

RECORDING-COMPLETING TRUNKS

TESTS USING TEST SET SD-21475-01 OR SD-90470-01

PANEL OFFICES

1. GENERAL

1.01 This section describes a method of testing two-wire recording-completing trunks connected to distant or office multiple, three-wire recording-completing trunks to toll offices, and operator recording-completing trunks connecting with recording-completing cords at semimechanical "A" switchboards.

1.02 This section is reissued to include test of three-wire toll-diversion trunks. Since this issue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The tests covered are:

A. Test of Noncoin Trunks: This test checks the nonoperate and operate, ringback, and number-checking features of noncoin trunks.

B. Test of Coin Trunks: This test checks the nonoperate and operate, ringback, coin collect, and coin return features of coin trunks.

C. Test of Semimechanical "A" Switchboard Operator Trunks: This test checks the nonoperate and operate, coin control, and ringback features of the toll operator trunks.

1.04 The test set may be used at the relay rack if the trunks are equipped with test jacks at the outgoing trunk testboard and the trunk test

jacks at the testboard are connected to the selector multiple side of the trunks.

1.05 All tests require action and verification at the switchboard.

1.06 Any circuit on which a failure is encountered should be made busy until the trouble is corrected.

1.07 During Test A, B, or C traffic peg count registers scoring should be recorded in accordance with local instructions.

2. APPARATUS

All Tests

2.01 Recording-completing trunk test set per ~~SD-21475-01~~ or SD-90470-01.

2.02 Two P3E patching cords, length as required, equipped with two 310 plugs. (If battery and ground jack is not available, only one is required).

2.03 One W2T patching cord, 9 feet long, equipped with one 310 plug and a test clip (required only when battery and ground jack is not available).

2.04 Head telephone set.

2.05 184 make-busy plug.

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
1	Connect BAT-G jack on test set to frame battery and ground supply.	
2	Connect head telephone set to TEL jack on test set.	
3a	If office is sender-select-type arranged for toll diversion — Operate TD-SS key (SD-90470-01).	

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STEP	ACTION	VERIFICATION
4b	If office is link-type arranged for toll diversion — Operate TD-LN key (SD-90470-01).	
5c	If trunks operate on 1500-ohm customer lines — Operate L-1500 key (SD-90470-01).	
6d	If sleeve control for toll diversion is provided — Operate SL-C key.	

4. METHOD

STEP	ACTION	VERIFICATION
A. Test of Noncoin Trunks		
7	Connect T jack on test set to TST jack of trunk to be tested.	If trunk is idle — SB lamp not lighted. If trunk is busy — SB lamp lighted.
8e	If trunk is busy — Remove the plug from TST jack and select another trunk.	SB lamp extinguished.
9f	If testing at the outgoing trunk testboard — Insert 184 make-busy plug into the associated MB jack.	SB lamp lighted.
10	Operate NO key.	Audible ringing tone not present.
11g	If using test set SD-90470-01 — Momentarily remove and reinsert test cord plug into test jack.	SB lamp extinguished.
12	Operate ST key.	Audible ringing tone heard. SB lamp lighted or remains lighted.
13g	If using test set SD-90470-01 — Momentarily remove and reinsert test cord plug into test jack.	SB lamp extinguished.
14	At switchboard — Call answered; hold the trunk for testing.	At test set — Audible ringing tone silenced. SB lamp extinguished if lighted. SL lamp lighted.
15f	If testing at the outgoing trunk testboard — Remove make-busy plug from MB jack.	
16	Operate FL key.	At switchboard — Cord lamp lighted.
17	Restore FL key.	Cord lamp extinguished.
18	Operate and release FL key several times.	Cord lamp flashes.

STEP	ACTION	VERIFICATION
19h	If trunk is arranged for ringback — Request ringback current be applied at the switchboard.	At test set — RR lamp lighted.
20h	Remove ringback current.	RR lamp extinguished.
21i	If trunk is arranged for number checking — Operate NC key.	
22i	At switchboard — Connect the trunk to the number checking circuit.	At test set — Number checking tone heard.
23i	At switchboard — Disconnect from the number checking circuit.	At test set — Number checking tone silenced.
24i	Restore NC key.	
25	Restore ST key.	At switchboard — Disconnect signal received.
26	At switchboard — Disconnect from the tested trunk.	At test set — SL lamp extinguished.
27	At test set — Restore all keys.	
28	Disconnect plug from test jack.	

B. Test of Coin Trunks

7	Connect T jack on test set to TST jack of trunk to be tested.	If trunk is idle — SB lamp not lighted. If trunk is busy — SB lamp lighted.
8e	If SB lamp lighted — Remove the plug from the trunk test jack.	
9f	If testing at the outgoing trunk testboard — Insert 184 make-busy plug into the associated MB jack.	SB lamp lighted.
10	Operate CT, NO keys.	Audible ringing tone not heard.
11g	If using test set SD-90470-01 — Momentarily remove and reinsert test cord plug into test jack.	SB lamp extinguished.
12	Operate ST key.	Audible ringing heard. SB lamp lighted (SD-90470-01). If testing two wire trunk — SL lamp lighted (SD-21475-01). If testing at the outgoing trunk testboard — SB lamp extinguished (SD-21475-01).

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STEP	ACTION	VERIFICATION
13g	If using test set SD-90470-01 — Momentarily remove and reinsert test cord into test jack.	SB lamp extinguished.
14	At switchboard — Call answered; hold the trunk for testing.	Audible ringing tone silenced. SB lamp extinguished if lighted. If testing three-wire trunk — SL lamp lighted. CR lamp lighted momentarily.
15f	If testing at the outgoing trunk testboard — Remove make-busy plug from MB jack.	
16	Restore CT key.	
17	Operate FL key.	At switchboard — Cord lamp lighted.
18	Restore FL key.	Cord lamp extinguished.
19	Operate and release FL key several times.	Cord lamp flashes.
20h	<i>OPERATE CT KEY</i> If trunk is arranged for ringback — Request ringback current be applied at the switchboard.	At test set — RR lamp lighted.
21h	Remove ringback current.	RR lamp extinguished.
22	<i>RESTORE ST KEY TO GET C.C.</i> Request CC potential be applied at switchboard.	CC lamp lighted.
23	Remove CC potential.	CC lamp extinguished.
24	Request CR potential be applied.	CR lamp lighted.
25	Remove CR potential.	CR lamp extinguished.
26	At test set — Restore ST keys.	At switchboard — Disconnect signal received.
27	At switchboard — Disconnect from the tested trunk.	At test set — CC lamp lighted momentarily. SL lamp extinguished.
28	At test set — Restore all keys.	
29	Disconnect plug from test jack.	

C. Test of Semimechanical "A" Switchboard Operator Trunks

7	Connect SM jack on test set to test jack of trunk.	
8	Operate TS key.	SB lamp not lighted.
9	Restore TS key.	SL lamp lighted.
10e	If verifications of Steps 8 and 9 are present — Insert 184 make-busy plug into MB jack of the trunk being tested.	

STEP	ACTION	VERIFICATION
11	Operate ST key.	Audible ringing tone heard.
12	At switchboard — Call answered. Request that the trunk be held at the switchboard for testing of supervisory features.	Audible ringing tone silenced.
13	Operate and release FL key several times.	At switchboard — Cord lamp flashed.
14f	If trunk is arranged for ringback — Request ringback current be applied at the switchboard.	At test set — RR lamp lighted.
15	Remove ringback current.	RR lamp extinguished.
16g	If trunk is arranged for coin control — At test set — Operate CT key.	
17g	At switchboard — Establish coin collection connection.	At test set — CC lamp lighted. At switchboard — Low tone heard.
18g	Disconnect coin collection connection.	At test set — CC lamp extinguished. At switchboard — Low tone silenced.
19g	Establish coin return connection.	At test set — CR lamp lighted. At switchboard — High tone heard.
20g	Disconnect coin return connection.	At test set — CR lamp extinguished. At switchboard — High tone silenced.
21g	At test set — Restore CT key.	
22	At test set — Restore ST key.	SL lamp extinguished.
23	Operate and release DS key.	
24	Restore all keys.	
25	Remove make-busy plug from MB jack.	
26	Disconnect cords from test jacks.	