to normal.	OGT, OH, TALK lamps extinguished. At outgoing trunk frame— ON_, OFH_ lamps extinguished.
31a	If no other tests are to be performed on this trunk— At outgoing trunk frame— Restore MB key.	MB_ lamp extinguished.
32a	At TC test set— Remove all patching cords between test set and outgoing trunk frame.◀	

B. Timed Disconnect (For Trunk Wired With Option ▶N, T, or X)◀

8	At outgoing trunk frame— Insulate 3B of RO relay.	
9	At terminal strip A— Connect frame ground to terminal 38.	
10	At TC test set— Operate the TTS switch to OGT position.	

STEP	ACTION	VERIFICATION
11	At outgoing trunk frame— Operate MB key associated with trunk under test.	MB_ lamp lighted.
12	At TC test set— Operate OGT key.	OGT lamp lighted. After approximately 5 seconds— TBL lamp lighted. At outgoing trunk frame— ON_, TO_ lamps lighted.
13	At TC test set— Restore OGT key.	OGT, TBL lamps extinguished. At outgoing trunk frame— ON_ lamp extinguished.
14	At TC test set— Restore all operated keys and the TTS switch to normal.	All lamps extinguished.
15	At outgoing trunk frame— Remove insulator from 3B of RO relay.	
16	Remove ground from terminal 38 of terminal strip A.	
17	Manually release TO relay.	At outgoing trunk frame— 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 outgoing trunk frame.	
19a	At outgoing trunk frame— Restore MB_ key.	MB_ lamp extinguished.