

**2-WAY TRUNKS
TO COMMUNITY DIAL OFFICES
TESTS USING TRUNK TEST CIRCUIT SD-25918-01
NO. 5 CROSSBAR OFFICES**

1. GENERAL

PAGE

1.01 This section describes a method of testing 2-way trunk circuits (SD-25655-01, SD-25667-01, SD-25673-01, SD-25816-01, SD-26124-01, SD-26125-01, SD-26176-01), and auxiliary outgoing trunk circuit (SD-26111-01) to a community dial office (CDO). Tests are made using the trunk test circuit, the master test frame (MTF), and the switchboard position.

C. Call to Community Dial Office: This test checks continuity and supervision of the complete trunk circuit.

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1.02 This section is reissued for the following reasons. Arrows are used to indicate significant changes. This reissue does not affect the Equipment Tests Lists.

D. Trunk Busy: The following features are checked: (1) Selection of a made-busy trunk using only the BT lead of the trunk under test. (2) Inability to select a made-busy trunk using FT_ and BT leads. (3) Ability to select an idle trunk using FT_ and BT leads.

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(a) To revise Tests A, B, and C to add Calling Data Transmitter (CDT) features.

(b) To add SD-26176-01 to paragraph 1.01.

OUTGOING CALLS FROM SWITCHBOARD

1.03 The tests covered are:

E. Call to Community Dial Office—Trunks Arranged for Key pulsing From Switchboard: This test checks continuity and supervision on a call from the switchboard to a CDO.

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OUTGOING CALLS THROUGH THE SWITCHES

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A. Call to Terminating Test Line: This test checks the following: (1) Seizure, supervision, and release of the trunk relay equipment in the No. 5 crossbar office. (2) Operation of the trunk when arranged for message timing.

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B. Overflow: This test checks that the trunk is set for overflow and sends back overflow flashes when a reorder condition is established in the sender.

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E. Reorder—Trunks Arranged for Key pulsing From Switchboard: This test checks that the trunk is set for reorder and causes the cord supervisory lamp to flash at the reorder rate when the incoming register in the No. 5 crossbar office encounters a reorder condition.

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G. Call to Community Dial Office—Trunks Arranged for Temporary Automatic Operation: This test checks supervision and continuity on a call from the switchboard when the trunk is arranged for temporary automatic operation.

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NOTICE

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INCOMING CALLS TO SWITCHBOARD

H. Call From Community Dial

Office: This test checks the seizure, continuity, supervision, and release of the trunk on a call from a CDO to the switchboard.

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station whether the receiver is on-hook or off-hook.

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MISCELLANEOUS TESTS

I. Trunk-Busy Indication at Switchboard:

This test checks that the trunk tests busy at the switchboard when made busy at the MTF, at the testboard, or by a service call, and that under these conditions no call can be completed from the switchboard.

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1.04 Tests H and I require actions and verifications at the switchboard and at the MTF or the relay rack frame.

1.05 Test L is made with all other trunks made busy that are in the trunk group of the trunk being tested.

1.06 Tests G, H, N, and O require actions and verifications at the coin test station at the CDO and the switchboard.

1.07 Local instructions should be followed for recording and reporting any register operations associated with the GB lead while performing Test L.

J. Trunk-Idle or Trunk-Busy Lamp Indications and Timed Release:

This test checks the following features: (1) Trunk-idle or trunk-busy lamp indications. (2) The trunk is held busy for approximately 1 second after disconnect at the switchboard.

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1.08 **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.

K. Timed Release—Outgoing Call Through Switches and Incoming Call:

This test checks the following features: (1) The trunk is held busy for approximately 1 second after disconnect of an incoming or through switched call. (2) The timed release feature of the auxiliary outgoing trunk.

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1.09 The manner of selecting some circuits and test conditions at the master test frame (MTF) and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

L. Trunk Group Busy: This test checks that, when all trunks in a group are busy, the trunk group-busy lamp is lighted.

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1.10 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

M. Pad Arrangement: This test checks that the transmission pad arrangement feature, if provided, functions properly.

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1.11 On Issue 76D of SD-25800-01, a group of 18 "class of test" lamps was replaced by a single "start test" lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, such as DT, ORIG, ITDO, ITNP, OGT, etc.

N. Coin Control Feature: This test checks the ability of a trunk arranged for coin control to collect or to return the coin to a calling coin line.

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O. Rering: This test checks the ability of the trunk to rering the called

1.12 When the office is arranged for LAMA-C or ETS, the distributors and scanners associated with the marker and trunk used in the test call must be in service or in a ***maintenance-busy*** condition - not in an ***out-of-service*** condition. To change a scanner or distributor from an ***out-of-service*** to a ***maintenance-busy*** condition, use the procedure given in the following sections for the office arrangement.

218-798-308—Taking LAMA-C Equipment Out-of-Service.

218-799-701 - Taking ETS Equipment Out-of-Service.

1.13 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk supervisory scanning to be repeated on the FT, CS, and S1 lamps at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, supervision will continue to be repeated on the lamps, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command ***STOP:TRK TST*** is entered at the maintenance TTY.

1.14 When CDT (calling data transmitter) billing system is provided in the office, the trunk may or may not handle billable calls. When it is arranged for billable calls, supervisory scan points will be assigned and supervision will be repeated from the scan points on test calls to the MTF by CS and S1 lamps.

1.15 When CDT is provided, there may be several configurations in the office - single controller,

dual controller with the trunk assigned to one controller, or dual controller and the trunk is assigned to both controllers. When assigned to both controllers in a dual controller configuration, one test must be made to each controller to verify scan points for each controller.

2. APPARATUS

2.01 The apparatus required for each test is shown in TABLE A. The details of each item are covered in the paragraph indicated by the number in parentheses.

2.02 Master test control circuit, SD-25800-01.

2.03 Trunk test circuit, SD-25918-01.

2.04 67C test set, or equivalent, equipped with one KS-6278 connecting clip (for checking the presence or absence of battery or ground).

2.05 1014A dial hand test set (handset) or equivalent, equipped with a 2W38A cord assembly consisting of a W2CK cord, a 417A jack, and a 310 plug (used in distant office to originate call).

2.06 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord) and two KS-6278 connecting clips, or one KS-6278 connecting clip and one 624B tool as required (used to connect ground to terminal strip terminals).

2.07 Blocking and insulating tools as required. (For tools and application information, see Section 069-020-801.)

3. PREPARATION

STEP	ACTION	VERIFICATION
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Refer to paragraphs 1.04 through 1.15.

Tests A through D, 1

1	At MTF— Restore all keys and switches.	
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2	Momentarily operate RL key.	All lamps extinguished.
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STEP

ACTION

VERIFICATION

TABLE A

APPARATUS	TESTS										
	A	B, C	D	E, F G, N	H	I	H	K	L	M	O
Master test control circuit (2.02)	1	1	1	—	—	1	—	—	—	—	—
Trunk test circuit (2.03)	1	1	1	—	—	1	—	—	—	—	—
Head telephone set	—	—	—	1	1	1	—	—	1	—	1
Test receiver (2.04)	—	—	—	—	—	—	1	—	—	1	—
Handset (2.05)	—	—	—	—	1	—	—	—	—	—	—
Cord (2.06)	—	—	—	—	—	—	—	—	—	1	—
KS-3008 stopwatch or equivalent	1	—	—	—	—	—	—	1	—	—	—
322A (make-busy) plugs	—	—	✓	—	—	✓	✓	✓	✓	✓	—
Tools (2.07)	—	—	—	—	—	—	—	✓	—	—	—

✓ As required

- 3 Select A_ through C_ digits to direct call to route of trunk under test.
- 4 Select trunk under test.
- 5 Operate GPA/GPB key as required when selected route is associated with an allotted subgroup.
- 6 Select route advance as required.
- 7 Select marker.
- 8a If ETS provided—
Operate PCS, PTS keys.

STEP	ACTION	VERIFICATION
Tests A, B, and C		
9b	If trunk is to be tested for CDT— Operate CDTT key.	
10b	When trunk is assigned to CDT dual controllers, select controller— Operate CDC 0/1 key.	
11b	When a trouble record is to be taken from the CDT translator access (TA) circuit— Operate TREC key.	
12b	When the CDT controller operates with both shared and dedicated translator circuits and a particular translator circuit is to be used for the test— Operate TAD key to select dedicated TA circuit, or operate TAS key to select shared TA circuit.	
	Note: When a TA circuit is not selected, the controller will select the next available TA circuit.	

4. METHOD

STEP	ACTION	VERIFICATION
OUTGOING CALLS THROUGH THE SWITCHES		
A. Call to Terminating Test Line		
13	Select OGT class of test.	
14	Select TOL subclass of test.	TOL lamp lighted.
15	Operate TLK, TTL keys.	
16	If CX or SX signaling is provided— Operate E-M key.	
17	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. PK lamp not lighted. If CX or SX signaling is provided— E lamp lighted.
18	Operate ANS key.	Steady high tone heard. OGT-CS lamp lighted.

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STEP	ACTION	VERIFICATION
19	Restore ANS key.	OGT-CS lamp extinguished. No high tone heard.
20	Restore TLK key.	If ETS provided— FT lamp extinguished. TAS lamp extinguished. If CX or SX signaling is provided— E lamp extinguished.
21	Restore TOL subclass of test.	TOL lamp extinguished.
22	Momentarily operate RL key.	All lamps extinguished.
23d	If auxiliary outgoing trunk is arranged for tandem completion— Select TAN subclass of test.	TAN lamp lighted.
24d	Operate TLK key.	
25d	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS lamp lighted. PK lamp not lighted. If CX or SX signaling is provided— E lamp extinguished.
26d	Operate ANS key.	OGT-CS lamp lighted. Steady high tone heard.
27d	Restore ANS key.	OGT-CS lamp extinguished. No high tone heard.
28d	Restore TLK key.	If ETS provided— FT lamp extinguished. AS lamp extinguished. If CX or SX signaling is provided— E lamp extinguished.
29d	Momentarily operate RL key.	All lamps extinguished except TAN.
30d	Restore TAN subclass of test.	TAN lamp extinguished.
31e	If auxiliary outgoing trunk is provided with customers having access to trunk under test— Select class of service and rate treatment having access to trunk under test.	
32e	Operate TLK key.	
33e	Momentarily operate ST key.	If CDTT key is operated— S1 lamp lighted.¶ If ETS provided—

STEP	ACTION	VERIFICATION
		FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS lamp lighted. PK lamp not lighted. If trunk is arranged for AMA and not arranged for ETS, CDT, or LAMA-C— IE, RN_ lamps lighted. T_ U_ lamps lighted for the tens, units digits of number assigned to circuit in call identity indexer. If CX or SX signaling is provided— E Lamp lighted.
34e	Operate ANS key; <i>start timing</i> .	♦If CDTT key is operated— CS lamp lighted.♦ If ETS or LAMA-C provided— CS lamp lighted. OGT-CS lamp lighted. Steady high tone heard. If trunk is arranged for AMA and not arranged for ETS, CDT, or LAMA-C— In 2 to 5 seconds— AE lamp lighted. If trunk is arranged for message timing— In 2 to 5 seconds— RP lamp lighted.
35e	Restore ANS, TLK keys.	♦If CDTT key is operated— S1, CS lamps extinguished. If ETS provided— FT, CS, S1 lamps extinguished. If LAMA-C provided— CS, S1 lamps extinguished. OGT-CS, AS lamps extinguished. No high tone heard. If CX or SX signaling is provided— E lamp extinguished. If trunk is arranged for AMA and not arranged for ETS, CDT, LAMA-C— DE lamp lighted.
36	Momentarily operate RL key.	All lamps extinguished.
37f	If no other tests are to be performed— Restore all keys and switches.	
B. Overflow		
13	Select OGT class of tests.	
14	Select TOL subclass of test.	TOL lamp lighted.

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STEP	ACTION	VERIFICATION
15	Operate ROT, TLK keys.	
16c	If CX or SX signaling is provided— Operate E-M key.	
17	Momentarily operate St key.	If ETS provided— FT lamp lighted. TAS lamp lighted. PK lamp not lighted. OGT-CS lamp flashes at overflow rate and/or overflow tone heard. If CX or SX signaling is provided— E lamp momentarily lighted.
18	Restore TOL subclass of test.	TOL lamp extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
20d	If auxiliary outgoing trunk is arranged for tandem completion— Select TAN subclass of test.	TAN lamp lighted.
21d	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS lamp lighted. PK lamp not lighted. OTG-CS lamp flashes at overflow rate and/or overflow tone heard. If CX or SX signaling is provided— E lamp momentarily lighted.
22d	Momentarily operate RL key.	All lamps extinguished except TAN.
23d	Restore TAN subclass of test.	TAN lamp extinguished.
24e	If auxiliary outgoing trunk is provided with customers having access to trunk being tested— Select class of service and rate treatment having access to trunk under test.	
25e	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS lamp lighted. PK lamp not lighted. If trunk is arranged for AMA and not arranged for ETS, ♦CDT,♦ or LAMA-C— IE lamp lighted. Overflow tone heard.

STEP	ACTION	VERIFICATION
		If CX or SX signaling is provided— E lamp momentarily lighted.
26e	Momentarily operate RL key.	All lamps extinguished.
27e	if no other tests to be performed— Restore all keys and switches.	

C. Call to Community Dial Office

13	Select MISC class of test.	
14	Select TOL subclass of test.	TOL lamp lighted.
15	Select D_ through G_ digits for test line number at CDO.	
16	Operate KY, TLK keys.	
17	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. Ringing tone heard. OGT-CS lamp flashes or tone heard. If wink start supervision is provided— At relay rack frame— E relay operates and releases one time.
		<i>Note:</i> Ringing and supervisory signals will vary depending on the type of test line used in the distant office. Signals received on first test will indicate the signals that may be expected on successive tests to same office.
18	Restore TOL subclass of test.	TOL lamp extinguished.
19	Momentarily operate RL key.	All lamps extinguished.
20c	If auxiliary outgoing trunk is arranged for tandem completion— Select TAN subclass of test.	TAN lamp lighted.
21c	Momentarily operate ST key.	If ETS provided— FT lamp lighted. AS lamp lighted. Ringing tone heard. OGT-CS lamp flashes or tone heard.
22c	Momentarily operate RL key.	All lamps extinguished except TAN.
23c	Restore TAN subclass of test.	TAN lamp extinguished.

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STEP	ACTION	VERIFICATION
24d	If auxiliary outgoing trunk is provided with customers having access to trunk under test— Select class of service and rate treatment having access to trunk under test.	
25d	Momentarily operate ST key.	♦If CDTT key is operated— S1 lamp lighted.♦ If ETS provided— FT, S1 lamps lighted. If LAMA-C provided— S1 lamp lighted. AS lamp lighted. If trunk is arranged for AMA and not arranged for ETS, ♦CDT,♦ LAMA-C— IE, RN, T, U lamps lighted. Ringing tone heard.
26d	Momentarily operate RL key.	All lamps extinguished.
27e	If no other tests are to be performed— Restore all keys and switches.	

D. Trunk Busy

9	Insert make-busy plug into OGT-MB jack associated with trunk under test.	
10	Select OGT class of test.	
11	Select TOL subclass of test.	
12	Operate NTFS, NTTS keys.	TOL lamp lighted.
13	Operate TLK, TTL keys.	
14b	If CS or SX signaling is provided— Operate E-M key.	
15	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. If CX or SX signaling is provided— E lamp lighted.
16	Momentarily operate RL key.	All lamps extinguished except TOL. If ETS provided— FT lamp remains lighted.
17	Operate FS, TS.	
18	Momentarily operate ST key.	TB lamp lighted.

STEP	ACTION	VERIFICATION
19	Momentarily operate RL key.	All lamps extinguished except TOL. If ETS provided— FT lamp remains lighted.
20	Insert make-busy plugs into OGT-MB jacks associated with all other trunks on same trunk link frame and in same route as trunk under test.	
21	Remove make-busy plug from OGT-MB jack associated with trunk under test.	If ETS provided— FT lamp extinguished.
22	While trunk under test is idle— Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted. If CX or SX signaling is provided— E lamp lighted.
23	Remove make-busy plugs from OGT-MB jacks associated with all trunks made busy in Step 20.	
24	Restore TOL subclass of test.	TOL lamp extinguished.
25	Momentarily operate RL key.	All lamps extinguished.
26c	If no other tests are to be performed— Restore all keys and switches.	

OUTGOING CALLS FROM SWITCHBOARD

E. Call to Community Dial Office—Trunks Arranged for Key pulsing From Switchboard

1	At switchboard— Insert plug of head telephone set into position jacks.	
2	Operate TALK key of idle front cord.	
3	When trunk to be tested is idle— Insert front cord plug into OGT jack associated with trunk under test.	Front cord supervisory lamp lighted.
4	Momentarily operate front cord KP key.	KF, S lamps or KP lamp lighted.
5	Dial or key number assigned to permanently busy line in CDO.	
6	Momentarily operate ST key.	KF, S lamps or KP lamp extinguished. Interrupted tone heard at line busy rate. If flashing is provided—

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STEP	ACTION	VERIFICATION
		Front cord supervisory lamp flashes at line-busy rate.
7	Remove front cord from OGT jack associated with trunk under test.	Front cord supervisory lamp extinguished.
8	After approximately 2 seconds— Make sleeve-busy test.	Trunk tests idle.
9	Restore TALK key.	
10	Remove head telephone set from jacks.	
F. Reorder—Trunks Arranged for Key pulsing From Switchboard		
1	At switchboard— Insert plug of head telephone set into position jacks.	
2	Operate TALK key of idle front cord.	
3	When trunk to be tested is idle— Insert front cord into OGT jack associated with trunk under test.	Front cord supervisory lamp lighted.
4	Momentarily operate front cord KP key.	KF, S lamps or KP lamp lighted.
5	Simultaneously operate, hold digit keys 0, 9.	Interrupted tone heard at overflow rate. If flashing is provided— Front cord supervisory lamp flashes at overflow rate.
6	Release digit keys 0, 9.	
7	Remove front cord from OGT jack associated with trunk under test.	Front cord supervisory lamp extinguished.
8	Momentarily operate release key.	KF, S lamps or KP lamp extinguished.
9	Restore TALK key.	
10	Remove head telephone set from jacks.	
G. Call to Community Dial Office—Trunks Arranged for Temporary Automatic Operation		
1	At switchboard— Insert plug of head telephone set into position jacks.	
2	Operate TALK key of idle front cord.	

STEP	ACTION	VERIFICATION
3	When trunk to be tested is idle— Insert front cord plug into OGT jack associated with trunk under test.	Front cord supervisory lamp lighted.
4	Momentarily operate front cord KP key.	KF, S lamps or KP lamp lighted.
5	Dial or key number assigned to CDO test station.	
6	Momentarily operate ST key.	KF, S lamps or KP lamp extinguished.
7	Momentarily operate front cord ringing key.	<p>Ringling tone heard.</p> <p>When call is answered— Front cord supervisory lamp extinguished.</p> <p>At CDO test station— Transmission established with assistant.</p>
		<i>Note:</i> In some cases, supervisory lamp will remain lighted until disconnect, depending upon circuit arrangement at distant office.
8	At switchboard— Restore TALK key of selected front cord.	Front cord supervisory lamp lighted.
9	Remove front cord from OGT jack associated with trunk under test.	Front cord supervisory lamp extinguished.
10	After approximately 2 seconds— Make sleeve-busy test.	Trunk tests idle.
11	Restore TALK key.	
12	Remove head telephone set from jacks.	

INCOMING CALLS TO SWITCHBOARD

H. Call From Community Dial Office

1	At switchboard— Insert plug of head telephone set into position jacks.	
2	Operate TALK key of idle front cord.	
3	At CDO— Operate switch of handset to MON.	
4	Insert plug of handset into jack A of trunk to be tested.	
5	When trunk is idle— Operate switch of handset to TALK.	<p>At switchboard— Trunk-answer lamp lighted.</p>

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STEP	ACTION	VERIFICATION
6	Insert front cord into answering jack associated with trunk under test.	Trunk-answer lamp extinguished.
7	At CDO— Operate switch of handset to MON, then to TALK several times in rapid succession.	At switchboard— Front cord supervisory lamp flashes.
8	At CDO— Disconnect handset.	At switchboard— Front cord supervisory lamp lighted.
9	Remove front cord from answering jack.	
10	Restore TALK key.	
11	Remove head telephone set from jacks.	

MISCELLANEOUS TESTS

I. Trunk-Busy Indication at Switchboard

9	Select MISC class of test.	
10	Select TOL subclass of test.	TOL lamp lighted.
11	Select D_ through G_ digits for test line number in distant office.	
12	Operate KY, TLK keys.	
13	Momentarily operate ST key.	If ETS provided— FT lamp lighted. TAS lamp lighted.
14	At switchboard— Insert plug of head telephone set into position jacks.	
15	Operate TALK key of idle front cord.	
16	Make sleeve-busy test at OGT jack associated with trunk under test.	Trunk tests busy.
17	Insert front cord into OGT jack associated with trunk under test.	Front cord supervisory lamp remains extinguished.
18	At MTF— Insert make-busy plug into OGT-MB jack associated with trunk under test.	
19	Restore TOL subclass of test.	TOL lamp extinguished.

STEP	ACTION	VERIFICATION
20	Momentarily operate RL key.	All lamps extinguished. If ETS provided— FT lamp remains lighted.
21	At switchboard— Remove front cord from OGT jack associated with trunk under test.	
22	Make sleeve-busy test.	Trunk tests busy.
23	Reinsert front cord plug into OGT jack associated with trunk under test.	Front cord supervisory lamp remains extinguished.
24	At MTF— Remove plug from OGT-MB jack associated with trunk under test.	If ETS provided— FT lamp extinguished. At switchboard— Front cord supervisory lamp lighted.
25c	If trunk has appearance at testboard— At testboard— Insert make-busy plug into OS jack associated with trunk under test.	
26c	At switchboard— Remove front cord from OGT jack associated with trunk under test.	Front cord supervisory lamp extinguished.
27c	Make sleeve-busy test.	Trunk tests busy.
28c	Reinsert front cord into OGT jack associated with trunk under test.	Front cord supervisory lamp remains extinguished.
29c	At testboard— Remove plug from OS jack.	At switchboard— Front cord supervisory lamp lighted.
30	Remove front cord from OGT jack associated with trunk under test.	Front cord supervisory lamp extinguished.
31	Restore TALK key.	
32	Remove head telephone set from jacks.	
33d	If no other tests are to be performed— At MTF— Restore all keys and switches.	
J. Trunk-Idle or Trunk-Busy Lamp Indications and Timed Release		
1a	If idle indicating lamps are provided— At MTF— Insert make-busy plugs into OGT-MB jacks	

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STEP	ACTION	VERIFICATION
	associated with preferred trunks of same trunk group.	
2	At switchboard— Operate TALK key of idle front cord.	
3	When trunk under test is idle as indicated by trunk-busy or idle indicating lamps— Insert front cord plug into OGT jack associated with trunk under test.	Idle-indicating lamp extinguished or trunk-busy lamp lighted.
4	Remove front cord from OGT jack associated with trunk under test.	Approximately 1 second after cord is removed— Idle-indicating lamp lighted or trunk-busy lamp extinguished.
5	Restore TALK key.	
6a	If idle-indicating lamps are provided— At MTF— Remove plugs from OGT-MB jacks.	

K. Timed Release—Outgoing Call Through Switches and Incoming Call

Trunks From No. 1 Toll Switchboard

1	At MTF— Insert make-busy plug into OGT-MB jack associated with trunk under test.	At relay rack frame— B, MB relays operated.
2	At relay rack frame— Insulate 3T, 3B of TT relay.	
3a	If trunk being tested is arranged for CX or SX supervision— Insulate 3B of SL relay.	
4a	Block operated E relay.	IN relay operated. B relay released.
5a	Block nonoperated B relay.	
6a	Remove blocking tool from E relay.	E relay released. Approximately 1 second after E relay released— G relay momentarily operated. IN, MB relays released.
7a	Remove blocking tool from B relay.	B, MB relays operated.
8b	If trunk being tested is arranged for reverse battery supervision— Insulate 6T of SL relay.	

STEP	ACTION	VERIFICATION
9b	Block operated CS1 relay.	IN relay operated. B relay released.
10b	Block nonoperated B relay.	
11b	Remove blocking tool from CS1 relay.	CS1 relay released. Approximately 1 second after CS1 relay released— G relay momentarily operated. IN, MB relays released.
12b	Remove blocking tool from B relay.	B, MB relays operated.
13	Block operated TM relay.	SG relay operated.
14	Block nonoperated B relay.	
15	Remove blocking tool from TM relay.	TM relay released. Approximately 1 second after TM relay released— G relay momentarily operated. MB, SG relays released.
16	Remove blocking tool from B relay.	B, MB relays operated.
17	Block operated D relay.	
18	Block nonoperated B relay.	
19	Remove blocking tool from D relay.	D relay released. Approximately 1 second after D relay released— G relay momentarily operated. MB relay released.
20	Remove blocking tool from B relay.	B, MB relays operated.
21	Remove insulators from SL, TT relays.	
22	At jack, lamp, and key circuit— Remove plug from OGT-MB jack.	
Trunks From No. 3C or 3CL Switchboard		
23	At MTF— Insert make-busy plug into OGT-MB jack of trunk	B relay operated.
24c	If SD-25667-01 or SD-25816-01 is being tested— At relay rack frame— Insulate 1B of SL relay.	

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STEP	ACTION	VERIFICATION
25d	If SD-26124-01 or SD-26125-01 is being tested— At relay rack frame— Insulate 5B of SL relay.	
26e	If trunk is arranged for CX or SX supervision and SD-25667-01 is being tested— Insulate 6T, 6B of TT relay.	
27e	Block operated E relay.	IN, MB relays operated. B relay released.
28e	Remove blocking tool from E relay.	E relay released. Approximately 1 second after E relay released— G relay momentarily operated. IN, MB relays released. B relay operated.
29f	If trunk is arranged for CX and SX supervision and SD-26124-01 is being tested— Insulate 4B, 8B of TT relay.	
30f	Block operated E relay.	IN, MB relays operated. B relay released.
31f	Remove blocking tool from E relay.	E relay released. Approximately 1 second after E relay released— G relay momentarily operated. IN, MB relays released. B relay operated.
32g	If trunk is arranged for reverse battery supervision and SD-25816-01 is being tested— Insulate 3T, 3B of TT relay.	
33g	Block operated L1 relay.	IN, MB relays operated. B relay released.
34g	Remove blocking tool from L1 relay.	L1 relay released— Approximately 1 second after L1 relay is released— G relay momentarily operated. IN, MB relays released. B relay operated.
35h	If trunk is arranged for reverse battery supervision and SD-26125-01 is being tested— Insulate 2B, 10B of TT relay.	
36h	Block operated CS1 relay.	IN, MB relays operated. B relay released.

STEP	ACTION	VERIFICATION
37h	Remove blocking tool from CS1 relay.	CS1 relay released. Approximately 1 second after CS1 relay released— G relay momentarily operated. IN, MB relays released. B relay operated.
38	Block operated TM relay.	SG relay operated.
39	Manually operate MB relay.	MB relay locked operated. B relay released.
40	Remove blocking tool from TM relay.	TM relay released. Approximately 1 second after TM relay released— G relay momentarily operated. MB, SG relays released. B relay operated.
41	Block operated D, SG relays.	
42	Manually operate MB relay.	MB relay locked operated. B relay released.
43	Remove blocking tool from D relay.	D relay released. Approximately 1 second after D relay released— G relay momentarily operated. MB relay released. B relay operated.
44	Remove blocking tool from SG relay.	SG relay released.
45	Remove insulators from SL, TT relays.	
46	At MTF— Remove make-busy plug from OGT-MB jack.	
Auxiliary Outgoing Trunk Circuit Associated With Trunk Being Tested		
47	At MTF— Insert make-busy plug into OGT-MB jack of 2-way trunk associated with auxiliary outgoing trunk under test.	
48	At relay frame of associated auxiliary outgoing trunk— Insulate 6M, 10M of MA relay, 6B of S2 relay.	
49	Block operated TC, CH relays; <i>start timing</i> .	In 13 to 32 seconds after CH relay was blocked operated— MA relay operated.

STEP	ACTION	VERIFICATION
		In 2 to 5 seconds after MA relay operated— MA relay released.
50	Remove blocking tools from TC, CH relays.	
51	Remove insulators from MA, S2 relays.	
52	At MTF— Remove plug from OGT-MB jack.	
L. Trunk Group Busy		
1	At switchboard— Insert plug of head telephone set into position jacks.	
2	Operate TALK key of idle front cord.	
3	At MTF— Insert make-busy plugs into OGT-MB jacks of all trunks of trunk group except trunk under test.	
4	At switchboard— Insert front cord into OGT jack associated with trunk under test.	Trunk group-busy lamp, associated with trunk group being tested, lighted.
5	Remove front cord from OGT jack associated with trunk under test.	Trunk group-busy lamp extinguished.
6	Restore TALK key.	
7	Remove head telephone set from jacks.	
8	At MTF— Remove plugs from OGT-MB jacks of trunks made busy in Step 3.	
M. Pad Arrangement		
1	At MTF— Insert make-busy plug into OGT-MB jack associated with trunk under test.	At relay rack frame— 227-type terminal strip Pad in, resistance battery on terminal A1. Pad out, resistance ground on terminal A1. D-type terminal strip Pad in, resistance battery on terminal 33. Pad out, resistance ground on terminal 33.
2	At MTF— Remove plug from OGT-MB jack of trunk under test.	

STEP	ACTION	VERIFICATION
N. Coin Control Feature		
1	At switchboard— Connect head telephone set to switchboard position jack.	
2	Operate TALK key of idle front cord.	
3	When trunk under test is idle— Insert front cord into OGT jack associated with trunk under test.	Front cord supervisory lamp lighted. Order tone heard.
4	Momentarily operate front cord KP key.	KF, S lamps or KP lamp lighted.
5	Dial or key number assigned to CDO coin test station.	
6	Momentarily operate ST key.	KF, S lamps or KP lamp extinguished.
7	Momentarily operate front cord ringing key.	Ringing tone heard. When call is answered at coin test station— Front cord supervisory lamp extinguished.
8	At CDO coin test station— Deposit coin, replace receiver on switch hook.	At switchboard— Coin deposit tone received. Front cord supervisory lamp lighted.
9	Momentarily operate position coin collect key.	
10	Operate front cord ringing key.	At CDO coin test station— Coin collected. At switchboard— Coin pilot (red) lamp lighted.
11	Restore front cord ringing key.	Coin control (green), coin pilot (red) lamps extinguished.
12	Momentarily operate front cord ringing key.	Ringing tone heard. When call at CDO coin test station is answered— Front cord supervisory lamp extinguished.
13	At CDO coin test station— Check that coin was collected in Step 10.	
14	Replace receiver on switch hook.	At switchboard— Front cord supervisory lamp lighted.
15	Momentarily operate front cord ringing key.	Ringing tone heard. When call at CDO coin test station is answered— Front cord supervisory lamp extinguished.

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STEP	ACTION	VERIFICATION
16	At CDO coin test station— Deposit coin; leave receiver off switch hook.	At switchboard— Coin deposit tone heard.
17	Momentarily operate position coin return key.	Coin control (green) lamp lighted.
18	Operate front cord ringing key.	At CDO coin test station— Coin returned. At switchboard— Coin pilot (red) lamp lighted.
19	Restore front cord ringing key.	Coin control (green), coin pilot (red) lamps extinguished.
20	At CDO coin test station— Check that coin was returned in step 18.	
21	Replace receiver on switch hook.	At switchboard— Front cord supervisory lamp lighted.
22g	If no other tests are to be performed— Restore TALK key.	Front cord supervisory lamp extinguished.
23g	Remove front cord from OGT jack associated with trunk under test.	
24g	Disconnect head telephone set.	
O. Rering		
1	At switchboard— Connect head telephone set to switchboard position jack.	
2	Operate TALK key of idle front cord.	
3	When trunk under test is idle— Insert front cord into OGT jack.	Front cord supervisory lamp lighted. Order tone heard.
4	Momentarily operate front cord KP key.	KF, S lamps or KP lamp lighted.
5	Dial or key number assigned to CDO test station.	
6	Momentarily operate ST key.	KF, S lamps or KP lamp extinguished.
7	Momentarily operate front cord ringing key.	At CDO test station ringing heard.
8	Remove receiver from switch hook.	At switchboard— Front cord supervisory lamp extinguished.
9	At CDO test station— Replace receiver on switch hook.	At switchboard— Front cord supervisory lamp lighted.

STEP	ACTION	VERIFICATION
10	Momentarily operate front cord ringing key.	At CDO test station— Ringing heard.
11	Remove receiver from switch hook.	At switchboard— Front cord supervisory lamp extinguished.
12	At CDO test station— Replace receiver on switch hook.	At switchboard— Front cord supervisory lamp lighted.
13	Restore TALK key.	Front cord supervisory lamp extinguished.
14	Remove front cord from OGT jack associated with trunk under test.	
15	Remove head telephone set from position jack.	

